

Aurora Edit

User Guide

● → SOFTWARE VERSION 6.0a

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Contents

Chapter 1	Introducing Aurora Edit	
	What is Aurora Edit?	20
	Quick Overview of Editing with Aurora Edit	20
	Tour of the Aurora Edit Window	21
	Main Toolbar	22
	Bin	22
	Timeline	23
	Tools	25
	Navigating in Aurora Edit	30
	Using the Mouse	30
	Using the Keyboard	30
	Using the Shortcut Menus	30
	Tour of the Aurora Edit Keyboard	31
Chapter 2	Setting Up The Bin	
	The Bin Window	36
	Understanding the Bin Toolbar	37
	Creating a New Bin	38
	Working in Shared or Local Mode	39
	Setting Up Your Bins	40
	Setting Up a SmartBin	41
	Creating a Transfer SmartBin	42
	Creating a Shared SmartBin	43
	Creating a Media Import SmartBin	43
	Viewing the Material in Your Bins	45
	Thumbnail View	45
	Details View	47
	Using the Context-Sensitive Bin Menu	49
Chapter 3	Editing in the Timeline	
	Editing Overview	52
	Understanding the Timeline and Source Tools	53
	The Timeline Tool	53
	The Source Tool	55
	Controlling a Deck from Aurora Edit	56
	Creating a New Sequence	57
	Changing Sequence Properties	58
	Selecting and Deselecting Tracks	59
	Toggling tracks on the fly	59
	Setting Up Your Edit in the Timeline Tool	60
	Marking In and Out Points	60
	Setting Up a Split Edit	61



Contents

Setting Up Your Edit in the Source Tool	62
Marking In and Out Points	62
Using Variable Speed Record	62
Setting Up a Split Edit	63
Routing Audio Tracks	63
Using the Input Tool	64
Naming Source Tapes	66
Selecting Your Source	67
Using a Clip Source	67
Changing Sources	68
Using Auxiliary Input	68
Creating Your Clips	69
Playing a Sequence	69
Saving a Sequence	70

Chapter 4

Other Ways to Edit with Aurora Edit

Using Clips Stored in the Bin	72
Using Files from Removable Media	73
Using Files from Proximity artbox	75
Finding Clips in Your Workgroup	76
Linking to an Existing News or Sports Story	77
Adjusting the Read Count in Story View	82
Recording to the Bin	84
Batch Recording	86
Creating a Batch Capture List	87
Rearranging the Batch Capture List	89
Saving a Batch Capture List	89
Loading a Batch Capture List	91
Recording Clips to the Bin	92
Moving Clips and Sequences	93
Copying a Clip or Sequence	93
Moving a Clip or Sequence	93
Renaming Bins and Media Files	94
Deleting Clips and Sequences	94
Searching for a Clip or Sequence	95
Changing Master Clip Properties	96

Chapter 5

Importing and Exporting Files

Importing Files from a Media Server	100
Importing Files	100
Importing Clips	101
Importing EDL Files	102
Importing Effects	103

Importing Graphic Files	104
Importing Media	106
Importing a TGA Animation Sequence	108
Exporting Files	111
Exporting EDLs	112
Exporting Effects	114
Exporting Graphic Files	115
Exporting Media	116
Working with Audio OMF Files	121
Exporting an Aurora Edit Sequence	122
Adding Audio Enhancements	123
Importing Enhanced OMF Files Back into Aurora Edit	129

Chapter 6

Trimming Your Clips

Trimming Clips	132
Using the Trim Tool	132
Trimming Your Clips	133
Using Handles to Add Frames to Your Clips	134
Locking the Duration of a Clip	134
Playing Past Out	134
Changing Cut Points Between Adjacent Clips	135
Using the Cut Point Edit Tool	135
Changing Cut Points	136
Extending Your Edits	139
Extending Your Edits	140
Trimming Your Media Clips in the Bin	141
Creating SubClips	142
Copying a Clip to the Timeline	142
A Quick Way to Edit	142

Chapter 7

Fine Tuning and Advanced Editing

Moving Clips in the Timeline	144
Moving Audio Clips	145
Copying and Pasting Clips	145
Selected Items	145
Selected Area	146
Saving the Timeline Track Configuration	146
Changing the Editing Mode	147
Using Quick Edit Mode	147
Splitting Clips	148
Lifting Clips From the Timeline	149
Deleting a Clip from Your Sequence	151
Inserting Filler Between Clips	153
Creating a Fit To Fill	155



Contents

Adding a Freeze Frame To Your Sequence	156
Varying the Speed of a Clip	157
Creating Split Edits	158
Using Control Track	159
Using Match Frame	159
Match Frame to Bin	159
Match Frame to Source	160
Working with Apple Final Cut Pro	161
Converting Existing Aurora Edit Files to .mov Format	161
Exporting an Aurora Edit Sequence as a Final Cut Pro EDL	161
Importing an Aurora Edit Sequence on Final Cut Pro	162
Opening an Aurora Edit Clip on Final Cut Pro	163
Exporting a Final Cut Pro File	164

Chapter 8 **Adding Transitions to Your Sequences**

Using the Transition Tool	166
Adding Transitions to Your Sequences	167
Creating a Transition	167
Changing Transitions	169
Rendering Transitions	169
Creating Transitions For an Area of the Sequence	170
Deleting Transitions	171
Understanding Transition Types	172
Dissolves	172
Wipes	173
Pushes	175
Slides	175
Adding Audio Crossfades	176
Applying Crossfades to the Audio Tracks Only	176
Applying Crossfades Automatically With Transitions	176

Chapter 9 **Adding and Adjusting Audio**

Using the Audio Mixer Tool	178
Adjusting Audio Levels	179
Viewing Audio Levels on the Timeline	179
Changing Audio Levels in a Clip	180
Removing Fade Control Points	182
Ganging and Adjusting Multiple Audio Tracks	182
Setting the Pan Control	183
Monitoring Audio Tracks	184
Soloing a Track	184
Muting a Track	185
Using the Master Audio Sliders to Set Output Level	186
Channel Routing	187

	Adjusting Audio Gain	188
	Using Audio Automation	189
	Showing Audio Automation	189
	Removing Audio Automation	190
	Crossfading Audio	190
	Adding Audio Narration	191
Chapter 10	Creating Audio Effects	
	Using the Audio Effects Tool	194
	Equalizing Audio in a Recorded Sequence	195
	Adjusting the Frequency	197
	Adjusting the Gain	197
	Adjusting the Mid Band Q	197
	Disguising a Voice in a Clip	198
	Adjusting the Pitch and Randomizing the Voice	199
Chapter 11	Creating Video Effects (Option)	
	Video Effects Overview	202
	Understanding Video Effects	203
	Moving the Foreground Image Within the Viewer Window	203
	Using the Video Effects Tool	206
	Adding an Effect to the Timeline	207
	Using Saved Effects in Your Sequence	208
	Importing Effects	209
	Defining Your Video Effect	211
	Choosing a Video Effect	211
	Using Effect Options	213
	Defining Effect Properties	214
	Working with Keyframes	215
	Inserting Keyframes	216
	Modifying Keyframes	217
	Setting a Path for the Effect	218
	Viewing Effects Within Your Sequence	219
	Saving Video Effects	220
	Rendering Video Effects	220
	Layering Effects	221
	Exporting Video Effects	221
Chapter 12	Adding Titles (Option)	
	Using the Title Tool	224
	Using Title Templates	225
	Modifying a Template for Your Sequence	227



Contents

	Selecting a Text Field	228
	Editing Text	228
	Changing Text Properties	229
	Changing Edge Properties	230
	Advanced Titling.	232
	Understanding the Lyric Plug-in	234
	Changing the Title Background	236
	Importing Graphics	236
	Adding Text	237
	Adding Fonts	238
Chapter 13	Sending & Storing Completed Sequences	
	Sending Sequences to Another Aurora Edit or a Playback Server	240
	Associating a Sequence with an Aurora Playout Placeholder	241
	Recording Completed Sequences to Tape	243
	Storing Sequences on Aurora Edit	247
	Creating a Playback List	248
	Playing Sequences in the Playback List	251
	Trimming Sequences in the Playlist	253
	Changing Playback Colors	254
	Archiving Sequences on Tape	255
Appendix A	The Aurora Edit Keyboard	257
Appendix B	Video Effects	267
Appendix C	Configuring Aurora Edit	293
Appendix D	Troubleshooting	321
	Index	325

Grass Valley Product Support

To get technical assistance, check on the status of problems, or report new problems, contact Grass Valley Product Support via e-mail, the Web, or by phone or fax.

Web Technical Support

To access support information on the Web, visit the product support Web page on the Grass Valley Web site. You can download software or find solutions to problems by searching our Frequently Asked Questions (FAQ) database.

World Wide Web: <http://www.thomsongrassvalley.com/support/>

Technical Support E-mail Address: gvtechsupport@thomson.net.

Phone Support

Use the following information to contact product support by phone during business hours. After hours phone support is available for warranty and contract customers.

United States	(800) 547-8949 (Toll Free)	France	+33 (1) 34 20 77 77
Latin America	(800) 547-8949 (Toll Free)	Germany	+49 6155 870 606
Eastern Europe	+49 6155 870 606	Greece	+33 (1) 34 20 77 77
Southern Europe	+33 (1) 34 20 77 77	Hong Kong	+852 2531 3058
Middle East	+33 (1) 34 20 77 77	Italy	+39 06 8720351
Australia	+61 1300 721 495	Netherlands	+31 35 6238421
Belgium	+32 2 3349031	Poland	+49 6155 870 606
Brazil	+55 11 5509 3440	Russia	+49 6155 870 606
Canada	(800) 547-8949 (Toll Free)	Singapore	+656379 1390
China	+86 106615 9450	Spain	+ 34 91 512 03 50
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Preface

Authorized Support Representative

A local authorized support representative may be available in your country. To locate the support representative for your country, visit the product support Web page on the Grass Valley Web site.

Profile Users Group

You can connect with other Profile XP Media Platform users to ask questions or share advice, tips, and hints. Send e-mail to profile-users@thomson.net to join the community and benefit from the experience of others.

Safety Summaries

General Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

Only qualified personnel should perform service procedures.

While using this product, you may need to access other parts of the system. Read the *General Safety Summary* in other system manuals for warnings and cautions related to operating the system.

Review all system operator manuals, including manuals in electronic format on the system hard drive.

Injury Precautions

Use Proper Power Cord	To avoid fire hazard, use only the power cord specified for this product.
Ground the Product	This product is grounded through the grounding conductor of the power cord. To avoid electric shock, the grounding conductor must be connected to earth ground. Before making connections to the input or output terminals of the product, ensure that the product is properly grounded.
Do Not Operate Without Covers	To avoid electric shock or fire hazard, do not operate this product with covers or panels removed.
Do Not Operate in Wet/Damp Conditions	To avoid electric shock, do not operate this product in wet or damp conditions.
Do Not Operate in an Explosive Atmosphere	To avoid injury or fire hazard, do not operate this product in an explosive atmosphere.
Avoid Exposed Circuitry	To avoid injury, remove jewelry such as rings, watches, and other metallic objects. Do not touch exposed connections and components when power is present.



Preface

Product Damage Precautions

Use Proper Power Source	Do not operate this product from a power source that applies more than the voltage specified.
Provide Proper Ventilation	To prevent product overheating, provide proper ventilation.
Do Not Operate With Suspected Failures	If you suspect there is damage to this product, have it inspected by qualified service personnel.
Battery Replacement	To avoid damage, replace only with the same or equivalent type recommended by the circuit board manufacturer. Dispose of used battery according to the circuit board manufacturer's instructions.

Safety Terms and Symbols

Terms in This Manual These terms may appear in this and other product manuals:



WARNING: Warning statements identify conditions or practices that can result in personal injury or loss of life.

Terms on the Product These terms may appear on the product:

DANGER indicates a personal injury hazard immediately accessible as one reads the marking.

WARNING indicates a personal injury hazard not immediately accessible as you read the marking.

CAUTION indicates a hazard to property including the product.

Symbols on the Product



The following symbols may appear on the product:

DANGER high voltage



Protective ground (earth) terminal



ATTENTION – refer to manual

Service Safety Summary

Do Not Service Alone

Do not perform internal service or adjustment of this product unless another person capable of rendering first aid and resuscitation is present.

No Power Switch

To avoid electric shock, disconnect the main power by means of the power cord. The power cord is the main power disconnect. Ensure that the power cord is easily accessible at the rear of the product or at the power receptacle.

Use Care When Servicing With Power On

Dangerous voltages or currents may exist in this product. Disconnect power and remove battery (if applicable) before removing protective panels, soldering, or replacing components.

To avoid electric shock, do not touch exposed connections.



Preface

Certifications and Compliances

Canadian Certified Power Cords

Canadian approval includes the products and power cords appropriate for use in the North America power network. All other power cords supplied are approved for the country of use.

FCC Emission Control

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by Grass Valley can affect emission compliance and could void the user's authority to operate this equipment.

Canadian EMC Notice of Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Canadian Certified AC Adapter

Canadian approval includes the AC adapters appropriate for use in the North America power network. All other AC adapters supplied are approved for the country of use.

EN55022 Class A Warning

For products that comply with Class A. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Laser Compliance

Laser Safety Requirements

The device used in this product is a Class 1 certified laser product. Operating this product outside specifications or altering its original design may result in hazardous radiation exposure, and may be considered an act of modifying or new manufacturing of a laser product under U.S. regulations contained in 21CFR Chapter 1, subchapter J or CENELEC regulations in HD 482 S1. People performing such an act are required by law to recertify and reidentify this product in accordance with provisions of 21CFR subchapter J for distribution within the U.S.A., and in accordance with CENELEC HD 482 S1 for distribution within countries using the IEC 825 standard.

Laser Safety

Laser safety in the United States is regulated by the Center for Devices and Radiological Health (CDRH). The laser safety regulations are published in the “Laser Product Performance Standard,” Code of Federal Regulation (CFR), Title 21, Subchapter J.

The International Electrotechnical Commission (IEC) Standard 825, “Radiation of Laser Products, Equipment Classification, Requirements and User’s Guide,” governs laser products outside the United States. Europe and member nations of the European Free Trade Association fall under the jurisdiction of the Comité Européen de Normalization Electrotechnique (CENELEC).

FCC Emission Limits

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.



Preface

Certification

Category	Standard
Safety	<i>Designed/tested for compliance with:</i> ANSI/UL60950-2000 - Safety of Information Technology Equipment IEC 60950 - Safety of Information Technology Equipment (3rd edition, 1999) CAN/CSA C22.2, No. 60950-00 - Safety of Information Technology Equipment EN60950:2000 - Safety of Information Technology Equipment (3rd edition)

Environmental Criteria

The following table lists the environmental criteria for the Aurora Edit system.

Characteristics	Description
Operating Temperature	<i>Requirement:</i> 10° to 40°C
Storage Temperature	<i>Requirement:</i> -40° to 65°C
Operating Altitude	<i>Requirement:</i> To 10,000 feet <i>Supplemental Data:</i> IEC 60950 compliant to 2000 meters
Storage Altitude	<i>Requirement:</i> To 40,000 feet
Mechanical Shock	<i>Supplemental Data:</i> Class 5 (30G) Grass Valley 001131500
Random Vibration	<i>Requirement:</i> Operational: Class 6 Grass Valley 001131500 <i>Requirement:</i> Non-Operational: Class 5 Grass Valley 001131500
Transportation	<i>Requirement:</i> Grass Valley 001131500
Equipment Type	<i>Supplemental Data:</i> Information Technology
Equipment Class	<i>Supplemental Data:</i> Class 1
Installation Category	<i>Requirement:</i> Category II Local level mains, appliances, portable equipment, etc.
Pollution Degree	<i>Requirement:</i> Level 2 operating environment, indoor use only.
Relative Humidity	<i>Requirement:</i> Operating 80% from +30° to +40°C Non-Operating 90% from +30° to +60°C Do not operate with visible moisture on the circuit boards



Preface

Chapter 1

Introducing Aurora Edit

Aurora Edit is a digital nonlinear editing system for news, sports and fast turnaround production, combining all the functionality and speed of deck-to-deck editing with the power and performance of a nonlinear system.

This manual shows you how to use Aurora Edit effectively and efficiently to produce quality on-air news and sports stories.

This chapter discusses:

- What Aurora Edit is
- The Aurora Edit editing process
- The Aurora Edit window
- Aurora Edit navigation
- The Aurora Edit keyboard



What is Aurora Edit?

Aurora Edit is a digital nonlinear editing solution designed for editing news, sports and fast turnaround production. It replaces your record deck and effects switcher by displaying your edits in real time so you can quickly move on to your next edit without going back to review a completed edit.

Nonlinear editing systems provide greater efficiency, accuracy, and flexibility than analog tape-based systems. For instance, you do not need to edit the first shot first and the last shot last — you can edit shots in any order without re-recording all of your edits after a change. You can also update breaking stories quickly, save them, and then create different versions.

Re-editing stories, fixing mistakes, and adding shots in a tape-to-tape environment can require valuable time in a business where time isn't always available. With nonlinear editing, however, you can make changes to cuts, transitions, and audio levels at any time during the editing process. Aurora Edit trims precious minutes down to seconds with just a few keystrokes.

The Aurora Edit interface is designed for ease of use. It consists of a bin, a record/playback viewing monitor, a four-track audio mixer, a trim tool, and an editing Timeline. Aurora Edit's unique dynamic display updates automatically to provide you, the editor, with the tools you need for every edit.

Because the audio and video are stored digitally, you can repeatedly use and manipulate media without duplication or degradation.

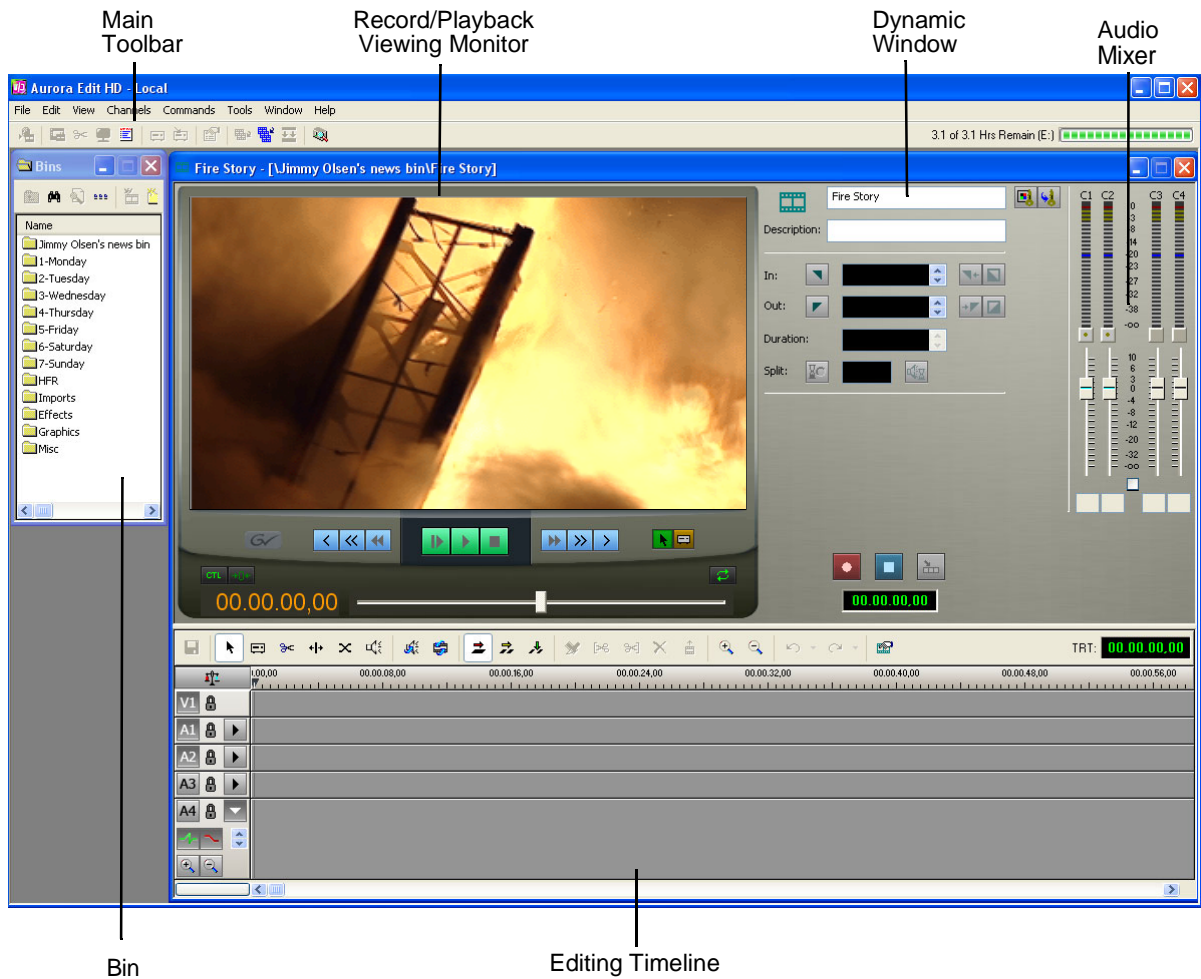
Quick Overview of Editing with Aurora Edit

You create a news or sports story with Aurora Edit in three stages:

1. Record your raw footage or feed directly to the Aurora Edit Timeline or Bin.
You can also import clips and sequences from other third-party sources or other Aurora Edit workstations.
2. Edit the story and fine-tune it.
Use basic editing procedures to create simple cuts. Add dissolve, wipe, or slide transitions. Add video effects such as blurs, color effects, or Picture-in-Picture. Adjust the audio or add new audio. Add graphics or titles.
3. Save your final story to a network server, record it to tape for airing, play it directly to air with your Aurora Edit playlist or a playback system such as Aurora Payout.

Tour of the Aurora Edit Window













The Aurora Edit window consists of a main toolbar, a Bin to hold files, a record/playback monitor, a four-track audio mixer, an editing Timeline, and a dynamic window that changes depending on the tool used.





Main Toolbar

The Main Toolbar provides access to common Aurora Edit functions:

Icon	Name	Function
	Send to File	Sends a clip or sequence to another destination.
	Timeline View	Displays the main view with the selected sequence on the Timeline.
	Trimmer View	Opens the selected clip in the Trimmer for editing.
	Player View	Displays the video in another player window.
	Story View	Displays the script for the selected sequence, if there is one.
	Record to Bin	Records clips directly into your Bin.
	Play to Tape	Records the selected clip or sequence to tape.
	Properties	Displays the properties for the currently selected clip or sequence, including the description, creation date, and location.
	Render Effects	Renders the currently selected transitions or other selected effects.
	Render All	Renders all unrendered transitions and effects in the current sequence.
	Mix Down	Collapses a video effect into the video clip below it, allowing you to apply another effect to the same clip.
	Aurora Transfer	Opens the Aurora Transfer program, which allows you to obtain and manage media files from your network.

Bin

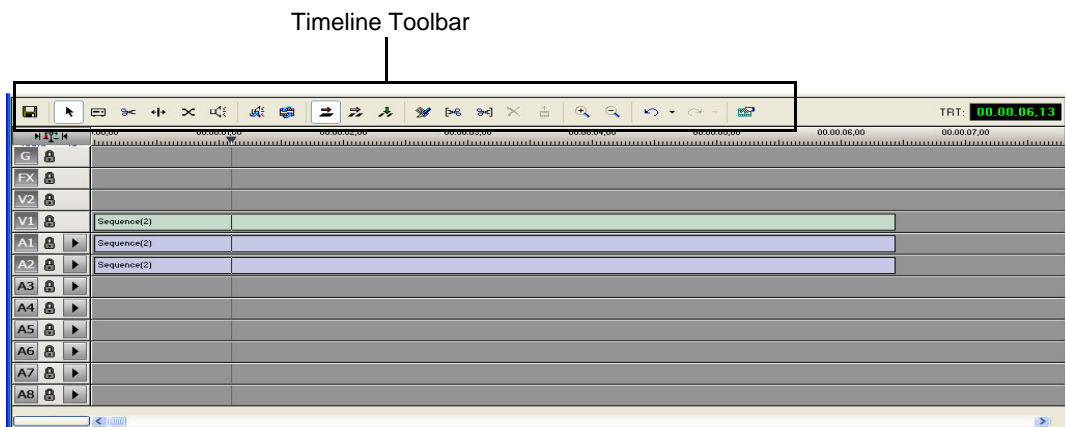
The Bin is a database where clips and sequences are stored and organized. The top-level bin appears by default when you start Aurora Edit. You can create additional bins to organize your media. You can also customize the information about each clip and then search specific fields in the database.

See “Setting Up The Bin” on page 35 for details on using the Bin.






Timeline

The Timeline is an all-purpose editing window that replaces a record deck in the editing process. The Timeline provides a graphic representation of your sequence in a single window, displaying its tracks, the name of each clip, and the current frame's location.

The Timeline window has its own Toolbar:




















The Timeline Toolbar provides access to each of the Aurora Edit tools and lets you select your editing mode:

Icon	Function
	Saves your sequence in the Bin.
	Selects the Timeline Tool.
	Selects the Source Tool.
	Selects the Trim Tool.
	Selects the Cut Point Edit Tool.

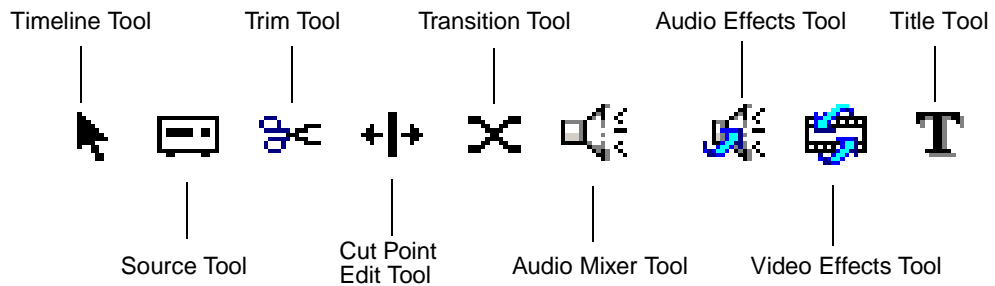


Chapter 1 *Introducing Aurora Edit*

Icon	Function
	Selects the Transition Tool.
	Selects the Audio Mixer Tool.
	Selects the Audio Effects Tool.
	Selects the Video Effects Tool.
T	Selects the Title Tool.
	Selects Overwrite Edit Mode.
	Selects Splice Edit Mode.
	Activates Fit To Fill.
	Splits a clip at the cursor point.
	Trims the top of the selected clip on the Timeline.
	Trims the tail of the selected clip on the Timeline.
	Deletes selected clips.
	Lifts selected clips off the Timeline.
	Zooms in the view in the Timeline.
	Zooms out the view in the Timeline.
	Undo.
	Redo.
	Opens the Sequence Properties window.

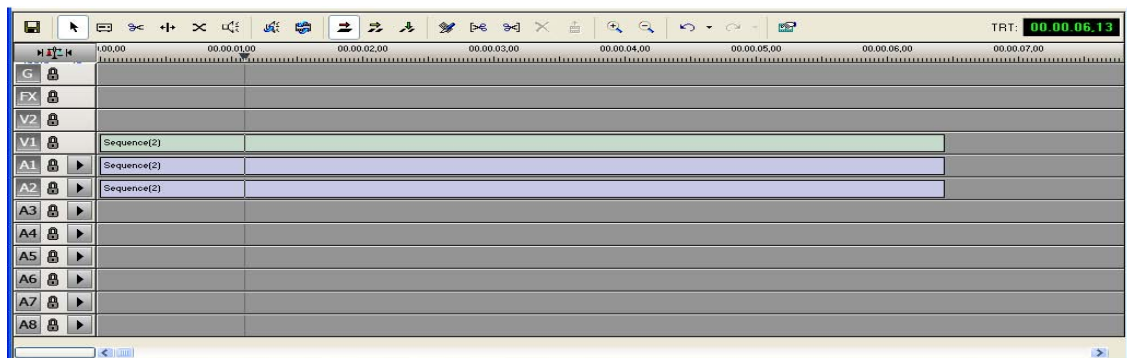
Tools

Each of the nine Aurora Edit tools displays in the dynamic window, leaving the Timeline unchanged. You select the tools from the Timeline toolbar.



The Timeline Tool

The Timeline Tool opens by default when you first create a sequence. You can select and move clips or audio tracks, play sequences, mark in and out points, and adjust master output audio sliders.





Chapter 1 *Introducing Aurora Edit*



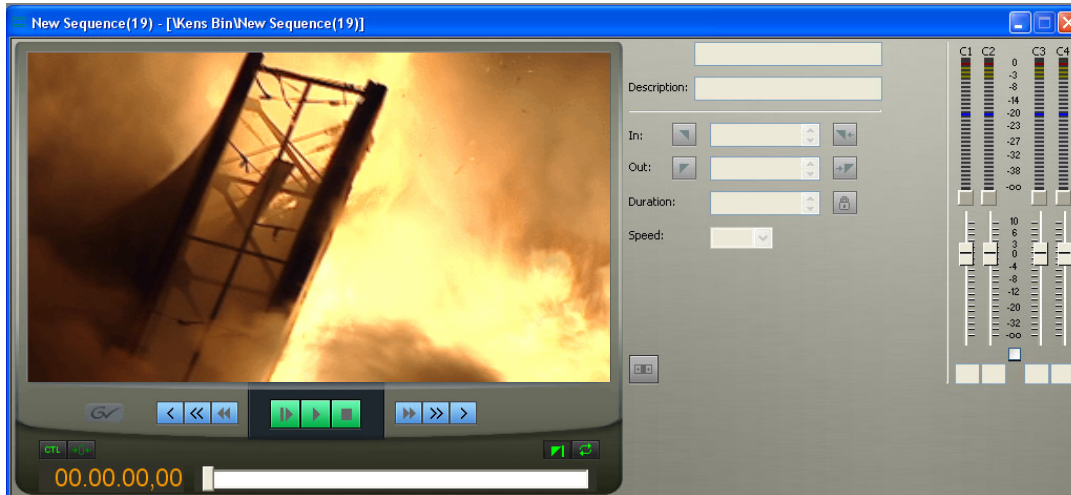
The Source Tool

The Source Tool digitizes raw material directly to the Timeline. This is the fastest and most efficient way to generate clips from a source tape. You can also use other sources for your footage, such as video feeds or microphones.



The Trim Tool

The Trim Tool changes the head or tail of a clip to change its duration.



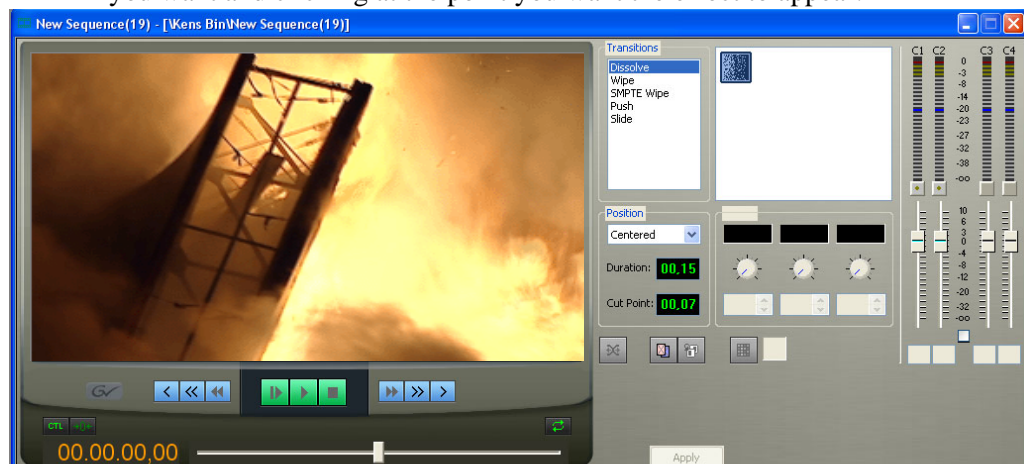
The Cut Point Edit Tool

The Cut Point Edit Tool changes the edit points between clips in the Timeline. You can easily create split edits by only selecting audio or video. If you have handles on your clips, you can access unused portions of a clip without returning to the source tape and redoing the edit.



The Transition Tool

The Transition Tool creates transition effects between clips in a sequence. You can create dissolves or wipes between any two edits by selecting the transition you want and clicking at the point you want the effect to appear.





Chapter 1 *Introducing Aurora Edit*



The Audio Mixer Tool

The Audio Mixer Tool adjusts the audio settings in a sequence, including the level, the pan, and output channel routing. You can raise or lower the audio on each audio track, or ride the audio on the fly using the Write Automation option.



The Audio Effects Tool

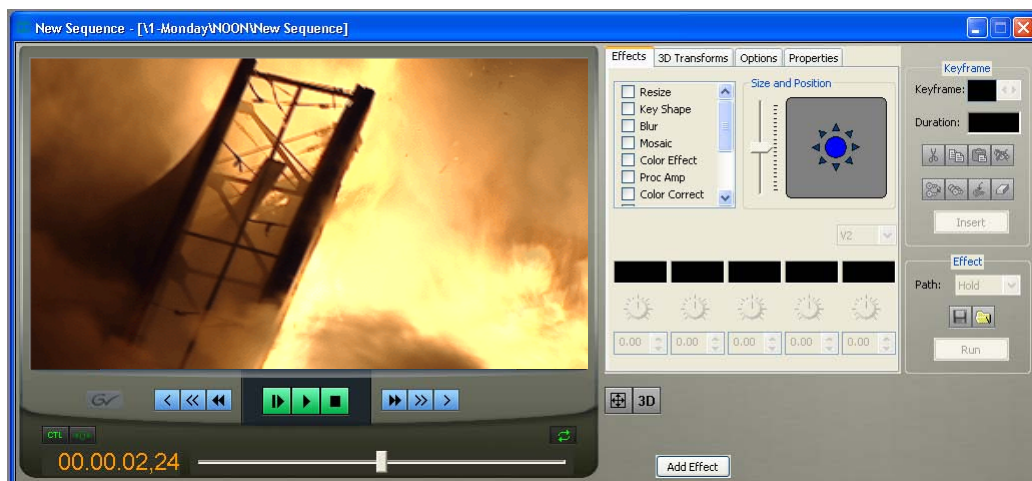
The Audio Effects Tool adjusts the frequency and gain within a clip by adjusting the audio EQ. For instance, you could disguise a subject's face and voice by modifying the audio and using a mosaic or blur effect for video.





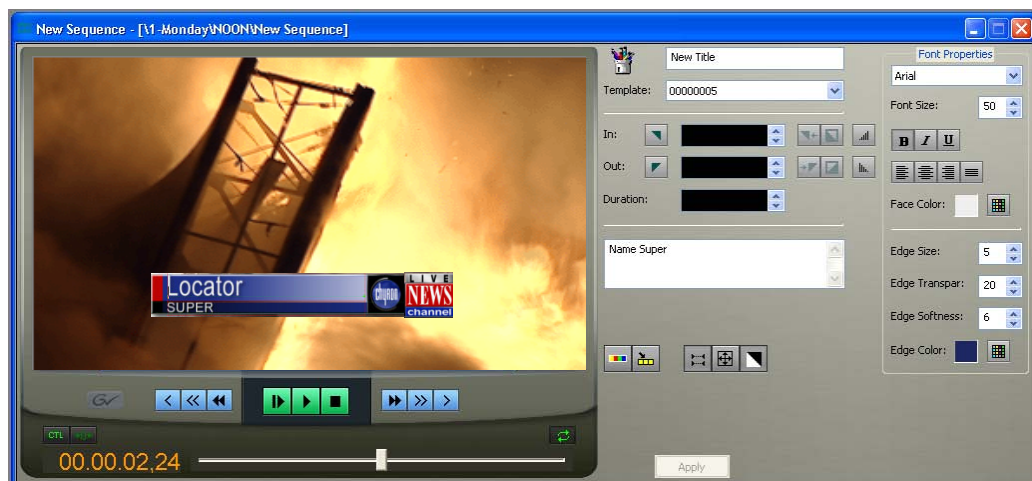
The Video Effects Tool

The Video Effects Tool is optional and creates effects for one or two video tracks, depending on the effect. An effects track on the Timeline lets you create the effect using keyframes and review the clip with the effect applied to it.



The Title Tool

The Title Tool is optional and adds text and graphics to your sequences. A graphics track on the Timeline lets you create the effect, modify its properties, and review the clip with the title applied to it.





Navigating in Aurora Edit

Aurora Edit supports any combination of mouse and keyboard navigation. This manual includes instructions for both mouse and keyboard commands.

Using the Mouse

To execute a mouse command, move the mouse pointer to a menu or button and click the left mouse button. This manual uses the term *click* when you press the mouse button once, *double-click* when you press the mouse button twice in quick succession, and *press* when you press and hold the mouse button.

You can also drag clips from the Bin directly into the Timeline. Place the mouse pointer on the title bar of the clip you want to move, press and hold the mouse button, drag the clip to the Timeline, and release the mouse button. This method of editing is track specific, so make sure you have the proper video and audio tracks enabled on the Timeline before performing the edit.

Using the Keyboard

The Aurora Edit keyboard has color-coded keys that allow you to see editing commands at a glance. Keyboard commands can be single keystrokes or key combinations. You execute key combinations such as **Ctrl + TAB** by pressing and holding the first key in the combination, while simultaneously pressing the second key. See Appendix A for a complete list of keyboard keys and functions.

Using the Shortcut Menus

This application also makes use of right-click shortcut menus. Shortcut menus provide a quick way to access relevant commands without having to move the mouse pointer to the toolbar or menu bar. To access these menus, press the right-mouse button once and a menu appears. The commands that appear depend on the position of the mouse pointer when you right-click. For example, when you right-click in the Bin, the shortcut menu provides quick access to bin management commands.

Tour of the Aurora Edit Keyboard

Aurora Edit's keyboard uses color-coded keys that correspond to Aurora Edit functions. The different sections of each keyboard are introduced below. See *Appendix A* for a detailed key reference.





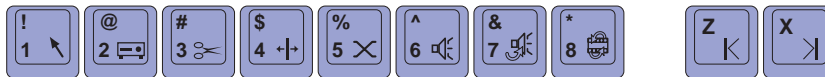
Chapter 1 *Introducing Aurora Edit*

These keys correspond to Aurora Edit functions:

- The Record Key—The record key starts recording.



- Main Tool Selection Keys—The first eight dark blue keys activate the corresponding Aurora Edit tools. The last two dark blue keys move clips between cut points in the Timeline.



- Track Selection Keys—The light blue keys zoom the view in the Timeline and select clip tracks.



- Mark Point Keys—The dark purple keys set and control the mark In and Out points.



- Deck Control Keys—The light purple keys act as deck controls for playing sequences and remote sources.



- Transport Command Keys—The avocado green keys control movement within a clip.

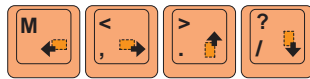


- Edit Mode Keys—The gray keys select the different edit modes.



Tour of the Aurora Edit Keyboard

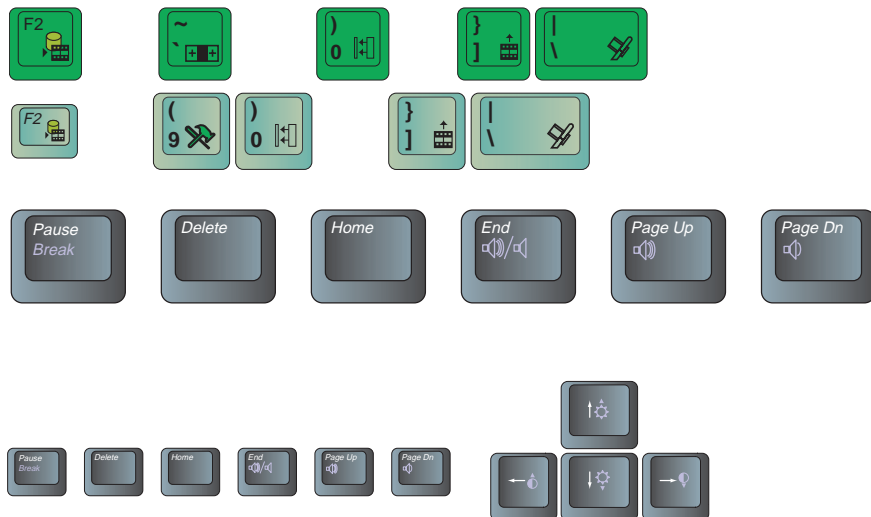
- Clip and Track Selection Keys—The peach keys select clips and tracks on the Timeline.



- Cut Point Edit Tool Keys—The yellow keys perform cut point edits.



- Other Aurora Edit Keys—The green and black keys perform miscellaneous editing functions.





Chapter 1 Introducing Aurora Edit

Chapter **2**

Setting Up The Bin

Aurora Edit uses Bins to hold media clips, sequences, and raw footage. You can create as many bins as you need to organize your work.

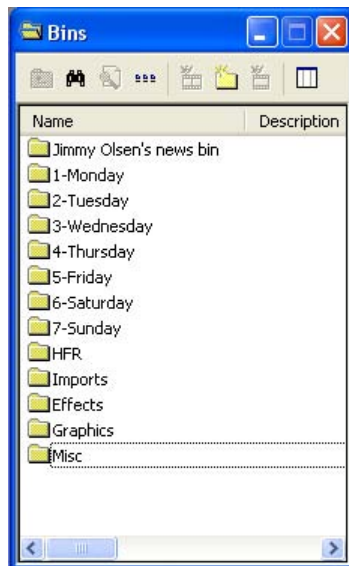
This chapter discusses how to:

- Create a new bin
- Work in Shared or Local mode
- Set up your bins
- Set up a SmartBin
- View your bins
- Use the context-sensitive Bin menu



The Bin Window









The Bin window consists of two main components — a toolbar and the area that holds your files. The toolbar lets you create new bins and sequences, search for specific files, and change the way you view bins.



Understanding the Bin Toolbar



The Bin Toolbar lets you access common bin functions:

Button	Function
	View the bins at the next highest level.
	Search for a specific clip or sequence.
	Toggle between displaying bins and search results.
	Toggle between displaying your clips and sequences as text or as thumbnails.
	Create a new sequence in your bin.
	Create a new bin.
	Import clips from other workstations.
	Select the columns to view in your bin; available only when viewing bin contents as text, not as thumbnails.



Creating a New Bin

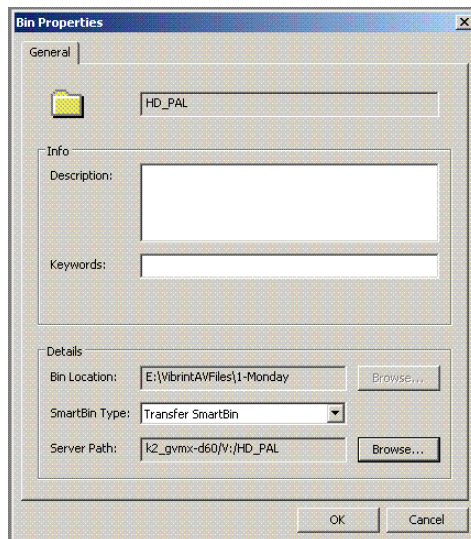
The Bin window is empty when you open Aurora Edit for the first time. Before you can begin using Aurora Edit, you need to create bins to store your work. You can create and organize your bins to suit your work style. For instance, you could create a bin for each day of the week and within those set up a bin for each individual story or for each editor.

To create a new bin:



1. Click the **New Bin** button on the Bin toolbar.

The Bin Properties window appears:



2. Enter the bin Name.
3. Enter a bin Description.
4. Enter bin Keywords (optional).
You can use the keywords to search for a specific bin.
5. Click **Browse** and select a location for the Bin, if different than the default.
6. Click **OK**.

To create a SmartBin, see “Setting Up a SmartBin” on page 41.

Working in Shared or Local Mode

You can use Aurora Edit either in shared or local mode:

- Shared mode uses a shared media database. All Aurora Edit workstations access the same bins; the bins are locked so two editors can't make changes to the same file at the same time.
- Local mode uses your computer's local disk storage and a local media database. Each Aurora Edit workstation has its own Bin on the Aurora Edit machine, and cannot share the Bin. In order to use someone else's files, you need to import them into your Bin.

You can change modes from the General Options menu; see "Setting General Options" on page 303 for instructions.

Aurora Edit indicates your current mode at the top of the window.

Aurora Edit in local mode



You create sequences in Aurora Edit the same way regardless of what mode you are working in. The main difference is that in shared mode all editors using an Aurora Edit workstation have access to the same media files you do, according to security settings.



Setting Up Your Bins

There are several ways to organize your bins, and the organization you choose depends mostly on your job function as well as your organizational style.

A typical setup might be:



Bins **1-Monday through 7-Sunday** are used for everyday stories.

Bin **Imports** is set up as a single location where other Aurora Edit workstations can send clips over the network to you.

Bin **Misc.** is a folder to hold any clips to be saved, such as Whiteflash, Black, Color Bars and Tone, Reporter Outcues, repeated effects, etc.

Bin **HFR** (Hold For Release) is used when you are editing a story on one day but airing it on another.

Bin **Effects** holds saved video effects.

It is also important that, within each day of the week, you create another bin with the title of the specific project you are working on. This helps to keep the bins organized, especially with more than one editor working on the same Aurora Edit system.

Aurora Edit automatically monitors your bins and refreshes the display if anyone places a file in one of your bins. For instance, as a breaking story develops, station staff can place the latest footage in a given directory. It then appears in your Bin where you can use it in your sequence.

To refresh your Bin manually, press **F5** or select **View | Refresh**.

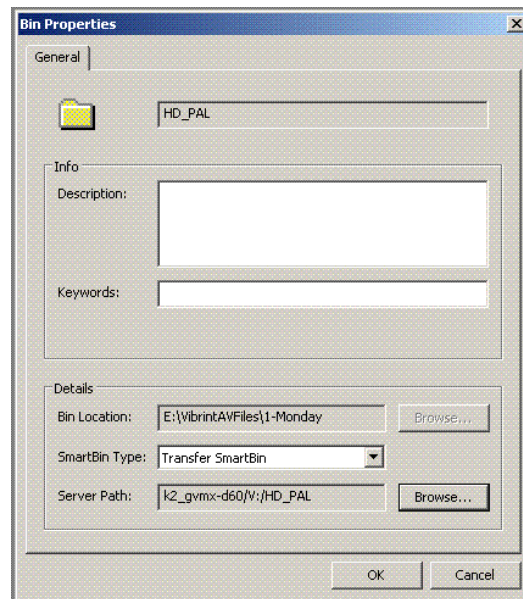
Setting Up a SmartBin

Using Aurora Edit in shared mode, you can automatically update clips, map folders, or automatically import files from a Media Server to one of your bins. These Bin types are called SmartBins. Aurora Edit monitors the server folder specified and automatically updates the SmartBin when new clips or updated feeds appear. You don't need to go into the server directory and copy the media into your Aurora Edit bin in order to use it for editing.

To create a SmartBin:



1. Click the **New Bin** button on the Bin toolbar.



2. Select the SmartBin Type from the drop-down list:

Transfer SmartBin	Sets up automatic clip transferring from a Media Server to an Aurora Edit Bin.
Shared SmartBin	Sets up folder mapping between a Media Server and a bin in Aurora Edit.
Media Import SmartBin	Sets up automatic QuickTime DV25 .mov and DV50 .mov file imports into an Aurora Edit Bin.



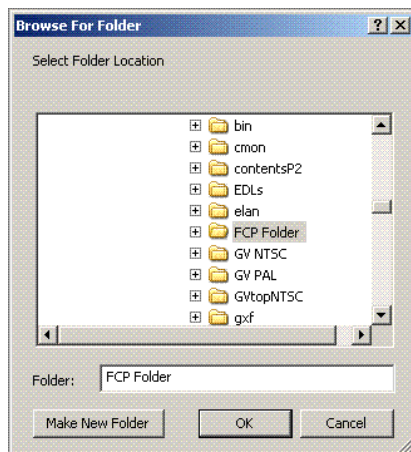
3. Follow the directions below for the type of SmartBin you are creating.

Creating a Transfer SmartBin

To create a Transfer SmartBin:

1. Click **Browse** to the right of the Server Path field.

The Select Server Bin window appears:



2. If you are using a Network attached Storage server, enter the name of the server and click **Connect**.

***NOTE:** You only need to enter the name of the server the first time you connect; the server connects automatically once you've set it up.*

3. Select the bin to monitor and click **OK**.

The Server Path fills in with the selected Bin and the Enable SmartBin checkbox gets checked.

4. Click **OK** to create the SmartBin.

Aurora Edit now monitors the Media Server folder and automatically adds new media to this bin.

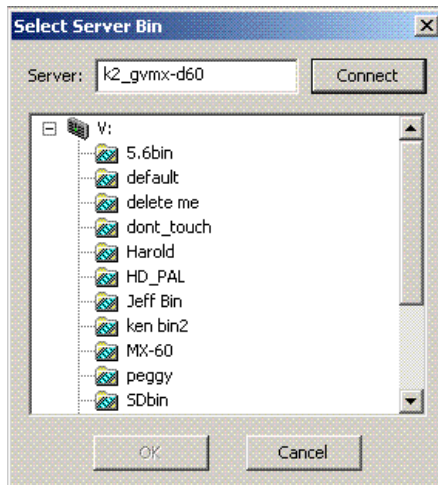
Creating a Shared SmartBin

Shared SmartBins sets up a link for the Aurora Edit bin to monitor a folder on the server. Media is not moved between the server and bin; instead, media is mapped into the two directory structures — a process known as "mirroring".

To create a Shared SmartBin:

1. Click **Browse** to the right of the Server Path field.

The Select Server Bin window appears:



2. Select the bin to map with and click **OK**.
3. Click **OK** to create the SmartBin.

Once the mapping association is made, the SmartBin Service automatically keeps the bins synchronized.

Creating a Media Import SmartBin

Media Import SmartBins allows you to automatically import QuickTime DV25 and DV50 .mov files into Aurora Edit. This allows you to use Apple's Final Cut Pro video editing application, within a NAS environment, to create news or sports footage and then import it into Aurora Edit.



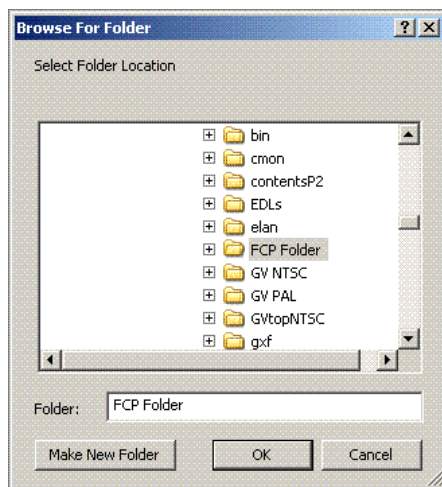
Chapter 2 *Setting Up The Bin*

Once set up, whenever you export a file into the source folder, it is automatically imported into the Aurora Edit Bin. You can then use it in a sequence.

To create a Media Import SmartBin:

1. Click **Browse** to the right of the Server Path field.

The Browse For Folder window appears:



2. Select the folder to monitor and click **OK**.

The Server Path fills in with the folder location.

3. Click **OK** to create the SmartBin.

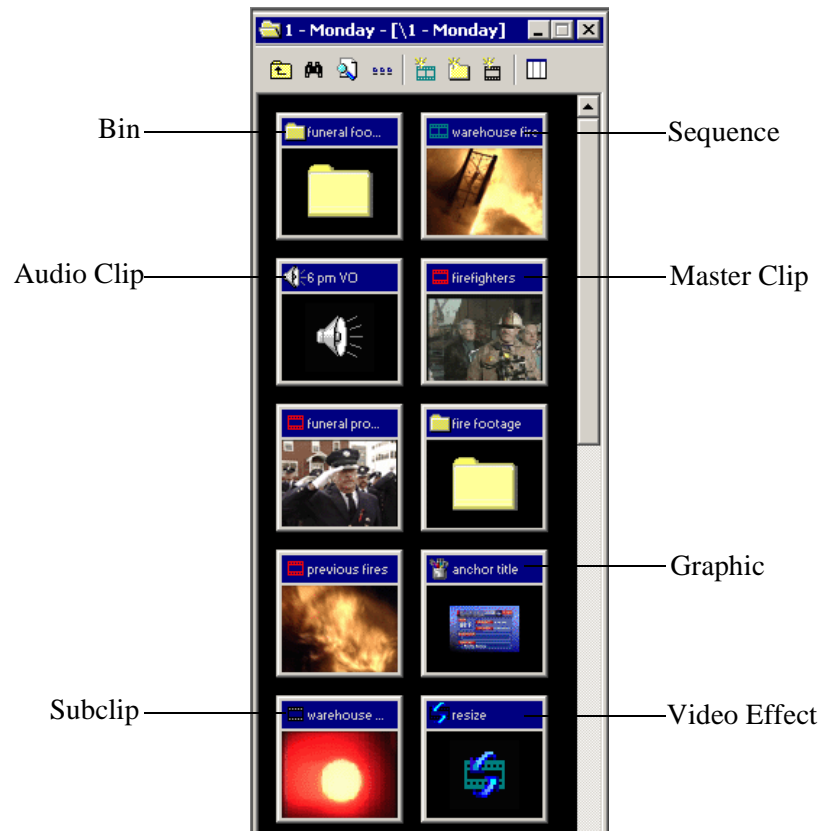
Aurora Edit now monitors the Media Import folder and imports new media to this bin automatically.

Viewing the Material in Your Bins

There are two ways to view the contents of your Bin: Thumbnail view or Details view.

Thumbnail View

In this view, each clip or sequence is represented by a single frame, allowing you to see the content of the material. The Thumbnail view provides a visual representation of the type of media file in each bin.





Chapter 2 *Setting Up The Bin*

Changing Thumbnail Size

Aurora Edit offers two thumbnail sizes in this view: 4:3 (SD) and 16:9 (HD).

To change the size of the thumbnails:



1. Click the **View Thumbnails** button on the Bin Toolbar.
2. Choose the thumbnail size you want from the View menu.

Selecting the Head Frame

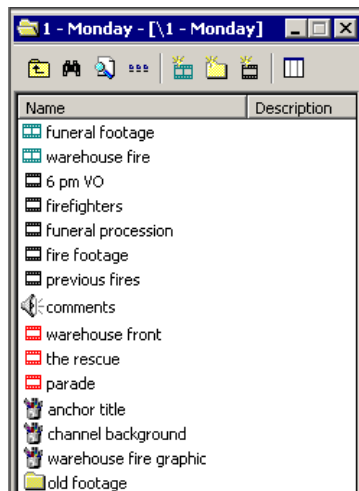
Each clip or sequence in Thumbnail view is represented by a single frame, called the head frame. By default, Aurora Edit uses the first frame from the clip or sequence. However, you can choose any frame within the clip or sequence to represent the file in the view.

To select a different frame for the Thumbnail:

1. Double-click the clip or sequence to open it.
Clips open in the Trimmer window; sequences open in the Timeline Tool.
2. Play through the clip until you find the frame you want to use.
3. Click **Set Head Frame From Current Frame**.
4. Click **OK**.



Details View



In this view, each clip or sequence is represented by an icon, the name of the file, and other information about the file, such as timecode, description, and keywords.

The information acts as a database that you can customize by entering information about your clips. You can also search the information for clips that match certain criteria.

Displaying Columns

You can hide or display multiple text columns in the Bin:



1. With the bin in Thumbnail mode, click the **View Thumbnails** button in the Bin Toolbar.

2. Double-click on a bin to open it.

If you are in the highest-level bin, you will not see all of the column choices.



3. Click the **Column Manager** button in the Bin Toolbar.
4. Select the columns you want to display or click the **Reset** button to display all of the columns. A checkmark appears next to the selected options:

- **Name** — Displays the name of the clip or sequence.
- **Description** — Displays the description of the clip or sequence.
- **Keywords** — Displays any keywords entered; keywords help to identify and search for specific clips.
- **Compression** — Displays the video compression type for the clip or sequence; e.g., DV25, DV50, MPEG2, IMX30, IMX40, IMX50.
- **Video Resolution** — Displays the video resolution for the clip or sequence.



Chapter 2 *Setting Up The Bin*

- **Chroma Format** — Displays the chroma ratio for the clip or sequence, 4:1:1, 4:2:0 or 4:2:2.
- **Video Aspect** — Displays the video aspect for the clip or sequence, 4:3 or 16:9.
- **Video Format** — Displays the video format used for the clip or sequence, NTSC or PAL.
- **Duration** — Displays the length of the clip or sequence.
- **Created** — Displays the date the clip or sequence was created.
- **Modified** — Displays the date of the last time the clip was modified.
- **Folder** — Displays the directory where the clip files are stored.
- **Mark In** — Displays the Mark In timecode.
- **Mark Out** — Displays the Mark Out timecode.
- **Tracks** — Displays the tracks present in the clip.
- **Tape ID** — Displays the name of the source VTR tape where the media in this clip came from.
- **Status** — Displays the clip status: All, Good, Bad, or Marked.

5. Click **OK**.

The Bin displays your new column choices.

Sorting Your Media Files

You can arrange clips in numeric or alphabetical order according to the columns you select. For example, you can sort the Bin by the Mark In column to display all of the clips in timecode order.

To sort the Bin:

1. Click the heading of the column by which you want to sort the Bin.
The clips and sequences display in alphabetical or numerical order depending on the column you selected.
2. Click the column again to reverse the order of the sort.
3. Right-click in the Bin and select **Restore Default Sort** to return to the original sort order.

Using the Context-Sensitive Bin Menu

Many Aurora Edit features are available by right-clicking in the Bin window. This menu displays available commands depending on where you click.

Menu Item	Description
Details	Changes the Bin view to Details View.
Thumbnails	Changes the Bin view to Thumbnails View.
Copy	Copies a clip or sequence from the Bin to the clipboard.
Paste	Pastes a clip or sequence from the clipboard to the Bin.
Delete	Deletes the selected clip from the Bin.
Rename	Changes the name of a bin, clip, or sequence.
Consolidate	Strips a clip or sequence of any unused data, reducing the file size.
Copy to Timeline	Copies the selected clips in the Bin to the Timeline.
Copy to Source Tool	Copies the selected clip into the Source Tool.
Send to File	Send a clip or sequence to another destination.
Convert Media	Changes media from one format to another.
View Player	Previews the selected clip or sequence in a viewer window.
View Trimmer	Opens the selected clip in the bin trimmer.
View Timeline	Opens the selected sequence in the Timeline window.
Import Clip	Opens the Import Clip dialog box so you can select a file to import.
Record to Bin	Records a clip directly into the Bin instead of the Timeline.
Play to Tape	Records sequences onto videotape.
Find	Opens the Find dialog box so you can search for a clip or sequence.
Find in Workgroup	Searches for clips or sequences on other workstations in your workgroup.
Restore Default Sort	Restores the default sort order in the Details View of the Bin window.
Column Manager	Opens the Column Manager so you can change the columns in the Bin.



Chapter 2 Setting Up The Bin

Menu Item	Description
Show References	Displays all places a clip is used (sequences, sub-clips, and master clips).
Properties	Opens the Properties window so you change the properties of a file.

Chapter **3**

Editing in the Timeline

To edit a story with Aurora Edit, you need to move the video and audio media from tapes or feeds to a digital format on your computer. The most efficient way to create stories is to edit directly to the Timeline.

This chapter discusses how to:

- Use the Timeline Tool and Source Tool for editing
- Create a new sequence
- Select and deselect tracks
- Mark In and Out points
- Set up a split edit
- Use variable-speed recording
- Route audio input
- Use Input Tools to adjust video and audio
- Name Source tapes for ingest
- Select a source for input
- Use a clip as an input source
- Create your clips
- Play your sequence
- Save your sequences



Editing Overview

Editing directly to the Timeline is the fastest and most efficient way to use Aurora Edit and produce sequences. Editing in the Timeline involves these basic steps:

1. Create a new sequence.
2. Select the tracks you want to record in the Timeline.
3. From the Timeline Tool, you may optionally:
 - Mark In and Out points
 - Set up a split edit
 - Route the audio output
4. Press **2** to select the Source Tool and optionally:
 - Mark In and Out points
 - Route the audio output
 - Change the speed of a clip
 - Set up a split edit
5. Select the source you are using to edit.
6. Play the source to find footage you want to use in your Aurora Edit sequence.
7. Press **F12** to record.
8. Press the **spacebar** to stop recording when your clip is complete.
If you've marked an Out point, the system will stop recording at that point.
9. Play your sequence (optional).
10. Repeat steps 6-9 for each clip.
11. Save your sequence.

This chapter discusses each of these steps.

Understanding the Timeline and Source Tools

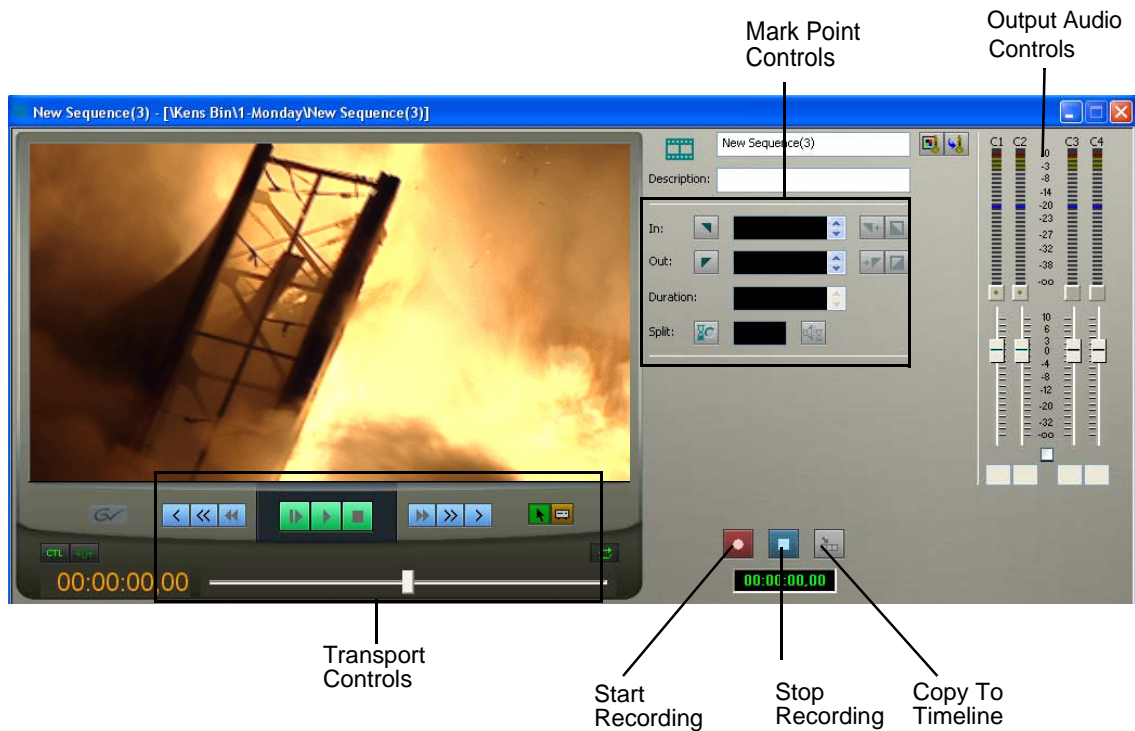
Editing in the Timeline involves using both the Timeline Tool and the Source Tool.

The Timeline Tool

The Timeline Tool opens when you create a new sequence. It is the tool you use to select clips, mark in and out points, and play sequences.



To use the Timeline Tool, press **1** on your keyboard or click the **Timeline Tool** button in the Timeline Toolbar.





Chapter 3 Editing in the Timeline

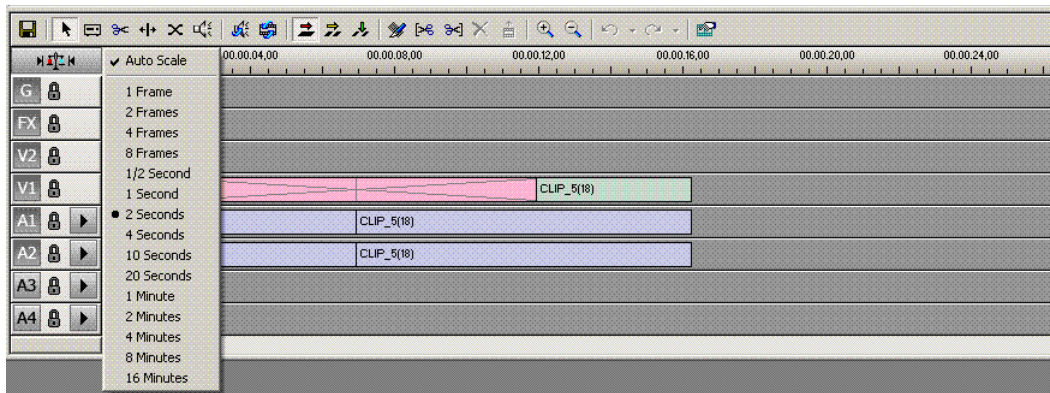
Changing the Timeline View

You can zoom in and out of the Timeline to see a specific area of the Timeline or to get an overall perspective of your sequence. There are two ways to change the Timeline view—you can change it manually or use Auto Scale to have the view adjust automatically when your sequence extends beyond the Timeline view.

To manually change the Timeline view:

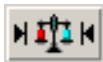


- Right-click the **Turn Auto Scale On/Off** button and select an increment to the Timeline view to display.



You can also press **+** on your keyboard or click the **Zoom In** button in the Timeline Toolbar to zoom in the Timeline view. Press **-** or click **Zoom Out** to zoom out the Timeline view.

To have the Timeline view adjust automatically:



- Click the **Turn Auto-Scale On/Off** button in the Timeline.

The Timeline view compresses and displays the entire sequence in the Timeline each time the sequence extends beyond the Timeline window. To turn off Auto-Scale, click **Turn Auto-Scale On/Off** again.

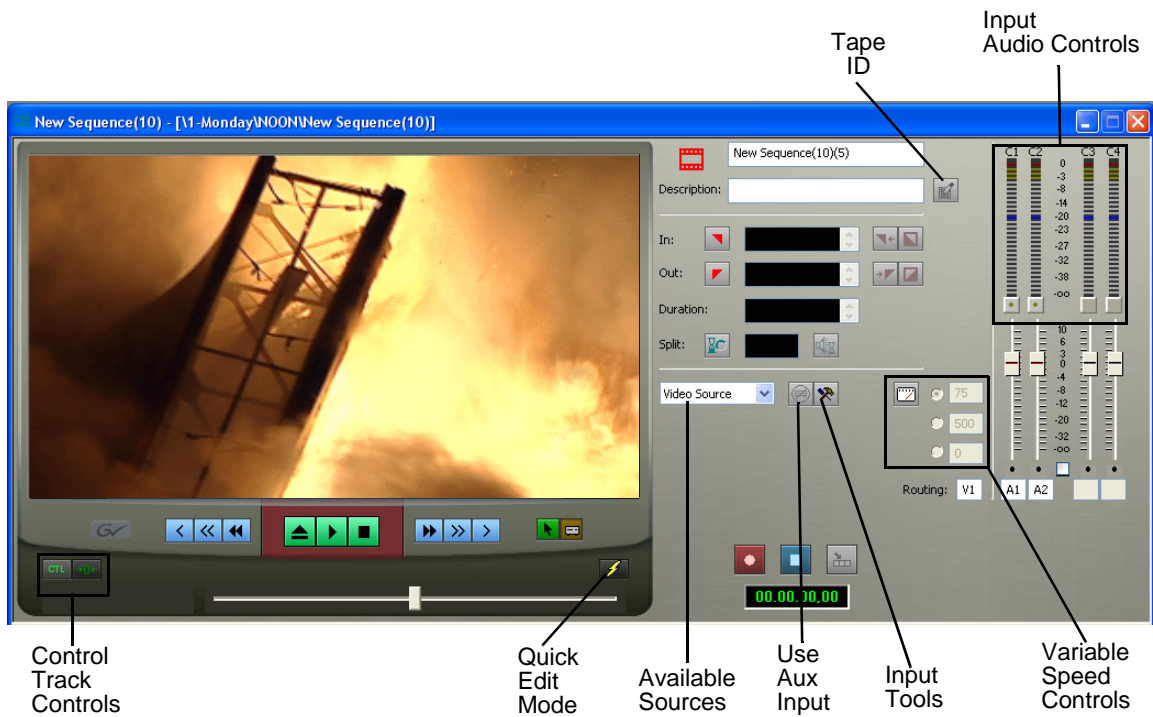
NOTE: *Auto-Scale turns off automatically once you click Zoom In or Zoom Out on the Timeline toolbar.*

The Source Tool

The Source Tool is the place where you view your footage, taking media from the input source into the Timeline for editing.



To select the Source Tool, press **2** on your keyboard or click the **Source Tool** button in the Timeline Toolbar.


















Controlling a Deck from Aurora Edit

If you are using a tape deck, you can control it from the Aurora Edit window or keyboard. Aurora Edit provides transport control buttons like those on a tape deck, which control the Timeline, clip source, and Deck.

Use these controls to locate the material you want to record as a clip. Then use the marking controls to mark the clip or use the transport control buttons on your deck to locate your Mark In and Mark Out points. The deck controls are:

Button	Function
	Ejects the tape.
	Rewinds the tape.
	Plays the tape.
	Fast forwards the tape.
	Stops the tape.
	Moves through the tape (drag the shuttle forward or backward).
	Jogs one frame back.
	Jogs 10 frames back.
	Jogs one frame forward.
	Jogs 10 frames forward.
	Shuttles left in increments of -50%, -75%, -1x, -2x, -3x.
	Shuttles right in increments of +50%, +75%, +1x, +2x, +3x.
	Resets shuttle speed to the default (200%); to change the default speed select Tools Options Timeline Default Play Speed and enter the new speed.
	Selects previous shuttle speed.

Creating a New Sequence

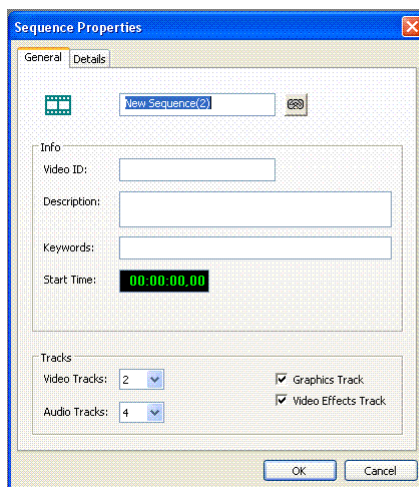
The new sequence must be inside a bin in order for you to use it.

To create a new sequence:



1. Click the **New Sequence** button on the Bin toolbar.

The Sequence Properties window appears:



2. Enter a name for the sequence.
3. Enter a Description (optional).
4. Enter Keywords for the clip (optional).

You can use keywords to search for a specific sequence in your bin.

5. To use a Start Time other than 00:00:00:00, enter another time.
6. Select the number of Video and Audio Tracks to use for this sequence.

Audio Tracks refers to the number of tracks in the Timeline for mixing, not the number of output tracks.

7. Check the Video Effects Track checkbox if you are adding video effects to this sequence.



Chapter 3 *Editing in the Timeline*

8. Check the Graphics Track checkbox if you are adding graphics or text to this sequence.
9. Click **OK**.

The new sequence appears in your Bin and the Timeline opens. You are now ready to add footage to the Timeline.

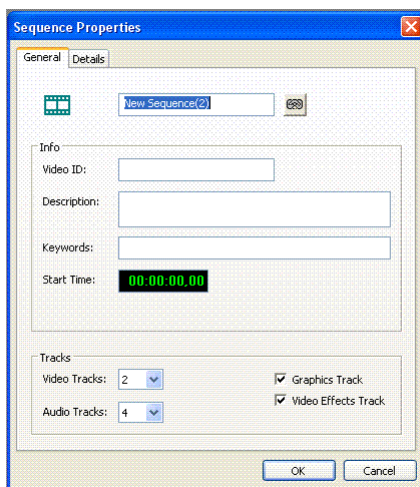
Changing Sequence Properties

After creating a sequence, you can change any of the sequence properties as necessary.

To edit sequence properties:



1. If the sequence is open in the Timeline, click the **Properties** button in the Timeline toolbar. If you are in the Bin, right-click on a sequence and choose **Properties**.
2. The Sequence Properties window appears.
3. Make any necessary changes.



4. Click **OK** to save your changes.

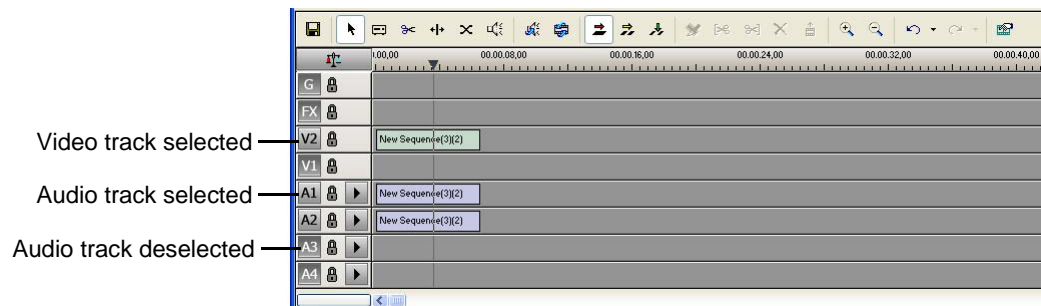
Selecting and Deselecting Tracks

You can select which tracks you want to record to in the Timeline. Aurora Edit lets you work with two video tracks and up to eight audio tracks. You can edit from any source audio track onto any record track in the Timeline.

To select or deselect tracks:

- Click once in the track indicator on the Timeline for each track you want to select or deselect.

Selected track buttons are a lighter grey in the Timeline.



Toggling tracks on the fly

While you are editing in the Timeline, you can select and deselect tracks at the same time you add clips.

Use the instructions above for selecting and deselecting tracks.



Setting Up Your Edit in the Timeline Tool

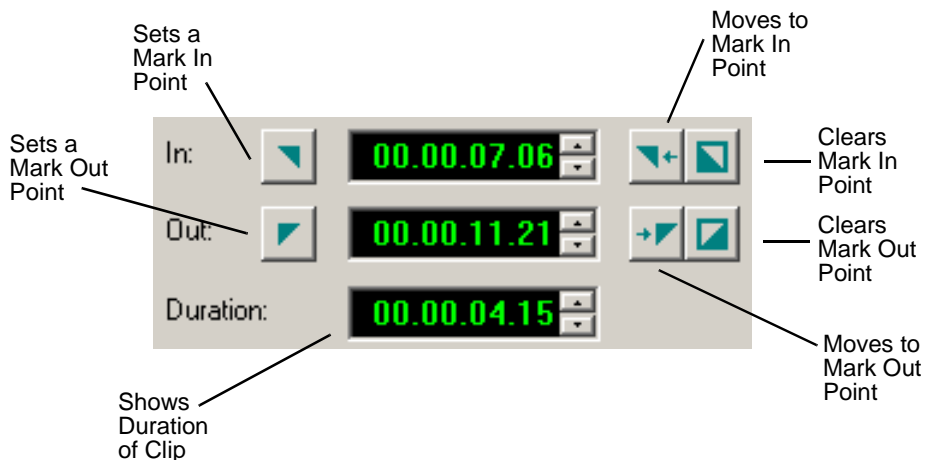
Before you record clips in the Timeline, there are several features you can use:

- Mark In and Out points on the Timeline
- Set up a split edit
- Route the audio output

Marking In and Out Points

You can set the Mark Points using the Mark In and Mark Out buttons in either the Timeline Tool or the Source Tool. The steps to create a mark point are the same regardless of which tool you are using, but you will be setting different mark points in the two tools. In the Timeline Tool, you are setting mark points for your sequence; in the Source Tool, you are setting mark points for the input source.

When you make the first edit in a sequence, you can mark In and Out points (optional). If you don't set a Mark In point, recording starts at the current position of the cursor. If you don't set a Mark Out, Aurora Edit creates an Out when you stop recording and the clip is edited into the Timeline. The Timeline automatically moves the cursor to the end of each edit in preparation for the next edit.



To Mark In and Out Points:

1. Move to the Mark In or Mark Out point in any of the following ways:
 - Click the point on the Timeline where you want to place the points.
 - Press the **A**, **S**, **D**, or **F** keys on the keyboard to jog through clips in 1-frame or 10-frame increments.
 - Press **G** to move back to the previous cutpoint.
 - Press **H** to move forward to the next cutpoint.
2. Press **I** on the keyboard to Mark In and press **O** to Mark Out.

Setting Up a Split Edit

Aurora Edit lets you set In and Out points to create a pre-defined split edit from the Timeline Tool. To delay one of the tracks at the beginning of a clip, set different In points for the video and audio, with one starting after the other. You can also extend one track after the other at the end of a clip.

If your clips are already recorded to the Timeline, you can create a split edit using the Cut Point Edit Tool (see “Changing Cut Points Between Adjacent Clips” on page 135) or by extending the edit (see page 140).

To create a split edit:



1. Press **1** to select the Timeline Tool.
2. Press **I** on the keyboard to mark an In point for the video track.



3. Click the **Show Audio Marks** button.

Blue icons indicate audio mark in and out points.

4. Select a Mark In Point for the audio track.

The duration of the split appears in the Duration field.

5. Record your clip.



Setting Up Your Edit in the Source Tool

There are also several features in the Source Tool you can use before you begin recording:

- Mark In and Out points on the Timeline
- Use a variable speed for recording
- Set up a split edit
- Route the audio output
- Use Input Tools to adjust the video and audio before recording
- Name Source tapes for ingest

Marking In and Out Points

Marking In and Out Points in the Source Tool is identical to marking points in the Timeline Tool. See “Marking In and Out Points” on page 60.

Using Variable Speed Record

Aurora Edit lets you take advantage of the Dynamic Motion Control on most tape decks and create a slow-motion or fast-motion record on the fly. In the Source Tool, you set the speed in percentages and click them when you want a change in speed. The default speeds are 75%, 50%, and 0, which you use to create a freeze frame. Variable speed record also works with clip sources.

To create a variable speed record:



1. Press **2** to select the Source Tool.

2. Click **Enable variable speed controls**.



The percentage windows become active.

3. Choose one of the three default speeds or enter a new percentage.

You can enter positive or negative numbers, as your deck allows.

4. Press **F12** to record your clip.

The clip records to the Timeline with the speed you chose.

NOTE: *If you are using a deck source, you can change the speed while recording the clip by clicking one of the other percentage fields.*

Setting Up a Split Edit

Setting up a split edit in the Source Tool is the same as setting up a split edit in the Timeline Tool. See “Setting Up a Split Edit” on page 61.

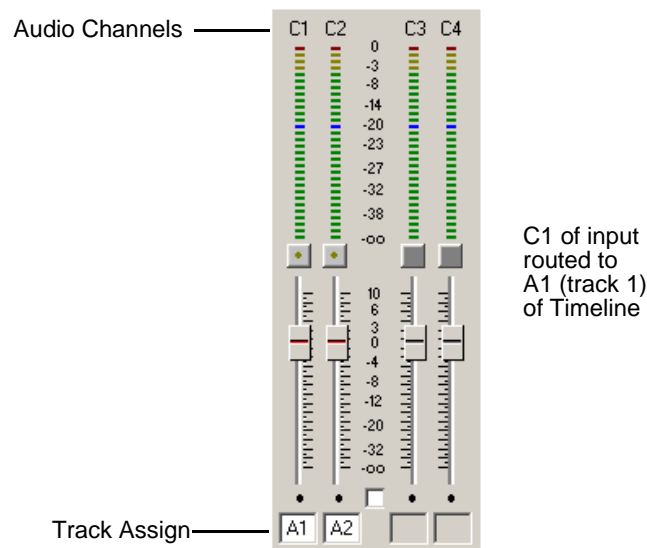
Routing Audio Tracks

You can edit audio from any source track onto any record track in the Timeline. You can work with up to eight audio tracks in the Timeline, though you can record only four tracks per clip. If you have two audio inputs, you may need to assign a different track to your audio source.

To route an audio track:



1. Press **2** to select the Source Tool.



2. Click the **Track Assign** box for the Audio Input channel you need to reassign.
3. Select the new audio track location.

NOTE: *If your source only has one input audio channel, pathing to the Timeline is automatic. The channel from the source goes directly to the selected track regardless of the routing indication.*



Using the Input Tool

Using the Source Tool, you can use Input Equalization (Input EQ) to adjust the audio before or during footage recording. Input EQ monitors and controls live input audio while recording a clip.

Equalizing the Audio Input

Input EQ is similar to Audio EQ in the Audio Effects Tool; the difference is that you need to turn on the Input EQ for the channel you want to adjust while recording. Once on, adjustments occur in real time and cannot be undone once recorded. See [“Equalizing Audio in a Recorded Sequence” on page 195](#) for details on using the Audio Effects Tool.

To adjust the Input EQ while recording a clip:

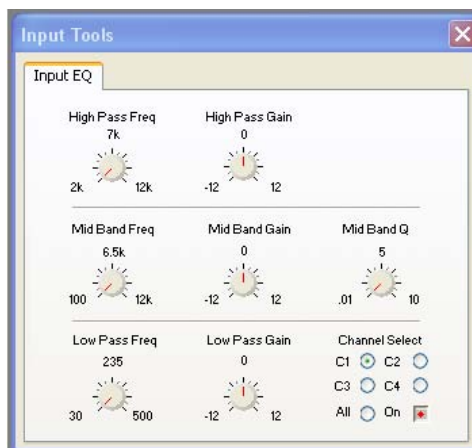


1. Press **2** on your keyboard or click the Source Tool button.



2. Press **9** on your keyboard or click the Input Tools button.

The Input Tools window appears with the Input EQ tab:



3. Select the channel you want to adjust (**C1**, **C2**, **C3**, **C4**, or **All**) and click the **On** button.

The On and channel input buttons turn red.



4. Start recording your clips.
5. While you are recording clips, adjust the frequency and gain as necessary by clicking the dial with your mouse and dragging it to a new setting.
You can make adjustments, which are automatically added to your recorded clip, at any time while you are recording.
6. When you stop recording, close the Input EQ window.

NOTE: You can also adjust Input EQ using a clip source. Drag the clip from the Bin into the Viewing Window and follow the steps above. The clip on the Timeline displays the characteristics of an unrendered EQ clip.



Naming Source Tapes

You can identify which Source tape source video material comes from using Tape ID. Tape ID lets you add a name for the Source tape before recording; you can view the tape name in the Properties tab for the clip.

To name a Source tape:

1. Enable Tape ID by choosing **Tools | Options | Video Settings** and clicking **Use Tape ID**.

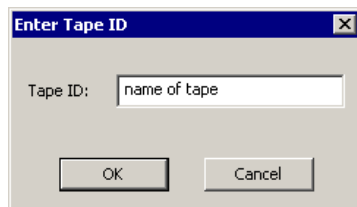


2. Press **2** on your keyboard or click the Source Tool button.



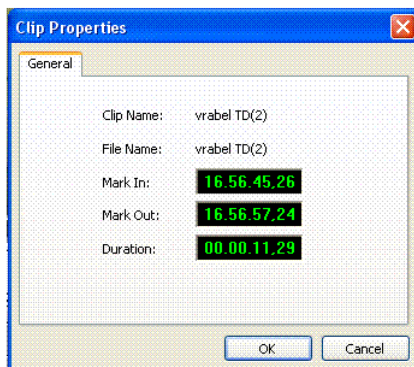
3. Click the **Tape ID** button:

The Tape ID window appears:



4. Enter a name for the tape and click **OK**.

You can view the Tape ID by highlighting the clip in the Bin, right-clicking and selecting **Properties**:



Selecting Your Source

You can select your input source from the equipment that has been set up in your working environment. Sources can include tape decks, feeds, or routers.



1. Press **2** to select the Source Tool.
2. Select a source from the drop-down menu.

The image in the viewing monitor changes to reflect the new source.



Using a Clip Source

You can load any clip from your Bin into the Source Tool, which effectively treats the clip like a live source such as a tape deck.

To use a clip as a clip source, drag the clip into the viewer or press **Shift + C** to load the clip. After loading a clip as a clip source, you can edit to the Timeline as you would with a tape deck.

Patching Audio Tracks

If you select a clip for a clip source with more audio tracks than the Timeline, the Select Source Channel window appears and you can route the tracks.



Changing Sources

You can connect and configure a variety of video and audio sources as input devices to Aurora Edit.

You can also configure a non-remote source, such as a microphone or a router, as an input source and specify the tracks to select when using that input source.

To change a source:



1. Press **2** to select the Source Tool.
2. Select a source from the drop-down menu.

The image in the viewing monitor changes to reflect the new source.

Using Auxiliary Input

You can also connect an auxiliary source as an input for creating sequences, which is helpful if you are using an A-B switch for controlling your sources.

When you enable auxiliary input, Aurora Edit disables deck control from the Timeline and your keyboard so you can use the device's external controls.

To use auxiliary input:



1. Press **2** to select the Source Tool.
2. Click the **Use Aux Input** button.



The deck controls on Aurora Edit gray out; you can use the external controls of the auxiliary device.

Creating Your Clips

To create a clip in your sequence, follow these steps. Repeat the steps for each additional clip in your sequence.

1. Play the source to find the media you want.
2. Press **F12** to start recording.
3. Press the **spacebar** to stop recording immediately, or press **O** on your keyboard to stop recording after adding Out handles.
4. Play the sequence.








Playing a Sequence

As you create a sequence, you may want to review the progress. With Aurora Edit, you can play the sequence as part of the editing process in the Timeline.

To play a sequence:



1. Press **1** on the keyboard to select the Timeline tool.
2. Select one of these commands to play or work through the sequence:

Command	Icon	Keyboard Key	Description
Move 1 Frame Left		A	Moves the position indicator one frame to the left.
Move 1 Frame Right		S	Moves the position indicator one frame to the right.
Move 10 Frames Left		D	Moves the position indicator ten frames to the left.
Move 10 Frames Right		F	Moves the position indicator ten frames to the right.
Play From Start		Q	Starts playing from the beginning of the sequence.
Rewind		E	Rewinds the sequence.
Play		W or Spacebar	Starts playing from the position of the cursor.



Chapter 3 *Editing in the Timeline*

Command	Icon	Keyboard Key	Description
Fast Forward		R	Fast Forwards the sequence.
Stop		Spacebar	Stops playing the sequence.
Loop Playback		--	Plays the sequence in a continuous loop.
N/A		Left arrow	Shuttles left in increments of -50%, -75%, -1x, -2x, -3x.
N/A		Right arrow	Shuttles right in increments of +50%, +75%, +1x, +2x, +3x.
N/A		Up arrow	Resets shuttle speed to default, which is 200%.
N/A		Down arrow	Selects previous shuttle speed.

You can drag the shuttle slider with your mouse to scrub through the Timeline.

Saving a Sequence

You need to save your sequence periodically to your workstation Bin or to the shared database.

To save a sequence:



- Click **Save** in the Timeline toolbar or press **Ctrl + S** on the keyboard.

Aurora Edit saves the sequence in the Bin where you created it.

Other Ways to Edit with Aurora Edit

Aurora Edit lets you access media clips from other computer systems. You can also use a script as a guide in creating your sequence.

This chapter discusses how to:

- Use clips already residing in the Bin
- Use files from P2, XDCAM, REV Pro removable media
- Use files from Proximity artbox
- Search for clips in the Bin or your workgroup
- Link to an existing news or sports story
- Record to the Bin
- Batch record files
- Move, rename and delete clips and sequences
- Change master clip properties



Using Clips Stored in the Bin

If you created clips in the Bin before starting a sequence, you can copy them to the Timeline and use them in a new sequence.

To copy a clip from the bin to the Timeline:

1. Navigate through your Bin until you find the clip you want.
2. Click once on the clip to select it.
3. Copy the clip to the Timeline using one of the following methods:



- Click the **Copy To Timeline** button.
- Press **C** on the keyboard.
- Drag the clip to the Timeline.
- Right-click on the clip in the Bin and select **Copy To Timeline**.

Using Files from Removable Media

Aurora Edit can import and use files from three types of removable media—Panasonic P2 cards, Sony XDCam Professional Disks, and REV® Pro USB drive disks. Media on the card and disks is stored in MXF and metadata files.

P2 and XDCam removable media can be accessed by using an internal drive on your PC or an external drive connected via USB (for P2) or 1394 (for XDCam). The REV Pro drive is accessed by way of the USB port only.

Aurora Edit supports shot status for P2 and XDCam. In addition, if a unique title was given to a clip in P2 or XDCam, Aurora Edit will recognize that title and display the modified name.

NOTE: You need to have the removable media mounted on or inserted into the drive in order to see it in Aurora Edit.

To import files into Aurora Edit:

1. Make sure you have the P2, XDCam, or REV Pro driver installed on your Aurora Edit machine.

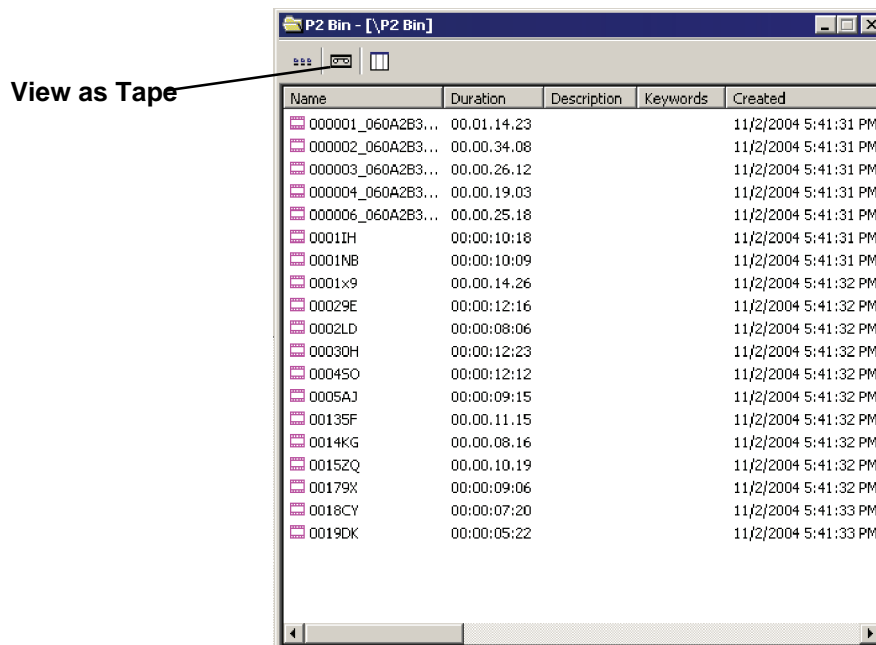
The drivers are located on the Aurora Suite CD-ROM.

2. Insert the P2, XDCam, or REV Pro removable media into the drive.
3. In Aurora Edit, select **View | Removable Media Bin**.



Chapter 4 Other Ways to Edit with Aurora Edit

The Bin opens and operates the same as the Aurora Edit Bin:



4. Import the files into Aurora Edit using one of the following:

- Double-click on a file to open it in the Trimmer, mark In and Out points to select the footage you want, and either create a subclip or copy to the Timeline.
- Drag the clip into the viewing window of the Timeline or Source Tools; footage becomes a clip source and can be used to mark clips.
- Drag a clip (or a selection of clips) from the P2, XDCam or REV Pro Bin into the Aurora Edit Bin.



To view all clips on the removable media as one long file, click **View as Tape** in the P2 Bin toolbar.

NOTE: *View as Tape is not available for XDCam or REV Pro media.*

If you change a card or disk, you need to refresh the Removable Media bin by pressing F5—the contents of the Bin won't refresh automatically.

Using Files from Proximity artbox

Proximity artbox is a product that catalogs and stores media content, such as graphics files. You can use these files in your Aurora Edit sequences.

To copy files from artbox:

1. Log into artbox on the same computer where Aurora Edit resides.
2. Open Aurora Edit.
Arrange the application windows so that both the artbox and Aurora Edit bin can be viewed.
3. In artbox, select the file you want to copy and click **Click here to download** located under the graphic file.
4. When **Drag this to desktop** appears, drag the selected graphic and drop it into the desired Aurora Edit bin.

The artbox file copies into the Aurora Edit bin as a graphic file, and can be brought onto the graphics track of the Timeline in an Aurora Edit sequence.



Finding Clips in Your Workgroup

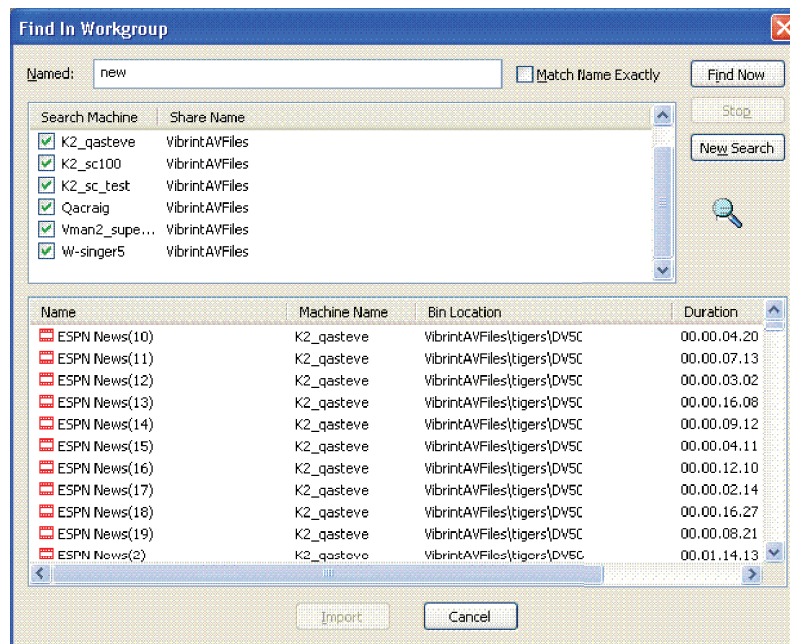
If your Aurora Edit workstation is part of a network workgroup with other Aurora Edit workstations, you can import clips from the VibrintAVFiles folder on those workstations to use in your sequences.

See “Setting Up a Workgroup” on page 305 to configure a workgroup.

To find clips in your workgroup:

1. Choose **Tools | Find in Workgroup** or right-click in the Bin and select **Find in Workgroup**.

The Find in Workgroup window appears:



2. Check the boxes for the Aurora Edit workstations you want to search.
3. Click **Find Now**.

The found files appear in the box below the workstation listing.

4. Select the clip you want to import and click **Import**.

Aurora Edit copies the clip into the current Bin.

Linking to an Existing News or Sports Story

Aurora Edit can link to scripts on iNEWS, Octopus, and AP/ENPS Newsroom computer systems, which you can use as an aid for creating your sequence.

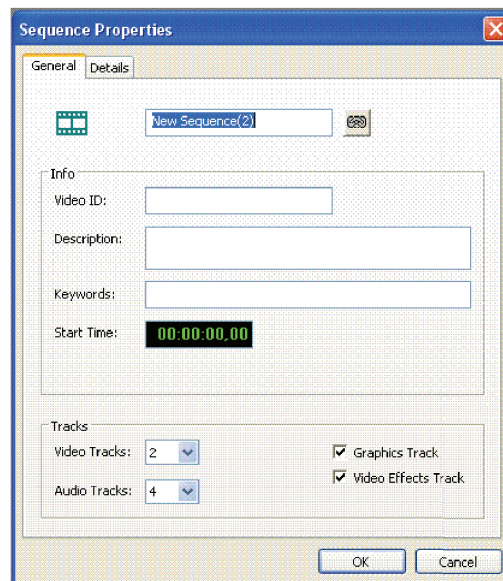
You can link to a news or sports story when you create a new sequence, as described below, by opening Sequence Properties and clicking the Link to Story icon.

To link:



1. Click the **New Sequence** button in the Bin toolbar.

The Sequence Properties window appears:



2. Click the **Link to Story** icon.

The Assignment List window appears, displaying available stories:



Chapter 4 Other Ways to Edit with Aurora Edit

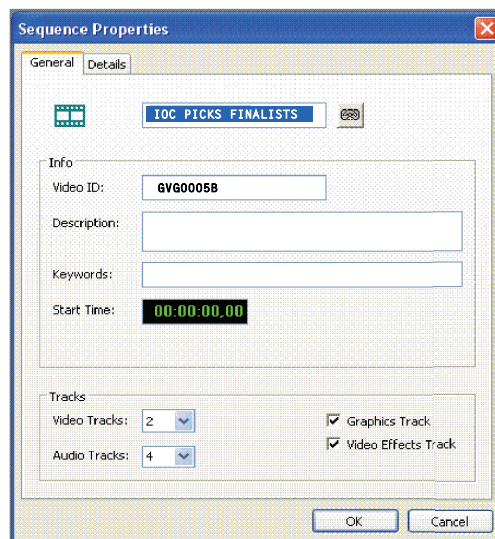
Rundown View

S	Clip Name	Duration	Status	Category	Type	Description
OK	IOC PICKS FINALISTS	00:00:27:12	PLAY	All		
OK	TIGER PLAYS US OPE...	00:00:20:00	STAND BY	Wednesday		
OK	NHL SALARY CAP INC...	00:01:05:05	STAND BY	Wednesday		
OK	AVS KEEP SAKIC	00:00:10:00	READY	Wednesday		
	TRINIDAD AND TOBAG...	00:00:13:07	NOT READY	Wednesday		
	MICKELSON FALTERS ...	00:00:00:00	NOT READY	Wednesday		
OK	COACH BREAKS SILEN...	00:00:26:07	READY	Wednesday		
OK	SOCCER HOOLIGANS ...	00:00:04:02	READY	Wednesday		
OK	ROETHLISBERGER VIS...	00:00:10:24	READY	Wednesday		
OK	ITALIAN PLAYER APOL...	00:01:12:00	READY	Wednesday		
OK	NASCAR GOES UNLEA...	00:00:20:23	READY	Wednesday		
	BREAK	00:00:00:00				
OK	GOLF NEWS	00:00:26:07	READY	Wednesday		
OK	BASEBALL NEWS	00:00:26:07	READY	Wednesday		
OK	WORLD CUP UPDATE	00:00:20:23	READY	Wednesday		

NOTE: Once an Aurora Playout story is linked, the row color for the selected story changes to reflect that the story is being edited. The various row colors represent: green = play, blue = stand by, yellow = stopped, red = not ready.

3. In the Rundown View in the left portion of the Assignment List window, expand the desired rundown by clicking the + icon.
4. In the Rundown View, click on the name of the story you want to work on.
The list of available placeholders displays in the right portion of the Assignment List window.
5. If more than one placeholder displays, select the placeholder to which you want to link.
The Sequence Properties window appears with the name and ID filled in:

Linking to an Existing News or Sports Story



6. Click **OK**.

The Timeline opens.

NOTE: *When the timeline position cursor moves (e.g., when playing the sequence), the blue highlight in the Story View window moves in concert to match the current timeline position.*

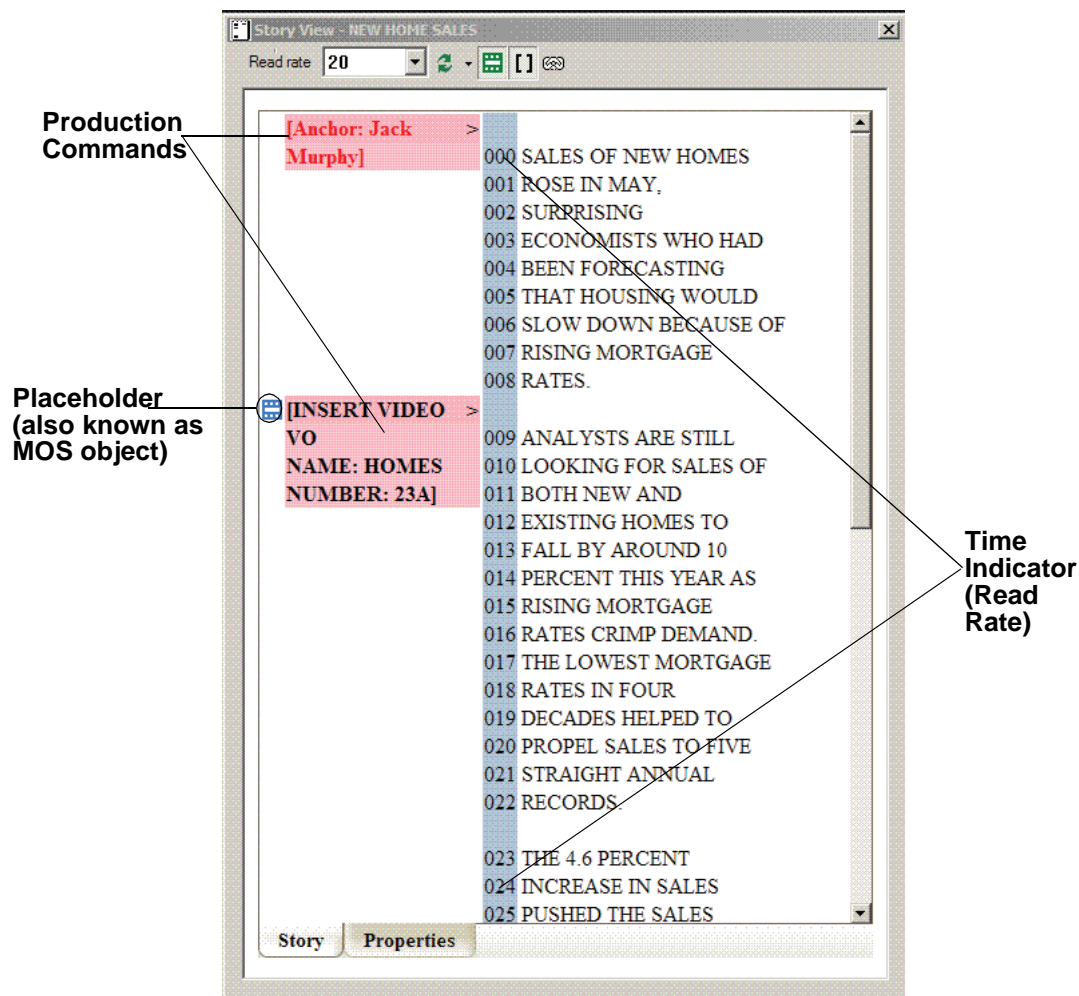


7. Click the **Story View** button in the Main Toolbar.







Chapter 4 Other Ways to Edit with Aurora Edit

The Story View window opens:






See the following instructions for using the Story View toolbar functions.

Linking to an Existing News or Sports Story

Story View Toolbar	
	
Icon	Function
<p>Read Rate</p> 	<p>Click the arrow icon to display the Read Rate pulldown menu.</p> <p>Use the numbers in the pulldown to indicate a specific script reader's (newscaster's) reading speed in characters per second.</p> <p>Use Reset to return to the default reading rate.</p> <p>Use Off to turn off the Read Rate function.</p> <p><i>NOTE: When the timeline position cursor moves (e.g., when playing the sequence), the blue highlight in the Story View window moves in concert to match the current timeline position.</i></p>
<p>Refresh Script</p> 	<p>Use to manually bring changes made and saved on the newsroom computer system into Story View.</p> <p><i>NOTE: If in Manual Mode when a change is entered, the Manual Refresh arrows flash yellow. The arrows cease flashing after 30 seconds and remain yellow to indicate that a script update is available.</i></p>
<p>Refresh Mode Toggle</p> 	<p>Use to choose between the two script refresh modes: Automatic (default) and Manual.</p> <p>Use Automatic Mode when you want script changes, which have been made and saved on the newsroom computer system, to automatically appear in Story View.</p> <p>Manual Mode requires that you click the Manual Refresh Screen icon to view script changes made and saved on the newsroom computer system.</p>



Chapter 4 Other Ways to Edit with Aurora Edit

Story View Toolbar	
Icon	Function
 Media Object Server (MOS) Object Display Toggle	Use to toggle the MOS Object Display function on and off. When on, an icon marks where placeholders have been put in the script. When off, the placeholder icons disappear from the screen.
 Production Command Toggle	Use to toggle the production command (e.g., wipe, package, out cue, anchor, etc.) display column on and off.
 Link Sequence to Story	Use to link a sequence to a particular story.

Adjusting the Read Count in Story View

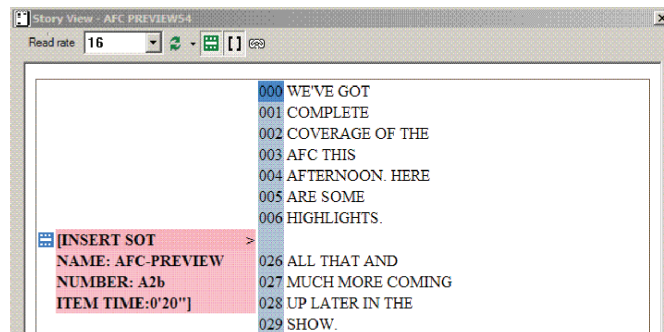
Aurora Edit allows you to manually modify the Story View read count to match your timeline.

To modify the read count:

1. Double-click on the read count number that you want to change.
2. Type a new value that indicates the number of seconds into the script, then click **Enter**. For example, if you wanted to insert a 20 second SOT 6 seconds into the script, you could enter 26.

A gap appears in the read count.

Adjusting the Read Count in Story View



Note: Read count adjustments will be reset if you close the Story View window or choose **Reset** from the read rate dropdown list.



Recording to the Bin

You can record media directly to the Bin to use later. Once you open a bin, you can record from your tape deck or any other source directly into that bin. You later edit that material in the Bin or bring it into the Timeline.

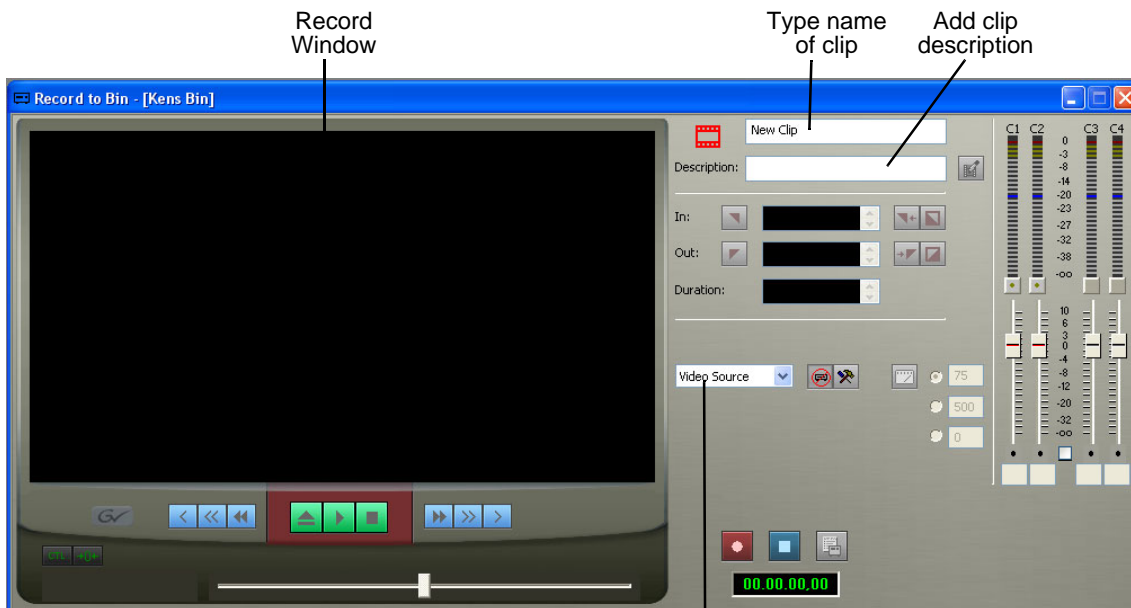
To record to the bin:

1. Open the bin where you want the media to reside.



2. Click the **Record to Bin** button in the menu bar.

The Record to Bin window appears:



3. Enter the name of the clip and add a description (optional).

You can also use Tape ID as a way to identify where your source video originated. See “Naming Source Tapes” on page 66 for details.

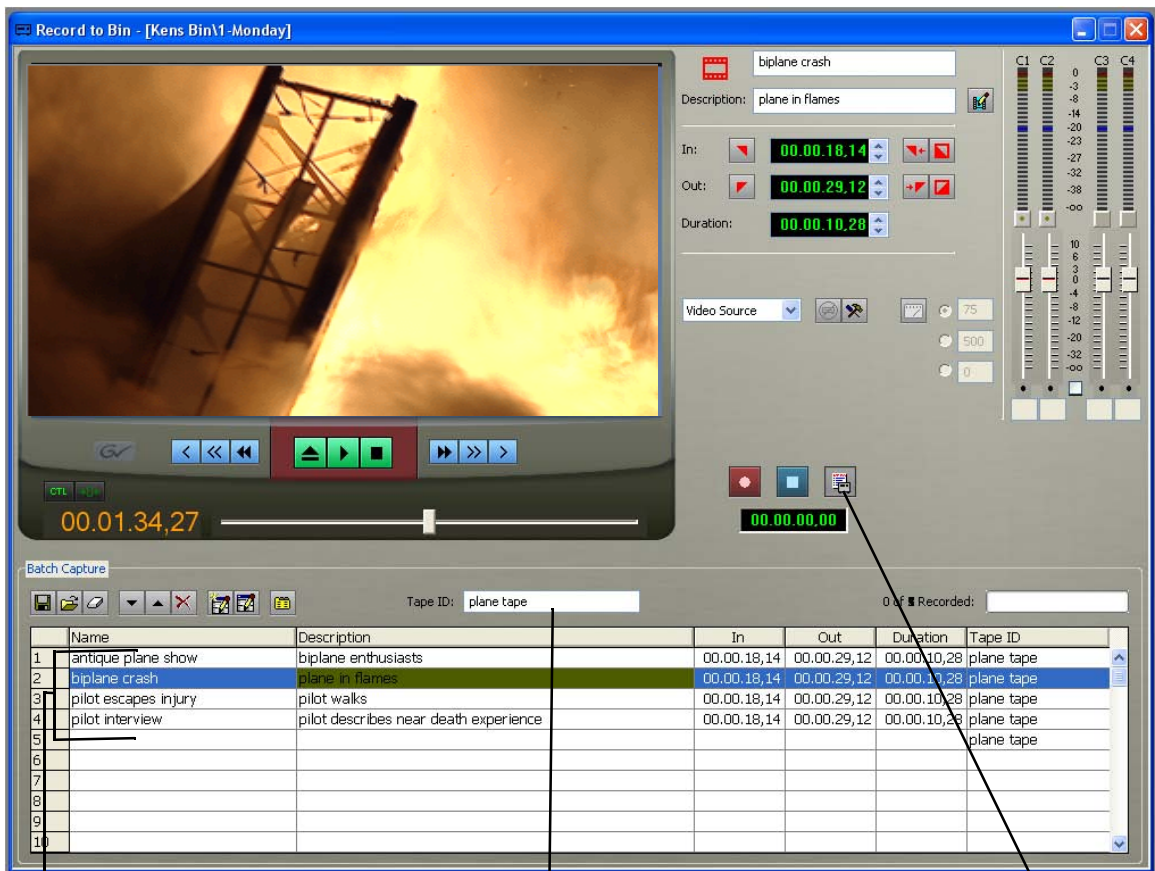
4. Choose the record source using the drop-down menu.
5. Play or cue the tape to the place where you want to start recording.

6. Mark an In point by pressing **I** on the keyboard.
If you don't set a Mark In, Aurora Edit uses the current position. Optionally, scrub the video and mark an Out point here.
7. Press **F12** to start recording.
The recording appears in the Record Window.
8. When you are done recording, press the **space bar** to stop, or press **O** on the keyboard to stop recording after adding Out handles.
If you marked an Out point, recording stops at that point.
Aurora Edit automatically saves the clip into the selected bin.
9. Close this window by clicking the **X** in the upper right corner.



Batch Recording

You can record multiple clips at a time using Batch Capture. Batch Capture lets you mark clips from a Source tape and add them to a Batch Capture list. You can also use footage from multiple Source tapes in the same Batch Capture list. Once you create your list, you can record the clips to the Bin.



Batch Capture List

Name of Source Tape

Enable Batch Capture

Creating a Batch Capture List

Before you can record clips to the Bin, you need to create a Batch Capture List:

1. Insert a tape into the VTR.
2. Open the bin where you want the media to reside.
3. Click the **Record to Bin** button in the menu bar.



The Record to Bin window appears:



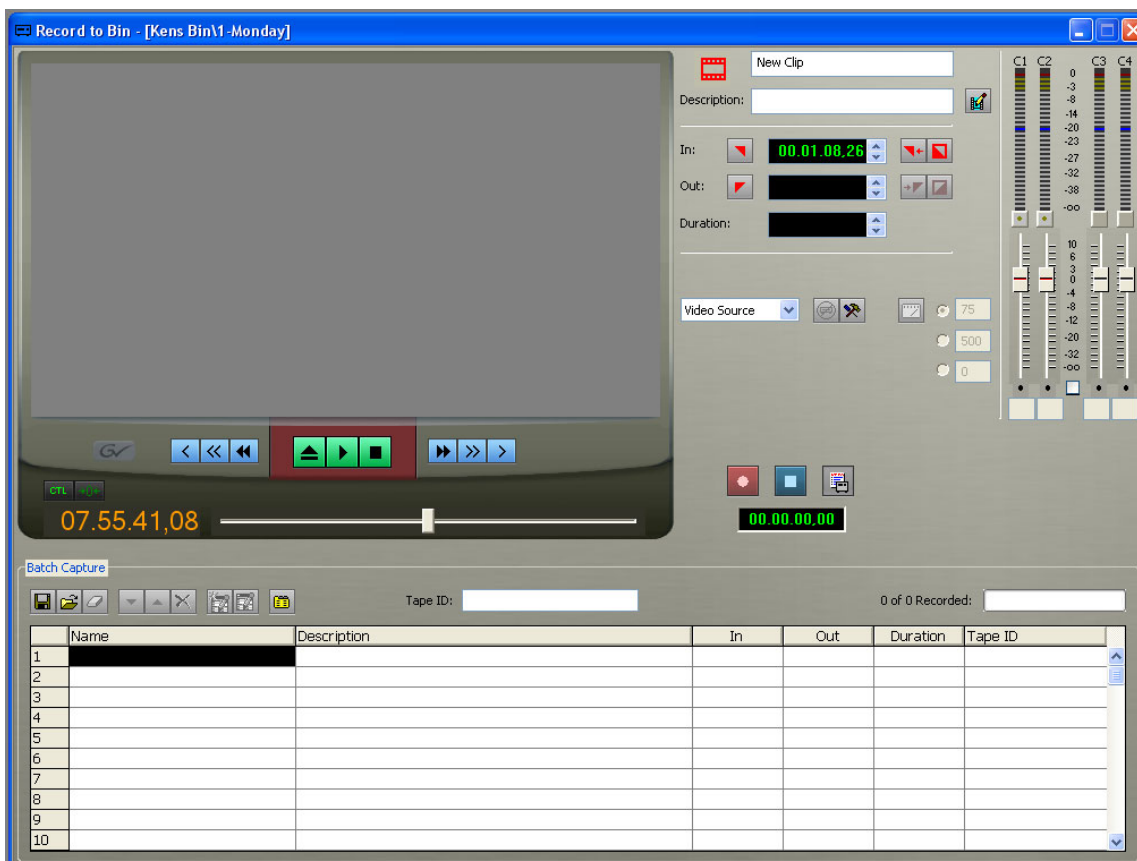
Batch Capture



Chapter 4 Other Ways to Edit with Aurora Edit



4. Click the **Batch Capture** button; the Batch Capture window expands as part of the Record to Bin window:



5. Type a name for the first tape you are getting footage from in the Tape ID box.



6. Click **Play** in the Record to Bin window to begin playing the tape.
7. Use the transport controls to locate the material you want to record.



8. Create a Mark In and Mark Out point for the clip.

9. Click **Add** or press **C** to add the clip to the Batch Capture list.



10. Repeat steps 6-8 to create additional clips.

11. To use additional tapes, insert a new tape into the VTR and repeat the steps above.

Aurora Edit asks you for the new tape name when you add the first clip to the Batch Capture list.

12. When you are done creating your Batch Capture list, you can save it or record the clips to the Bin (see the sections below for instructions).

Rearranging the Batch Capture List

To rearrange clips on the Batch Capture list:

Button	Function
	Clears the Batch Capture list.
	Moves the selected clip down in the list.
	Moves the selected clip up in the list.
	Deletes the selected clip.
	Replaces the selected clip with the new Settings. Click Replace instead of Add after marking a new clip.

Saving a Batch Capture List

Once you've created a list, you can save it and record it later.

To save a Batch Capture list:

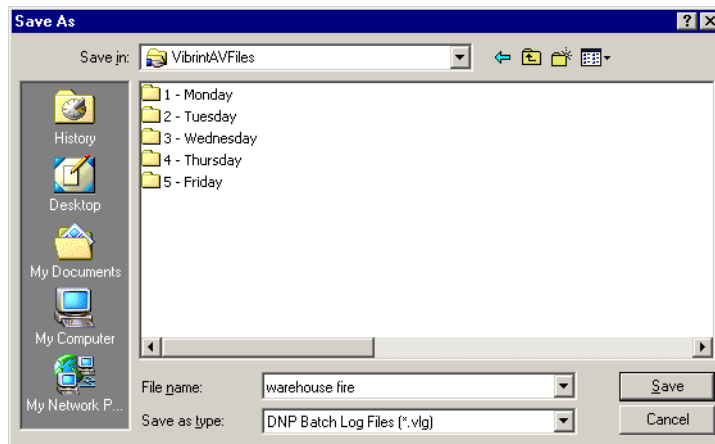


1. Click the **Save** button in the Batch Capture window.



Chapter 4 Other Ways to Edit with Aurora Edit

The Save As window appears:



2. Navigate to the directory where you want to save the list.

NOTE: To easily organize and keep track of files, you can create a separate folder to store all of the batch capture files.

3. Name the file and click **Save**.

The batch record list gets saved as a DNP Batch Log File with a .vlg extension.

Loading a Batch Capture List

You can also load a previously created Batch Capture list from other systems.

Aurora Edit supports these types of batch lists:

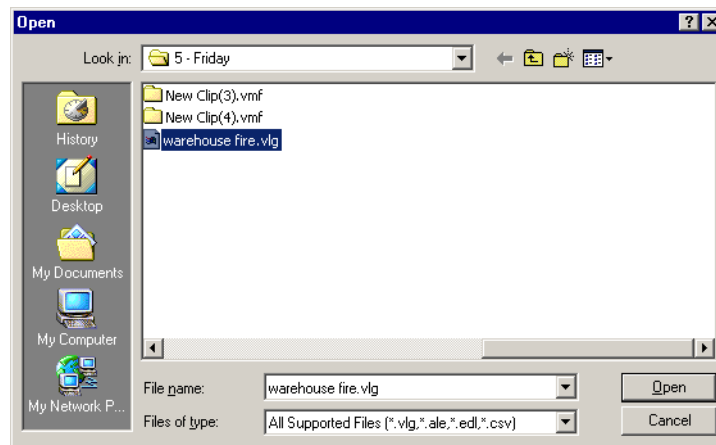
- DNP Batch Log Files (.vlg)
- Avid Log Exchange (.ale)
- CMX EDL Files (.edl)
- CSV—Comma delimited files (.csv)

To load a Batch Capture list:



1. Click the **Load** button in the Batch Capture window.

The Open window appears:



2. Locate the file containing the list and click **Open**.

The file loads into the Batch Capture and is ready to record.



Chapter 4 Other Ways to Edit with Aurora Edit

Recording Clips to the Bin

After you've created a batch capture list, you can record the clips to the Bin.

To batch record:

1. Load the Batch Capture list into the window, if it isn't already open, or create a new one as described on page 87.



2. Press **F12** or click **Record**.

Aurora Edit records the clips from the current tape in the VTR first or asks you to insert a specific tape.

Each of the clips records to the Bin.

Recording Status

The screenshot shows the 'Batch Capture' window with a table of clips. The table has columns for Name, Description, In, Out, Duration, and Tape ID. Three clips are listed: 'New Clip(11)', 'New Clip(12)', and 'New Clip(13)'. The first two clips have green bars in the 'In' and 'Out' columns, indicating they are done recording. The third clip has a red bar in the 'In' and 'Out' columns, indicating it is currently recording. A progress bar at the top right shows '# of 3 Recorded: 2/3' with two green bars and one red bar.

	Name	Description	In	Out	Duration	Tape ID
1	New Clip(11)		00:32:58,11	00:33:18,13	00:00:20,00	sss
2	New Clip(12)		00:32:58,11	00:33:18,13	00:00:20,00	sss
3	New Clip(13)		00:32:50,00	00:33:18,13	00:00:28,11	sss
4						
5						
6						
7						
8						
9						
10						

Clip is recording

Clip is done recording

You can bring the clips into the Timeline to use in a sequence.

NOTE: When marking clips from a tape with discontinuous timecode, you can switch to CTL Track and add the clip to the list. Aurora Edit dynamically switches from TC to CTL Track depending on how the clips were originally marked.

In case of a failure during recording, a Batch Capture Log can be found in **C:\Program Files\Grass Valley\Aurora Edit\Logs**. This log file contains error events which describe the problem during capture.

Moving Clips and Sequences

You can copy clips and sequences between bins or move clips or sequences from one bin to another.

For information on rearranging clips on the Timeline, see “Copying and Pasting Clips” on page 145.

Copying a Clip or Sequence

To copy an item:

1. Select the item you want to copy.
2. Right-click on the item and choose **Copy**.
3. Open the bin where you want to paste the item.
4. Right-click and choose **Paste**.

NOTE: If you copy a master clip, Aurora Edit pastes it as a subclip.

Moving a Clip or Sequence

To move an item into another bin:

1. Choose **View | Bins** to open a second Bin window.
2. In the second Bin window, navigate to the destination bin.
3. Drag the sequence or clip from the first Bin window to the second.



Renaming Bins and Media Files

To change the name of any bin, clip or sequence:

1. Select the item you want to rename.
2. Choose **Edit | Rename**.

You can also press **Shift + R** on the keyboard or right-click on the item and choose **Rename**.

3. Enter the new name of the item.

Deleting Clips and Sequences

You can delete unused clips or sequences you no longer need. However, you cannot delete files if they are being used in any existing sequences or subclips.

To delete a clip or sequence:

1. Select the clip or sequence you want to remove. Hold down the **Ctrl** key to select multiple items.
2. Press **Delete** on the keyboard.
A dialog box prompts you to confirm the deletion.
3. Click **Yes** to delete the file.

Searching for a Clip or Sequence

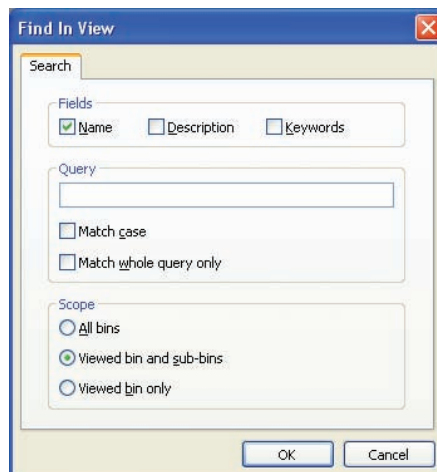
You can search for clips and sequences in the Bin. You can search for all clips that meet specific criteria or for a specific clip.

To search for a clip or sequence:



1. Click the **Find** button in the Bin Toolbar.

The Find In View window appears:



2. Choose the appropriate options:

- **Fields** — Check the boxes for the field(s) on which you want to search.
- **Query** — Enter the text you want to search for.
- **Match case** — Check this checkbox to do a case-sensitive search.
- **Match whole query only** — Check this checkbox to search only for clips with text matching the query text exactly.
- **All bins** — Select this option to search all Aurora Edit bins.
- **Viewed bin and sub-bins** — Select to search all of the bins within the bin you selected.
- **Viewed bin only** — Select to search the bin you are currently viewing.



Chapter 4 Other Ways to Edit with Aurora Edit

3. Click **OK**.



Clips and sequences matching your search result appear in the Bin window.

When you are done with your search, click the **Search Results** button off to restore the normal bin view and allow you to continue working in the Bin. To see your search results again, click the **Search Results** button on.

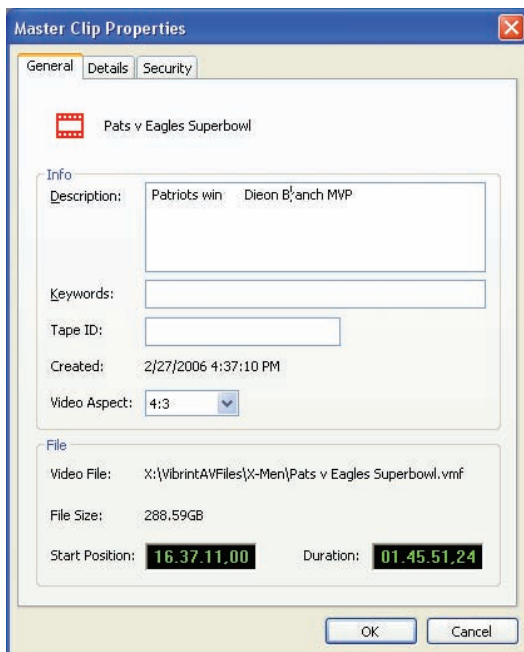
Changing Master Clip Properties

You can change the video aspect of a master clip, add a description and keywords, and view file information.

To change master clip properties:

1. Highlight the clip in the Bin, right-click and select **Properties**.

The Master Clip Properties window appears:



Changing Master Clip Properties

2. Add a description for the clip, or add keywords that can be used to search for this file.
3. Select the video aspect for the clip: **4:3** or **16:9**.
4. Click **OK**.



Chapter 4 Other Ways to Edit with Aurora Edit

Chapter **5**

Importing and Exporting Files

Aurora Edit lets you import files from other Aurora Edit workstations or other devices, as well as import various file formats. You can also export Aurora Edit sequences in a variety of formats for further enhancement on other systems.

This chapter discusses how to:

- Import files from a Media Server
- Import files, including video and audio clips, DiskCam files, EDL files, video effects, graphics, and media files
- Export files, including effects, graphics, and media files
- Work with audio OMF files



Importing Files from a Media Server

If you use a media server, such as a Profile, K2, or M-Series iVDR as part of your production system, you can obtain media files using the Transfer utility.

To import files from a media server:

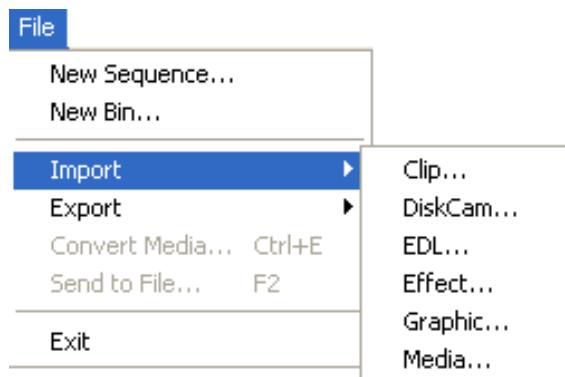
1. Verify that Aurora Edit is configured to work with a media server.
See the *Aurora Suite Installation and Configuration Guide* for instructions on connecting an Aurora Edit workstation to a media server.
2. Open the Transfer application.
3. Place the new window over the top of the Aurora Edit application.
4. Select the clip you want in the Transfer utility.
5. Drag the clip into the desired Aurora Edit bin.

The clip appears in your Bin as a master clip, ready for use in a sequence.

Importing Files

Aurora Edit can import various formats of clips, EDL files, video effects, graphic files, and media.

To import a file, click in the Bin window then choose your import type from the **File | Import** menu:



Importing Clips

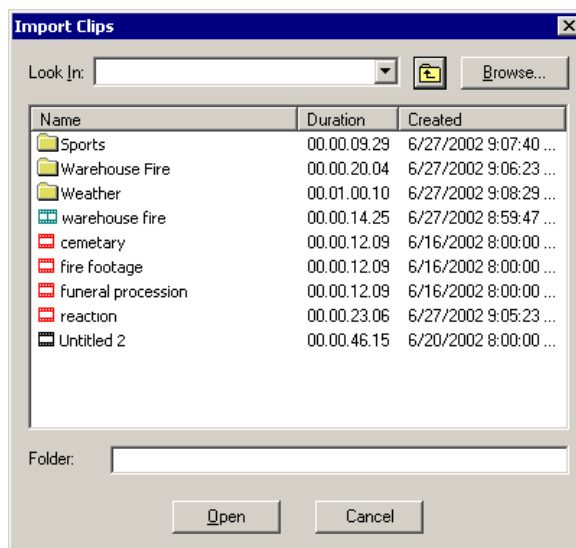
You can import media clips from your computer network or other Aurora Edit workstations. Imported clips appear in your Bin so you can use it in sequences.

To import a clip:



1. Click in the Bin window, then choose **File | Import | Clip** or click the **Import Clip** button in the Bin toolbar.

The Import Clips window appears:



2. Use the **Look in** list or **Browse** button to find the clip you want to import.
3. Highlight the clip and click **Open**. Press the **Ctrl** key to select multiple clips.
A progress bar indicates the import status.

The imported file appears in the Bin; you can use it just like any other clip.



Importing EDL Files

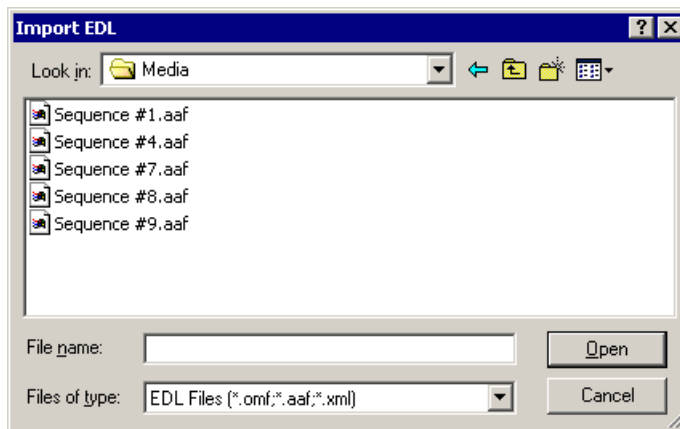
You can import common EDL formats (.OMF or .XML) from low-resolution editing systems or .AAF files created from Aurora Edit high-resolution media. These files contain sequenced clips that you can use to create your own sequences.

For instructions on importing audio .OMF files, see “Working with Audio OMF Files” on page 121.

To import an EDL (.OMF, .AAF, .XML) file:

1. Click in the Bin window, then choose **File | Import EDL**.

The Import EDL window appears:



2. Navigate to the EDL file you want to import and select it.

3. Click **Open**.

A progress bar indicates the import status.

Aurora Edit creates a new bin with the name of the imported EDL for the sequence and its clips.

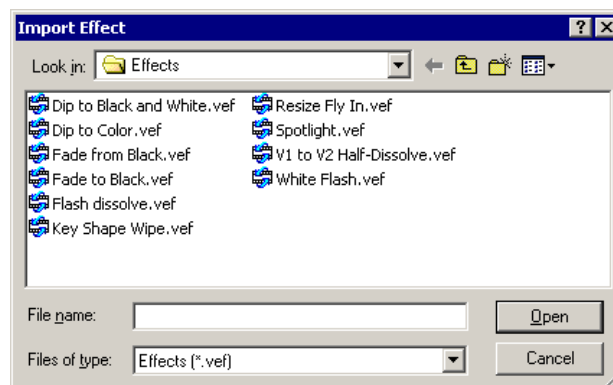
Importing Effects

You can import video effects from other workstations as well as saved effects you created for other sequences. See “Using Saved Effects in Your Sequence” on page 208 for more information.

To import an effect:

1. Click in the Bin window, then choose **File | Import | Effect**.

The Import Effect window appears:



2. Navigate to the effect you want to import, select it and click **Open**.

A progress bar indicates the import status.

The effect appears in the Bin; you can bring it into the FX track on the Timeline.

NOTE: You can also import an effect directly to the timeline by choosing **File | Layout | Graphic** while the Timeline window has focus.



Importing Graphic Files

You can import 24- or 32-bit graphic files in Aurora Edit, which you can use in the graphics track of your sequence. Aurora Edit supports these graphic file types:

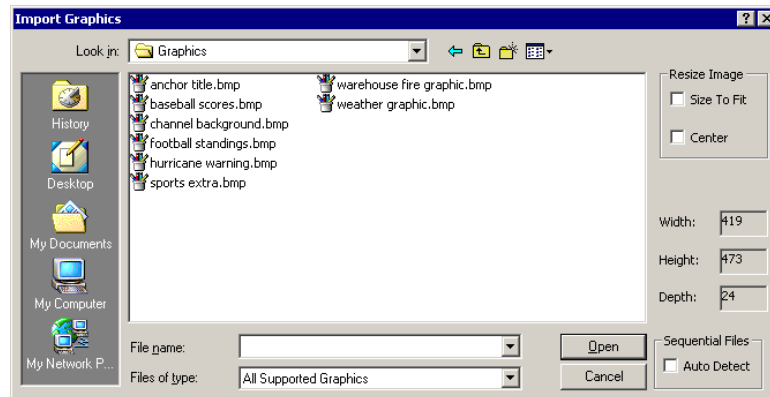
Type of File	File Extension
Windows Bitmap	.bmp
Truevision Targa (see “Importing a TGA Animation Sequence” on page 108)	.tga
JPEG - JFIF Compliant	.jpg, .jpeg
Tagged Image File Format	.tif, .tiff
Portable Network Graphic (PNG)	.png
Photoshop	.psd
Macintosh PICT	.pct
Zsoft Paintbrush	.pcx
Graphics Interchange Format	.gif

You can also superimpose a bitmap (with an alpha key) over the video in your clip. Imported graphics appear in your Bin.

To import a graphic:

1. Choose **File | Import | Graphic**.

The Import Graphics window appears:



2. Navigate to the graphic you want to import and select it.
3. Resize the image, if necessary, by checking the **Size to Fit** or **Center** boxes.

NOTE: It is recommended that the Auto Detect Sequential Files checkbox be left unchecked unless you are working with sequential TGA files. Leaving the checkbox checked prevents the importation of more than one graphic at a time.

4. Click **Open**.

A progress bar indicates the import status.

The imported graphic appears in the Bin; you can bring it onto the Timeline on the Graphics (G) track. You can also import a graphic directly to the Timeline by choosing **File | Import | Graphic** while the Timeline window is currently selected.



Importing Media

You can import media in a variety of formats into your sequence. You can also export graphics to enhance or tweak it and then import the enhanced file back into your sequence. See “Creating a Playback List” on page 248 for details.

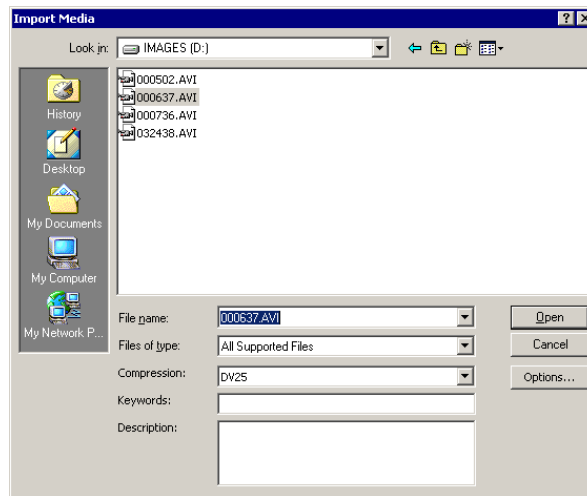
Aurora Edit supports these media types for importing:

Type of File	File Extension
AVI Files	.avi
MPG Files	.mpg, .mpeg, .mpe, .m1r, .m2v
WM9 Files	.asf, .wmv
MOV Files	.mov
MPEG-AVI Files	.avi
CD Audio Files	.cda
MP3 Files	.mp3, .mp2
WAV Audio Files	.wav
AIF Audio Files	.aiff, .aifc, .aif
WM Audio Files	.wma
AU Audio Files	.au
GXF Files	.gxf
MXF Files	.mxf

To import media:

1. Click in the Bin window, then choose **File | Import | Media**.

The Import Media window appears:



2. Navigate to the media you want to import and select it.
3. Select the Compression Type—**DV25**, **DV50**, or **MPEG2**.
4. Add Keywords and a Description, if desired.
5. If you are importing AVI, MPG, or WM9 Files, click **Options** and adjust these settings, if desired:

Setting	Options	Description
Bit Rate (Mbps)		Automatically set according to the Compression type.
Chroma Format		
Video Resolution		
Aspect Ratio	4:3 16:9	Select the correct aspect ratio for your media: 4:3 for Standard Definition (SD), 16:9 for High Definition (HD).



Chapter 5 *Importing and Exporting Files*

Setting	Options	Description
Aspect Ratio Option	Pillar Box Half Pillar Box Zoom Stretch	Select which ratio option is appropriate.
Tracks	Video and Audio Audio Only Video Only	Select which tracks you want to import into your sequence.
Field Order	Top First Bottom First	Select the Field Order for the selected files.

6. Click **Open**.

A progress bar indicates the import status.

The imported media appears in the Bin as a Master Clip; you can bring it onto the Timeline to use in your sequence.

Importing a TGA Animation Sequence

You can import .TGA animation sequences to use in your Aurora Edit sequences. Aurora Edit imports a TGA bitmap file for each frame of sequentially numbered video, and combines them into a single video clip.

The imported animation sequence, when placed on the Aurora Edit Timeline, is a video clip plus a resize video effect using the alpha channel for transparency.

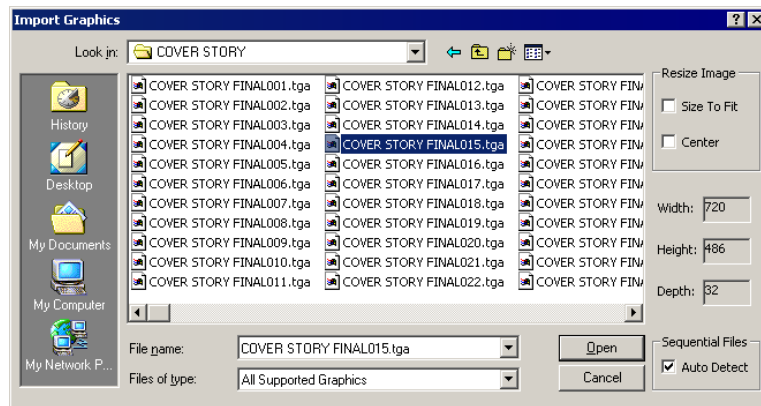
In order to use a .TGA sequence in Aurora Edit, the Aurora Edit sequence needs to have 2 video tracks and the video effects track available.

To import a TGA animation sequence:

1. Click in the Bin window, then choose **File | Import | Graphic**.

Importing a TGA Animation Sequence

The Import Graphics window appears:

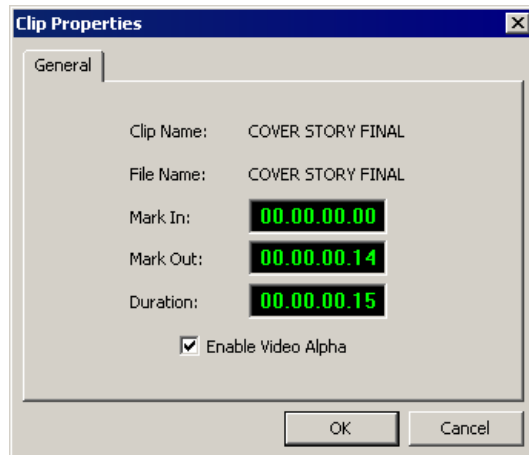


2. Navigate to the animated sequence you want to import.
3. Leave the **Resize Image** checkboxes unchecked; these fields don't apply when importing an animated sequence.
4. Check **Auto Detect Sequential Files** to import all sequentially numbered .tga files with the same filename.
5. Select one file that is part of the .TGA sequence.
6. Click **Open**.
 - A progress bar indicates the import status.
 - The imported file(s) appear in the Bin as a single video clip.
7. To add the animation clip to the V2 and Effects tracks in your Aurora Edit sequence, make sure your sequence has an active video effects track and two video tracks.
8. Drag (or copy) the animation clip onto the Timeline.
 - The clip is placed on both the second video track and the video effects track.



Chapter 5 *Importing and Exporting Files*

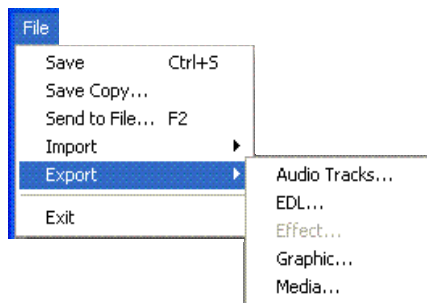
If, for some reason, you don't want the animation sequence to be transparent over the video on the other video track, you can turn it off by highlighting the clip, right-clicking and selecting **Properties**, and unchecking **Enable Video Alpha**.



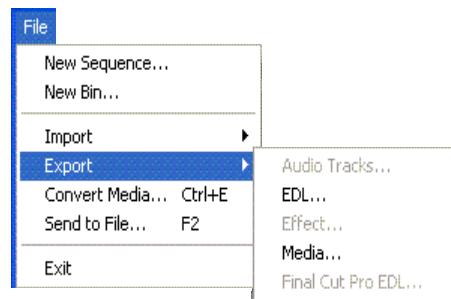
Exporting Files

Aurora Edit can export EDLs, video effects, graphic files, and media files. You can export a part of an Aurora Edit sequence to enhance it using other tools, such as advanced audio editing or graphics applications, to exchange files with other systems, or to save favorite effects. To export a file, choose your export type from the **File | Export** menu—you see a different Export menu depending on whether the Timeline or Bin is selected:

From Timeline:



From Bin:





Exporting EDLs

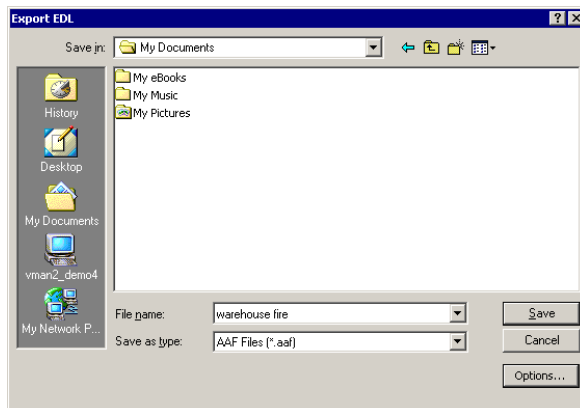
From the Bin, you can export your sequence into an EDL file, in these formats: AAF, OMF, or XML. You can select to save the EDL with the media embedded or to consolidate the media and link to it. If you consolidate the media, Aurora Edit creates a .vmf directory containing the consolidated files.

For instructions on exporting an EDL for use with an audio post-production application, such as Fairlight, Nuendo or Pro Tools, see “Working with Audio OMF Files” on page 121.

To export an EDL:

1. Highlight the sequence or clip in the Bin you want to export.
2. Choose **File | Export | EDL**.

The Export EDL window appears:



3. Navigate to the folder where you want to export the EDL.
4. Select the Save as type: **AAF Files**, **OMF Files**, or **XML Files**.
5. Change any options (for AAF and OMF file types) by clicking the **Options** button; see descriptions below.
6. Enter a name for the file and click **Save**.

Options for Exporting EDLs

You have different options available to you depending on the type of EDL you are exporting:

Export Type	Options		Description
AAF Files	Consolidate and embed media		First consolidates and then embeds the media in the AAF file. NOTE: Aurora Edit cannot create a consolidated file larger than 2 GB.
	Link to current media		Exports an AAF composition with links to the media in its current location. Media is not embedded in the file.
	Copy media and link to copied media		Copies media to another location and exports an AAF composition with links to the copied media.
	Consolidate media and link to consolidated media		Consolidates the media to another location and exports an AAF composition with links to the consolidated media. Consolidate and embed are the default settings.
	If you selected an option that includes copying or consolidating the media, click Set Export Path and select where the copied or consolidated files are saved.		
OMF Files	Media Options	Consolidated Media	Exports the actual Timeline length, with the export handle length included. This option has a faster transfer time. This is the default setting.
		Full Media	The entire clip is maintained, including footage that has been trimmed. This option requires a longer transfer time, but provides you with extra handle material.
	Compatibility	Pro Tools	Select which post-production audio tool you are using.
		Nuendo	
		Fairlight	



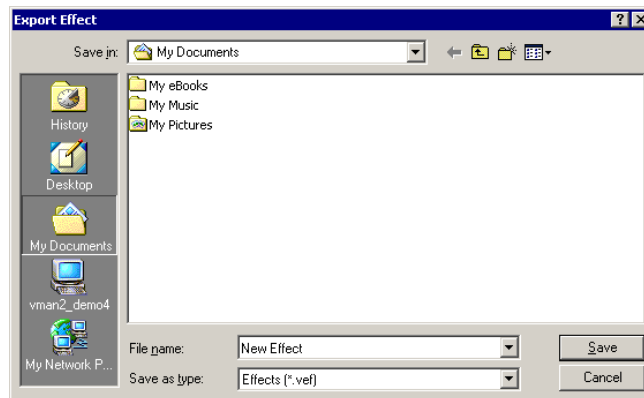
Exporting Effects

You can export your favorite video effects and save them separately from your Aurora Edit sequence. Exported effects files are saved with a .vef extension.

To export an effect:

1. Select the effect you want to export:
 - Open the sequence that includes the effect in the Timelineor
 - Highlight the effect in the Bin
2. Choose **File | Export | Effect**.

The Export Effect window appears:



3. Navigate to the folder where you want to export the effect.
4. Enter a name for the file and click **Save**.

Exporting Graphic Files

You can export a graphic file from Aurora Edit. A graphic file is a thumbnail of the video in the Timeline at the cursor point when the file is exported. Exported graphic files can be sent to your graphics department for tweaking and enhancement; you can import the enhanced graphic back into your sequence.

You can export to these graphic file types:

Windows Bitmap	.bmp
Truevision Targa	.tga
JPEG-JFIF Compliant	.jpg, .jpeg
Tagged Image File Format	.tif, .tiff
Photoshop	.psd
Macintosh PICT	.pct
Zsoft Paintbrush	.pcx
Graphics Interchange Format	.gif

To export a graphic:

1. Open a sequence in the Timeline and place the cursor over the video that you'd like to export as a graphic.
2. Choose **File | Export | Graphic**; the Export Graphic window appears.
3. Navigate to the folder where you want to export the graphic.
4. Enter a name for the file.
5. Select the type of file to export and click **Save**.



Exporting Media

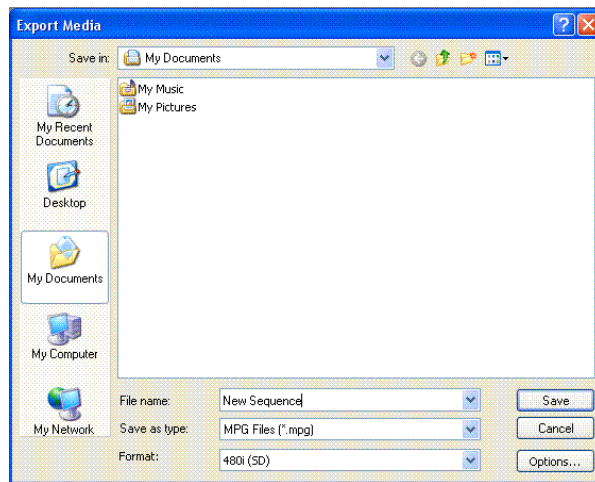
You can export a sequence from Aurora Edit for many reasons, including exchanging sequences with other editing systems, obtaining video to stream it on the web, and archiving video. Aurora Edit supports these file types to export:

AVI Files	.avi
MPG Files	.mpg
WM9 Files	.asf
MOV Files	.mov
WM Audio Files	.wma
WAV Audio Files	.wav
AIF Audio Files	.aif
GXF Files	.gxf
MXF Files	.mxf

To export media:

1. Select the sequence you want to export by opening it in the Timeline or highlighting it in the Bin.
2. Choose **File | Export | Media**.

The Export Media window appears:



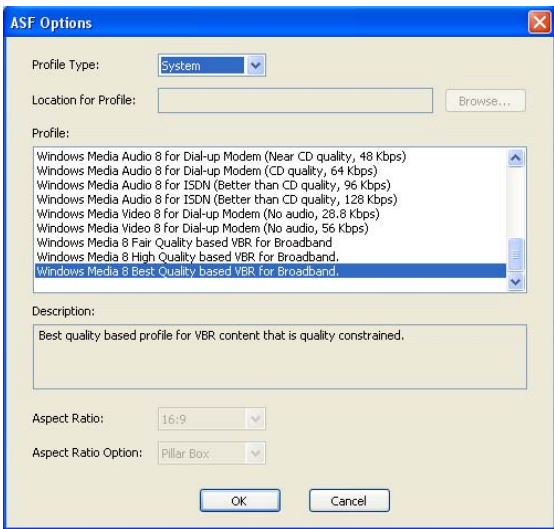
3. Navigate to the folder where you want to export the file.
4. Select the type of file to export.
5. Choose the appropriate format: 480i (SD), 720p (HD), 1080i (HD).
6. Change any options by clicking the **Options** button; see descriptions below.
7. Click **Save**.


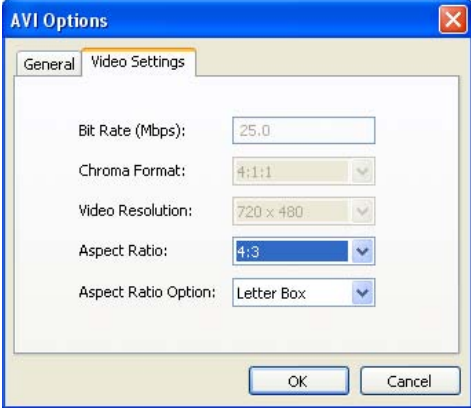


Chapter 5 *Importing and Exporting Files*

Options for Exporting Media

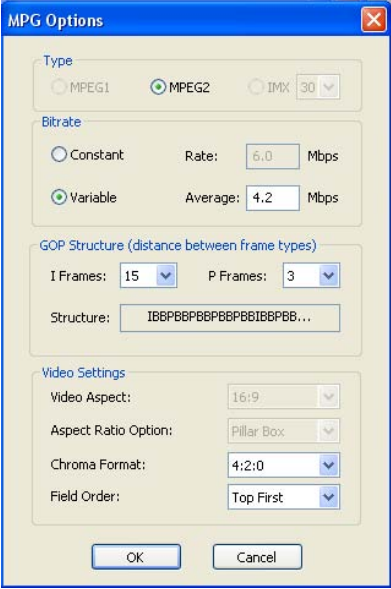
You have different options available to you depending on the type of media file you are exporting:

Media Option	Description
<p>If you are exporting to a WM9 File or a WM Audio file, choose from these ASF Options:</p> 	<ol style="list-style-type: none">1. Select System or User Defined for the type of profiles to be shown.2. If you selected User Defined, click Browse and select the directory containing the profiles.3. Select the Windows media profile that is most appropriate for your network.4. Click OK.

Media Option	Description
<p>If you are exporting to an AVI or MOV File, choose from these Options:</p>  	<p>On the General Tab:</p> <ol style="list-style-type: none"> 1. Select the type of video you want to export, DV25, DV50, MPEG2 or Uncompressed. 2. Select whether to export both Video and Audio, or to export Video only. 3. Select the field order based on your preference: Top First or Bottom First. 4. Click OK. <p>On the Video Settings Tab:</p> <p>(You can only change the Bit Rate, Chroma Format, and Video Resolution for the MPEG2 Video format).</p> <ol style="list-style-type: none"> 1. Enter the Bit Rate in Mbps. 2. Select the Chroma Format. 3. Select the Video Resolution. 4. Select the Aspect Ratio: 4:3 or 16:9. 5. Click OK.



Chapter 5 *Importing and Exporting Files*

Media Option	Description
<p>If you are exporting to an MPEG File, choose from these Options:</p> 	<ol style="list-style-type: none">1. Select an appropriate MPEG file type: MPEG1 or MPEG2.2. Select the bitrate as Constant or Variable and select the Rate or Average Mbps.3. Select the GOP Structure by adjusting I and P Frame configurations.4. Select the Video Aspect: 4:3 or 16:9.5. If applicable, select the Chroma Format: 4:2:2 or 4:2:0.6. Select a field order: Top First or Bottom First.7. Click OK.

Working with Audio OMF Files

With Aurora Edit, you can add enhanced audio to your sequences using an audio post-production tool. This is accomplished by exporting an Aurora Edit sequence as an OMF file, which strips out the video tracks and exports only the audio tracks. The resulting OMF file can be imported into a post-production tool, where you can enhance the audio, then export the audio tracks as an OMF file which can be re-imported into Aurora Edit and used in the original sequence.

Aurora Edit supports these audio post-production tools:

- Digidesign Pro Tools LE, version 6.7
- Fairlight systems (using the AVTransfer utility available from avtransfer.net)
- Steinberg Nuendo, version 2.0 or 3.0

To use enhanced audio within your Aurora Edit sequence, follow these steps:

1. Create a sequence in Aurora Edit and export it as an OMF file.
2. Import the OMF file into one of the supported audio post-production tools.
3. Enhance the audio tracks using the post-production tool.
4. Export an OMF file from the post-production tool.
5. Import the new OMF file into Aurora Edit and add the enhanced audio tracks back into the original Aurora Edit sequence.

The following sections describe each step in detail.



Exporting an Aurora Edit Sequence

The first step is to export your Aurora Edit sequence as an OMF file:

1. In the Aurora Edit Bin, select the sequence that you wish to export.
2. Select **File | Export | EDL**.
3. Select **Audio OMF Files** as the Save as Type.
4. Navigate to the folder that will be the destination for the exported file.
5. Click **Options** and select your export options:

Setting	Option	Description
Media Options	Consolidated Media	Exports the portion of each clip that appears on the Timeline, with the export handle length included. This option has a faster transfer time. This is the default setting.
	Full Media	Each clip is exported in its entirety, including footage that has been trimmed. This option requires a longer transfer time, but provides you with extra handle material.
Compatibility	Pro Tools	Select which post-production audio tool you are using. NOTE: If you select Pro Tools, the filename may be truncated, as Pro Tools only supports filenames with 31 characters or less.
	Nuendo	
	Fairlight	

NOTE: *You only need to select export options once; selected settings are saved and applied to subsequent files.*

6. Click **OK** in the Export Options window, then click **Save**.

Adding Audio Enhancements

Once you've exported your Aurora Edit sequence, you need to import it into the post-production audio tool and make any enhancements.

Follow the instructions for the audio tool you are using.

Using Digidesign Pro Tools

To make audio enhancements using Pro Tools:

1. Open the Pro Tools application.
2. Create a new session with these settings:

Session Parameter	Selection
Audio File Type	BWF (.WAV)
Sample Rate	48 kHz
Bit Depth	16 Bit

3. Select **File | Import Session Data**.
4. Select the OMF file that you exported from Aurora Edit and click **Open**.
5. In the Import Session Data window, choose these settings:

Option	Selection
Convert clip-based gain to automation	
Ignore keyframe gain	Off

6. Click **OK**.
7. Make your audio enhancements.
8. Select **File | Export selected tracks as OMF/AAF**.



Chapter 5 *Importing and Exporting Files*

9. In the Export to OMF/AAF window, choose these settings:

Option	Selection
Export as	OMF
Target project timecode format	NTSC: 29.97 Drop or Non-Drop PAL: 25
Quantize edits to frame boundaries	Off
Apply SRC	On
Source sample rate	48000
Destination sample rate	48000
Audio format	Embedded
Audio bit depth	16
Source media type	Select Copy from source media or Consolidate from source media
Other settings based on user preference	

10. Click **OK**.
11. In the Publishing Options window, name your sequence and click **OK**.
12. Select the desired folder for export, type a name for the exported file, and click **Save**.
13. Continue to “Importing Enhanced OMF Files Back into Aurora Edit” on page 129.

Using Steinberg Nuendo

Aurora Edit supports Nuendo, versions 2.0 and 3.0. This section describes how to use both versions to work with Aurora Edit exported files.

NOTE: Nuendo doesn't support fade control points.

To make audio enhancements using Nuendo:

1. Open the Nuendo application.
2. In order to work properly with Aurora Edit files, make sure Project Setup settings are as follows:

Option	Selection	Nuendo Version	
		2.0	3.0
Frame Rate	NTSC: 29.97 fps or dfps PAL: 25 fps	✓	✓
Sample Rate	48.000 Hz	✓	✓
Record Format	16 Bit	✓	✓
Record File Type	Wave File	N/A	✓
Other settings based on user preference		✓	✓

3. Select **File | Import | OMF**.
4. Select the name of the file to import and click **Open**.
5. In version 3.0, in the Import Options window, click **Select All Tracks** and **Import All Media Files**, and click **OK**.
6. Make your audio enhancements.
7. Select **File | Export | OMF**.
8. In the resulting window (OMF Export Setup for version 2.0, Export Options for version 3.0), choose these settings:



Chapter 5 *Importing and Exporting Files*

Option	Selection	Nuendo Version	
		2.0	3.0
Select All		N/A	✓
OMF Version	2.0 File	✓	✓
Export All to One File	On	✓	✓
Export Clip Based Volume	On	✓	✓
Use Fade Curves	On	✓	✓
Export Clip Names	On	N/A	✓
Export Sample Size	16 Bit	✓	✓
Export Sample Rate	48,000	✓	N/A
Other settings based on user preference		✓	✓

9. Click **OK**.
10. Navigate to the folder where you want to save, name the file and click **Save**.
11. Continue to “Importing Enhanced OMF Files Back into Aurora Edit” on page 129.

Using Fairlight and AVTransfer

When using Fairlight as your audio post-production tool, you need to convert your OMF files (using a utility called AVTransfer) into a format that Fairlight supports, make your audio enhancements in Fairlight, and then convert those files back to OMF so Aurora Edit can read them.

To make audio enhancements using Fairlight:

1. Open AVTransfer.
2. Click **Open omf Project**.
3. Browse and select the OMF file that you exported from Edit and click **Open**.
4. In the OMF Import Options window, leave settings at their default values and click **OK**.
5. In the Explorer window, select the name of the file in the Project Data area, click **Export Project as Fairlight ML4**.
6. Browse to where you want to save the file, and click **Save**.
7. In the ML Export Options window, choose these settings and click **OK**:

Option	Selection
Bit Depth Conversion	16 bit
Export Sound Type	Wav
Sample Rate Conversion	Resample @ 48000
Other settings based on user preference	

8. Open the .ML file in Fairlight, make any audio enhancements, and save the file as ML4.
9. From the home screen in AVTransfer, click **ML3/ML4**.
10. Browse to locate the Fairlight exported file and click **Open**.
11. In the Explorer window, select the name of the file in the Project Data area and click **Export Project as OMF**.
12. Browse to where you want to save the file, rename the file if necessary, and click **Save**.



Chapter 5 *Importing and Exporting Files*

13. In the OMF Export Properties window, use one of these methods to set OMF properties:

- If you are using AVTransfer version 4.0 revA17 or later, press the **Grass Valley Presets** button and click **OK**.
- If you are using an earlier version of AVTransfer, manually select the OMF Export options as follows, and click **OK**:

Option	Selection
Omf Version	2.x
EDL Edit Resolution	Audio Sample
Data Format	WAVE
Bit Depth Conversion	16 bit
Effects	Preserve clip gain
Export Composition Options	One OMF file (audio embedded)
Export Media Options	All audio
Sample Rate Conversion	Resample @ 48000
Other settings based on user preference	

NOTE: *The following presets are also compatible with Aurora Edit: Avid MC, Ensoniq Paris, Pro Tools (Digitranslator), Pro Tools (Omftool).*

14. Continue to “Importing Enhanced OMF Files Back into Aurora Edit” on page 129.

Importing Enhanced OMF Files Back into Aurora Edit

Once you've enhanced the audio tracks, you can import them back into the original Aurora Edit sequence:

1. In Aurora Edit, select **File | Import | EDL**.
2. Select the OMF file that you exported from Pro Tools, Nuendo, or AVTransfer and click **Open**.

The OMF file imports into the Aurora Edit Bin as a sub-bin with the name of the Aurora Edit sequence; within that bin are a sequence and its audio files.

3. Open the sequence in the imported Bin folder.
4. Copy the enhanced audio tracks into the original Aurora Edit sequence as follows:
 - a. Make sure all necessary tracks are active.
 - b. In the enhanced audio sequence, select all tracks to copy, right-click and select **Copy Selected**.

NOTE: Press **Shift + S** to select all tracks at once.

- c. Open the original Aurora Edit sequence, place the cursor where you want to audio files to go, right-click and select **Paste**.

NOTE: You can also drag the enhanced sequence directly from the Bin into the original Aurora Edit sequence.

The text on the clip names turns blue to indicate that the video and audio tracks are now unlinked.

5. If you want to re-link clips, select all tracks for each clip then select **Link** from the right-click menu.
6. Save the file.



Chapter 5 Importing and Exporting Files

Chapter **6**

Trimming Your Clips

After creating clips in the Bin or directly in the Timeline, you may need to trim a clip to fit or edit out extra frames. Aurora Edit provides several methods for trimming clips to create quality sequences.

This chapter discusses how to:

- Use the Trim Tool and the Cut Point Edit Tool for trimming clips
- Change the end points between clips
- Extend your edits
- Trim your clips in the Bin



Trimming Clips

You will often need to shorten your clips or change the starting or ending frame. In Aurora Edit you trim clips by changing the Mark In and Mark Out points.

You can also trim clips in the Bin without bringing them into the Timeline. See “Trimming Your Media Clips in the Bin” on page 141 for instructions.

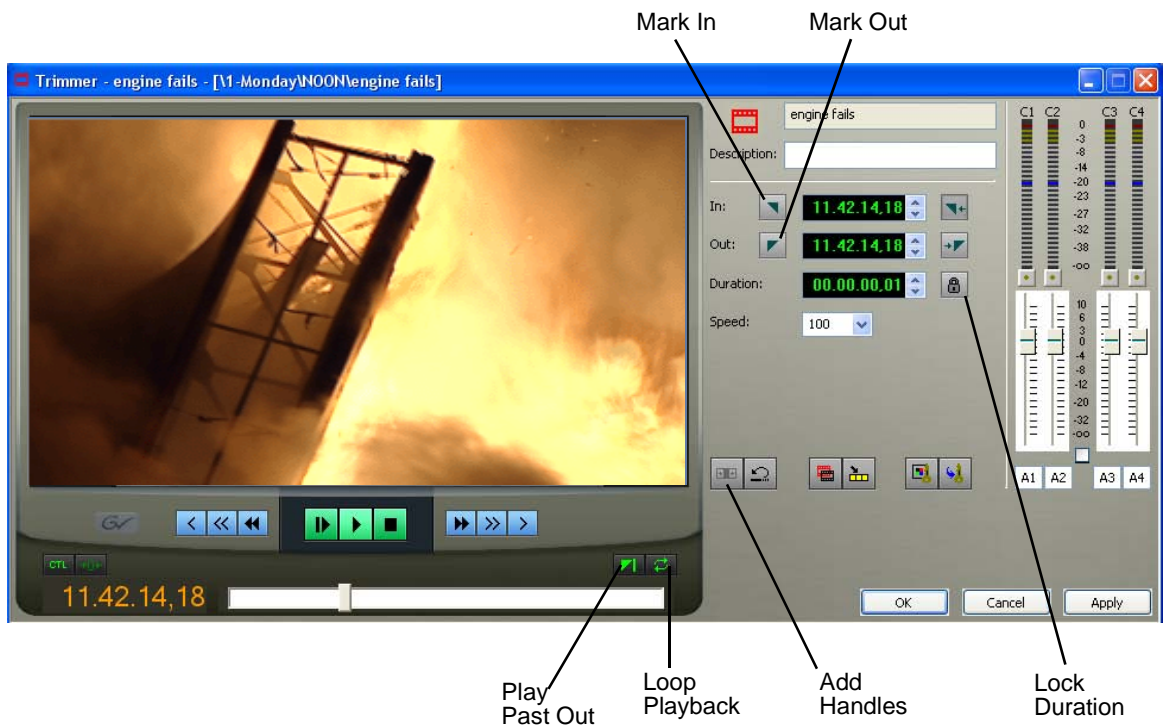
Using the Trim Tool

One way to trim your clips while in the Timeline is to use the Trim Tool.



To select the Trim Tool, press **3** on your keyboard or click the **Trim Tool** button in the Timeline Toolbar.

You can also double-click on the video track for the clip you want to trim.



Trimming Your Clips

You trim your clips by marking new In and Out points for each clip.

To trim a clip:

1. Click once on the clip you want to trim to select it.
2. Press **3** on the keyboard or click the **Trim Tool** button in the Timeline toolbar.



The Trim window appears:



3. To trim the beginning of a shot, press the **spacebar** to play the clip and press the **spacebar** again to stop at the frame where you want the clip to start.

You can also use the slider to find the approximate In point and then use the **A**, **S**, **D**, and **F** keys on the keyboard to find the exact spot.

4. Press **I** on the keyboard to mark a new In point.
5. To trim the end of the same clip, play the clip again and stop at the frame where you want the clip to end.
6. Press **O** on the keyboard to mark a new Out point.
7. Continue trimming other clips in your sequence.



Using Handles to Add Frames to Your Clips

If you have recorded handles with your clips, you have additional frames to choose from when trimming your clips.

To use handles:



1. Click the **Add Handles** button in the Trim Tool.

The handles appear as additional frames on the slider in the Viewing Monitor.

2. Mark new In and Out points for your clip using the additional material.

Locking the Duration of a Clip

Sometimes you need to trim a clip while maintaining its duration. The Lock Duration feature allows you to keep the clip duration constant while trimming by using the extra frames in the handles and adjusting the clip. For instance, if you move the Mark In point 5 frames from the beginning of the clip, the Mark Out point moves automatically 5 frames to maintain the duration.

To lock the duration of a clip:



- Click the **Lock Duration** button in the Trim tool.

Playing Past Out

Playing Past Out lets you create an Out point on the fly while viewing media after the Mark Out point, which is useful when verifying the Out point.

To play past the Out point:



1. Click the **Play Past Out** button in the Trim Tool.
2. Play the clip.

The clip continues playing past the Mark Out point, letting you see the rest of the footage in the clip.

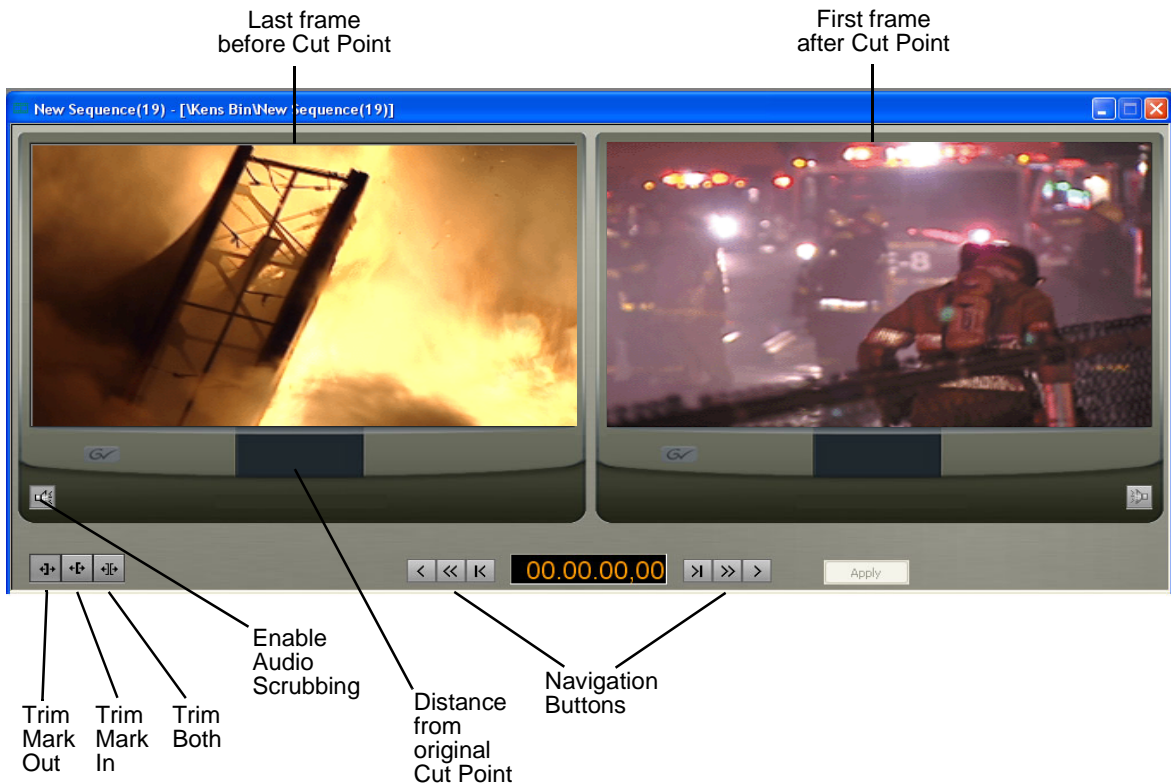
Changing Cut Points Between Adjacent Clips

You may need to adjust the cut points between two clips in the Timeline. When you edit part of a clip into your sequence, Aurora Edit recognizes that there is more material in the clip than is being used in the edit. The Cut Point Edit Tool lets you access the unused portion of the clip without returning to the source clip and repeating the edit.

Using the Cut Point Edit Tool



To select the Cut Point Edit Tool, press **4** on your keyboard or click the **Cut Point Edit Tool** button in the Timeline Toolbar.





Chapter 6 *Trimming Your Clips*

Changing Cut Points

Adjust the cut points between two adjacent clips by trimming the Out point of the first clip, the In point of the second clip, or both.

To change a cut point:

1. Select the tracks you want to edit in the Timeline.
2. Move to the appropriate cut point in the Timeline:
 - Move to the next cut point by pressing **H** on your keyboard.
 - Move to the previous cut point by pressing **G** on your keyboard.
3. Press **4** on your keyboard or click the **Cut Point Edit Tool** button in the Timeline toolbar.



The Cut Point window appears showing the two clips you want to trim:



4. Choose one of the following ways to trim:



-Trim Mark Out — Extends or retracts the Out point of the first clip; changes the duration of a sequence.



-Trim Mark In— Extends or retracts the In point of the second clip; changes the duration of a sequence.



-Trim Both— Simultaneously manipulates the Out point of the first clip and the In point of the second clip. This method extends L-cuts without changing the sequence duration.

5. Choose how much you want to trim the cut point(s) by:

- Dragging the cut point in the Timeline to the new position.
- Using the cut point navigation tools to select the new frame position. The next section, *Navigating to Cut Points* describes these buttons.

6. Click **Apply** or press **Enter** on the keyboard.

The Timeline updates with the new cut point.

Navigating to Cut Points

Aurora Edit provides some quick ways to navigate through your clips to find the frames you need for trimming.

You can either click the buttons in the Cut Point Edit Tool or press the corresponding keys on the keyboard.









Navigation Buttons



Chapter 6 *Trimming Your Clips*

Use these tools to navigate through your sequence:

Icon	Keyboard Key	Description
	Z	Extends to the previous cut point.
	D	Moves back 10 frames.
	A	Moves back 1 frame.
	S	Moves forward 1 frame.
	F	Moves forward 10 frames.
	X	Extends to the next cut point.

Using Audio Scrubbing

Digital audio scrubbing allows you to jog through your material while monitoring the audio. Use audio scrubbing to locate your audio edit points.

To use audio scrubbing:



- Click **Enable Audio Scrubbing** in the Cut Point Edit Tool.

Extending Your Edits

You can use the Cut Point Edit Tool to extend an individual track (video or audio) over the track in the next clip.

To extend an individual track:



1. Press **4** on your keyboard to select the Cut Point Edit Tool.
2. Deselect any tracks you don't want to extend.

For example, to extend an audio track only, deselect the video track.

To deselect a track, click once in the track indicator on the Timeline for each track you want to deselect.

3. Put the cursor at the beginning of the track you want to extend.

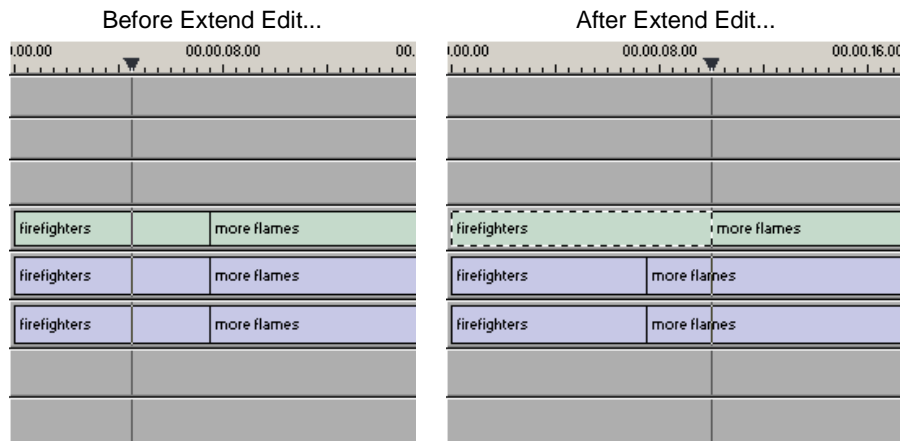


4. Move to the next or previous cut point using the buttons or the **Z** and **X** keys on the keyboard.
5. Press **Enter** to extend the edit over the clip.



Extending Your Edits

Aurora Edit provides a quick way to extend an edit without having to re-record any footage. Use this feature to extend an individual track (video or audio) over the track in the next clip.



To extend an edit:

1. Deselect any tracks you don't want to extend.
To deselect a track, click once in the track indicator on the Timeline for each track you want to deselect.
2. Highlight the clip you want to extend.
3. Move the cursor to the position you want to extend the clip to.
4. Press **V** on your keyboard.
The clip extends into the next clip. If the clip doesn't have enough handle material to extend as far as you select, Aurora Edit extends it as far as it can.

You can also shorten a clip using this method by marking an In point on a clip and pressing **V** on your keyboard.

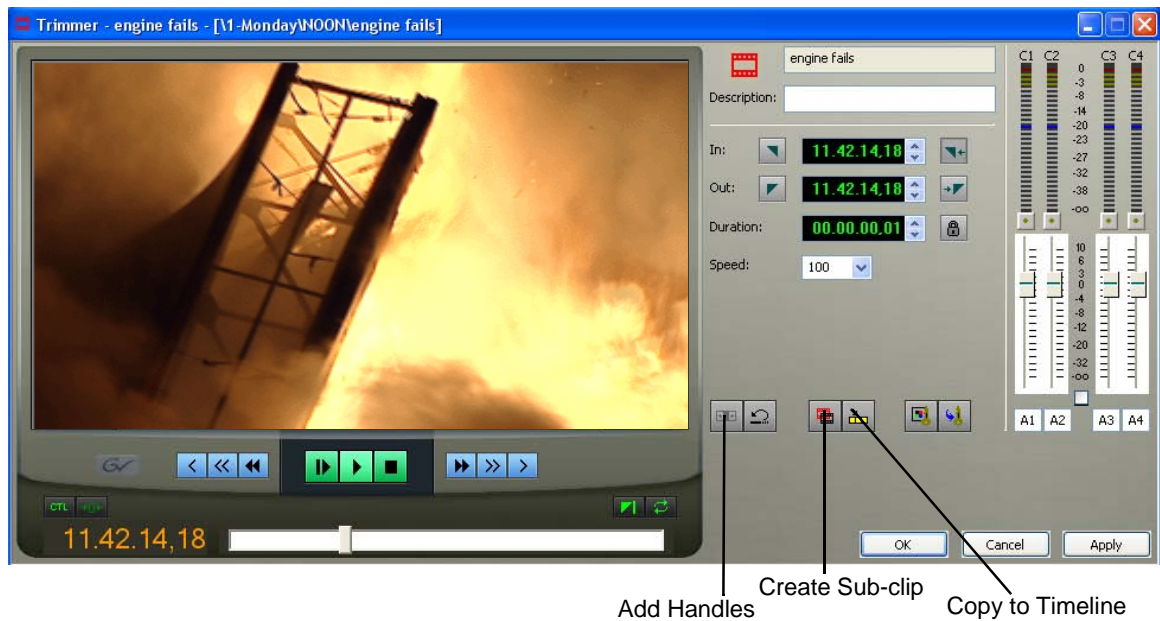
Trimming Your Media Clips in the Bin

You can trim clips in the Bin without putting them into the Timeline. For example, you can record a long section of tape and then create shorter individual clips to edit into a sequence. This process is the same as editing clips in the Timeline, but you can also create subclips using this method. Subclips allow you to create shorter clips without changing the original recorded clip.

To trim media clips in the Bin:

1. Double-click the media clip you want to trim.

The Trimmer window appears:



2. Press **W** on the keyboard to play the clip.
3. Press the **I** and **O** buttons on the keyboard to mark new edit points.
To see the extra recorded material, click the **Add Handles** button.
4. Click **OK**.

NOTE: You can also drag other clips into the Trimmer without having to close and reopen the Trimmer window.



Creating SubClips

If you want to create a shorter clip from a larger recorded clip:



1. Press the **I** and **O** buttons on the keyboard to mark new edit points.
2. Click **Create SubClip** on the Bin Trimmer window.

The Create Subclip dialog appears.

3. Name the subclip and click **OK**.

When you close the Trimmer, click **No** to save changes. Otherwise, the master clip will be modified.

Copying a Clip to the Timeline

If you want to copy a portion of a larger recorded clip to the Timeline:



1. Open a sequence window if one is not open.
2. Press the **I** and **O** buttons on the keyboard to mark new edit points.
3. Press **C** on the keyboard or click **Copy to Timeline** on the Bin Trimmer window.

The smaller clip copies to the Timeline at the insert point and is ready for editing.

A Quick Way to Edit

To quickly edit a sequence:



1. Click **Play Past Out** on the Bin Trimmer window.
2. Play the clip.
3. Mark an In point.
4. Mark an Out point.
5. Copy to the Timeline by pressing **C** on the keyboard while the clip is playing.
6. Repeat steps 3-5 to continue your edits.

Chapter **7**

Fine Tuning and Advanced Editing

Once you have clips in the Timeline, Aurora Edit has several features to help fine-tune a sequence.

This chapter discusses how to:

- Rearrange clips within a sequence
- Change the editing mode or use Quick Edit mode
- Split clips
- Lift clips from the timeline
- Delete clips
- Insert filler between clips
- Create a Fit To Fill
- Add a freeze frame
- Vary the speed of a clip
- Create a split edit
- Use Control Track and Match Frame
- Work with Apple Final Cut Pro



Moving Clips in the Timeline

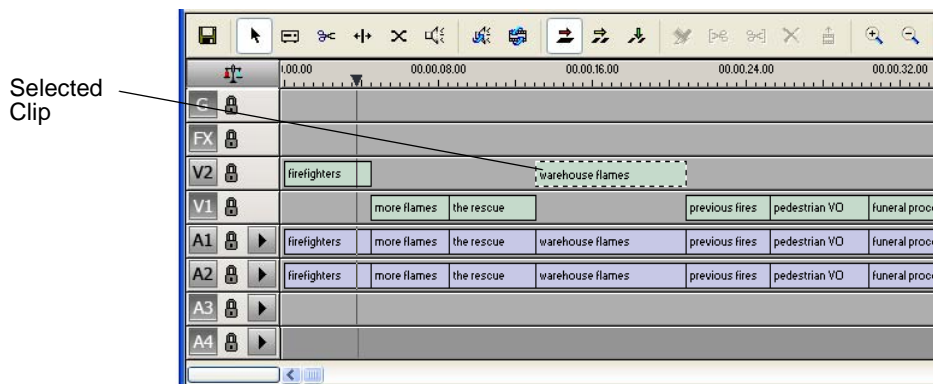
When you move clips in the Timeline, the result differs slightly based on the current edit mode. If you are in Overwrite Edit Mode, a moved clip covers other clips. If you are in Splice Edit Mode, a moved clip pushes other clips out.

To move a clip:



1. Press **1** on your keyboard to choose the Timeline Tool.
2. Click once on the clip in the Timeline you want to move.

An outline appears around the clip you selected.



3. Drag the clip to its new location.

You can also use the following keyboard keys to move clips:

Keyboard Keys	Function
Numberpad 4	Moves the selected clip one frame to the left on the Timeline.
Numberpad 6	Moves the selected clip one frame to the right on the Timeline.
Ctrl + Numberpad 4	Moves the selected clip 10 frames to the left on the Timeline.
Ctrl + Numberpad 6	Moves the selected clip 10 frames to the left n the Timeline.
Z	Moves the selected clip to the previous cut point.
X	Moves the selected clip to the next cut point.

Moving Audio Clips

You can move an audio clip to any of the eight Aurora Edit audio tracks.

To move an audio clip to a different track:

- Drag the audio clip to the desired track.

Copying and Pasting Clips

In the Timeline, you can copy and paste items, such as video and audio clips, graphics, effects, and transitions.

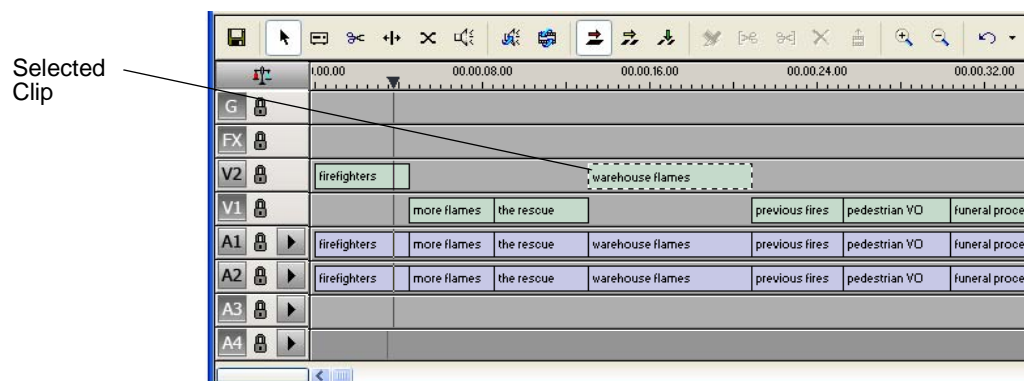
Using the right-click menu in the Timeline, you can delete, lift, copy, cut and paste selected items, a selected area of the sequence, or paste a selected track.

Selected Items

To copy and paste selected items in the Timeline:

1. Click once on the clip (or Lasso the area) in the Timeline you want to cut or copy.

An outline appears around the clip you selected.



2. Right-click in the Timeline and select what you want to do.
3. If you are pasting a clip, move the cursor to the new location, right-click and select **Paste Selected** or **Paste Track**.



Selected Area

To copy and paste an area of the sequence:

1. Mark an In Point at the start of the material to move.
2. Mark an Out Point at the end of the material.
3. Turn off any tracks you don't want to cut or copy.
4. Right-click in a track and select one of these functions: **Cut Area, Copy Area, Delete Area, or Lift Area.**
5. If desired, paste the material into another part of this sequence or another sequence.

Remove any mark points from your sequence before pasting material; Aurora Edit pastes material at the Mark Out point.

Saving the Timeline Track Configuration

With Aurora Edit, you can save the current positions of the tracks in the Timeline and use these settings for future timelines.

Settings that get saved are:

- Sync lock
- Track activation
- Track height
- Waveform zoom level
- Show/hide audio waveform and fade control points

To save your track settings:

1. Make adjustments to the tracks until you are satisfied with the settings.
2. Select **Window | Save Track Configurations.**

Each new timeline uses these settings.




Changing the Editing Mode

The Timeline has three editing modes — Overwrite mode (the default), Splice mode, and Fit to Fill, a special mode for creating motion effect clips.

For the first edit and for adding one clip after another, you can use either Overwrite or Splice mode. The difference between these modes is important when you revise and fine tune your sequence, as described in the table below.

Once you use these modes to edit clips to the sequence in your Timeline, you can move clips forward or backward within the sequence or use the Trim tool to trim transitions or to produce split edits.

The Aurora Edit editing modes are:

Tool	Icon	Keyboard Key	Description
Overwrite		F9	Replaces existing sections of a sequence with new material, leaving the sequence duration unchanged. Similar to an insert edit in a tape-based system.
Splice		F10	Splices a clip between two existing clips in the Timeline by moving the two clips apart and inserting the new clip between. All clips after the edit point move downstream and lengthen the sequence.
Fit To Fill		F11	Fits a clip into a duration you specify in the Timeline.

Using Quick Edit Mode

Quick Edit mode switches you to the Source Tool after an edit to the Timeline, which is good if you prefer to lay down all of your edits and then go back and review your sequence.

To use Quick Edit:



1. Press **2** to select the Source tool.



2. Click the **Quick Edit** button.

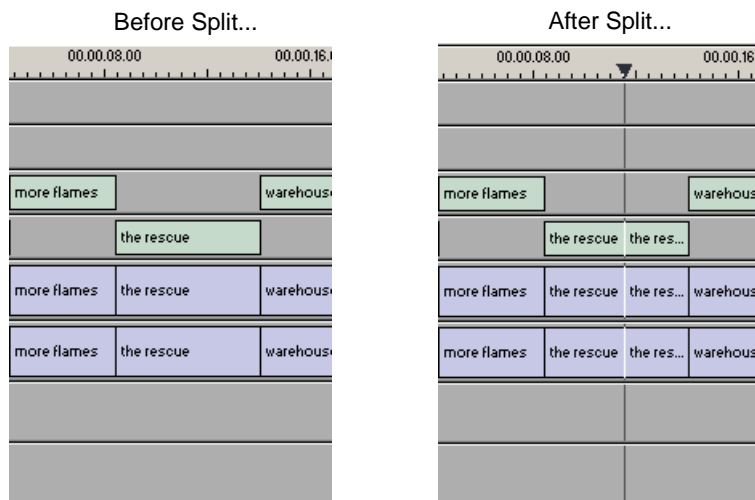
You are now in Quick Edit mode.

To stop Quick Editing, click the Quick Edit button again.



Splitting Clips

You can split an existing clip into two clips. For example, you can insert new material between two split sections or split a clip and remove a piece to tighten the sequence.



To split a clip:

1. Press **1** on the keyboard to choose the Timeline Tool.
2. Drag the cursor to the spot where you want to split the clip.

You can also use the **A**, **S**, **D**, and **F** keys to find the split point.



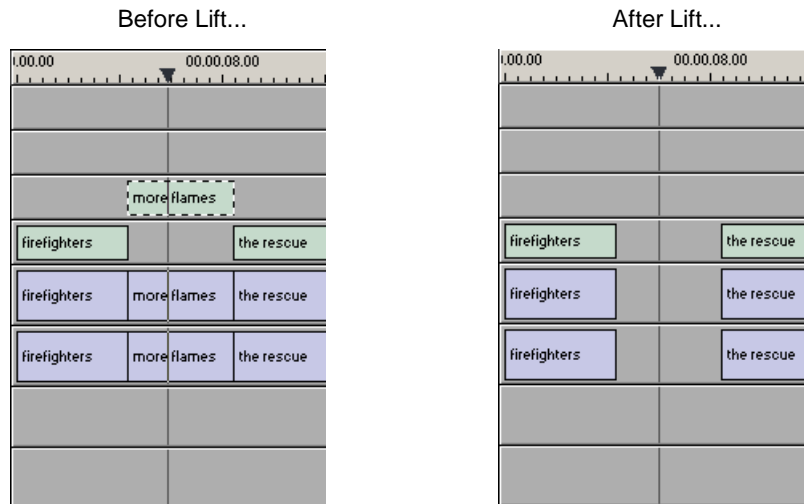
3. Press **** on the keyboard or click the **Split Clip** button on the Timeline toolbar.

The clip splits in two.

To split only one of the tracks (for example, split the Video track and leave A1 and A2 intact), deselect the track button at the left of the Timeline for tracks you want to be unaffected by the split.

Lifting Clips From the Timeline

You can lift a clip out of a sequence to replace it, or remove a piece of a clip from a sequence after splitting it. Black or silence replaces the lifted portion.



To lift a clip:



1. Press **1** on your keyboard to choose the Timeline Tool.
2. Click once on the clip you want to lift.
3. Press **J** on the keyboard or click the **Lift Clip** button on the Timeline toolbar.



The clip disappears from the sequence.

To fill in the gap created by lifting a clip:

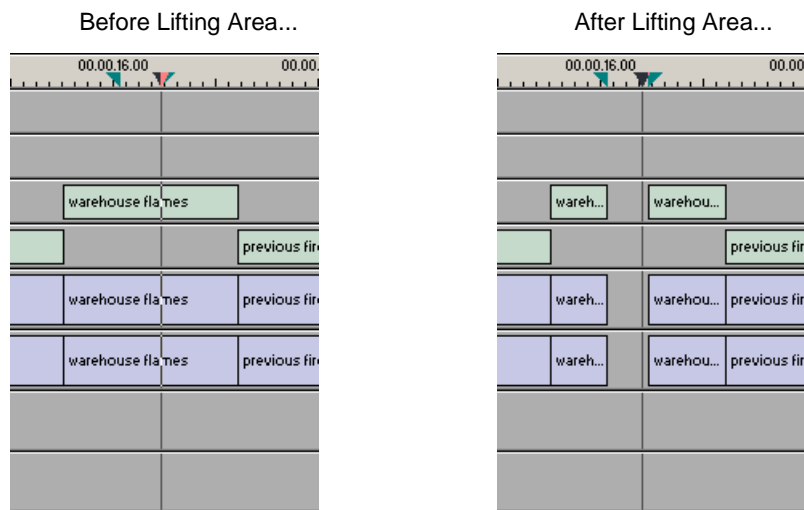
- Select the first clip after the gap and press **0** on the keyboard or select **Collapse Sequence** from the Command menu.

The hole to the left of the selected clip closes. You can also use the **Delete** key to completely remove the clip and close the gap in a single step.



Chapter 7 *Fine Tuning and Advanced Editing*

You can also lift an area of the sequence that includes parts of adjoining clips.



To lift an area:



1. Press **1** if you are not already in the Timeline Tool.
2. Select the area to lift by marking an In and an Out point.
3. Press **Ctrl + J** on the keyboard or hold down the **Ctrl** key while clicking the **Lift Clip** button.

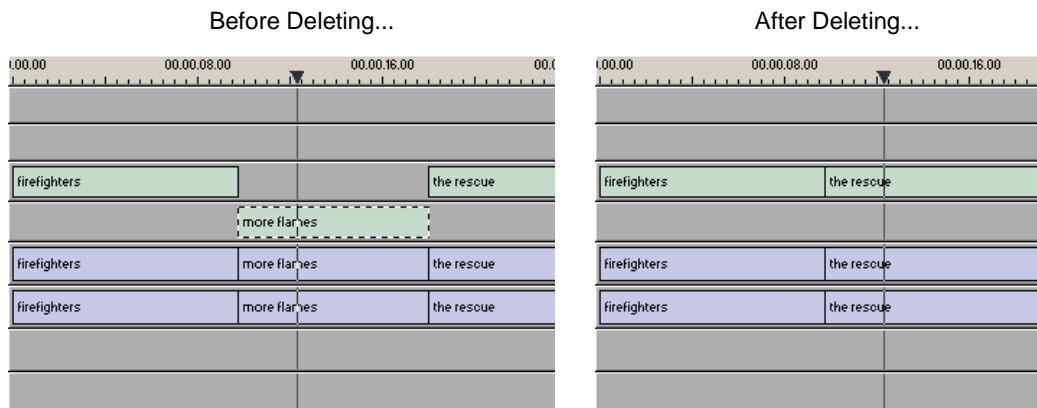


You can also right-mouse click in the Timeline and select **Lift Area**.

Deleting a Clip from Your Sequence

Instead of lifting a clip from the Timeline you can delete a clip and close the gap between the remaining clips in the sequence.

Before deleting an individual track on a clip, be sure to deselect the tracks you don't want to delete by clicking their track indicators on the Timeline.



To delete a clip:

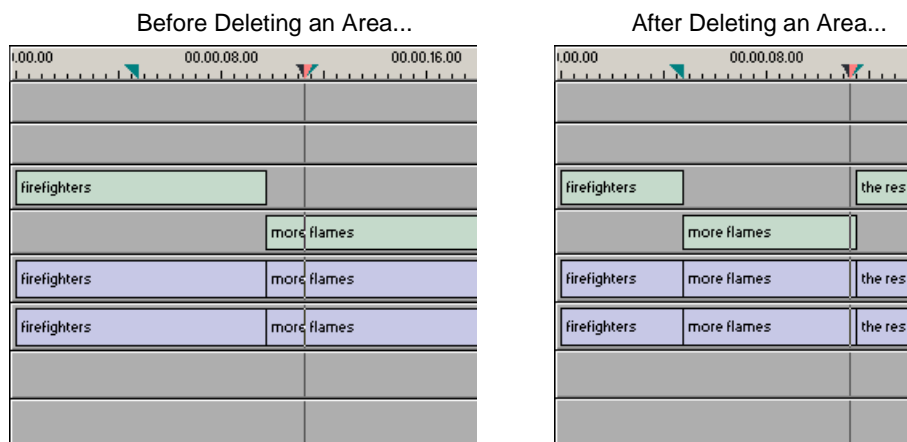
1. Press **1** on your keyboard to choose the Timeline Tool.
2. Select the clip in the Timeline that you want to delete. Press the **Ctrl** key to select multiple clips.
3. Press **Delete** on your keyboard.

The clip disappears from the Timeline.



Chapter 7 *Fine Tuning and Advanced Editing*

You can also delete an area of the sequence, which can include parts of adjoining clips.



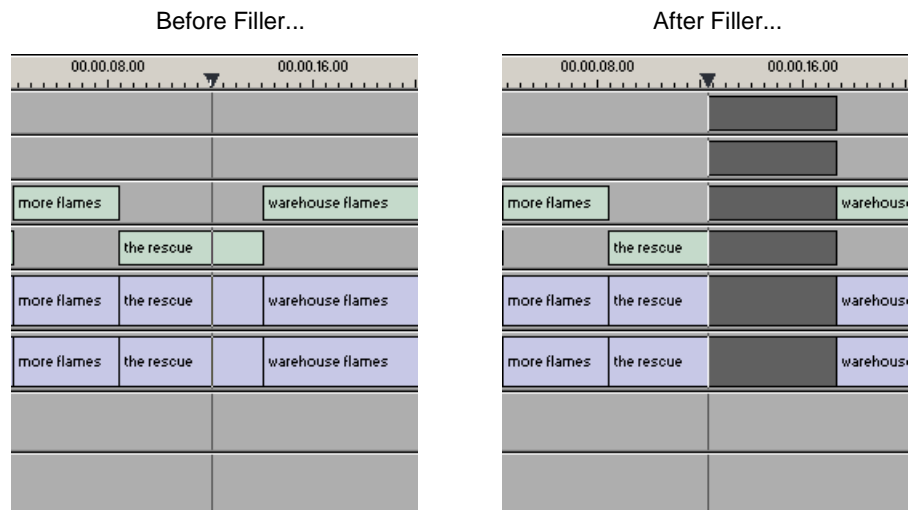
To delete an area:

1. Press **1** on your keyboard to choose the Timeline Tool.
2. Select the area to delete by marking an In and an Out point.
3. Press **Ctrl + Delete** on the keyboard or hold down the **Ctrl** key while clicking the **Delete** button.

You can also right-click in the Timeline and choose **Delete Area**.

Inserting Filler Between Clips

With Aurora Edit, you use filler to place a gap between two shots or to create a dip to silence in the sequence. You can also use filler to serve as a placeholder for late-arriving material. Inserting filler is both track and edit mode specific.



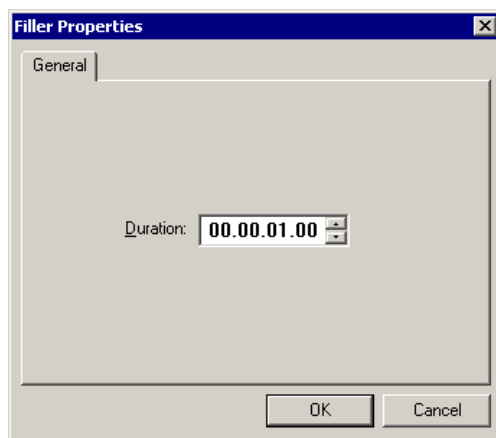
To insert filler:

1. Press **1** on your keyboard to choose the Timeline Tool.
2. Click once on the clip at the filler start point.
3. Right-click and select **Insert Filler**.



Chapter 7 *Fine Tuning and Advanced Editing*

The Filler Properties window appears:



4. Enter a Duration for the filler and click **OK**.

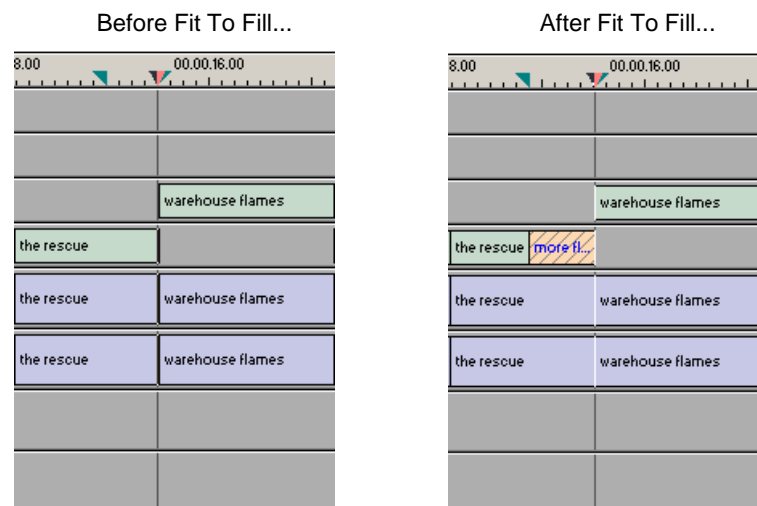
The Timeline updates with the filler inserted into the sequence.

NOTE: You can also insert filler between **Mark In** and **Mark Out** points on all tracks that are active. You cannot add a transition effect between a clip and filler.

Creating a Fit To Fill

You can create a Fit To Fill between sequence clips. When you use Fit To Fill, Aurora Edit compares the marked source clip's duration to the target duration you mark in the Timeline and adjusts the clip speed to match the target duration.

Fit To Fill only works with a clip that already exists in your Bin.



To create a Fit To Fill:



1. Press **9** on the keyboard or click the **Fit to Fill** button in the Timeline toolbar.
2. Mark In and Out points in the Timeline for the area to be filled.
 - To Mark In, move the cursor to the desired clip beginning and press **I** on the keyboard.
 - To Mark Out, move the cursor to the desired clip end and press **O** on the keyboard.
3. In the Bin, double-click on the clip you are using for the fill.
The Bin Trimmer window appears.



4. Mark the selection you want to use by marking an In and Out point.
5. Press **C** on the keyboard or click the **Copy to Timeline** button.



Chapter 7 *Fine Tuning and Advanced Editing*

A new clip appears in the Timeline covering the space indicated.

6. Click **Cancel** to close the Bin Trimmer window.
7. Clear the Mark In and Mark Out points for the new clip by pressing **P** and **[** on the keyboard.
8. Play the sequence to determine if the Fit to Fill works in your sequence.
9. Turn off Fit To Fill mode.

You can also create a Fit To Fill from the Bin Source.

***NOTE:** If you have a clip in the Bin that's trimmed the way you want it, you can drag it to the Timeline while in Fit To Fill mode to automatically fill the area between the Mark In and Mark Out points.*

***TIP—**You can create a freeze frame by setting the In and Out points to the same position.*

Adding a Freeze Frame To Your Sequence

You can create a freeze frame to use in a sequence; you might typically use a freeze frame at the end of a clip to hold the image.

To add a freeze frame to a sequence:

1. Select a clip.
2. Move the cursor to the frame you want to freeze.
3. Press **F3** on the keyboard or right-click and choose **Match Frame to Bin**.

The viewing monitor displays the frame from the source. See “Using Match Frame” on page 159 for more information.

4. Mark an In point where you want the frame to occur.
5. Click **Enable variable speed controls** and select **0**.
6. Press **F12** to start recording.



7. Press the **spacebar** to stop recording when you have enough media.

The freeze frame appears as a new clip with an unrendered image.

You can also create a freeze frame by setting the play speed of a clip already on the Timeline to zero. The system uses the Mark In point as the freeze frame.

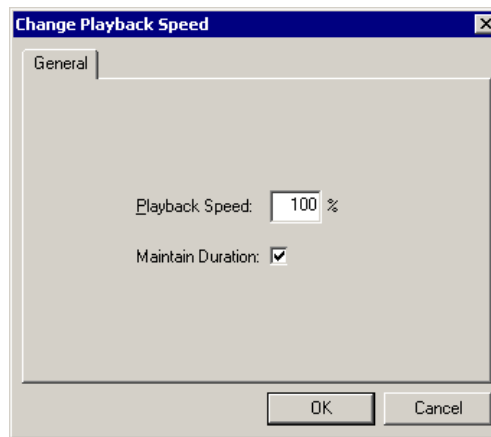
Varying the Speed of a Clip

You can vary the clip speed to create slow or fast motion effects in a sequence.

To vary the speed of a clip:

1. Click once on the clip you want to change.
2. Right-click on the video track for the clip and choose **Play Speed**.

The Change Playback Speed window appears:



3. Enter a new speed percentage for the clip.
4. To keep the clip duration constant, check the **Maintain Duration** checkbox.
5. Click **OK**.

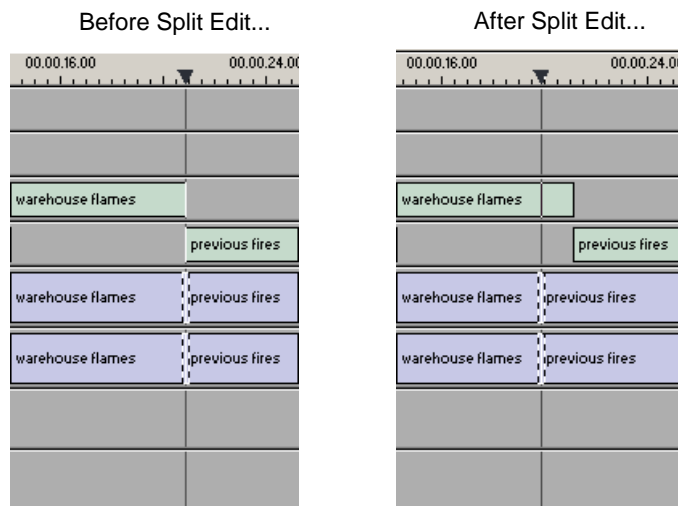
The play speed of the clip changes.

To check a clip's play speed, right-click on the clip and choose **Play Speed**.



Creating Split Edits

The Cut Point Edit Tool provides a way to create split edits, which allow you to trim one track without affecting other tracks. Split edits are useful if you want to have the audio track start before the video track or extend past the video.



To create a split edit:



1. Press **4** to select the Cut Point Edit Tool.
2. Deselect any tracks you don't want to split off.
For example, to split off the video track, deselect the audio tracks.
To deselect a track, click once in the track indicator on the Timeline.
3. Click the **Trim Both** button.
4. Trim the cut points as described in "Changing Cut Points" on page 136.
The Timeline updates to reflect the split.



Using Control Track

Control track lets you see the actual count of a clip or piece of tape instead of using timecode. Control track is available in the Timeline and Source Tools.

To use control track:



- Click the **Control Track** button.

The timecode field changes and the text becomes yellow. To switch back to viewing the timecode, click the Control Track button again.

To reset the control track to zero:



- Click the **Reset Control Track** button while in Control Track mode.

Using Match Frame

Aurora Edit can match frames on the Timeline with the input source. Use Match Frame if you need to add more material at the beginning or end of a clip.

You can Match Frame to either the Bin or Source.

Match Frame to Bin

Match Frame to Bin finds a frame you select from the Timeline and loads it in as a clip source.

To match frame to the Bin:

1. Select a clip on the Timeline.
2. Select the frame you want to match.
3. Press **F3** on the keyboard.

Aurora Edit finds the frame on the clip and loads it as a clip source.



Match Frame to Source

Match Frame to Source finds a frame you select from a Timeline import source and loads it into the Source Tool, using that frame as the Mark In point.

To match frame to the Source:

1. Select a clip on the Timeline.
2. Select the frame you want to match.
3. Press **F4** on the keyboard.

Aurora Edit finds the frame on the source and loads it into the Source Tool as a new Mark In point.

4. To view the frame source, press **F7**.

To use this footage in a clip, press **F12** to record to the Timeline.

Working with Apple Final Cut Pro

Aurora Edit allows you to work with Apple's Final Cut Pro video editing application. You can also export a sequence as an XML EDL, which can be imported into Final Cut Pro for additional editing.

Converting Existing Aurora Edit Files to .mov Format

Any clip on a Network Attached Storage (NAS) System automatically includes a .mov file as one of its components. This allows you to bring an Aurora Edit sequence into Final Cut Pro for additional editing.

You can convert previously created files to .mov format:

1. Go to **C: | Program Files | Grass Valley | Aurora Edit** and select **MediaServicesTestApp**.
2. Choose **Utility | Create MOV from VMF**.
3. Enter the name of the database server where you want to convert the files and click **OK**.
4. Select the bin that you'd like to convert and click **OK**.

The files begin converting. This process may take a while, depending on how many files you are converting.

Exporting an Aurora Edit Sequence as a Final Cut Pro EDL

You can export a sequence from Aurora Edit to a Final Cut Pro machine when both machines are part of a Network Attached Storage (NAS) system. This allows for quick editing of a sequence on Aurora Edit and then transferring the unfinished piece to Final Cut Pro for additional editing.

Files are transferred using Aurora Edit's XML EDL format and Apple's XML Interchange format. These components of the Aurora Edit sequence are transferred:

- Clips
- Rendered effects and titles
- Dissolves (other wipes are converted to a dissolve)
- Varispeed
- Fit to Fill



Chapter 7 *Fine Tuning and Advanced Editing*

- Audio voice disguise (but not EQ)

To export a sequence to Final Cut Pro:

1. Highlight the sequence in the Bin you want to export.
2. Choose **File | Export | Final Cut Pro EDL**.
3. Navigate to the folder where you want to export the EDL.
4. Enter a name for the file and click **Save**.

You can now import the file using Apple's Final Cut Pro application.

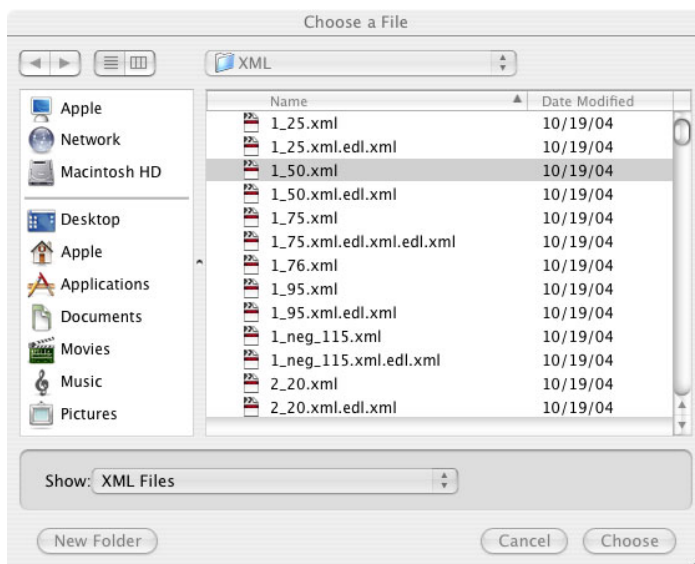
Importing an Aurora Edit Sequence on Final Cut Pro

You can import an XML EDL from Aurora Edit into Final Cut Pro, which allows you to perform additional editing.

To import an XML:

1. In Final Cut Pro, select **File | Import | XML**.

The Choose a File window appears:



Opening an Aurora Edit Clip on Final Cut Pro

2. Navigate to the folder containing the XML file you want, select the file, and click **Choose**.

The file is imported into Final Cut Pro.

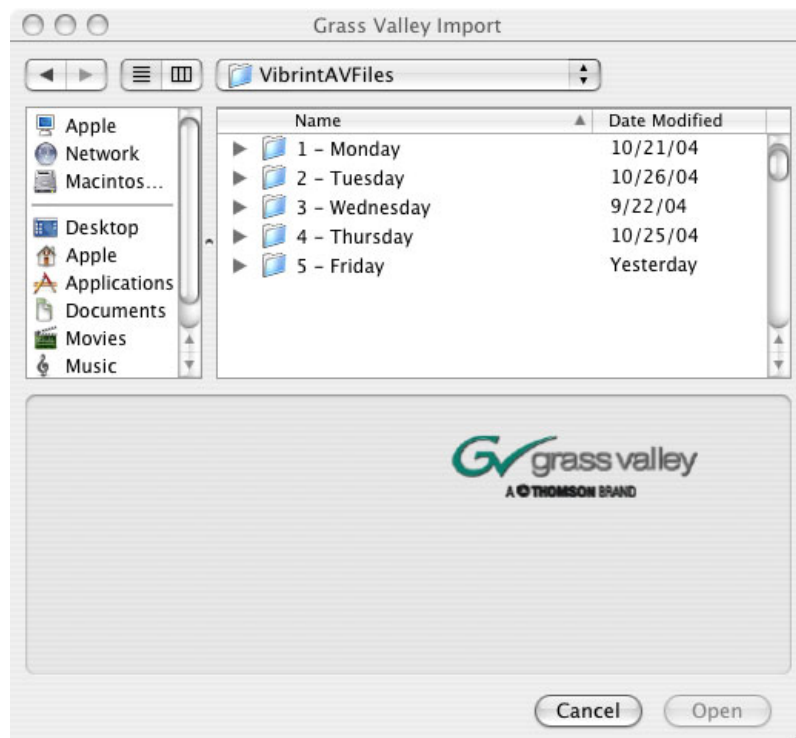
Opening an Aurora Edit Clip on Final Cut Pro

You can also open an Aurora Edit clip on Final Cut Pro instead of importing the entire sequence.

To open an Aurora Edit clip:

1. In Final Cut Pro, select **File | Open Grass Valley**.

The Grass Valley Import window appears:



2. Select the clip and click **Open**.

The clip opens in Final Cut Pro and is available for editing.



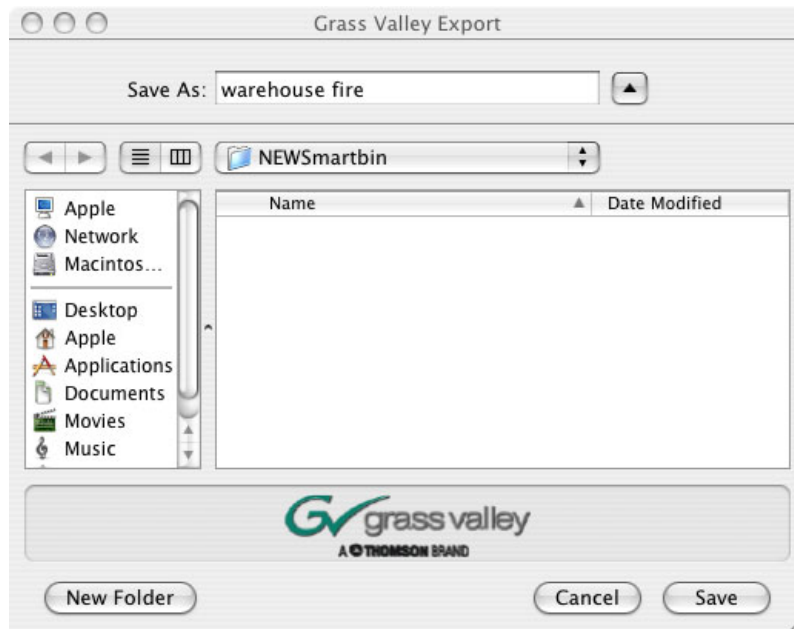
Exporting a Final Cut Pro File

Once you are finished editing a clip in Final Cut Pro, you can export it in a format that Aurora Edit recognizes. This allows you to playout the clip/sequence using a Grass Valley DNP product.

To export a Final Cut Pro file:

1. In Final Cut Pro, select **File | Export | Export to Grass Valley**.

The Grass Valley Export window appears:



2. Enter a name for the file in the Save As field.
3. Select a location for the file.
4. Click **Save**.

The file is converted from a .mov file into an Aurora Edit clip.

Adding Transitions to Your Sequences

Aurora Edit lets you create a variety of transitions between clips in your sequence. Adding transitions to your sequences can add visual interest, avoid a bad edit between two shots, or slow a change between two shots for a pacing effect.

Video transition effects include dissolves, wipes, SMPTE wipes, pushes, slides, and fades. You can also create crossfades on the audio tracks in your sequence.

This chapter discusses how to:

- Use the Transition Tool
- Add transitions between edit points
- Work with different transition types
- Add audio crossfades to your clips



Using the Transition Tool

To create transitions or audio crossfades, you use the Transition Tool.



To select the Transition Tool, press **5** on your keyboard or click the **Transition Tool** button in the Timeline Toolbar.



Select type of transition

Changes the parameters of a transition

Applies a transition to all cutpoints within a marked area

Determines if an audio crossfade is added automatically to a transition

Reverses the direction of some transitions

Changes the color of a wipe border

Adding Transitions to Your Sequences

You add transitions between clips in your sequence. You need to have handles on your clips in order to apply a transition.

When you create a transition, Aurora Edit places it on the Timeline as an unrendered effect. Before you send the sequence to another video server, you need to render all effects.

Creating a Transition

You create each of the seven kinds of transitions in the same way.

To create a transition:

1. Press **5** on your keyboard to select the Transition Tool.

The Transition window appears:

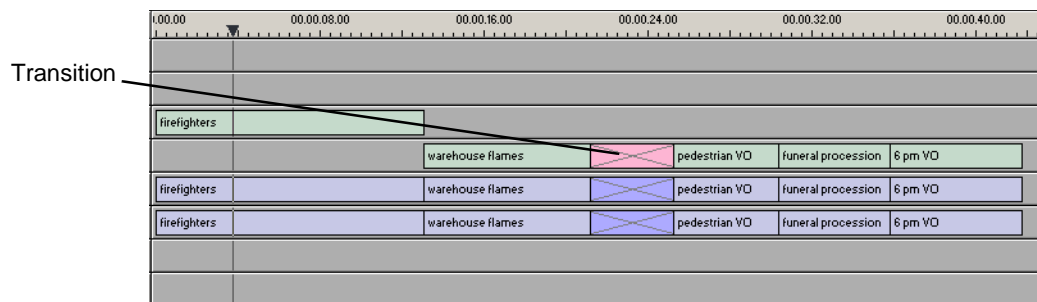


2. Click on the transition type and then on the icon for the effect you want.
3. In the Settings area, choose the **Position** of the transition from these choices:
 - **Centered** — Centers the transition across the cut point (default).



Chapter 8 Adding Transitions to Your Sequences

- **End at Cut** — Ends the transition at the cut point between clips.
 - **Start at Cut** — Starts the transition at the cut point between clips.
 - **Custom** — Sets the position by typing it in the Cut Point field. If you don't have enough handle material to complete the custom position you set, Aurora Edit completes as much of the positioning as it can.
4. Enter the **Duration** of the transition.
The default duration is 15 frames.
 5. Move the mouse over the cut point between the two clips.
The cursor turns into a red X.
 6. Click the mouse once to place the effect.
The transition appears on the Timeline as a pink box with diagonal lines in it, indicating the transition is unrendered.



When you play the sequence in the Timeline, you see the transitions in the Video window.

Changing Transitions

You can change a transition from one type to another or change the properties of the transition.

To change a transition:

1. Click once to select the transition on the Timeline.

A red and green dotted border appears around the transition indicating its properties are displayed in the Transition Tool.

You can select multiple transitions (by pressing **Ctrl +** clicking on each transition) and apply changes to all of the transitions at once. If you have more than one transition selected, the red and green dotted border appears only around the transition for which the properties are displayed.

2. Make any changes—type of transition, type of effect, transition position, duration, or border.
3. Click **Apply**.

The new transition replaces the old one on the Timeline.

NOTE: *Double-clicking on a transition in the Timeline from any tool selects the Transition Tool and shows the transition's properties.*

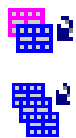
Rendering Transitions

When you create a transition over two clips, Aurora Edit places it on the Timeline as an unrendered object. Before you send the sequence to another video server, you need to render each of the transitions.

You can render a transition anytime after creating it, and you can render a selected transition or all transitions in your sequence.

To render a single transition:

1. Double-click once in the Timeline to select the transition.
2. Click **Render** on the Main Toolbar.



To render all transitions, click **Render All** on the Main Toolbar. A window appears, showing the rendering progress.



Creating Transitions For an Area of the Sequence

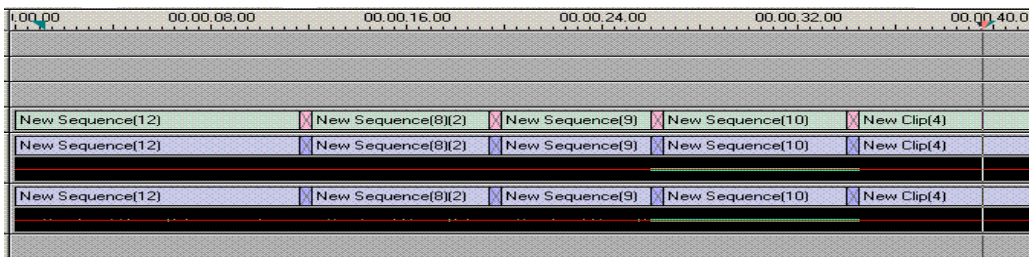
You can create a transition on several cutpoints at once by defining an area of your sequence. The type of transition you select applies to all cutpoints on all active tracks within the defined area.

Applying transitions to a defined area of your sequence does not override any existing transitions you already have in your sequence; these transitions remain unchanged.

By default, Aurora Edit applies the transitions to all active tracks on the Timeline; including the audio tracks, even if the Auto-Audio Crossfade button is off. If you want a transition to apply to the video tracks only, deselect all of the audio tracks in the sequence.

To create transitions for an area of your sequence:

1. Define the area where you want to apply transitions with a Mark In and Mark Out point.
2. Define the transition you want to apply to all cutpoints within the marked area (refer to steps 2-4 of “Creating a Transition” on page 167 for instructions).
3. Click **Transition All**.



Transitions appear at all cutpoints within the marked area.

Deleting Transitions

Sometimes you need to delete a transition on the Timeline.

To delete a transition:

1. Click on the transition to select it.

To delete several transitions at once, hold down the **Ctrl** key on the keyboard, then click on each transition you need to delete.

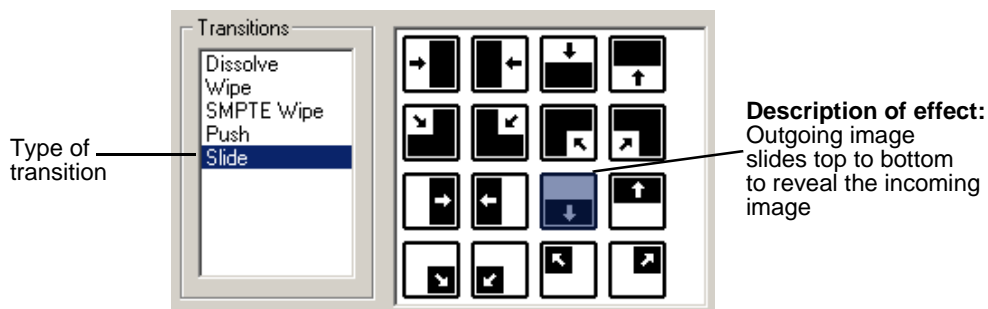
2. Press **Delete** on the keyboard.

The transition disappears from the Timeline.

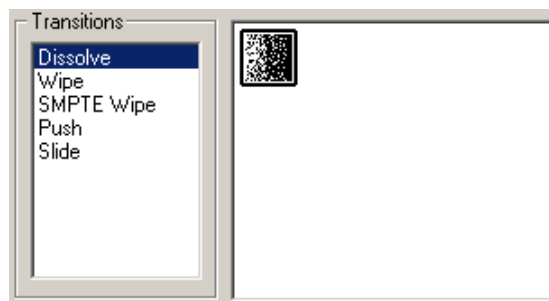


Understanding Transition Types

Aurora Edit has five types of transitions—dissolves, wipes, SMPTE wipes, pushes, and slides. To read a description of each transition, double-click its effect icon in the Transition Tool.



Dissolves

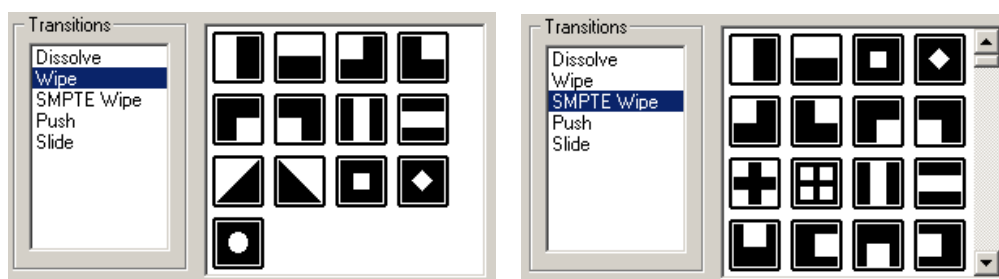


A dissolve fades the existing image as the new image becomes visible in its place. You cannot specify the direction or kind of dissolve.

You can create fades using the Dissolve transition. A fade is the gradual appearance of a new picture from black (fade-in) or the gradual disappearance of a picture to black (fade-out).

To gradually fade the video in, place a dissolve transition at the beginning of a sequence. To fade the video off the screen, place a dissolve transition at the end of the sequence.

Wipes



A wipe moves a new image over an old image. SMPTE wipes are industry standard wipe patterns, and include more complex directional wipes, shape wipes, clock wipes, and matrix wipes.

Reversing a Wipe



To reverse the direction of a wipe, click the **Reverse** button in the Transition Tool and create the transition as described in “Adding Transitions to Your Sequences” on page 167.

Adding a Border

With Aurora Edit, you can add a border to any wipe or SMPTE wipe. You can use the default settings or change these settings to customize your border.

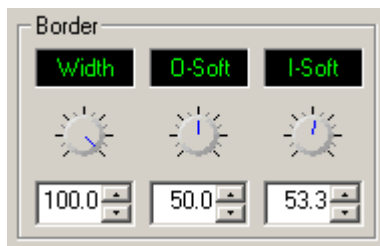
You can adjust these parameters:

Option	Definition	Range	Description
Width	Increases or decreases the size of the border.	0-100	0 is no border and 100 is the full border width available.
O-Soft	Softens the leading edge of the wipe.	0-100	0 is no softness and 100 is the full softness available for the outside region of the border.
I-Soft	Softens the trailing edge of the wipe.	0-100	0 is no softness and 100 is the full softness available for the inside region of the border.

You adjust the border width and softness using the dials on the Transition Tool.



Chapter 8 Adding Transitions to Your Sequences



The best way to adjust a dial is:

- Click on the dial you want to adjust and move it to the right to increase the value or to the left to decrease the value.

You can see the size and softness change in the Viewing Window.

You can also adjust the parameters by typing a value in the box below the dial or clicking the up and down spinners beside the value box.

To reset a dial to 0, double-click the dial.

Changing the Border Color

You can also change the color of the wipe border to match a specific color scheme for your station or to provide more visual contrast in a clip. The default color for a border is white.

To change the color of a border:



1. Click the **Change Color** button on the Transition Tool.

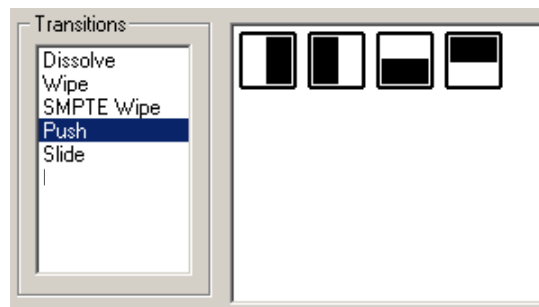
The Color window appears.

2. Click on the new border color and click **OK**.

The box beside the Change Color button displays the new border color.

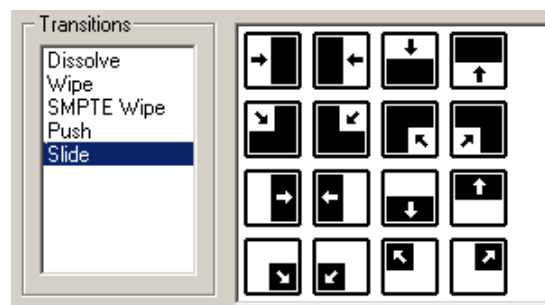
NOTE: *Border color is only visible if the Border Width is set to a value greater than zero.*

Pushes



A push moves the second image in the direction chosen onto the screen, looking like the first image is “pushed” out of the way.

Slides



A slide moves either the old image or the new image. The old image moves to reveal the new image or the new image moves to conceal the old image.

A black arrow indicates the direction and path the second image takes moving into the frame. A white arrow indicates a reverse slide, where the first image slides to reveal the second image.



Adding Audio Crossfades

If you want to soften the transition between two audio clips, you can add an audio crossfade. Aurora Edit lets you create audio crossfades between any two edit points in your sequence. Apply crossfades to only the audio tracks in a clip or with each video transition you create.

Applying Crossfades to the Audio Tracks Only

You can apply the audio crossfade to just the audio tracks in your clip.

To create an audio crossfade:

1. Press **5** on the keyboard to select the Transition Tool.
2. Move the mouse over the cut point between the two audio clips where you want to place the transition.

The cursor turns into a red X.

3. Click the mouse once on the audio track to place the effect.

The audio crossfade appears on the Timeline as a blue box with an X in it. Audio crossfades do not have to be rendered.

Applying Crossfades Automatically With Transitions

You can also have Aurora Edit apply an audio crossfade each time you add a video transition effect between edit points.

To create an Audio Crossfade automatically:

1. Press **5** on the keyboard to select the Transition Tool.
2. Click the **Auto-Apply Crossfade** button.



Each time you apply a video transition, an audio crossfade occurs on the audio tracks at the same point. The audio crossfade uses the same settings you are using for the video transitions; position, duration, and cut point.

You can also adjust the settings for the audio crossfade separately from the video transition if desired. Click to highlight the transitions for crossfading, whether all or some of the audio tracks.

Adding and Adjusting Audio

Aurora Edit allows you to adjust many aspects of the audio tracks in your sequence and add additional audio tracks to your sequence.

While Aurora Edit can only record four audio tracks, you can edit up to eight tracks. The Audio Mixer Tool adjusts levels and pan controls for individual tracks in a sequence or for entire clips. You can also connect an external mixer to Aurora Edit; see the *Aurora Suite Installation and Configuration Guide* or your administrator for instructions.

This chapter discusses how to:

- Use the Audio Mixer Tool
- Change audio levels in a clip
- Monitor audio tracks
- Adjust audio gain
- Ride audio on the fly
- Crossfade audio
- Add narration to the Timeline

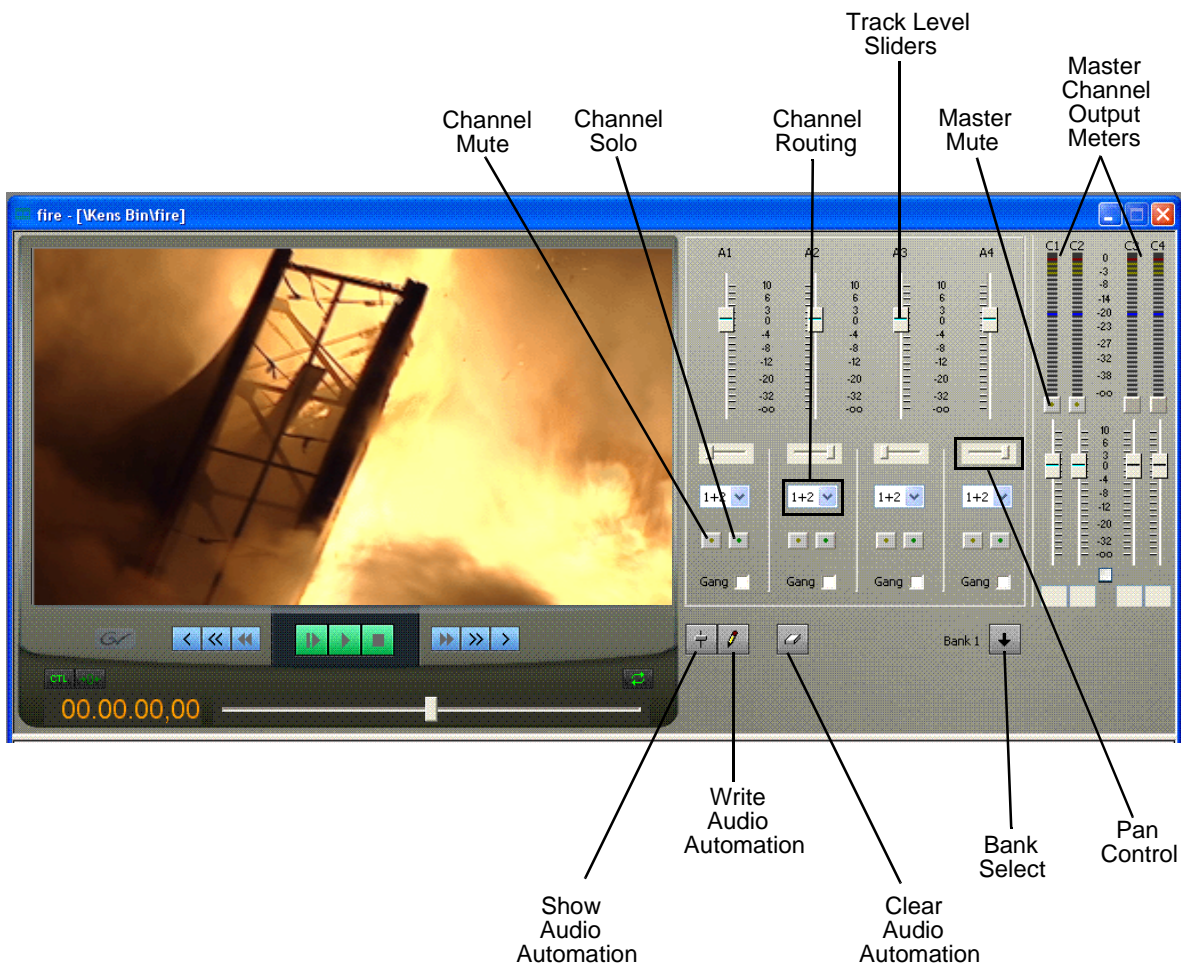


Using the Audio Mixer Tool

To edit audio, use the Audio Mixer Tool.



To select the Audio Mixer Tool, press **6** on your keyboard or click the **Audio Mixer Tool** button in the Timeline Toolbar.



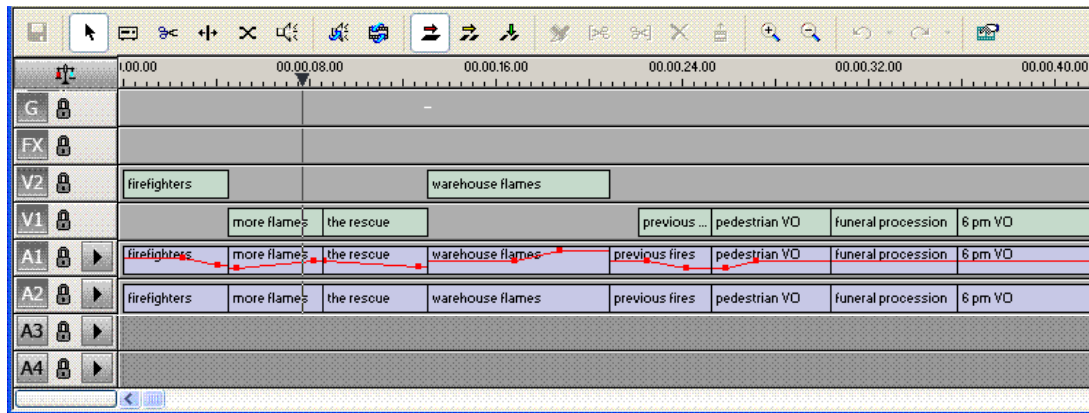
Adjusting Audio Levels

You can adjust the audio levels within a clip by adding and manipulating fade control points in the Timeline, which is known as rubber banding. You can also view the audio waveform for a sequence, providing a visual indication of audio levels.

Viewing Audio Levels on the Timeline

You view audio levels in the Aurora Edit tool in different ways:

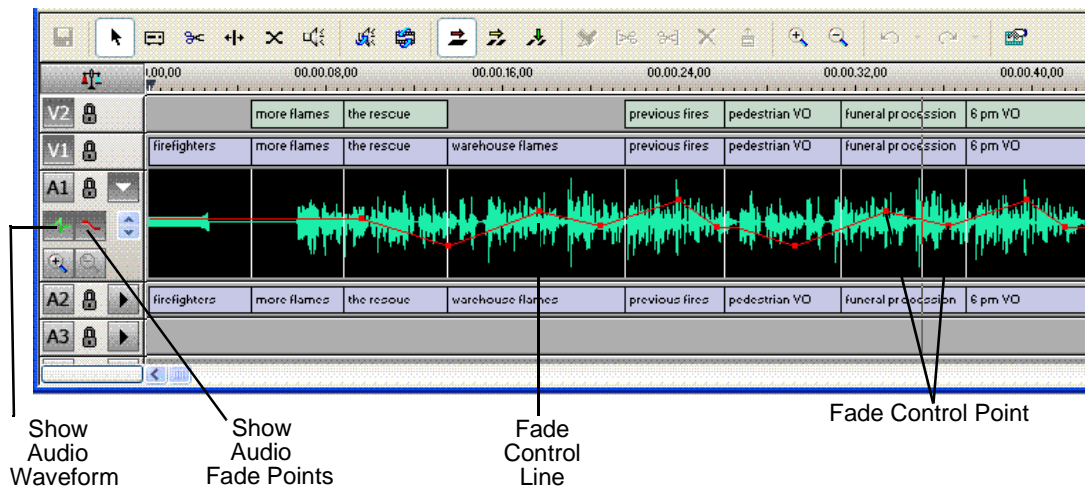
- In the Audio Mixer Tool, the fade control line is always visible, whether the audio track is expanded or not.



- In each of the Aurora Edit tools:
 - You can view audio levels at any time by clicking the **Expand Track** button next to the audio track you want to view.



Chapter 9 Adding and Adjusting Audio



- Click **Show Audio Fade Control Points** to show the points anytime the audio track is expanded.



- Click **Show Audio Waveform** to show the waveform for the sequence in the expanded track.



- Click the up arrow on the **Change Track Height** button to shrink the track height or click the down arrow to expand the height of the track.



- Click the **Zoom In Waveform Vertically** button to increase the waveform amplitude as shown on the audio track or click the **Zoom Out Waveform Vertically** button to decrease the waveform amplitude.

Changing Audio Levels in a Clip

To change the audio level in a clip:

1. Expand the audio track to reveal the fade control line.
2. To adjust the audio level in a clip, do one of the following:
 - To adjust a specific point in a clip, click on the red line to create a fade control point. Using the fade control point as a pivot, click on another point in the audio track and drag the red line to raise or lower the level.

Changing Audio Levels in a Clip

- To raise the sound level for the entire track in a clip, click the fade control line and drag it up in the track. If fade control points exist, you need to click on a point before raising the level.
- To lower the sound level, click the fade control line and drag it down.
- To raise or lower the sound level for the entire track in a clip while preserving the positions of the existing fade control points, press the **ALT** key, click one of the fade control points, and while holding down the left mouse button, drag the fade control point up or down. Release the mouse button while still holding the **ALT** key.

If your audio levels are still too low or too high after adjusting the fade control line to its maximum or minimum value, you can make further adjustments by changing the audio gain. See “Adjusting Audio Gain” on page 188.



Removing Fade Control Points

To remove a fade control point, press **Ctrl + click** on the fade control point. Notice that the cursor changes to a red hand, allowing you to click and remove the control point.

To remove all of the fade control points, right-click within the audio clip and select **Clear Fade Control Points**.

You can also remove an area of fade control points:

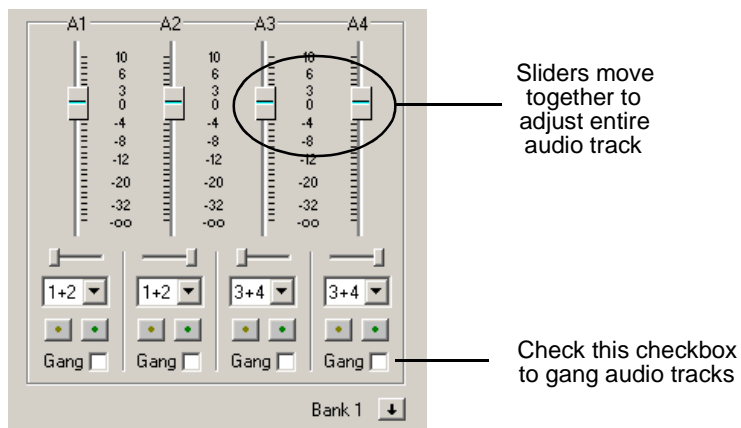
1. Set a Mark In and Mark Out point to indicate the section of fade control points to remove.
2. Right-click on the audio track and select **Clear Fade Control Points Area**.
All fade control points between the Mark Points, on active tracks, are deleted.

Ganging and Adjusting Multiple Audio Tracks

Instead of adjusting multiple audio tracks individually, you can gang and adjust multiple tracks at the same time.

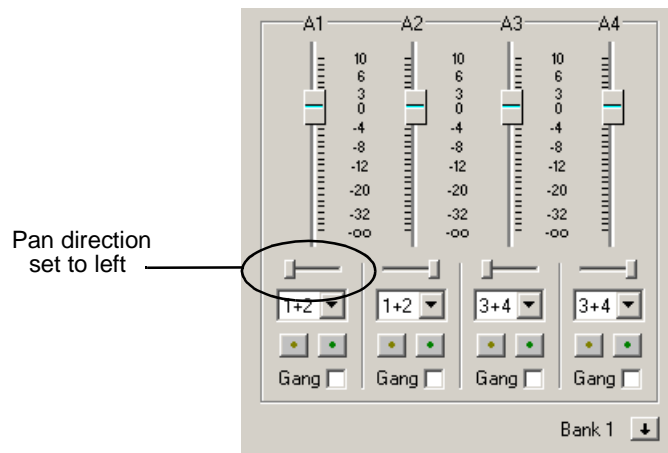
To adjust multiple audio tracks:

1. In the Audio Mixer Tool, check the **Gang** checkbox for each track you want to adjust.
2. Move the slider up or down to set the track volumes.



Setting the Pan Control

The pan control adjusts sound location. By default, odd-numbered channels pan to the left and even-numbered channels pan to the right.



Changing the pan direction affects the entire track in a sequence.

To change the pan direction:

- Drag the pan slider for an audio channel to the right or left position.

To set the pan direction to center, press **Alt + click** on the pan slider.



Monitoring Audio Tracks

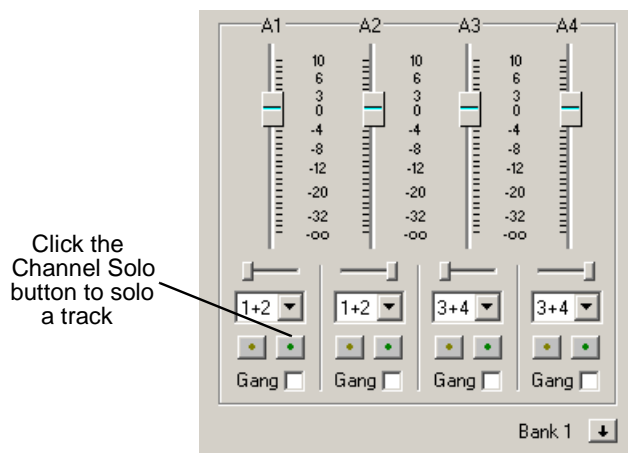
By default, Aurora Edit monitors all audio tracks in a sequence. However, you can specify the tracks to monitor using the Solo and Mute buttons.

Soloing a Track

When you Solo a track, all other audio tracks mute until you turn off the Solo feature. You can also Solo multiple tracks if you wish.

To Solo one or more tracks:

- In the Audio Mixer Tool, click the **Channel Solo** button for each track you want to Solo.



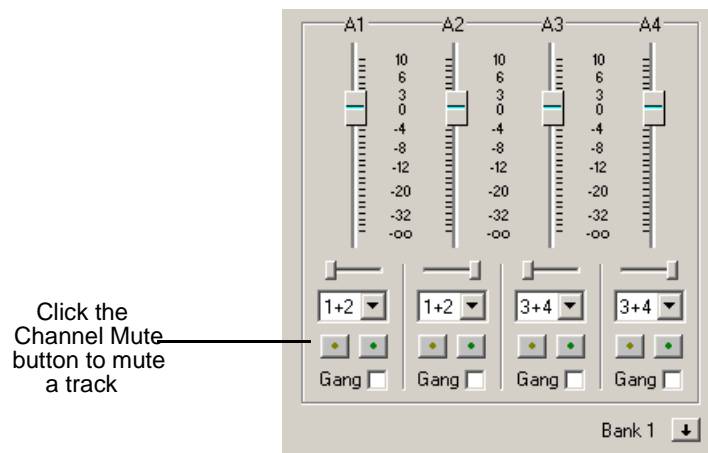
To turn off Solo, click each Channel Solo button again.

Muting a Track

Muting is the opposite of Soloing. When you Mute one or more tracks you hear only the unmuted tracks until you deactivate Muting. Muting is useful when recording voice-overs to the Timeline.

To Mute one or more tracks:

- In the Audio Mixer Tool, click the **Channel Mute** button for each track you want to mute.



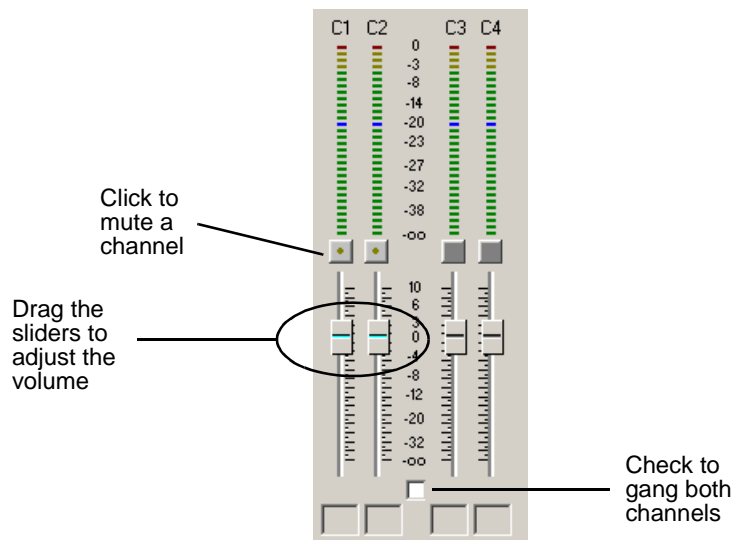
To turn off Muting, click each Channel Mute button again.



Using the Master Audio Sliders to Set Output Level

You can use the Master Audio Sliders to adjust the output level for your final sequence. When you output audio, the eight audio tracks are mixed down to four or fewer tracks. The pan direction determines how tracks are mixed.

By default, odd-numbered tracks mix to channel one and even-numbered tracks mix to channel two of your output sequence.



To use the Master Audio Sliders:

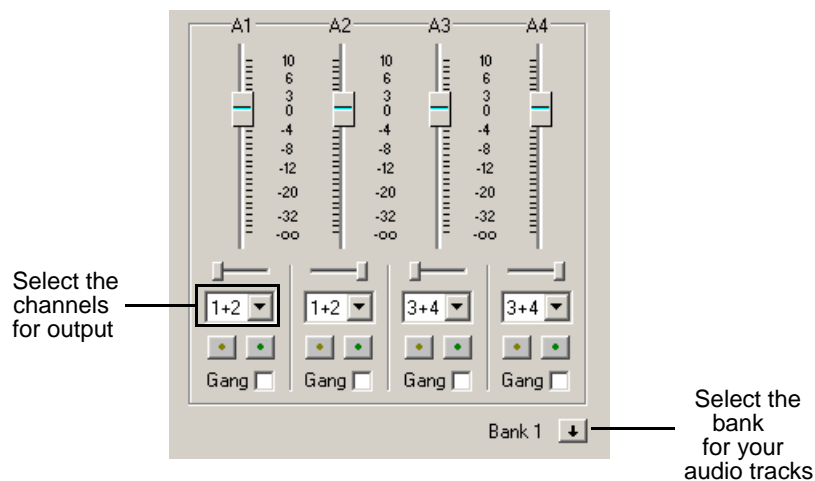
- Drag the level slider up or down for each channel to set the output volume.
Check the Master Gang box to adjust both channels simultaneously.

Channel Routing

You can select where the audio tracks of your sequence output by specifying the number of output channels and routing the channels.

For a two-channel system, the channels route by default as follows:

- If the pan control is in the left position, output routes to Channel 1.
- If the pan control is in the right position, output routes to Channel 2.
- If the pan control is in the center position, output routes to all channels



To change channel routing:

- Click the arrow next to the **Channel Routing** field for each audio track you want to change and select a new setting.

You can select from **1+2**, **3+4**, or **ALL**. If you have more than four audio tracks in your sequence, click the **Bank Select** arrow to move to Bank 2 and then make your changes for tracks A5 through A8.



Adjusting Audio Gain

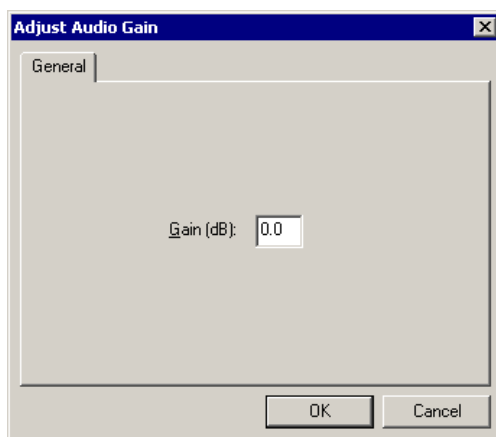
Aurora Edit lets you adjust the audio levels within a clip in your sequence. Audio may record in at levels that are too low or too high. The Audio Gain feature lets you compensate by adjusting the clip. You can adjust the audio between -41 dB and +10 dB.

To adjust an audio clip, you can use the Timeline Tool, the Trim Tool, or the Audio Mixer Tool.

To adjust the audio gain in a clip:

1. Select the clip you need to adjust.
2. Right-click in the appropriate audio track.
3. Choose **Adjust Audio Gain**.

The Adjust Audio Gain dialog box appears:



4. Enter a new value for the audio gain:
 - To lower the gain, enter a value preceded by a minus sign, such as -5.
 - To raise the gain, enter a value, such as 5.
5. Click **OK**.

The new value appears for the audio clip.

Using Audio Automation

You can use Audio Automation to adjust volume on the fly while a sequence is playing. You can then go back to adjust the fade control points for each level.

To use Audio Automation:



1. Press **6** on the keyboard to select the Audio Mixer Tool.
2. Click the **Write Audio Automation** button.
3. Click in the Timeline where you want the audio automation to start.
4. Press **spacebar** or click **Play** to play the sequence.
5. As the sequence is playing, click on the audio slider in the appropriate channel and raise or lower it.
6. When you reach the end of the sequence, press the **spacebar** to stop.

The automation appears as fade control points in the audio tracks.

Showing Audio Automation

When you play a sequence with Audio Automation, you may want to see the audio sliders moving along with the video, which show you the audio changes you made while recording.

To show Audio Automation:



- Verify that the **Show Audio Automation** button is activated in the Audio Mixer Tool.

When you play the sequence, the sliders move along with it. If you need to do any fine-tuning, you can move any of the fade control points once the sequence has stopped playing.

If you play a sequence without Show Audio Automation on, you see the fade control points from the automation, but the sliders don't move during playback.



Removing Audio Automation

You can remove an individual fade control point or all points in a sequence.

To remove a single fade control point:

- Press **Ctrl + click** on a fade control point to remove it.

The cursor changes to a red hand, allowing you to click and remove the control point.

To remove all fade control points:



- Click **Clear Audio Automation**.

All of the audio fade control points disappear.

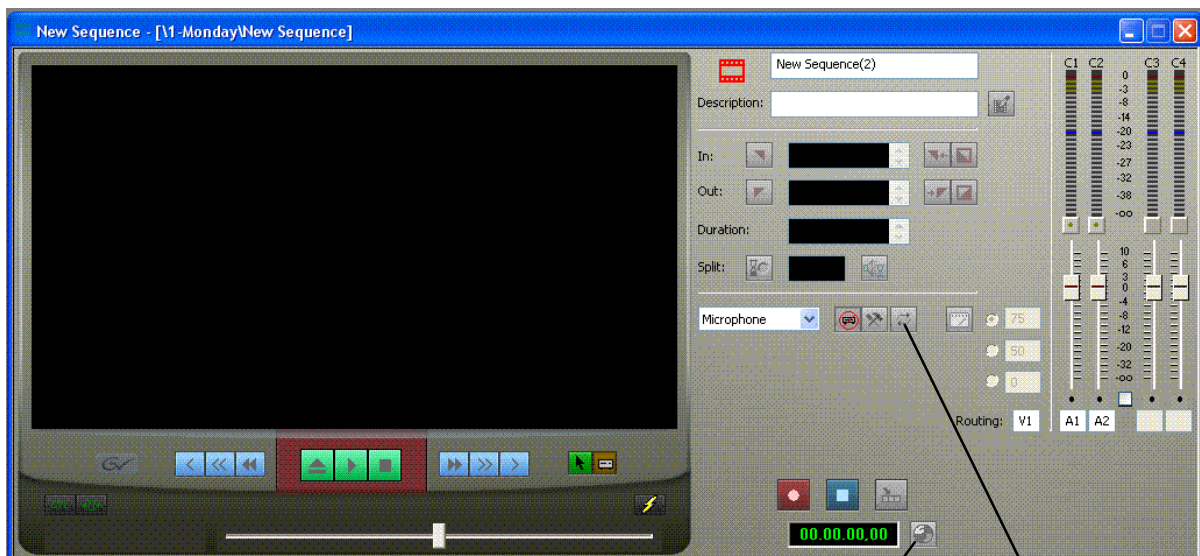
Crossfading Audio

Aurora Edit lets you create audio crossfades between any two edit points in your sequence using the Transition Tool. See “Adding Audio Crossfades” on page 176 for instructions.

Adding Audio Narration

With Aurora Edit, you can record and insert narration in your sequences by recording directly to the Timeline.

Before you can record a narration, you need to create a microphone source in Aurora Edit. See “Adding Video Sources to Aurora Edit” on page 297 for instructions.



Record Countdown

Loop Record

To add narration to the Timeline:

1. Open the sequence where you want to add the narration.
2. Select the Source Tool by pressing **2** on your keyboard or clicking the **Source Tool** button in the Timeline Toolbar.
3. If necessary, adjust the input levels to prevent overload at the input stage of the source microphone.
4. Mark an In and Out point in your sequence where you want the voiceover to record.





Chapter 9 Adding and Adjusting Audio



5. If you want to continually record over the same point until you are satisfied with the performance, click the **Loop Record** button to enable it.



6. If you want the system to display the remaining duration of the record, press the **Record Countdown** button.



7. To start recording, press **F12** on your keyboard or click the **Start Recording** button.



8. To stop recording, press the **spacebar** on your keyboard or click the **Stop Recording** button.

If you've enabled Loop Tones (see the Table on page 299 for instructions), a tone will sound at the end of each microphone recording. When the loop tones are done playing, the record starts again automatically. You can use loop tones for voiceovers directly to the Timeline in case you make a mistake and need to re-record.

Chapter **10**

Creating Audio Effects

Aurora Edit lets you create audio effects in your sequence by adjusting the audio EQ in a clip, adjusting or disguising a voice.

You can adjust the Playback EQ of a clip that has already been recorded or the input EQ of a live source. You can also disguise a voice to go along with a blur or mosaic video effect, which disguises the face of an individual.

This chapter discusses how to:

- Use the Audio Effects tool
- Equalize the audio after a sequence is recorded
- Disguise a voice in a clip



Using the Audio Effects Tool

To adjust the audio EQ or disguise a voice in a clip, use the Audio Effects Tool. You can also adjust the Input audio EQ of a live source.



To select the Audio Effects Tool, press **7** on your keyboard or click the **Audio Effects Tool** button in the Timeline Toolbar.

Adjusts the frequency and gain

Disguises a voice

Apply

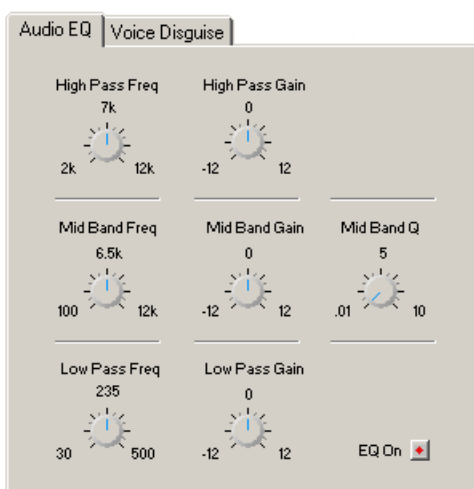
Applies your changes to the clip

Equalizing Audio in a Recorded Sequence

Using the Audio EQ tab in the Audio Effects Tool, you can boost or cut the low-end audio, adjust the mid range audio, and modify the high-end shelf. You can adjust the Audio EQ on a single clip or multiple clips in a sequence.

The Aurora Edit Audio EQ is a 3-band parametric EQ, consisting of a low-pass filter, a mid-band pass with a variable Q, and a high-pass filter.

When disguising a voice, adjusting the Audio EQ on a clip in addition greatly enhances the effect.



NOTE: Sequences with 5 or more audio tracks cannot play both playback and live EQ at the same time. During an edit, any unrendered EQ will not be heard to allow for input EQ.

To adjust the audio EQ in a clip:

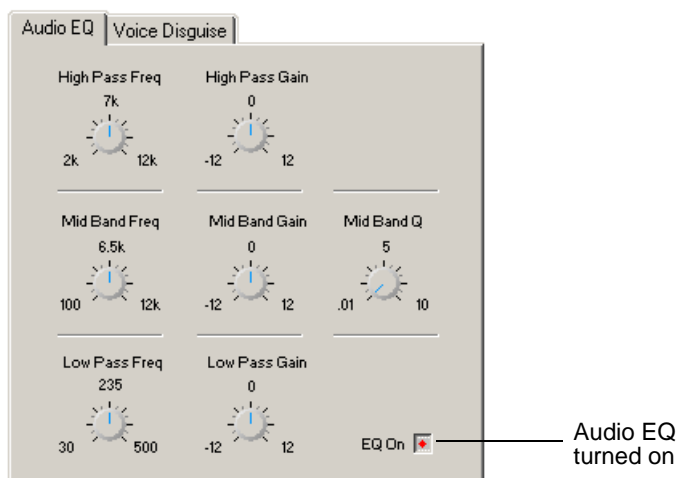


1. Press **7** on your keyboard or click the Audio Effects Tool button.
2. Select the clip you want to adjust. To select multiple clips, hold down the **Ctrl** key while clicking on clips.

The EQ turns on automatically and the button turns red.



Chapter 10 Creating Audio Effects



3. Adjust the High, Mid, and Low frequencies as needed.
A description of each adjustment follows this procedure.
4. Play back the clip to hear your changes.

NOTE: While you are playing a clip, you can toggle the EQ button on and off to compare the original and adjusted clips.

5. Make further adjustments as necessary.
6. Click **Apply** to apply your changes.

While you can hear the changes when you play back the clip, you need to render the effect before you can send it to another workstation or editor. If you don't render the effect, Aurora Edit automatically renders before sending.

You can also apply a previously applied Audio EQ effect to other clips in the same Timeline:

1. Select the unrendered clip.
2. **Ctrl + click** the audio clips you want to affect.
3. Select **Apply**.

Adjusting the Frequency

The Frequency dials let you adjust the frequency of the three shelves. The ranges for adjusting the frequency are:

Dial	Range	Default
High Pass Frequency	2k Hz to 12k Hz, +/- 12 dB	7k Hz
Mid Band Frequency	100 Hz to 12k Hz, +/- 12 dB	6.5k Hz
Low Pass Frequency	30 Hz to 500 Hz, +/- 12 dB	235 Hz

Adjusting the Gain

The Gain dials let you alter the gains of the three shelves. The ranges for adjusting the gain are (units are in dB):

Dial	Range	Default
High Pass Gain	-12 to +12	0
Mid Band Gain	-12 to +12	0
Low Pass Gain	-12 to +12	0

Adjusting the Mid Band Q

The Mid Band Q lets you alter the octave range for both the Mid Band Frequency and the Mid Band Gain.

The range for the Mid Band Q is .01 to 10, with 5 as the default.

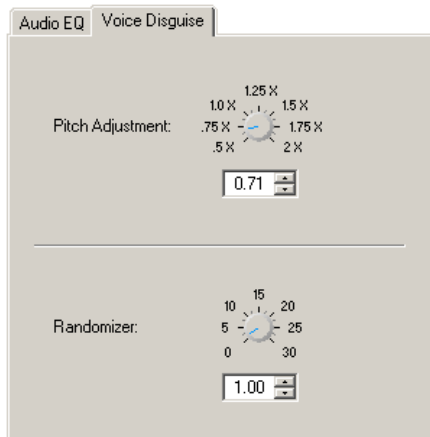
NOTE: *You can double-click any dial to reset the default value.*



Disguising a Voice in a Clip

Using the Voice Disguise tab on the Audio Effects Tool, you can distort a clip's audio using the Pitch Adjustment and Randomizer parameters.

Voice Disguise is not a real-time effect; Aurora Edit automatically renders the voice disguise when you apply the effect to a clip.



To disguise a voice in a clip:



1. Press **7** on your keyboard or click the Audio Effects Tool button.
2. Click the Voice Disguise tab to bring it to the front of the window.
3. Select the clip you want to disguise. To select multiple clips, hold down the **Ctrl** key while clicking on clips.
4. Adjust the pitch and use the randomizer as necessary.
A description of each adjustment follows this procedure.
5. Click **Apply** to apply your changes.

The voice disguise adds to your clip, and a new master clip is created and saved to the Rendered Clips bin.

Adjusting the Pitch and Randomizing the Voice

When you adjust pitch you also adjust the tone of a voice. Adjusting the pitch less than 1x makes the audio sound slower and lower. Adjusting the pitch greater than 1x makes the audio sound faster and higher. A lower pitch is typical for a blur or mosaic video disguise.

You also can apply the Randomizer along with the Pitch Adjustment. The Randomizer periodically alters the Pitch Adjustment in order to further skew the audio, therefore better disguising the voice.

The ranges for these adjustments are:

Dial	Range	Default
Pitch Adjustment	.5x to 2x	1x
Randomizer	0 to 30	0



Chapter 10 Creating Audio Effects

Chapter **11**

Creating Video Effects (Option)

Aurora Edit lets you create a variety of video effects with clips in your sequence, including blurs, mosaics, color inverting, and mirroring. You can also resize video images and use key shapes to create Picture-in-Picture (PIP) effects.

This chapter includes:

- Understanding video effects
- Using the Video Effects Tool
- Adding a new video effect to the Timeline
- Defining your video effect
- Working with keyframes
- Setting a path for your effect
- Viewing video effects within your sequence
- Saving a video effect to a bin
- Rendering a video effect
- Applying multiple effects to a clip
- Exporting a video effect



Video Effects Overview

Adding video effects to your sequences involves choosing the effect you want, determining the effect duration, and adding keyframes to the effect. Aurora Edit also provides a number of preconfigured video effects that you can drag directly onto the Timeline.

Creating video effects involves these basic steps:

1. Place an effect on the Timeline.
The effect can be new, blank, or saved in your Bin.
2. Define the effect by selecting and modifying an effect and its options.
3. Insert a keyframe at the position where the effect starts.
4. Continue to insert keyframes to determine the course of the effect.
5. Select the path to use for the effect.
6. Press **Run** to review the effect.
7. Click **Render**, **Render All**, or **Mixdown** to complete the effect(s).
8. Save the effect to the Saved Effects Bin if you want to re-use again.

This chapter discusses each of these steps. For a complete description of each video effect, their options, and ranges, see *Appendix B*.

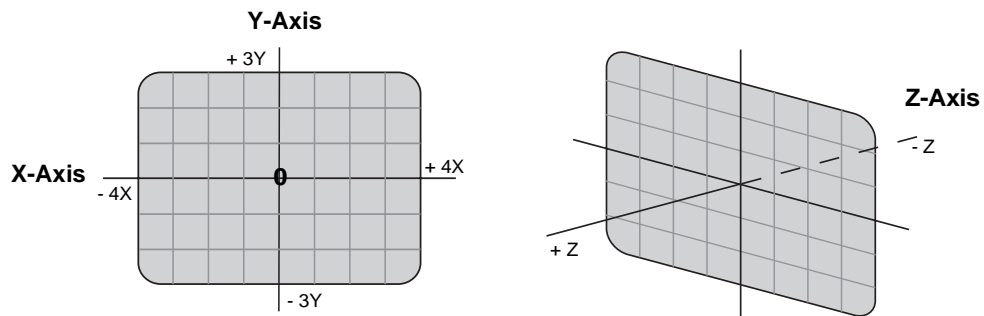
Understanding Video Effects

Before you can create video effects, you need to understand the ways you can manipulate the video image.

Moving the Foreground Image Within the Viewer Window

When you create a Resize or Key Shape effect, one of the video tracks becomes the foreground and the other becomes the background. With a Resize Effect, the foreground image defaults to 50% the size of the background image and is visible. When you apply a Key Shape effect to a single video track, you cannot see the initial key shape until you apply an effect to it. When you add another effect to the Key Shape effect, you can then see the shape and position it.

You can manipulate the foreground image in five different ways:



- X-Axis — The image moves left or right.
- Y-Axis — The image moves up or down.
- Z-Axis — The image moves either closer or farther away, giving the impression that the foreground is getting either larger or smaller, respectively.
- X-Aspect — The image stretches or shrinks along the X-Axis.
- Y-Aspect — The image stretches or shrinks along the Y-Axis.



Chapter 11 *Creating Video Effects (Option)*

There are several ways to alter the size and position of the foreground image:



- Drag the image within the Viewer Window — When using **Resize** or **Key Shape**, the mouse cursor changes to a hand. Holding the left mouse button down grabs the image and allows you to move it left, right, up, or down. You can also change its position on the Z-Axis by holding down the **Ctrl** key while dragging up and down. Finally, holding down the **Alt** key locks the mouse movement to the X-Axis or the Y-Axis, depending on the direction you move the mouse after pressing the Alt key.
- Use the joystick — From the **Effects** and **Options** tabs, you can move the foreground image along the X- and Y-Axes by clicking the joystick and moving it in any direction. The joystick's primary purpose is to position the foreground image outside the viewing area.
- Move the resize slider — You can change the image size (the Z-Axis) by moving the resize slider up to enlarge the image and down to make it smaller.

Moving the Foreground Image Within the Viewer Window

- Adjust the dials — You can use the resize and key shape parameter dials to change for X-, Y-, and Z-Axis positions, and X- and Y-Aspect changes.

To adjust a dial, click the dial and drag right to increase the value or drag left to decrease the value. Double-click a dial to reset it to 0.

You can also make adjustments by entering a value in the box below a dial or by clicking the up and down spin controls beside a value box.

- Use the keyboard — You can also use the arrow keys on the keyboard to move the foreground image:
 - The left and right arrows move the image along the X-Axis
 - The up and down arrows move the image along the Y-Axis
 - **Ctrl +** up and down arrows move the image along the Z-Axis
 - **Shift +** left and right arrows adjust the X-Aspect
 - **Shift +** the up and down arrows adjust the Y-Aspect



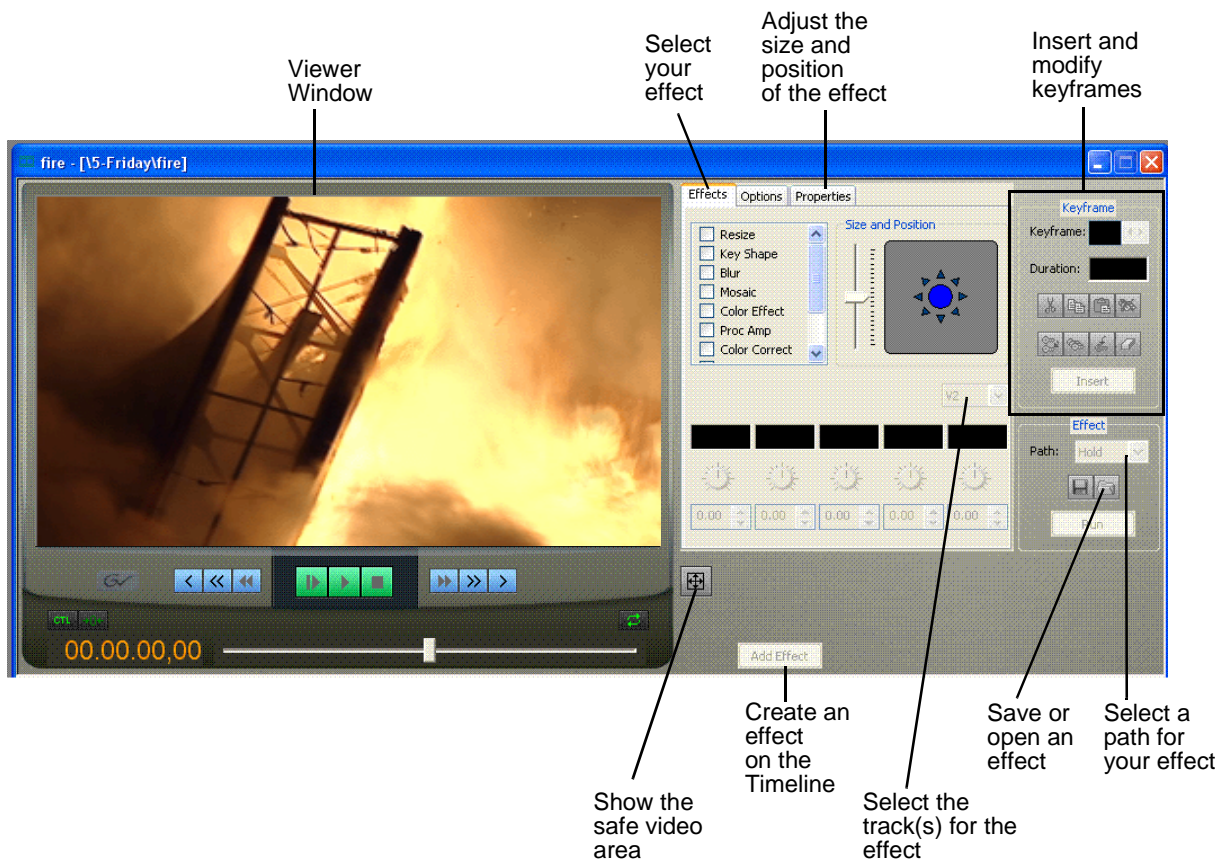
Chapter 11 Creating Video Effects (Option)

Using the Video Effects Tool

To create video effects to use in your sequences, you use the Video Effects Tool.



To select the Video Effects Tool, press **8** on your keyboard or click the **Video Effects Tool** button in the Timeline Toolbar.



Adding an Effect to the Timeline

The first step in creating a new effect is to place a blank effect template on the Timeline that will contain the keyframes to comprise the effect.

To add a blank effect to the Timeline, there must be an effects (FX) track present. When you first create a sequence you can check the **Video Effects Track** checkbox to add an effects track to the Timeline.



If you are working with a sequence without an effects track, click the **Sequence Properties** button on the Timeline Toolbar and check the **Video Effects Track** checkbox to create the track.

There are several ways to add a blank effect to the Timeline:

- Highlight the clip(s) for the effect and click **Add Effect** or **Shift + 8**.
Aurora Edit places the effect on the effects track with the same duration as the selected clip(s) and sets the correct track for the effect. For example, if you select a clip on Video Track 1 and add an effect, V1 is automatically designated as the track that receives the effect.
You can automatically create a Resize effect by selecting overlapping clips on the two video tracks and clicking **Add Effect**.
- Mark In and Out points on the Timeline to set the effect duration and click **Add Effect**.
The effect appears on the Timeline at the location and with the duration set by the mark points. If you mark an In point or an Out point but not both, you must enter an effect duration in the pop-up window and click **OK**. The Mark Point you set marks either the beginning of the effect (if you marked an In point) or the end of the effect (if you marked an Out point).
- Click **Add Effect** within the Video Effects Tool, enter the duration of the effect (the default is 1 second) and click **OK**.
The effect appears on the Timeline at the pointer location.
- Right-click on the Timeline, choose **Add Effect**, enter the effect duration (the default is 1 second) and click **OK**.
The effect appears on the Timeline at the pointer location.



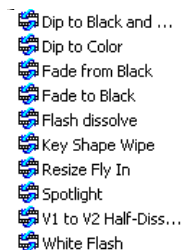
Chapter 11 *Creating Video Effects (Option)*

You can change the duration of the video effect using the Extend Edit feature. To lengthen or shorten an effect, first select the effect on the timeline then place the pointer where you want the effect to end or begin and press **V** on the keyboard. The effect duration moves to the new pointer position, thereby lengthening or shortening the effect.

A video effect overlays the video tracks, allowing you to slide the video underneath it on tracks V1 and V2. The effect characteristics are applied to the clips that reside on the video tracks below it, which lets you swap one video effect for another or one video clip for another.

Using Saved Effects in Your Sequence

Aurora Edit provides a number of preconfigured effects, stored in an Effects Bin.



You can add these effects to your sequence and modify them to suit your needs.

If you don't have an Effects Bin, you can import each effect into your Bin. The effects are located at **C: | ProgramFiles | Grass Valley | Aurora Edit | Effects**. See "Importing Effects" on page 209 for instructions.

NOTE: You must have the complete Aurora Edit Effects Package to use all of these effects. If you don't have the package you can still use the effects Dip to Black and White, Fade from Black, and Fade to Black.

Saving effects also saves their duration, but the duration of an effect you place on the Timeline is depends upon on the way you add the effect to your sequence. There are multiple ways to add a saved effect to your sequence:

- Drag and drop the saved effect onto the Timeline — the effect duration is exactly as it was when saved and the keyframes are in the same positions.
- Highlight the clip(s) for the effect and drag the saved effect onto the Timeline — the effect duration and keyframes adjust to match the duration of the selected clip(s).
- Mark In and Out points on the Timeline to define the effect duration and then drag a saved effect onto the Timeline — the effect duration and keyframes adjust to fit the duration between the mark points.
- Click **Open**, select the effect, and click **Open** — the duration follows the above guidelines based on whether you select mark points or a clip for the effect.

Once you have the effect on the Timeline, you can use the Video Effects Tool to modify the effect.

Importing Effects

You can also use effects that are located on another Aurora Edit workstation, another computer, a network server, or a diskette. You can only import effects with a .vef suffix. For details on saving effects on other media, see “Exporting Video Effects” on page 221.

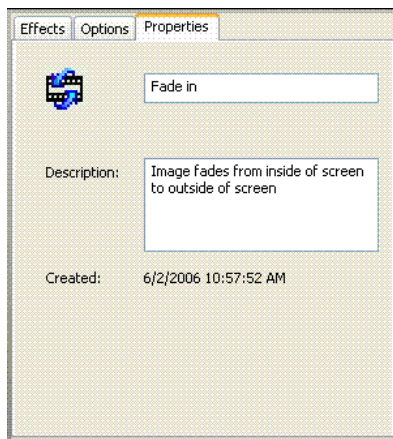
To import an effect into your sequence:

1. Choose **File | Import | Effect**.

The Import Effect window appears.



Chapter 11 *Creating Video Effects (Option)*



2. Navigate to the effect you want to import and select it.
3. Click **Import**.

A progress bar indicates the import status.

You can import effects to the Bin or directly to the Timeline, depending on which window has focus.

Defining Your Video Effect

Each video effect definition consists of the effect type, the effect size and position, options set for that effect, and any adjustments you make to the effect.

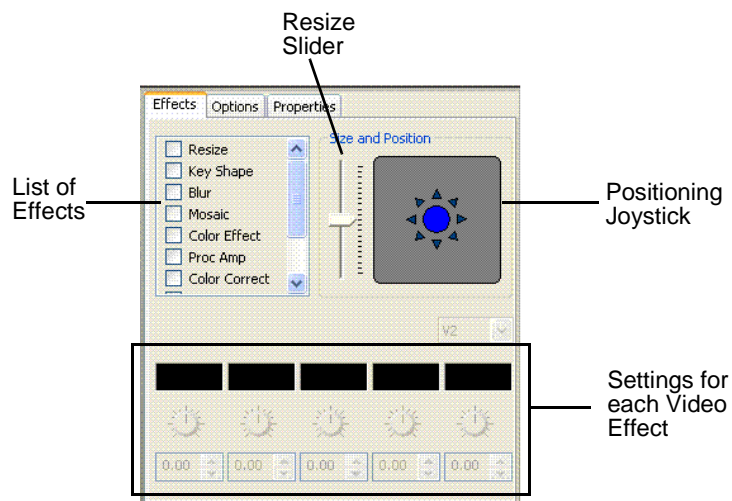
Choosing a Video Effect

After you add a blank effect to the Timeline, you choose the video effect to create in your sequence.

To choose a video effect:



1. Press **8** on your keyboard or click the **Video Effects Tool** button on the Timeline Toolbar.
2. Add a blank effect to the Timeline using the steps in the section “Adding an Effect to the Timeline” on page 207.
3. Check the checkbox next to the effect you want to use.



4. Adjust the effect settings as necessary.



Chapter 11 *Creating Video Effects (Option)*

Aurora Edit provides a variety of video effects to choose from. For a complete description of each video effect and its properties, see *Appendix B*.

Name	Description
Resize	Enlarges the image using one video track or creates a Picture-in-Picture effect using two video tracks.
Key Shape	Gives a specific shape to a video image or applies an effect to a part of a video image. Used primarily in conjunction with other video effects, a key shape defines an area within an image that you can fill with other effects.
Blur	Distorts an image beyond recognition. Often used in conjunction with a Key Shape effect to disguise a person's identity.
Mosaic	Distorts an image beyond recognition. Often used on an entire image or in conjunction with a Key Shape effect to disguise a person's identity.
Color Effect	Overlays a selected color over the video with variable opacity. Used either for an entire image or in conjunction with the Key Shape effect. Used primarily for color flashes, dips or fades to color, color tints, etc.
Proc Amp	Adjusts an image's video levels. Provides options for altering the image gain, chroma, setup and hue; a Key Shape effect; or a Resize effect.
Color Correct	Adjusts the color levels in a video image; adjust the white and black balance, gamma balance, and white clip.
Mirror Vertical	Flips an image vertically.
Mirror Horizontal	Flips an image horizontally.
Luma Key	Keying inserts part of one picture into another to create a composite picture. Luma Key uses the color brightness of an incoming source to specify where to cut the hole in the background.
Chroma Key	Detects color (rather than luminance) in a video image and replaces it with a new background.
Warp	Twists and turns the image in the direction and shape selected.

Using Effect Options

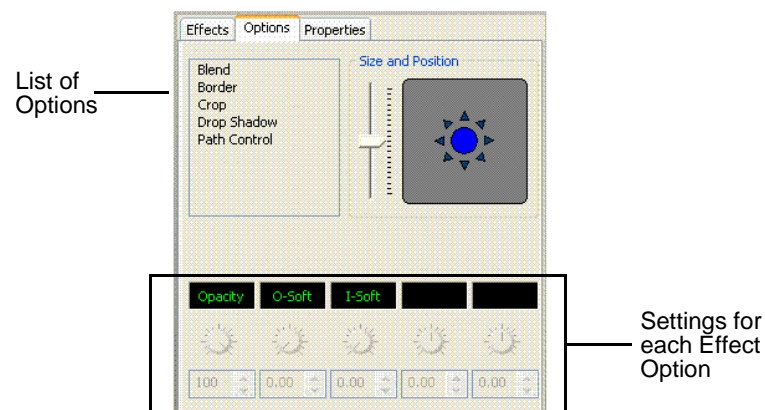
For a description of each option, see *Appendix B*.

Name of Option	Description
Blend	Lets you change the opacity or edge softness of a resize or key shape effect.
Border	Lets you apply a border to a resize or key shape effect, change the color and size of the border, and adjust border placement around the image.
Crop	Lets you trims the foreground image of a resize or key shape effect.
Drop Shadow	Lets you apply a drop shadow to the foreground image and change the shadow's color and opacity.
Path Control	Lets you apply different paths to a particular keyframe or part of an effect; overrides the chosen effect path.

To choose and adjust effect options:



1. Press **8** on your keyboard or click the **Video Effects Tool** button in the Timeline Toolbar.
2. Click the effect on the FX track you want to modify.
3. Click the **Options** tab in the Video Effects Tool.
4. Select the option you want to use.





Chapter 11 *Creating Video Effects (Option)*

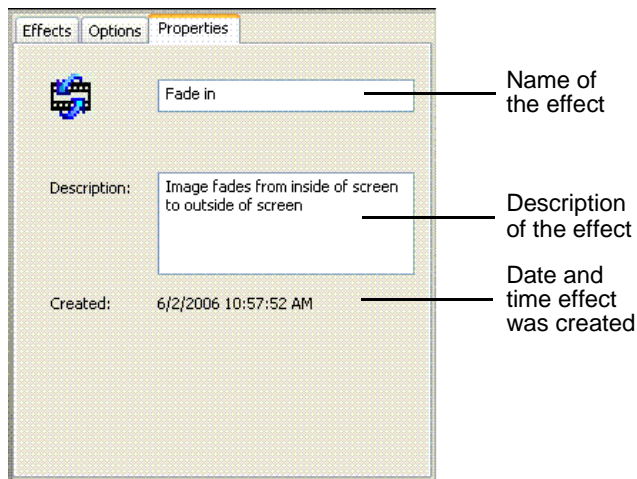
5. Adjust the effect settings.
6. To save your settings, click **Insert** for a new keyframe or click **Modify Keyframe** if the keyframe already exists.

Defining Effect Properties

You may want to add some descriptive information about the video effect you create. Effect properties help you remember the characteristics of the effect.

To add effect properties:

1. On the FX track, click the effect for which you want to add properties.
2. Click the **Properties** tab in the Video Effects Tool.
3. Enter the effect name and a description.

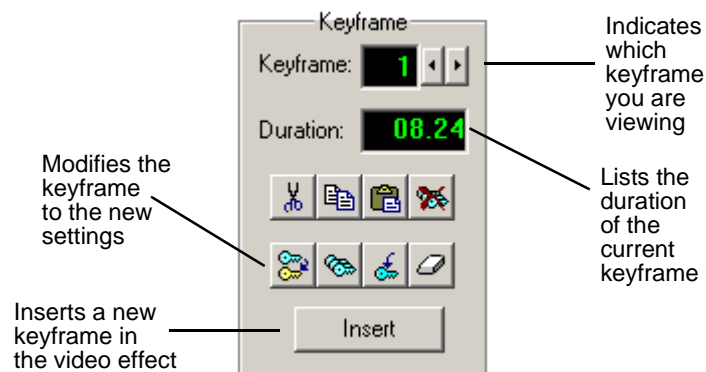


Working with Keyframes

Aurora Edit uses keyframes to synchronize a clip's video effects with the video and audio. A keyframe is a set of characteristics defining the image at a specific instant in time. Characteristics include size, location, borders, drop shadow, and cropping but do not include the video image, which resides on the video track.

After creating an effect, insert a keyframe to mark the effect's location and characteristics on the Timeline. All effects need at least one keyframe.

If you want the effect to play consistently through the clip, you only need one keyframe. If you want the effect to change throughout the clip, continue to adjust characteristics and insert keyframes throughout the clip as necessary.



Within the Video Effects Tool, some parameters are keyframeable and some are not. That is, if a parameter is keyframeable, the parameter can change from one keyframe to the next. If a parameter is not keyframeable, that parameter is used for the entire effect and cannot change across keyframes.

The type of effect is not keyframeable. See *Appendix B* for a list of effect parameters and options, and whether each is keyframeable.



Inserting Keyframes

You can add keyframes to any point of a video effect. There are two general approaches for inserting keyframes.

- Step through the video and insert a new keyframe at each point where you want the effect to move. This method is useful when creating a blur or mosaic effect or when you want to move an effect to cover or highlight a specific area.
- Set up the first keyframe and insert it into the effect. Then set up a second keyframe and insert it. Aurora Edit automatically places the second and subsequent keyframes one second after the previous one. This method is useful with resizing effects such as Picture-in-Picture that are less dependent on exact frame positions than on the effect's path and speed.

Once inserted, you can adjust a keyframe's position by clicking it and then dragging it left or right.

To insert a keyframe:

1. Place the pointer at the spot where you want the keyframe.
2. Configure the video effect characteristics.
3. Press **Insert** on your keyboard or click **Insert** on the Video Effects Tool.

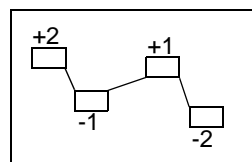
A keyframe appears on the FX track on the Timeline. This keyframe places all of the video effect characteristics on a single data point on the Timeline.

4. Continue defining the effect and inserting keyframes as necessary.

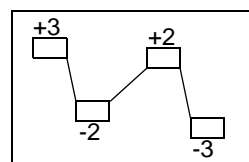
Modifying Keyframes

Aurora Edit provides some standard tools for modifying keyframes:

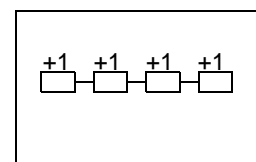
- Cut — Removes a keyframe and places it on the clipboard for pasting into another position or effect.
- Copy — Copies a keyframe for pasting into another position or effect.
- Paste — Pastes the properties of a cut or copied keyframe in a new location.
- Delete All — Deletes all of an effect's keyframes.
- Modify — Changes the characteristics of an existing keyframe.
- Modify All — After modifying the characteristics of a single keyframe, allows you to apply those changes to all keyframes within the effect. When modifying all keyframes, you can choose the type of modification you want:
 - Relative: Alters each keyframe in relation to its current status.
 - Absolute: Alters all keyframes to the value set in the modifying keyframe, regardless of each keyframe's current status.



Original Effect
with original values



Relative Modification
Adjust by +1



Absolute Modification
Set to +1

- Restore — Restores default settings to the current effect position.
- Clear — Allows you to return to an original keyframe if you have altered it and want to use the previous settings instead.



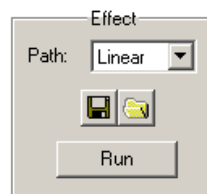
Setting a Path for the Effect

Each video effect you create has a path that determines how the effect behaves from keyframe to keyframe. You can apply paths only to an entire effect, not just a particular keyframe or part of an effect. If you want to apply a path to a specific keyframe, use the Path Control feature in the Options tab.

Aurora Edit has four path types:

Path Type	Example	Description
Hold		The effect characteristics hold for the duration of the keyframe and then change instantaneously to the next keyframe. For example, the image jumps from its location in one keyframe to a new location in the next keyframe.
Linear		The effect plays in a constant direction and at a constant rate of speed from keyframe to keyframe. For example, the image moves from one location to the next in a straight line at the same speed.
S-Linear		The effect plays in a constant direction but at a variable rate of speed from keyframe to keyframe. For example, the image moves from one location to the next in a straight line; it begins slowly, speeds up, then slows down again as it approaches the next keyframe. Because of the changing speed, S-Linear changes appear less abrupt than linear changes.
Curve		The effect plays in a variable direction and at a variable rate of speed, causing a rounded path through the keyframe. For example, the image moves from one location to the next in a smoothly curved line. The Curve path is the least abrupt type of path control; both direction and rate of speed are kept smooth and steady in appearance.

To set a path for your effect, select a path from the Path drop-down list.



To see how the path affects your sequence, click **Run**.

Viewing Effects Within Your Sequence

Once you create an effect, you can view it with the clip to see if you need to make further adjustments.

To view the effect with a clip:

- Press **Ctrl + W** on your keyboard or click the **Run** button in the Effect area of the Video Effects Tool.

The current video effect plays on the clip.





Saving Video Effects

After you create an effect, you can save it to use again in another sequence. You save effects the same way you save clips and sequences — in a bin. You can retrieve a saved effect and drag it onto a Timeline in another sequence.

When you save a video effect, the effect characteristics such as its duration and keyframes are saved with it.

To save a video effect:



1. Click the **Save** button in the Effect box in the Video Effects Tool.
2. Select a bin for the effect and enter a name.
3. Click the **Save** button.

Rendering Video Effects

When you add a video effect to the Timeline, you need to render the effect before you can send it to another Aurora Edit workstation or server. If you begin sending a sequence to another destination without rendering video effects, Aurora Edit automatically renders the effects before sending.

To render an effect:



1. Select the effect to render.
2. Click the **Render Effects** button in the Main Toolbar.

You can also render all video effects at the same time by clicking the **Render All** button.

NOTE: *All unrendered transitions that reside under real-time effects appear as straight cuts until the transition is rendered. Field interpolated slow-motion also becomes frame-based until rendered.*

Layering Effects

Aurora Edit allows you to apply more than one effect to a clip. You can mix down an effect into the video clip below it and then add another effect on the FX track that affects the same clip.

Mix Down modifies the video clip (or clips) in which the effect occurs; for example, if the effect was on V2, the effect collapses into V2. If both video tracks are being affected, the effect collapses onto V1.

To mix down an effect:



1. Select the effect.
2. Click the **Mix Down** button on the main toolbar.

You can also right-click on the effect and select **Mix Down Selected**.

A progress bar indicates rendering status.

Once an effect is rendered, it is removed from the FX track and becomes part of the video clip below it. A new master clip is also created and saved in the Rendered Clips bin.

Exporting Video Effects

In addition to saving your video effects to the Bin, you can also export them to a location outside of Aurora Edit. The effect exports as a .vef file, which you can export to any folder on your computer, to another computer on your network, or to a diskette.

To export an effect from the Bin or the Timeline:

1. Highlight the effect you want to export from the Bin or on the Timeline.
2. Choose **File | Export | Effect**.

The Export Effect window appears.

3. Select a location for the effect and click **Save**.

The video effect exports as a .vef file.



Chapter 11 Creating Video Effects (Option)

Adding Titles (Option)

The Aurora Edit Titling option lets you add titles to your sequences using built-in templates or those you create. Titles allow you to add your station logo to all of your stories, add newscaster and/or sportscaster names, and other graphics or text you wish to superimpose on your video.

To use the Title Tool, you need to have the Chyron[®] Lyric plug-in installed on your Aurora Edit workstation and have a Chyron license. See your system administrator if you want this option.

NOTE: This chapter highlights some of the Lyric features; see the Lyric online help for complete documentation.

This chapter discusses how to:

- Use the Title Tool
- Use existing title templates
- Modify templates for your sequence
- Use advanced Lyric features
- Add fonts



Chapter 12 Adding Titles (Option)

Using the Title Tool

To add titles to your sequences, use the Title Tool.

T To select the Title Tool, press **Ctrl + T** on your keyboard or click the **Title Tool** button in the Timeline Toolbar.

Changes text features such as font, size, justification, and color

Fades the title in and out

Opens the title in Advanced Mode for further editing

Copies the current title to the Timeline

Shows the Text Fields in the Viewing Window

Shows the Safe Area for adding titles

Shows the Background behind the title

Changes the characteristics of the edges of the text

The screenshot shows the Aurora Edit software interface. The main window is titled "New Sequence [XTEMP\New Sequence]". The central preview window displays a video frame with a "Locator" title overlay. The "Locator" title is a blue bar with the word "Locator" in white and "SUPER" in red below it. To the right of the preview window is the "Title Tool" panel. At the top of this panel is a "New Title" text field and a "Template" dropdown menu set to "00000007". Below these are "In:" and "Out:" timecode fields with navigation buttons, and a "Duration" field. A "Locator" field is also present. At the bottom of the panel are several icons: a yellow square, a yellow square with a black outline, a square with a black outline, a square with a black outline and a white background, and a square with a black outline and a white background. Below these icons is an "Apply" button. To the right of the panel is the "Font Properties" dialog box, which includes a font face dropdown (set to "Arial"), font size (50), face color, edge size (5), edge transparency (20), edge softness (6), and edge color (dark blue). Lines connect the text labels to the corresponding icons and controls in the interface.

Using Title Templates

Aurora Edit includes several modifiable sample templates, which you can find in the Templates drop-down list. By default, the templates list displays files located in the **C:\LyricDemo** directory.

If you create additional title templates (in .lyr format) that you wish to appear in the Templates list, place them in the samples directory or configure Aurora Edit to use a different directory (see “Setting Graphics Options” on page 311 for instructions).

To add a title to your sequence:

1. Make sure that your sequence has a graphics track; if not, you need to add it:
 - a. With the sequence open, click the **Sequence Properties** button on the Timeline toolbar.
 - b. In the Sequence Properties window, check **Graphics Track** and click **OK**.
2. Select a template from the Template drop-down list.



The title template appears in the Viewing Window.



3. Make any changes to the title graphic.

The next section, *Modifying a Template for Your Sequence*, describes changes you can make.

4. Add a title to your sequence using one of the following methods:
 - Add a Mark In and Mark Out Point on the Timeline and click the **Copy to Timeline** button—the title appears between the mark points; or



Chapter 12 Adding Titles (Option)



- Press the **Copy to Timeline** button with no mark points. The title starts at the cursor position and uses the duration set in the Options menu.

If you need to extend the duration of a title, highlight the title on the Timeline, move the cursor to the new duration point, and press **V** (Extend Edit) on the keyboard.

5. Play your sequence to view the title.

The new title appears on the Graphics track on the Timeline and is saved as a graphic file in the Bin. To use a saved title in other sequences, drag it onto the Timeline of the new sequence. Aurora Edit copies the title into the new Bin so you can edit it independently from the original.

Modifying a Template for Your Sequence

The default templates contain placeholder text and graphics that you'll need to change for your sequence.

You can make changes to any existing text field. To add another field, see "Advanced Titling" on page 232.





Chapter 12 Adding Titles (Option)

Selecting a Text Field

To change text in the template, you first need to select the text field. Any changes you make to a text field affect the entire field — you cannot change part of a field, such as bolding only one word.

To select a text field:



1. Verify that the **Show Text Fields** button is toggled on.
2. Double-click the green arrow at the end of the text field you want to modify.

The arrow turns red and the text appears next to the Viewing Window.

Editing Text

To change the text in any part of a title:

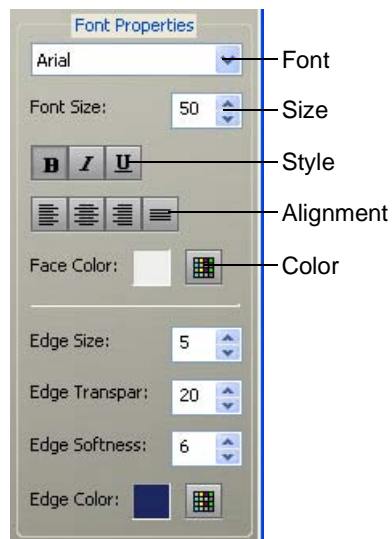
1. Select the text field.

The selected text appears next to the Viewing Window.

2. Modify the text as necessary.
3. Click **Apply** to save changes to your title.

Changing Text Properties

You can change many text properties within a title. Changes affect the entire text field.



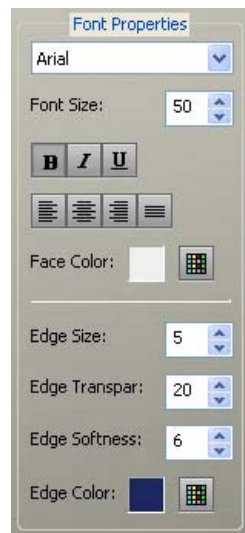
To change text properties:

1. Select the text you want to modify.
The selected text appears next to the Viewing Window.
2. Change any of the following as necessary:
 - Font—Select a font from the drop-down menu.
 - Size—Enter a new font size or click the arrows to change the size.
 - Style—Click the buttons for Bold, Italic, or Underline.
 - Alignment—Select Align Text Left, Center, Right, or Justify Text.
 - Color—Click the color button, select the new color, and click **OK**.
3. Click **Apply** to save changes to your title.



Changing Edge Properties

In addition to changing text properties, you can also modify its edge properties. The main use of this feature is to make a drop shadow on the text.

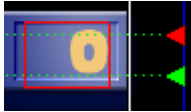
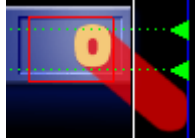
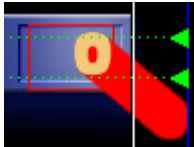
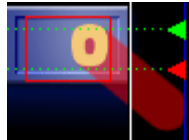
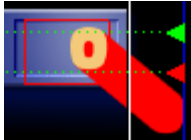
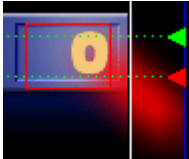


These options affect the right edge of each character in the selected text field.

Option	Range	Description
Size	0-100	0 is not visible at all and 100 is the full size of the edge.
Transparency	0-100	0 is fully opaque and 100 is fully transparent.
Softness	0-99	0 is no softness and 99 is the full softness available for the edge of the text.

Changing Edge Properties

The following table shows each of the edge characteristics using different values:

Edge Characteristic	Lowest Value = 0	Highest Value = 100
Size		
Transparency		
Softness		

To change the edge properties:

1. Select the text field.
The selected text appears next to the Viewing Window.
2. Make any of the following changes:
 - Size, Transparency, and Softness—Enter new values or use the arrows to change the values.
 - Color—Click the color button to select a new color.
3. Click **Apply** to save these changes to your title.



Chapter 12 Adding Titles (Option)

Advanced Titling

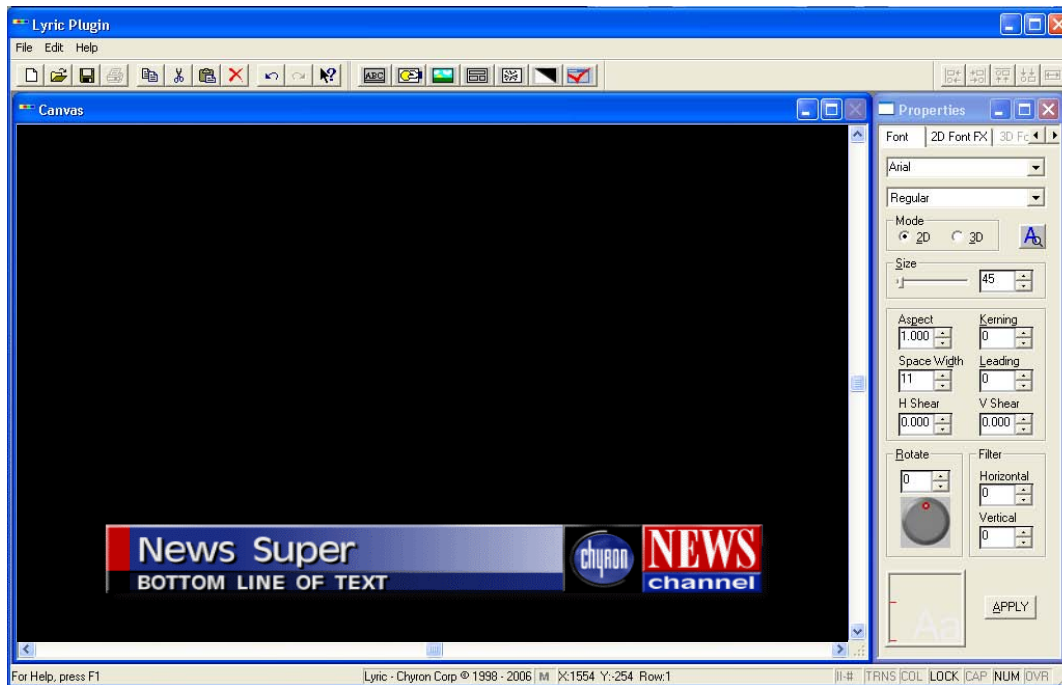
To create a new template or extensively edit an existing one, you use the Title Tool's Advanced Mode, which launches the Chyron Lyric plug-in. If you need to configure the plug-in, see “Setting Graphics Options” on page 311.

To use Advanced Mode:



1. Click the **Advanced Mode** button in the Title Tool.

The Chyron Lyric plug-in appears:



2. Make changes to the current title or create a new one.

The rest of this section describes how to perform several tasks you may frequently use. For more detailed instructions, see the online help under **Help | Help Topics**, or see the Chyron documentation.

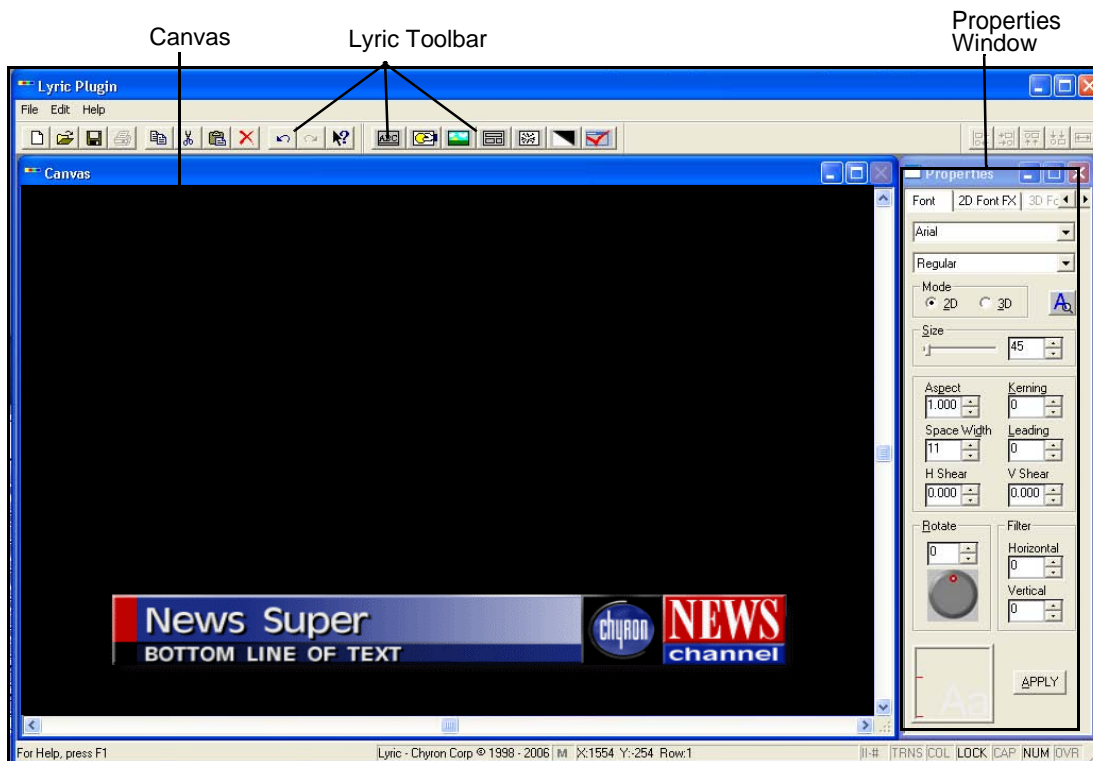
3. If you made changes to the Font or 2D Font FX tabs, click **Apply** in the Properties window. Changes made directly on the Lyric Canvas display in the Title Tool automatically.
4. Close the window.
5. Click **Apply** in the Title Tool to apply the title changes to the Timeline.



Chapter 12 Adding Titles (Option)



Understanding the Lyric Plug-in











The Lyric plug-in consists of a Canvas in which you create your title, a toolbar, and a Properties window:



The Lyric Toolbar

The Lyric plug-in toolbar provides access to common functions:

Button	Function
	Opens a two-dimensional text window so you can add text to your title; this text cannot be edited within the Aurora Edit Title Tool.
	Imports a graphic from a saved file.

Button	Function
	Imports a background image or texture from a saved file.
	Opens a template field so you can add text to your title; this text can be edited within the Aurora Edit Title Tool.
	Erases elements from the title canvas or erases the entire canvas.
	Toggles the default background on and off. The default background is a black or gray background that displays over the video to help with visibility while you are creating or modifying a title. The default background does not affect the video output.
	Toggles between displaying text window and template borders on the canvas.
	Aligns the left edges of two or more template fields.
	Aligns the right edges of two or more template fields.
	Aligns the top edges of two or more template fields.
	Aligns the bottom edges of two or more template fields.
	Resizes the selected template fields to be the same width.

Properties Window

The Properties Window has two active tabs:

- **Fonts**—Lets you select a font and adjust its characteristics.
- **2D Font FX**—Lets you change character type face and edge properties, such as transparency, edge size, edge angle, and color/texture fill.



Chapter 12 Adding Titles (Option)

Changing the Title Background

You can select a solid color or an imported graphic as your background.

To change the background:



1. From within the Lyric plug-in, click **Change Background**.
2. Select **Solid/Ramp Color** or **Graphic File**:
 - If you selected Solid/Ramp Color:
 - a. Select the mode for the background, **Ramp** or **Solid Color**.
 - b. Select the new background color.
 - c. Click **OK**.
 - If you selected Graphic File, select a file to import and click **Open**.

Importing Graphics

You can import a variety of graphic file formats into your title.

To import a graphic file:



1. Click **Import Graphics**.

The Import Graphics window appears.
2. Select the graphic file you want to import.
3. Click **Open**.

The graphic appears on the canvas.

To move the graphic on the canvas, drag it to a new position with the mouse.

Adding Text

You can add text to titles using one of two methods:

- Add 2D text to your template, which can only be edited in Advanced Mode
- Add text as a template field that can be edited in basic mode

Adding 2D Text

You can add text to your title canvas, such as the name of your station or show segments, that doesn't usually change from sequence to sequence.

To add text to your canvas:



1. Click **2D Text**.

A 2D text window opens.

2. Enter text at the cursor.

To move the text window around the canvas, click and drag the title bar.

To use other features of the Lyric plug-in to change the appearance of the text, see the Lyric online help.

Adding Template Fields

If you want to be able to edit text within a title, you need to add a text template field rather than a 2D text field. Any text you add using a template field can be edited within the Aurora Edit Titling Tool.

To add a template field:



1. Click **Template**.

An empty template field is added to your canvas.

2. Enter text in the field; it is a good idea to enter a description of what type of text should be in this field, i.e., Reporter Name.
3. Continue adding template fields as necessary.



Adding Fonts

The Chyron Lyric CD-ROM includes additional fonts you can use to provide greater text variety in your titles.

Adding many additional fonts may slow the application down, so add only the fonts you need.

To add fonts:

1. Insert the Chyron Bitstream Fonts CD into the CD-ROM drive,
2. From the Windows Start menu, select **Settings | Control Panel | Fonts**.
3. From the File menu, select **Install New Font**.
4. In Drives, select your CD-ROM drive.
5. In Folders, double-click the **FONTS** folder.
6. In List of fonts, click the font you want to add.

To select more than one font, hold down the Ctrl key and click each font you want to add.

7. Click **OK**.

Chapter **13**

Sending & Storing Completed Sequences

Once your sequence is complete, you have several output options. The most efficient method is sending the sequence to a network video server.

This chapter discusses how to:

- Send your sequences to another Aurora Edit or a playback server
- Record your sequences to tape
- Store your sequences on Aurora Edit
- Create a playback list
- Archive your sequences on tape



Sending Sequences to Another Aurora Edit or a Playback Server

Sending your completed sequences to a playback server is the most common way to use Aurora Edit. You can also send your sequences to another Aurora Edit workstation or to a network server.

If you have a Profile Video Server, K2 Media Client, or M-Series iVDR, you can send your sequences to the server for almost instant playback to air. Once you establish a network between the media server and other Aurora Edit workstations, you can send clips and sequences to other Aurora Edit workstations as well as the media server.

You follow the same steps to send a story to any Aurora Edit workstation or compatible playback server.

To send a completed sequence:

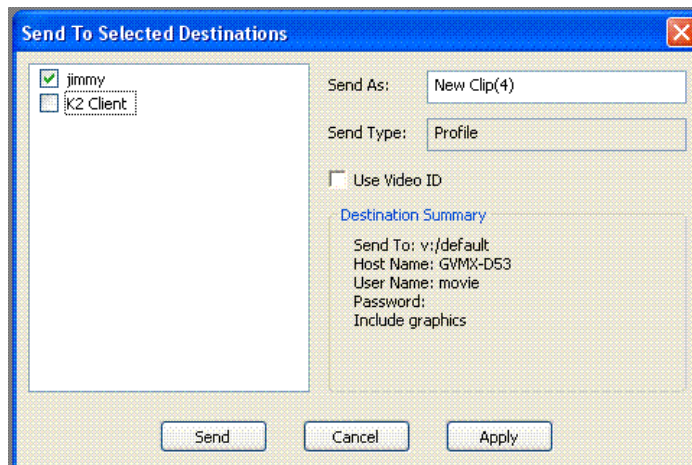
1. Go to the Bin and highlight the sequence you wish to send by clicking on the sequence title.

If the sequence is open on the Timeline, you don't need to go to the Bin.



2. Press **F2** on the keyboard or click the **Send to File** button in the toolbar.

The Select Destination window appears, showing all available locations:



Associating a Sequence with an Aurora Playout Placeholder

NOTE: If you need to add another destination to your system, go to **Tools | Options | Send**.

3. Click on the box where you want to send the sequence.
4. If you want to change the name of the sequence, enter it in the **Send As:** field.

You cannot change the **Send Type** or **Send To** fields.

5. Click **Send** or press **Enter** on the keyboard to send your sequence.

A progress bar indicates sending progress.

You can use the Video ID of a sequence instead of the sequence name by selecting the **Use Video ID** box in the Select Destination window. If no Video ID appears with the sequence, that box is grayed out.

Associating a Sequence with an Aurora Playout Placeholder

If you create a clip or sequence on Aurora Edit for a specific placeholder in Aurora Playout, you need to send it back to a playout Media Server so it can be played to air.

To send a sequence and associate it with an Aurora Playout placeholder:

1. Select the completed sequence in the Aurora Edit Bin.

If you have the completed sequence open in Aurora Edit, it is already selected.

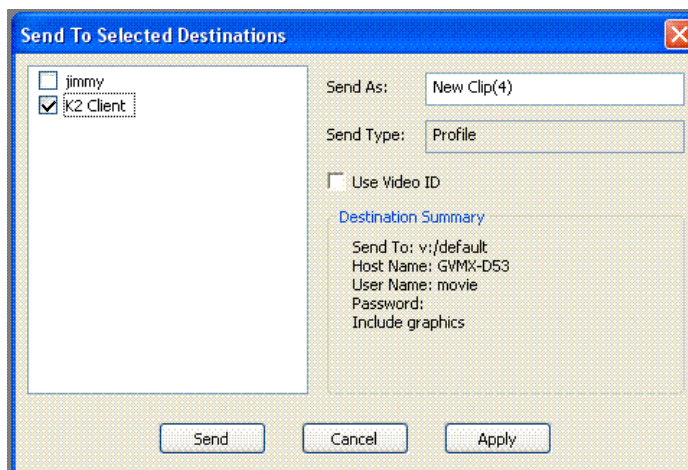


2. Press **F2** on the keyboard or click the **Send to File** button in the toolbar.

The Send To Selected Destinations window appears, displaying the list of open Aurora Playout placeholders.



Chapter 13 Sending & Storing Completed Sequences



3. Select the placeholder to assign to your completed sequence.

NOTE: *If the sequence was already linked to a story or placeholder, the **Send to Selected Destinations** window automatically selects the **Aurora Playout** placeholder.*

4. Enter an **Editorial Duration** for the sequence, if desired.

When sending a linked story to an Aurora Playout destination, you have the opportunity to change the Editorial Duration. The duration is sent back to the Newsroom Computer System as the actual on-air duration of the sequence for more accurate rundown timing.

If left unchanged, the total duration of the story is sent by default.

5. Click **Send**.

The clip is automatically sent to the Media Server. Once the clip is sent, the placeholder no longer appears in your Assignment List and the number of missing items at the top of the screen decreases by one.

Recording Completed Sequences to Tape

You can also record your sequences to tape. Use this to archive stories or provide a copy of a story to others not using Aurora Edit.

Before you begin:

- Make sure that you have rendered all effects before recording a sequence to tape; non-rendered effects don't record and won't be visible on the tape.

See "Rendering Transitions" on page 169 and "Rendering Video Effects" on page 220 for instructions.

- Save your sequence and close it.
- Cue your record tape to an appropriate recording spot.

Click the **Record To Bin** button and play the tape to determine an appropriate spot to start recording.



Chapter 13 *Sending & Storing Completed Sequences*

To record to tape:

1. Highlight the sequence you wish to record by clicking the sequence title in the Bin window.



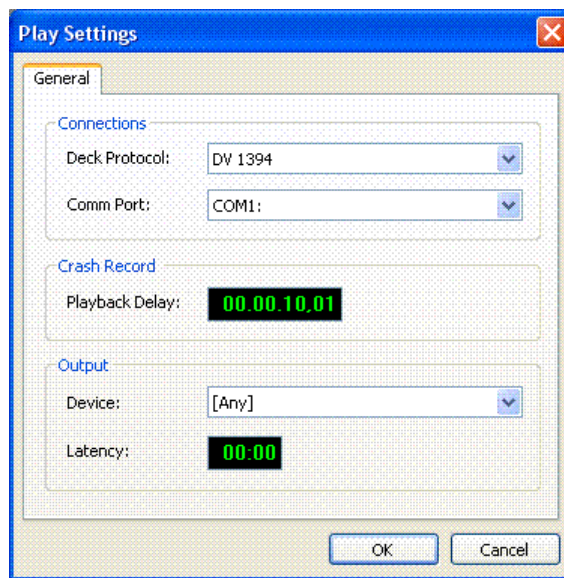
2. Click the **Play to Tape** button in the main toolbar.

The Play To Tape window appears:



3. Click the **Settings** button and verify the settings in the Play Settings window:

Recording Completed Sequences to Tape



Setting		Option	Description
Connections	Deck Protocol	Sony 422 Protocol Sony DNW-A100 DV 1394	Select the protocol for the tape deck you are using. You only need to configure this protocol once.
	Comm Port	COM 1 - COM 10	Select the communication port you are using for the tape deck. The port should be set to the same port as the Comm Port you specify for deck controls in your Source setup.
Crash Record	Playback Delay		Enter a playback delay if you want a delay between clicking Record in the Play to Tape window and when the playback actually begins. Playback Delay applies only to the Crash Record mode, providing time to press the Record button on the tape deck.



Chapter 13 *Sending & Storing Completed Sequences*

Setting		Option	Description
Output	Device	Any SDI Output <Device Name>	Select the 1394 output device you are using.
	Latency		Enter a duration to add an input latency if needed.

4. Select an edit mode for the record:

- **Insert Edit** — Records new material at an intermediate point of an existing recording, using the existing timecode. You can send individual tracks to the tape as well.
- **Assemble Edit** — Records new material at the end of a pre-recorded section of the tape, changing the timecode.
- **Crash Record** — Initiates a record without using the auto-edit function, eliminating the need for preroll; results in a record that doesn't have a frame-accurate start position.

NOTE: The Insert and Assemble Edit modes work only with decks that have Auto-Edit functions. Check your tape deck's user manual to determine if it supports this feature.



5. Mark an In point.

The timecode of the record tape shows up at the Mark In point.



6. Press **F12** on the keyboard, or click the **Record** button, to start recording.

After the sequence is done recording, the deck will stop.

7. Close the Play To Tape window.



8. Review your recorded story on tape by clicking the **Record To Bin** button in the main toolbar.

Storing Sequences on Aurora Edit

Instead of sending your sequences to a playback server, you can save them on your Aurora Edit workstation to use later. To save a completed sequence, you send it to a bin on the same computer you are using. You can then create master clips instead of saving the entire sequence and the clips it uses.

To set up a send location for your system, see “Setting Up Send Locations” on page 306. It is a good idea to create a bin specifically for holding stored sequences, such as HFR (Hold For Release).

To send a sequence to your system:

1. Click once on the sequence title that you want to send.

2. Press **F2** on the keyboard.

The Select Destination window appears, showing all available locations.

3. Click on the box for your system.

4. Click **Send** to send your sequence.

Your sequence archives as a single clip.

To archive a sequence so it can be edited later, export it in .AAF format:

- Select **File | Export | EDL**, select a location for the file, select **AAF Files** as the Save as type, and click **Save**.



Creating a Playback List

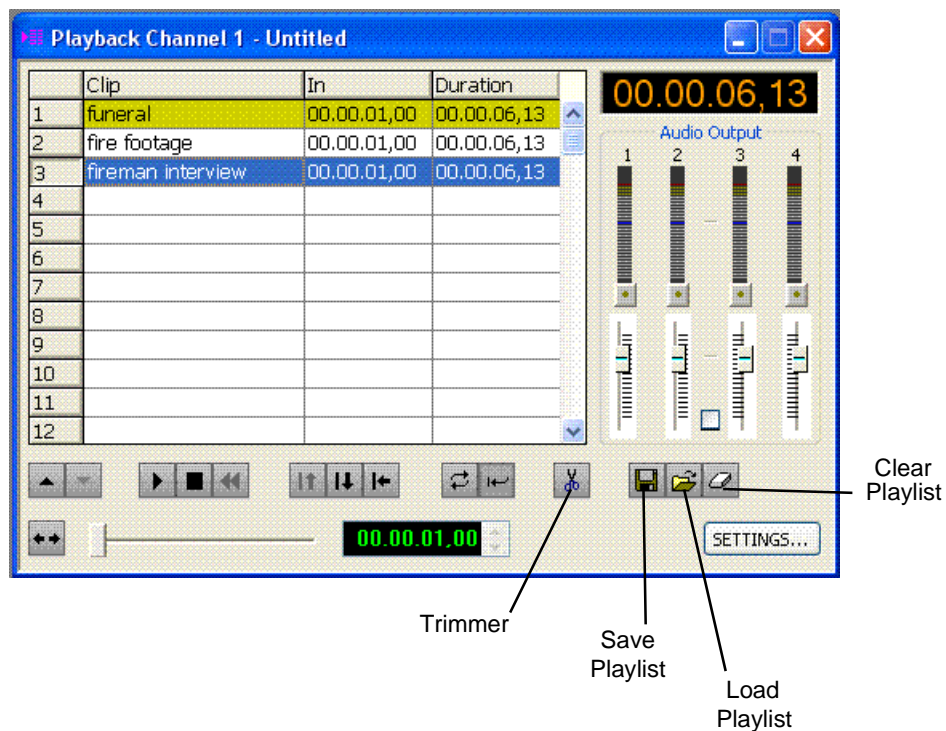
You can use Aurora Edit's playback list feature to back up your primary playback server. With this feature, stories can be played to air from any edit bay.

If you want to send sequences directly to air from Aurora Edit, use the Playback Channel feature. Opening a Playback Channel lets you add completed sequences in order and save the compiled list of sequences as a Playback List.

To create a playback list:

1. Choose **Channels | Open Playback Channel**.

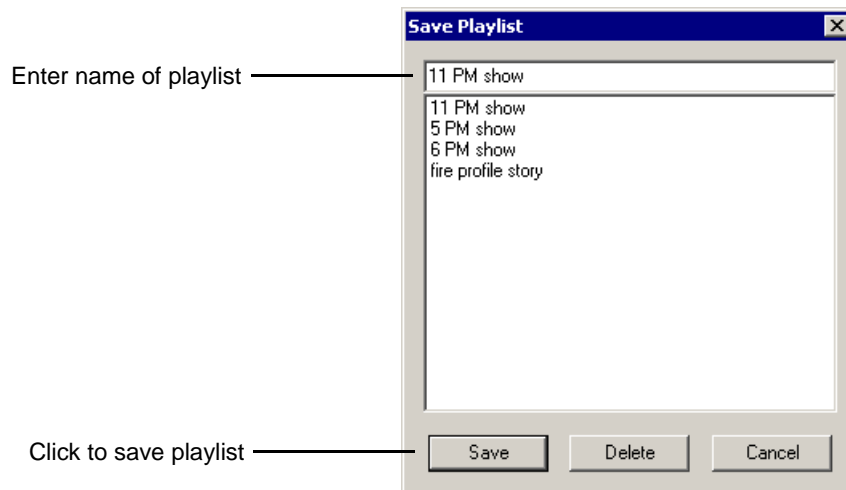
The Playback Channel window appears:



2. Open the bin (or bins) where the sequences reside.
3. Highlight each sequence and drag it into the numbered slots in the window.
4. When you are done adding sequences, click the **Save** button.



The Save Playlist window appears:



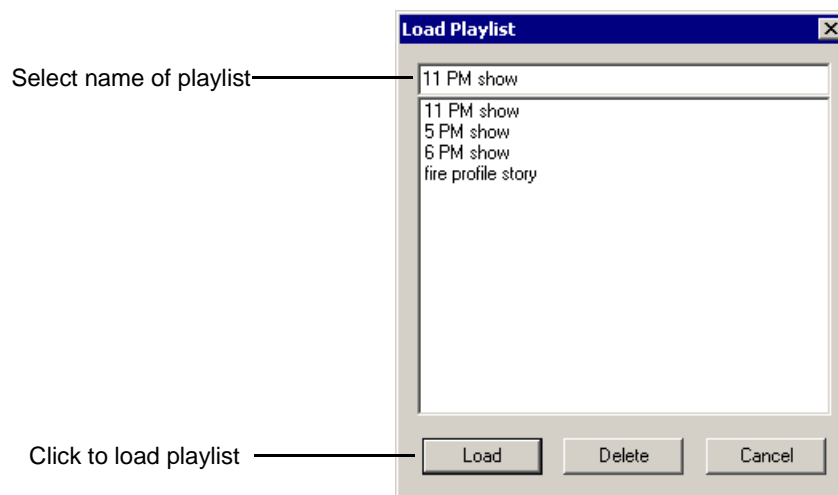
5. Enter the name of the playlist and click **Save**.
6. When you are ready to air the playlist, click the **Load** button.



The Load Playlist window appears:



Chapter 13 *Sending & Storing Completed Sequences*



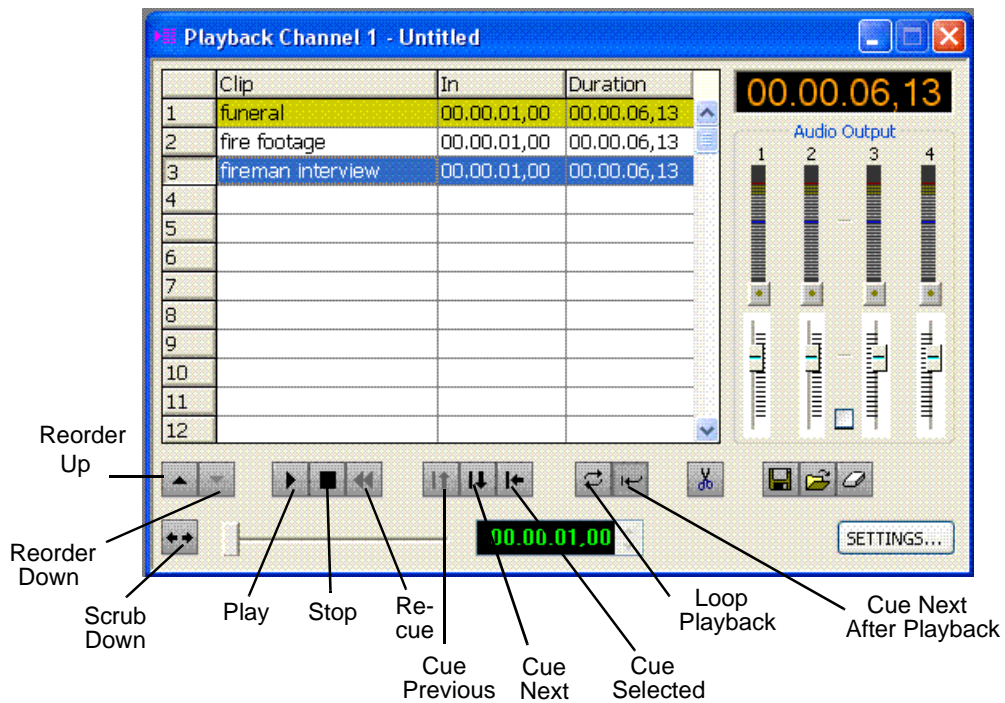
7. Select the name of the playlist you want and click **Load**.

The playlist loads into the Playback Channel window.

You can now play or review the playlist.

Playing Sequences in the Playback List

There are several ways to view a playlist. Use the buttons below to move through the list.



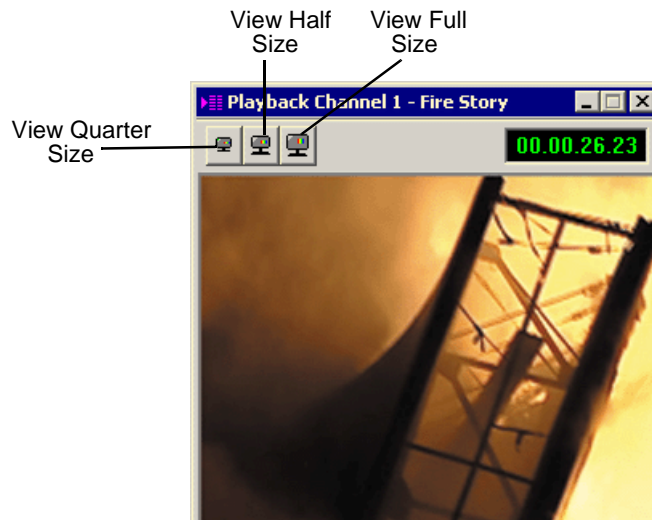
TIP—You can play through all sequences by pressing **Ctrl + Shift** on the keyboard and simultaneously clicking the **Play** button on the screen, which continuously loops the entire playlist. Turn **Loop Playback** off and **Cue Next After Playback** on to use this feature.



Chapter 13 *Sending & Storing Completed Sequences*

You have the option of viewing footage while playing a sequence. To view your sequences, click the **Show/Hide Viewer** button.

The Playback Channel View window appears:



Trimming Sequences in the Playlist

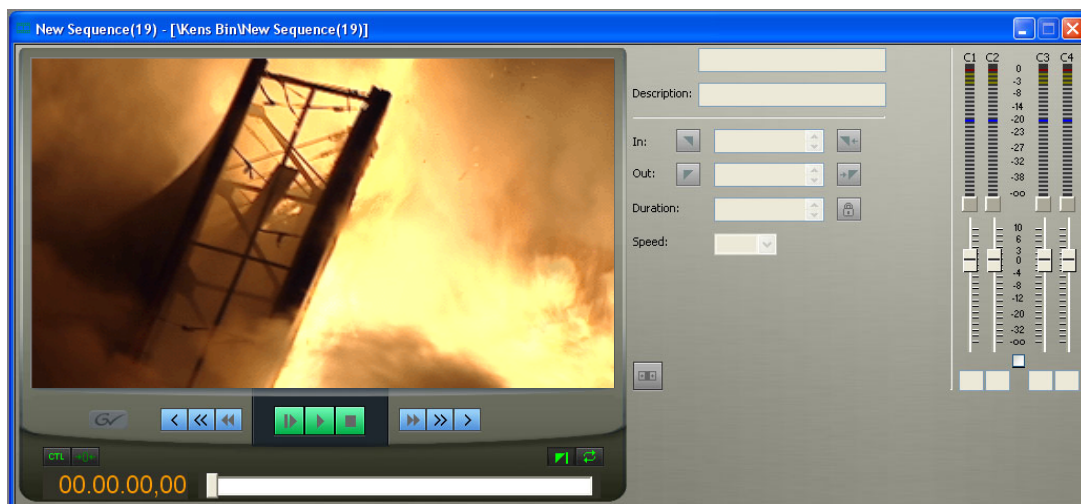
You can trim sequences in the playlist without going back to the original sequence in the bin.

To trim a sequence in the playlist:

1. Highlight the sequence you want to trim.
2. Click the **Trimmer** button in the Playback Channel window.



The Trimmer window appears:



3. Change the Mark In and Mark Out points for the clip.
4. Click **OK**.



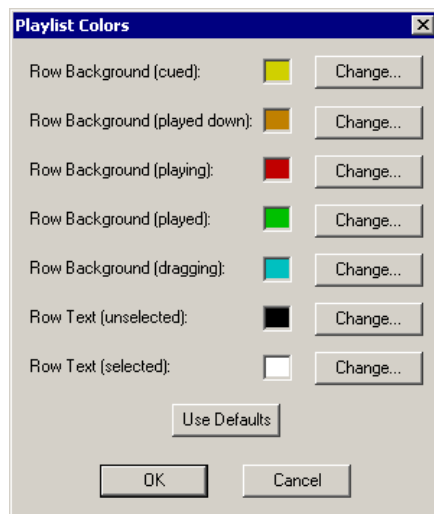
Changing Playback Colors

In the playback list, different colors indicate the playback status of sequences.

To change the playback colors:

1. Choose **Channels | Playlist Colors**.

The Playlist Colors window appears:



2. Click **Change** for the row color you wish to change.
3. Pick a new color and click **OK**.
4. Change other colors as necessary.
5. Click **OK**.

Archiving Sequences on Tape

The Play to Tape feature records one story at a time, though you can also record stories in groups.

To archive a group of stories, create a playlist with the selected sequences and then record the playlist to tape. It is a good idea to load a clip of black (or a countdown) for approximately 5 seconds in between each sequence. You can record a clip of black and keep it in your MISC folder in your Bin.

To archive your sequences to tape:

1. Create a playlist using the sequences you want to archive.
See “Creating a Playback List” on page 248 for instructions.
2. Press Record on your tape deck.
3. Press the **Play** button in the Playback Channel window.



TIP—You can play through all sequences by pressing **Ctrl + Shift** on the keyboard and simultaneously clicking the **Play** button on the screen, which continuously loops the entire playlist. Turn **Loop Playback off** and **Cue Next After Playback on** to use this feature.



Chapter 13 Sending & Storing Completed Sequences

Appendix **A**














The Aurora Edit Keyboard

This appendix lists all the keyboard functions that control Aurora Edit, including key combinations using the Control and Shift keys.



Appendix A *The Aurora Edit Keyboard*









Icon	Key	Name	Function
	Esc		Unused
	F1		Unused
	F2	Send	Lets you send a clip or sequence to another destination.
	F3	Match Frame to Bin	Matches the selected frame in the Timeline to the exact frame in the Bin and becomes the Clip Source.
	F4	Match Frame to Source	Matches the exact frame of the clip and loads the timecode into the Mark In of the first remote source.
	F5	Cut Mark In; Refresh	Cuts the beginning of the clip (the top) off the selected clips on the Timeline; In the Bin, refreshes bin folders and displays any newly imported files.
	F6	Cut Mark Out	Cuts the end of the clip, the tail, off the selected clips on the timeline.
	F7	Go to Mark In	Moves to the Mark In point.
	F8	Go to Mark Out	Moves to the Mark Out point.
	F9	Overwrite Mode	Allows you to overwrite clips to the Timeline.
	F10	Splice Mode	Allows you to splice clips to the Timeline.
	F11	Fit To Fill	Lets you create fit to fill clips.
	F12	Record	Starts recording from source or source bin.
	~	Play	Plays the Timeline, source or clip.
	Shift + ~	Add Handles	In the Source Tool, toggles clip handles on and off. When on, handles appear as additional frames on the slider in the Viewing Monitor.

Icon	Key	Name	Function
	1	Timeline Tool	Selects and moves items on the Timeline.
	2	Source Tool	Views the source.
	Ctrl + 2	Quick Edit	In the Source Tool, toggles Quick Edit mode on and off. When on, Aurora Edit automatically switches you to the Source Tool after an edit to the Timeline.
	3	Trim Tool	Trims Mark In and Mark Out points in your clips.
	4	Cut Point Edit Tool	Trims the cut points between adjacent clips.
	5	Transition Tool	Adds transition effects to your clips.
	6	Audio Mixer Tool	Adjusts the audio tracks in your clips.
	Ctrl + 6	Show All Tracks	Display all of the audio tracks on the Timeline.
	7	Audio Effects Tool	Adjusts the Audio EQ in your clips and disguises voices.
	8	Video Effects Tool	Creates video effects to use on your clips, such as blurs and Picture-in-Picture.
	Ctrl + 8	Effects (FX)	Toggles the Effects Track (FX) on and off.
	Shift + 8	Add Effect	Adds a blank effect to the Timeline.
	9	Input Tools	Lets you adjust the Audio EQ in a clip while it is recording.
	0	Collapse Sequence	Collapses a clip in a sequence to close a gap between media.
	(-)	Zoom out	Zooms the view in the Timeline out.
	(+)	Zoom in	Zooms the view in the Timeline in.
	Q	Play From Start	Plays sequence or clip starting at the beginning.
	Ctrl + Q	Eject	Ejects tape from tape deck.



Appendix A *The Aurora Edit Keyboard*









Icon	Key	Name	Function
▶	W	Play	Plays the Timeline, source or clip.
	Ctrl + W	Run Effect	Plays the video effect from the beginning.
	Shift + W	Reverse Play	Plays sequence in the Timeline in reverse.
◀◀	E	Rewind	Rewinds for both Timeline and Source.
▶▶	R	Fast Forward	Fast Forwards for both Timeline and Source.
	Ctrl + R	Record	Starts recording from source or source bin.
	Shift + R	Rename	In the Bin, lets you change the name of a selected clip or sequence.
	Ctrl + Shift + R	Render Selected	Renders the selected effect.
◁→	T	Trim Mark Out	Trims the Out point in the Cut Point Edit Tool; changes the duration of the sequence.
	Ctrl + T	Title Tool	Adds titles and graphics to your sequences.
←▷	Y	Trim Mark In	Trims the In point in the Cut Point Edit Tool; changes the duration of the sequence.
	Ctrl + Y	Redo	Re-applies the last edit for which you used the Undo command.
◁▷	U	Trim Both	Trims both the In and Out points in the Cut Point Edit Tool; doesn't change the duration of the sequence.
▴	I	Mark In	Marks an In point.
	Ctrl + I	Go to Mark In	Moves to the Mark In point.
	Shift + I	Mark Audio In	Creates an Audio Mark In point for either the Timeline or the source.
▾	O	Mark Out	Marks an Out point.
	Ctrl + O	Go to Mark Out	Moves to the Mark Out point.
	Shift + O	Mark Audio Out	Creates an Audio Mark Out point for either the Timeline or the source.

Icon	Key	Name	Function
	P	Clear Mark In	Clears the In point.
	Ctrl + P	Sequence Properties	Displays the Sequence Properties for the current sequence in the Timeline.
	Shift + P	Clear Audio In	Clears the Audio In point.
	Alt + P	Clear All Mark Points	Clears all points in the Timeline and Source Tools.
	[Clear Mark Out	Clears the Out point.
	Shift + [Clear Audio Out	Clears the Audio Out point.
]	Lift Selection	Lifts selected clip out of the sequence, leaving black and silence.
	Ctrl +]	Lift Area	Lifts the area between the Mark In and Mark Out points.
	\	Split Clip	Splits the selected clip at the cursor point.
	A	Back 1 Frame	Moves cursor one frame back on the Timeline.
	Ctrl + A	Aux Input	Switches to the auxiliary input source.
	Shift + A	Show Audio Marks	Toggles the video and audio Mark In and Out points.
	S	Forward 1 Frame	Moves cursor one frame forward on the Timeline.
	Ctrl + S	Save	Saves your sequence.
	Shift + S	Select All	Selects all clips, effects, graphics, and audio clips on the Timeline.
	D	Back 10 Frames	Moves cursor 10 frames back on the Timeline.
	Ctrl + D	Back 1 Second	Moves cursor 1 second back on the Timeline.
	Shift + D	Deselect All	Removes the highlight on all items on the Timeline.
	F	Forward 10 Frames	Moves cursor 10 frames forward on the Timeline.
	Ctrl + F	Forward 1 Second	Moves cursor 1 second forward on the Timeline.
	Ctrl + Shift + F	Insert Filler	Places a gap between the clip at the cursor location.



Appendix A *The Aurora Edit Keyboard*

Icon	Key	Name	Function
←	G	Previous Cut Point	Moves cursor to the previous cut point.
	Ctrl + G	Graphic	Toggles the Graphics Track (G) on and off.
→	H	Next Cut Point	Moves cursor to the next cut point.
V	J	Video 1	Toggles video track V1 on and off.
	Ctrl + J	Video 2	Toggles video track V2 on and off.
	Shift + J	Sync Lock V1	Toggles the video sync lock on and off for V1.
A1	K	Audio 1	Toggles audio track A1 on and off.
	Ctrl + K	Audio 5	Toggles audio track A5 on and off.
	Shift + K	Sync Lock A1	Toggles the sync lock on and off for A1.
	Ctrl + Shift + K	Sync Lock A5	Toggles the sync lock on and off for A5.
A2	L	Audio 2	Toggles audio track A2 on and off.
	Ctrl + L	Audio 6	Toggles audio track A6 on and off.
	Shift + L	Sync Lock A2	Toggles the sync lock on and off for audio track A2.
	Ctrl + Shift + L	Sync Lock A6	Toggles the sync lock on and off for A6.
A3	;	Audio 3	Toggles audio track A3 on and off.
	Ctrl + ;	Audio 7	Toggles audio track A7 on and off.
	Shift + ;	Sync Lock A3	Toggles the sync lock on and off for audio track A3.
	Ctrl + Shift + ;	Sync Lock A7	Toggles the sync lock on and off for A7.
A4	'	Audio 4	Toggles audio track A4 on and off.
	Ctrl + '	Audio 8	Toggles audio track A8 on and off.
	Shift + '	Sync Lock A4	Toggles the sync lock on and off for A4.
	Ctrl + Shift + '	Sync Lock A8	Toggles the sync lock on and off for A8.

Icon	Key	Name	Function
	Z	Move Clip Previous Cut Point	Moves the selected clip to the previous cut point.
	Ctrl + Z	Undo	Removes the last edit you did.
	X	Move Clip Next Cut Point	Moves the selected clip to the next cut point.
	Ctrl + X	Cut	Removes the selected clip from the Timeline.
	C	Copy To Timeline	Copies selected clips from Bin as well as Timeline clip sources to the Timeline. In the Record to Bin window, adds a clip to the Batch Capture list.
	Ctrl + C	Copy	Copies selected clip or sequence in the Bin.
	Shift + C	Load Clip to Source	Takes a clip from the Bin and loads it as a source.
	V	Extend Edit	Extends an edit past the end of the clip using handles.
	Ctrl + V	Paste	Pastes the clip or sequence in the Bin.
	Shift + V	Render All	Renders all unrendered transitions or other effects.
CTL	B	Timecode/Control Track	Toggles between Timecode and Control Track.
	Ctrl + B	FX	Toggles the Effects Track (FX) on and off.
	N	Reset Control Track	Resets the Control Track to 00:00:00:00.
	M	Select Previous Clip	Selects the previous clip in the sequence.
	Ctrl + M	Move to Mark In point	Moves the selected clip to the Mark In point.
	Shift + M	Mixdown Selected	Layers the selected effect into the video track immediately below it.
	,	Select Next Clip	Selects the next clip in the sequence.
	.	Select Previous Track	Selects a clip on the previous track in the sequence.



Appendix A *The Aurora Edit Keyboard*

Icon	Key	Name	Function
	/	Select Next Track	Selects a clip on the next track in the sequence.
	Space Bar	Stop/Record	Toggles between recording and stopping recording.
Pause Break	Pause	Enable Vary Speed	Enables variable speed controls in the Source Tool.
Insert	Insert	Insert Keyframe	In the Video Effects Tool, adds a keyframe to the currently selected effect.
	Ctrl + Insert	Modify Keyframe	In the Video Effects Tool, applies your changes to the current keyframe.
	Shift + Insert	Modify All Keyframes	In the Video Effects Tool, allows you to apply changes to one keyframe to all keyframes within an effect.
Home	Home	Go to Start	Moves the position to the beginning of a clip or sequence.
Page Up	Page Up	Previous Vary Speed	In the Source Tool or Trimmer, selects the previous variable speed.
		Previous Keyframe	In the Video Effects Tool, goes to the previous keyframe for the effect.
Delete	Delete	Delete Selection	Deletes the selected clip from the Bin or the Timeline.
	Ctrl + Delete	Delete area	Deletes the selected area from the Bin or the Timeline.
	Shift + Delete	Delete All Keyframes	In the Video Effects Tool, deletes all keyframes from the current effect.
End	End	Go to End	Moves the position to the end of a clip or sequence.
Page Down	Page Down	Next Vary Speed	In the Source Tool or Trimmer, selects the next variable speed.
		Next Keyframe	In the Video Effects Tool, goes to the next keyframe for the effect.
	Left arrow	Shuttle Rewind	Shuttles left in increments of -50%, -75%, -1x, -2x, -3x.

Icon	Key	Name	Function
→	Right arrow	Shuttle Fast Forward	Shuttles right in increments of +50%, +75%, +1x, +2x, +3x.
↑	Up arrow	Shuttle Default Speed	Resets shuttle speed to its default speed.
↓	Down arrow	Shuttle Previous Speed	Selects previous shuttle speed.
←	Numberpad 4	Move Clip Left 1 Frame	Moves the selected clip on the Timeline backwards one frame.
	Ctrl + Numberpad 4	Move Clip Left 10 Frames	Moves the selected clip on the Timeline backwards 10 frames.
→	Numberpad 6	Move Clip Right 1 Frame	Moves the selected clip on the Timeline forward one frame.
	Ctrl + Numberpad 6	Move Clip Right 10 Frames	Moves the selected clip on the Timeline forward 10 frames.



Appendix A The Aurora Edit Keyboard

Appendix **B**

Video Effects

This appendix lists all of the video effects you can create within your sequences, a description of each, and the options available for each effect.

To learn about creating video effects, see Chapter 11.



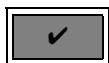
How Video Effects Work Together

Most video effects can be used alone or in conjunction with other effects to create a different, more complex effect. The Blur effect is the only effect that cannot be used alone; you must combine it with the Key Shape effect.

Effects

This table shows which video effects can be combined with Aurora Edit.

Effects	Resize	Key Shape	Blur	Mosaic	Color Effect	Proc Amp	Color Correct	Color Invert	Mirror Vertical	Mirror Horizontal	Luma Key	Chroma Key	Warp
Resize	✓					✓		✓	✓	✓			
Key Shape		✓	✓	✓	✓	✓		✓	✓	✓			
Blur		✓	✓										
Mosaic		✓		✓									
Color Effect		✓			✓								
Proc Amp	✓	✓				✓		✓	✓	✓			
Color Correct							✓						
Mirror Vertical	✓	✓				✓		✓	✓	✓			
Mirror Horizontal	✓	✓				✓		✓	✓	✓			
Luma Key	✓					✓					✓		✓
Chroma Key	✓					✓						✓	✓
Warp	✓					✓					✓	✓	✓



You can only use the Blur effect in conjunction with the Key Shape effect.

Keyframes

Within the Video Effects Tool, some parameters are keyframeable and some are not. That is, if a parameter is keyframeable, the parameter can change from one keyframe to the next. If a parameter is not keyframeable, that parameter is used for the entire effect and cannot change across keyframes.

The type of effect is not keyframeable. The following tables list the type of effect, its parameters and options, and whether each is keyframeable.

Effects

Effect	Parameter	Keyframeable	
		Yes	No
	Track Selection		✓
	Path	✓	
Resize and Key Shape Effects	X-Position	✓	
	Y-Position	✓	
	Z-Position	✓	
	X-Aspect	✓	
	Y-Aspect	✓	
	Shape		✓
Blur	Defocus	✓	
	O-Soft		✓
Mosaic	Size	✓	
	O-Soft		✓
Color Effect	Opacity	✓	
	Color	✓	



Appendix B Video Effects

Effect	Parameter	Keyframeable	
		Yes	No
Proc Amp	Gain	✓	
	Chroma	✓	
	Setup	✓	
	Hue	✓	
	Background	✓	
Color Correct	White Balance	✓	
	White Clip	✓	
	Black Balance	✓	
	Gamma Balance	✓	
Mirror Vertical			✓
Mirror Horizontal			✓
Luma Key	Clip	✓	
	Gain	✓	
Chroma Key	Hue	✓	
	Range	✓	
	Threshold	✓	
	Softness	✓	
	Suppress	✓	
	Luma Suppress	✓	
	Chroma Suppress	✓	

How Video Effects Work Together

Effect	Parameter	Keyframeable	
		Yes	No
Warp	Type		✓
	Amplitude	✓	
	Aspect	✓	
	Axis Angle	✓	
	Curve	✓	
	Edge Softness	✓	
	Frequency	✓	
	Offset	✓	
	Radius	✓	
	Skew	✓	
	Skew Amplitude	✓	
	Skew Angle	✓	
	Split Softness	✓	
	Transparency	✓	
	X-Position	✓	
	X-Size	✓	
	Y-Position	✓	
Y-Size	✓		



Effects and What They Do

Each video effect has a different function and different adjustment controls.

Resize

You can use the Resize effect with a single video track or with both video tracks (V1 and V2). You can also use a Resize effect in conjunction with the Proc Amp, Color Invert, Mirror Vertical, and Mirror Horizontal effects. When you use resize with one video track, you are generally enlarging the image. Enlarging lets you zoom in on a still image, remove a logo, or highlight print. When you use resize with two video tracks, you create a Picture-in-Picture (PIP) with V2 in the foreground and V1 in the background.

To resize an image, use the slide control or adjust the dials.



Option	Range	Description
X-Position	-32 to +32 (4:3) -128 to +128 (16:9)	Moves the image left or right.
Y-Position	-24 to +24 (4:3) -72 to +72 (16:9)	Moves the image up or down.
Size	0 to 4	Moves the image closer or farther away.
X-Aspect	0 to 4	Adjusts the image width left to right.
Y-Aspect	0 to 4	Adjusts the image height top to bottom.
Shape	Change the shape of the Key Shape effect by clicking the Change button on the Effects tab, selecting a new shape, and clicking OK .	

Key Shape

You can use the Key Shape effect with a single video track or with both video tracks (V1 and V2). You can also use a key shape effect in conjunction with these effects: Blur, Mosaic, Color Effect, Proc Amp, Color Invert, Mirror Vertical and Mirror Horizontal.

When you use a Key Shape effect with one video track, you can create a variety of effects. You can apply a Blur or Mosaic effect in conjunction with the key shape to block out a face. You can also use this effect for other purposes, including creating a highlight with Proc Amp and bringing up the gain of the video image through a small hole, adding a gray blotch if the Blur and Mosaic effects aren't sufficient, or creating a spotlight effect.

You use two video tracks with the Key Shape effect in much the same way as you use a PIP. However, a Key Shape effect only provides the shape instead of resizing the image. In order to see the key shape image, you need to choose V2 to be over V1 in the Video Effects Tool (Select **V2/V1** from the Track drop-down box in the Effects tab). The key shape appears to “punch a hole” through V1 with the V2 image displaying in the key.

To position a Key Shape effect, drag the image in the Video Window or use the Left and Right arrow keys on the keyboard.

Option	Range	Description
X-Position	-32 to +32 (4:3) -128 to +128 (16:9)	Moves the key shape left or right.
Y-Position	-24 to +24 (4:3) -72 to +72 (16:9)	Moves the key shape up or down.
Size	0 to 4	Moves the key shape closer or farther away.
X-Aspect	0 to 4	Stretches or shrinks the key shape from the left and right.
Y-Aspect	0 to 4	Stretches or shrinks the key shape from the top and bottom.
Shape	Change the shape of the Key Shape effect by clicking the Change button on the Effects tab, selecting a new shape, and clicking OK .	



Appendix B Video Effects

Blur

You use the Blur effect to cover up an image that needs to be protected or disguised. When you select the Blur effect, the Key Shape effect automatically turns on. This is because you need the Key Shape effect to select the size, shape, and position of the blur. You cannot create a Blur effect without using the Key Shape effect as well.

When covering up an image throughout a clip, you probably have to move the blur effect several times in order to cover the image as the clip plays. You can do this quickly using the keyboard keys.



Option	Range	Description
Defocus	0 to 5	0 is no blur and 5 is the heaviest blur.
O-Soft	0 to 100	0 is no softness and 100 is full softness for the outside region of the shape.

To create a blur effect using the keyboard:

1. Add a blank effect to the Timeline and select it.
2. Check the Blur checkbox to choose the effect.
3. Find a size and shape for the blur that you like.

Move the slider up or down to change the size of the blur; check the Key Shape box on the Effects tab and click **Change** to change the shape.

4. Move the blur pattern over the image at the beginning of the effect.
5. Hit **Insert** on the keyboard.
This places a keyframe in the effect on the Timeline.
6. Using the **A**, **S**, **D**, and **F** keys, step through the clip to determine if you need to move the blur pattern in order to cover the image.
7. If you need to move the blur, use the left, right, up, and down arrow keys to place the blur pattern over the image.
8. Hit **Insert** on the keyboard.
9. Continue until the end of the clip.

If you need to resize the blur, press the Ctrl + Up and Down keys.



Appendix B Video Effects

Mosaic

You can also use the Mosaic effect to cover up an image that needs to be protected or disguised. When you select the Mosaic effect, the Key Shape effect automatically turns on. This is because you need the Key Shape effect to select the size, shape, and position of the mosaic. Unlike the Blur effect, however, you can turn off the Key Shape effect, giving the entire image a mosaic effect.

When covering up an image throughout a clip, you probably have to move the mosaic effect several times in order to cover the image as the clip plays. You can do this quickly using the keyboard keys.



Option	Range	Description
Size	0 to 5	0 is no mosaic at all and 5 is the largest block size.
O-Soft	0 to 100	0 is no softness and 100 is full softness for the outside region of the shape.

To create a Mosaic effect using the keyboard:

1. Check the Mosaic checkbox to choose the effect.
2. Find a size and shape for the mosaic that you like.
Move the size slider up or down to change the size of the mosaic; check the Key Shape box on the Effects tab, then click **Change** to change the shape.
3. Move the mosaic pattern over the image at the beginning of the effect.
4. Hit **Insert** on the keyboard.
This places a keyframe in the effect on the Timeline.
5. Using the **A**, **S**, **D**, and **F** keys, step through the clip to determine if you need to move the mosaic pattern in order to cover the image.
6. If you need to move the mosaic, use the left, right, up, and down arrow keys to place the mosaic pattern over the image.
7. Hit **Insert** on the keyboard.
8. Continue until the end of the clip.

If you need to resize the mosaic, press the Ctrl + Up and Down keys.

Color Effect

You use the Color Effect either as a standalone effect or in conjunction with the Resize or Key Shape effects to create an area of color.

You can change the color and the opacity to create the effect you want.

Option	Range	Description
Opacity	0 to 100	0 is not visible at all and 100 is opaque.
Color	Standard Windows color picker	Change the color by clicking the Change button on the Effects tab and selecting a new color.



Appendix B Video Effects

Proc Amp

You adjust video levels using the Proc Amp effect. You use this effect either as a standalone effect or in conjunction with the Resize or Key Shape effects.

You use four controls — Gain, Chroma, Setup, and Hue — to alter the entire image or part of the video image.

One way to use the Proc Amp effect is to spotlight an image. You create a key shape within a single track of video, check the Background checkbox, and increase the Gain in order to bring out the spotlight within the video image.



Option	Range	Description
Gain	-100 to +100	-100 appears black and +100 washes out with brightness. 0 is the default.
Chroma	-100 to +100	-100 appears black and white while +100 boosts the color scheme. 0 is the default.
Setup	-100 to +100	-100 crushes the black levels while +100 increases the brightness. 0 is the default.
Hue	-180 to +180	Sweeps from -180 to 180 cycles through the entire spectrum of colors altering the image.
Invert	On or Off	Gives a film negative look to the image by inverting all of the colors within the video image.
Background	On or Off	Within a Resize or Key Shape effect, lets you adjust the background video layer.

Color Correction

You can adjust the colors in a video image using the Color Correct effect.

For a quick color correction, just use the White Balance parameter. For a complete color correction, use the parameters in this order for best results:

- Black Balance
- White Balance
- White Clip
- Gamma Balance

You can adjust colors individually using the dials or automatically. To adjust a dial, click the dial and drag right to increase the value or drag left to decrease the value. Double-click a dial to reset it to 0.

You can also make adjustments entering a value in the box below a dial or by clicking the up and down spin controls beside a value box.

To use automatic color correction:

1. Click a parameter button for the parameter you want to adjust.
Select from White Balance, White Clip, Black Balance, or Gamma Balance.
2. Using the eyedropper on the video image, drag a box around an area that represents the best color for the parameter you're adjusting.
For example, select the "whitest" area if you are adjusting White Balance.



Automatic Color
Correction Eyedropper







Appendix B Video Effects

3. Let go of the mouse.

Aurora Edit adjusts the color in the video image automatically.

4. Repeat steps 1-3 for the other parameters.

Parameter	Option	Range	Description
White Balance 	Red	-100 to +100	Increases or decreases the component's overall level (gain) relative to the other colors; used to achieve "true white" in a specific part of the image. You can adjust each color individually or use the automatic adjustment (select a white area of the image you want to adjust to using the eyedropper).
	Green		
	Blue		
	All		
White Clip 	Red	0 to 108	Limits the values of the red, green, and blue components of an image. You can adjust each color individually or use the automatic adjustment (select a white area of the image you want to adjust to using the eyedropper).
	Green		
	Blue		
	All		
Black Balance 	Red	-20 to +20	Changes the pedestal of the red, green, and blue components of an image; provides a black or null offset for each color component. You can adjust each color individually or use the automatic adjustment (select a white area of the image you want to adjust to using the eyedropper).
	Green		
	Blue		
	All		
Gamma Balance 	Red	1.00 to 4.40	Lets you bring out more detail in a color component; applies different values of gamma to the red, green, and blue components of an image. You adjust each color individually.
	Green		
	Blue		
	All		

Mirror Vertical

You use the Mirror Vertical effect either as a standalone effect or within the Resize or Key Shape effects. This effect flips the image vertically providing an upside-down view of the image.

The Mirror Vertical effect is either On or Off.

Mirror Horizontal

You use the Mirror Horizontal effect either as a standalone effect or within the Resize or Key Shape effects. This effect flips the image horizontally providing a reverse view of the image.

One way to use the Mirror Horizontal effect is to reverse an interview subject either within a PIP or to change story interviews from one side to the other.

The Mirror Horizontal effect is either On or Off.



Appendix B Video Effects

Luma Key

Keying inserts part of one picture into another to create a composite picture. The Luma Key effect uses the color brightness of an incoming source to specify where to cut the hole in the background.

Option	Range	Description
Clip	0 to 100	Adjusts the luminance (brightness) level in the key signal above which the foreground or key fill video becomes visible over the background video.
Gain	0 to 100	Adjusts the sharpness of the key edge.
Invert	On or Off	Lets you see the video below the clip level; used for keying from dark graphics on a light background.

Chroma Key

The Chroma Key effect detects color (rather than luminance) in a video image and replaces it with a new background. You can use this effect to put a reporter sitting in front of a green screen into a background of a mountain scene, making it appear that the reporter is sitting in front of the mountain.

Option	Range	Description
Hue	0 to 359	Sets the color (tint) of the shadow.
Range	0 to 359	Sets the angle of discrimination applied to the chroma when generating a chroma key; the larger this angle is, the wider the range of colors will be which result in an opaque key being generated.
Threshold	0 to 125	Specifies the minimum threshold required to generate a chroma key.
Softness	0 to 100	Controls the gain of the chroma key; the larger the value, the greater the softness.
Suppress	0 to 100	Specifies the angle of chroma suppression used to generate a chroma key.
Luma Suppress	0 to 100	Indicates the amount of suppression applied to the luma when generating a chroma key.
Chroma Suppress	0 to 100	Indicates the amount of suppression applied to the chroma when generating a chroma key.

Option	Range	Description
Invert	On or Off	Causes a hole to be cut in the background where a normal key retains the background, and vice versa; makes the white areas of the key signal produce transparency, and the black areas produce opacity, the opposite of a standard key.

Warp

You use a Warp effect to transform a video image in a nonlinear fashion. A linear transformation is a two-dimensional image attached to a flat plane that moves in a three dimensional space; therefore, a nonlinear transformation bends or curves the plane the image is on. It can also slice the plane into small segments and move those segments individually in different directions or at different rates.

Option	Range	Description
Amplitude	-64 to +64	Sets the gain for the selected shape; affects the sharpness of the warp edge.
Aspect	-1.00 to +1.00	Changes the ratio of the image's width to its height, making it taller or wider than the original image; used with circular warp effects, it stretches the image into an oval shape.
Axis Angle	-180 to +180	Sets the direction the effect moves across the screen.
Curve	0 to 2	Used with circular warp effects, sets the amount of "roll" on the curved shape.
Edge Softness	0 to 100	Sets the amount of softness applied to the underneath edge of a warp effect edge.
Frequency	0 to 25	Changes the wavelength of the warp effect; it affects how many repetitions of the warp effect appear in the image.
Offset	-8.20 to +8.20	Sets the position of the warp effect on the background video.
Radius	0 to 100	Sets the distance from the center to the outer edge of circular warp shapes.
Skew	-1.0 to +1.0	Slants the image in the X (horizontal) and Y (vertical) directions.
Skew Amplitude	-4 to +4	Sets the gain for the slanted image.
Skew Angle	-180 to +180	Sets the angle for the slanted image.



Appendix B Video Effects

Option	Range	Description
Split Softness	0 to 100	Sets the amount of softness of the full-frame edge of a warp effect.
Transparency	0 to 100	Sets how much of the background image you can see through the effect.
X-Position	-12 to +12	Moves the image left or right.
X-Size	0 to 1.00	Used with a Mosaic warp effect, adjusts the size of the box width.
Y-Position	-9 to +9	Moves the image up or down.
Y-Size	0 - 1.00	Used with a Mosaic warp effect, adjusts the size of the box height.

The following table illustrates which warp parameters are available for each warp type.

Warp Effects and Parameters	Amplitude	Aspect	Axis Angle	Curve	Edge Softness	Frequency	Offset	Radius	Skew	Skew Amplitude	Skew Angle	Split Softness	Transparency	X-Position	X-Size	Y-Position	Y-Size
Arrow	✓		✓			✓	✓			✓	✓						
Ball				✓				✓						✓		✓	
Bow Tie	✓					✓	✓		✓								
Bumps	✓					✓	✓		✓								
Bursts	✓		✓			✓	✓			✓	✓						
One Burst																	
Center Burst																	
Circle	✓					✓	✓		✓								
Ellipse	✓					✓	✓		✓								
Goblet	✓					✓	✓		✓								
Hexagons	✓					✓	✓		✓								
Regular																	
Medium																	
Wide																	

Effects and What They Do

Warp Effects and Parameters	Amplitude	Aspect	Axis Angle	Curve	Edge Softness	Frequency	Offset	Radius	Skew	Skew Amplitude	Skew Angle	Split Softness	Transparency	X-Position	X-Size	Y-Position	Y-Size
Hour Glass Regular Thin	✓					✓	✓		✓								
Magnifying Glass Glass 1 and 2	✓	✓				✓		✓						✓		✓	
Melt Horizontal Horizontal 1 - Horizontal 9	✓					✓								✓		✓	
Melt Vertical Vertical 1 - Vertical 9	✓					✓								✓		✓	
Mosaic															✓		✓
Octagon	✓					✓	✓		✓								
Rain Drop	✓					✓	✓		✓								
Sawtooth	✓		✓			✓	✓			✓	✓						
Sine Wave	✓		✓			✓	✓			✓	✓						
Slats	✓		✓			✓	✓			✓	✓						
Splash Hole Burst 5 Ring Ring 1 and 2	✓	✓				✓		✓						✓		✓	
Vortex Worm Hole Vortex 3 and 5	✓	✓				✓		✓						✓		✓	



Appendix B Video Effects

Warp Effects and Parameters	Amplitude	Aspect	Axis Angle	Curve	Edge Softness	Frequency	Offset	Radius	Skew	Skew Amplitude	Skew Angle	Split Softness	Transparency	X-Position	X-Size	Y-Position	Y-Size
Waves	✓	✓				✓		✓						✓		✓	
Single Wave																	
Multi-wave																	

Options For Resize or Key Shape Effects

Effect options can be applied to both Resize and Key Shape effects. Options include the ability to add borders, crop images, or apply drop shadows.

NOTE: *When using the default resize rectangle, you can round the corners of the shape by checking the Rounded Corners checkbox. When you use rounded corners and apply a border or a softness to the rectangle image, the image's edges appear rounded, not square.*

Blend Options

Blend options affect the characteristics of the resize or key shape.

Option	Range	Description
Opacity	0-100	Opacity affects the entire foreground image. The default is 100%, which shows the foreground image and hides the background image. As you change the opacity percentage, the foreground image blends into the background image. Use the opacity option to create fade-ins and fade-outs with Picture-in-Picture (PIP) and to create half-dissolves without fully exposing the background image. 0 is not visible at all and 100 is fully visible.
O-Soft	0-100	The O-Soft option softens the hard line that surrounds the outside of the foreground image. You use O-Soft to blend the outside border of the foreground into the background. 0 is no softness and 100 is the full softness available for the outside region of the shape.
I-Soft	0-100	The I-Soft option softens hard images that are found on the inside border of an image. One way to use I-Soft is to soften a white border for the inside of a PIP. 0 is no softness and 100 is the full softness available for the inside region of the shape.



Borders

You can apply a border to any Resize or Key Shape effect for a 4:3 or 16:9 screen image. You can also change the color and size of a border and add the border from different directions.

Using any of the key shapes, you can alter the border from the left, right, top, bottom, or on all sides. This may mean your image can have an uneven border. To ensure your borders apply evenly, use the dial **All**.

For a 4:3 screen image:

Option	Range	Description
Left	0-8	The 4:3 image is divided into 8 equal sections, making the border larger as the number increases.
Right	0-8	
Top	0-6	
Bottom	0-6	
All	0-4	
Color	Standard Windows color picker	Change the color of the border by clicking the Color icon on the Options tab and selecting a new color.
Type	1 choice	Inside border only.

For a 16:9 screen image:

Option	Range	Description
Left	0-32	The 16:9 image is divided into 32 equal sections, making the border larger as the number increases.
Right	0-32	
Top	0-18	
Bottom	0-18	
All	0-16	

Options For Resize or Key Shape Effects

Option	Range	Description
Color	Standard Windows color picker	Change the color of the border by clicking the Color icon on the Options tab and selecting a new color.
Type	1 choice	Inside border only.

Cropping

You can crop a Resize effect for a 4:3 or 16:9 screen image. Cropping an image trims the foreground image from whatever side you select, either left, right, top, bottom, or from all sides. You can also use cropping to center an image or cut out any unwanted video.

For a 4:3 screen image:

Option	Range	Description
Left	0 to 8	The 4:3 image is divided into 8 equal sections, making the crop larger as the number increases.
Right	0 to 8	
Top	0 to 6	
Bottom	0 to 6	
All	0 to 4	
Lock Crop	On or Off	Locks the size of the image box so you can move the video within it without changing the size of the image box.

For a 16:9 screen image:

Option	Range	Description
Left	0 to 32	The 16:9 image is divided into 32 equal sections, making the crop larger as the number increases.
Right	0 to 32	
Top	0 to 18	
Bottom	0 to 18	
All	0 to 16	



Appendix B Video Effects

Option	Range	Description
Lock Crop	On or Off	Locks the size of the image box so you can move the video within it without changing the size of the image box.

Drop Shadows

You can apply a drop shadow to the foreground image in your effect for a 4:3 or 16:9 screen image. In addition to adding the drop shadow, you can change its color, opacity, and amount of offset.

To position the drop shadow, use the X-Offset and Y-Offset parameters.

For a 4:3 screen image:

Option	Range	Description
Opacity	0 to 100	0 is not visible at all and 100 is opaque.
X-Offset	-4 to +4	-4 is the far left of the foreground and +4 is the far right.
Y-Offset	-3 to +3	-3 is the upper most limit and +3 is lowest limit from the foreground.
All	-4 to +4	-4 places the X-Offset at the left and the Y-Offset at the upper most limit while +4 places the X-Offset at the right and the Y-Offset at the lowest limit from the foreground.
Color	Standard Windows color picker	Change the color of the drop shadow by clicking the Color icon on the Options tab and selecting a new color.

For a 16:9 screen image:

Option	Range	Description
Opacity	0 to 100	0 is not visible at all and 100 is opaque.
X-Offset	-16 to +16	-16 is the far left of the foreground and +16 is the far right.
Y-Offset	-9 to +9	-9 is the upper most limit and +9 is the lowest limit from the foreground.

Options For Resize or Key Shape Effects

Option	Range	Description
All	-9 to +9	-4 places the X-Offset at the left and the Y-Offset at the upper most limit while +4 places the X-Offset at the right and the Y-Offset at the lowest limit from the foreground.
Color	Standard Windows color picker	Change the color of the drop shadow by clicking the Color icon on the Options tab and selecting a new color.

Path Control

You can apply different path types to specific keyframes in your sequence with the Path Control option.

Option	Range	Description
Tension	-10 to +10	Controls the length of the tension vector.
Continuity	-10 to +10	Determines the angle of the path into and out of the keyframe.
Bias	-10 to +10	Determines whether the path is pulled towards the previous or the following keyframe.
Path	None Hold Linear S-Linear Curve	See “Setting a Path for the Effect” on page 218 for a description of each path type.



Appendix B Video Effects

Highlight

The Highlight option adds an accent to Warp effects. Two highlights allow you to use different colors to accent the effect.

Option	Range	Description
Intensity		
Color	Standard Windows color picker	Change the color of the highlight by clicking the Color icon on the Options tab and selecting a new color.

Configuring Aurora Edit

Aurora Edit has many options that let you define how your system is set up. While your Aurora Edit system was pre-configured at the factory, you may want to adjust some options based on how you use Aurora Edit.

This appendix discusses how to:

- Add video sources to Aurora Edit
- Set options
- Set security permissions



Appendix C *Configuring Aurora Edit*

Default Configuration Settings

Your Aurora Edit software sets most configuration options to a default value, as listed below:

Option	Configuration Item	Default Value
Add Source/General	Source Name	<<blank>>
	Description	<<blank>>
	Source Type	Video Source
.../Connections	Video Input	Composite
	Audio Input	Balanced Analog
	Deck Protocol	No remote deck controls
	Comm Port	<<grayed out>>
.../Record Channels	Video	✓
	Channel 1 Audio	A1
	Channel 2 Audio	A2
	Channel 3 Audio	A3
	Channel 4 Audio	A4
.../Preroll	Get Preroll From Deck	✓
	Preroll	3 seconds
	Aux Preroll	3 seconds
.../Record Handles	In Handles	1 second
	Out Handles	1 second
Tools/Options/General	Database Connection Mode	Local Shared
	Default Bins Location	E:\VibrantAVFiles
	NTSC Timecode	SMPTE - Drop Frame
		Dependent on software installation choice

Default Configuration Settings

Option	Configuration Item		Default Value
	Prompt Before Deleting Items		✓
	Test for Invalid Video Server Characters		off
	Map Hot Keys For Non-QWERTY Keyboards		off
.../Video Settings	Compression Type		MPEG2
	Bit Rate		50 mbits
	Chroma Format		4:2:2
	Video Aspect	4:3 (SD)	Dependent on software installation choice
		16:9 (HD)	
	Video Resolution		720x480
	Mix MPEG & IMX Compression Types		off
Use Tape ID		off	
.../Output	Video Connections		Composite
	Audio Connections		Balanced Analog
	Video Output to VGA		Composite
.../Workgroup	Share Name		VibrintAVFiles
.../Send			<<None set up>>
.../Handles	Handle Type	Import	1 second
		Export	1 second
		Trimmer	10 seconds
		Consolidation	10 seconds
		Render	1 second



Appendix C Configuring Aurora Edit

Option	Configuration Item		Default Value
.../Timeline	Audio Input	A1 to A8	1+2
	Undo/Redo Limit		32
	Default Play Speed		200%
	Review Edit Duration		3 seconds
	Output Channels		4
.../Graphics	Initial Duration		5 seconds
	Fade In		10 frames
	Fade Out		10 frames
	Templates Folder		C:/LyricDemo
	Enable Right to Left Input Mode		off
.../Controller	422 Controller Comm Port		None
	USB Controller Comm Port (2)		None
.../Aurora Playout	Primary Database	Server	localhost
	Backup Database	Server	<<blank>>
	Thumbnails	Server	localhost
		Path	C:\
	Background Row Color		<<as is>>
Text Row Color		<<as is>>	

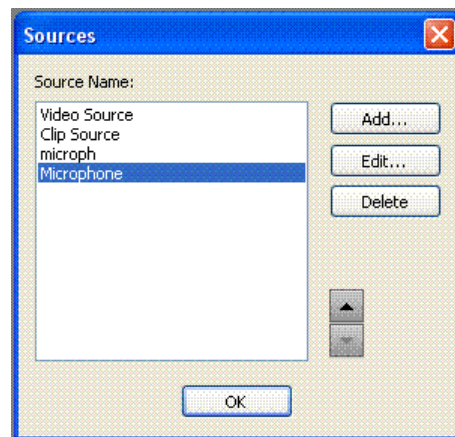
Adding Video Sources to Aurora Edit

Before using footage from a particular source, you need to add the source to the Aurora Edit source list. Aurora Edit pre-installs two sources for you — a video source and a clip source:

- The video source, usually a tape deck, allows you to record footage directly into the Timeline or Bin.
- The clip source allows you to edit a clip as a Timeline source directly in the Bin, which is useful for large clips so you don't have to go back and forth from a tape deck. You only need one clip source; you don't have to create a new clip source for each clip you want to use.

To add other sources to Aurora Edit:

1. Choose **View | Sources**.



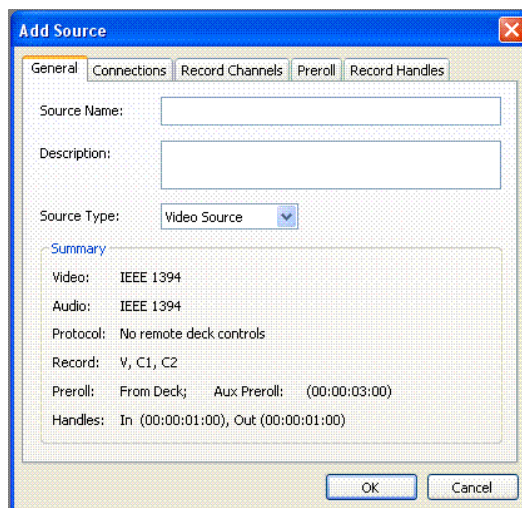
The Sources window appears, listing the currently configured sources.

2. Click **Add**.

The Add Source window appears:



Appendix C *Configuring Aurora Edit*



3. Go through each Add Source tab to configure the new source.
The following sections describe each tab in the Add Source window.
4. Click **OK** when you are done setting up the new source.

Setting General Source Options

Setting	Options	Description
Source Name		Enter a name for the source, such as Tape Deck.
Description		Enter a description for the source.
Source Type	Video Source	Select Video Source for all incoming sources, including audio sources.
	Clip Source	Select Clip Source to use an existing clip in the bin as a source.
	Microphone	Select Microphone for any microphone sources.
	1394 Source	Select 1394 Source when connecting to a specific 1394 source if multiple IEEE devices are present.

Setting Connections

Source Type	Setting	Options	Description
Video Source	Video Input	Composite S-Video Component Serial D1 IEEE 1394	Select the Video Input option that corresponds to the source's connection to Aurora Edit. The S-Video interface requires the Analog Breakout Box; the Serial Digital interface (SDI) requires the Pro Digital/Analog Breakout Box.
1394 Source	1394 Input	<Device Name>	Select the 1394 device you are using.
Microphone	Audio Input	Balanced Analog Unbalanced Analog AES/EBU SDI/Embedded TDIFF IEEE 1394	Select the Audio Input option that corresponds to the source's connection to Aurora Edit. The AES/EBU and SDI/Embedded options require the Pro Digital/Analog Breakout Box.
1394 Source	Deck Protocol	No remote deck controls Sony 422 Protocol Sony DNW-A100 DV 1394	Select the Deck Protocol that corresponds to the type of tape deck control you are using with Aurora Edit. If you are adding a clip source, video router, or a non-video source, select No remote deck controls .
Video Source	Comm Port	None COM1 - COM10	Select the Comm Port you are using to connect the source to Aurora Edit.



Appendix C Configuring Aurora Edit

Source Type	Setting	Options	Description
1394 Source	Input Latency		Enter a duration to add an input latency when using a 1394 converter.
Microphone	Number Loop Tones		Enter a duration to set how many seconds exist between loop record takes; each second, a tone plays through the system speakers.

Setting Record Channels

Setting	Options	Description
Video		Check Video if you want to record video with this source.
Channel 1 Audio	A1 to A8	Check each audio channel that should record audio from this source and select the default audio track (A1–A8) on the Timeline to which you want the channel routed.
Channel 2 Audio	A1 to A8	
Channel 3 Audio	A1 to A8	
Channel 4 Audio	A1 to A8	

NOTE: *Setting up a microphone source that does not record video (audio-only record) greatly reduces the required disk space.*

Setting Preroll

Setting	Description
Get Preroll From Deck	Check Get Preroll From Deck to use the preroll settings from your tape deck instead those configured in Aurora Edit.
Preroll	Enter the number of seconds of preroll to use when recording from this source. This setting overrides the source's Preroll setting unless you check Get Preroll From Deck .
Aux Preroll	Enter the number of seconds of auxiliary preroll you want to use when using an auxiliary input or a non-remote source.

Setting Record Handles

Setting	Description
In Handles	Enter the number of seconds for the In and Out Handle length.
Out Handles	Handles provide the extra frames necessary to trim or add transition effects at the head or tail of a clip. When you Mark In and Mark Out, Aurora Edit begins recording the specified number of seconds before your Mark In and after your Mark Out. Only the material between your marks is edited to the Timeline.



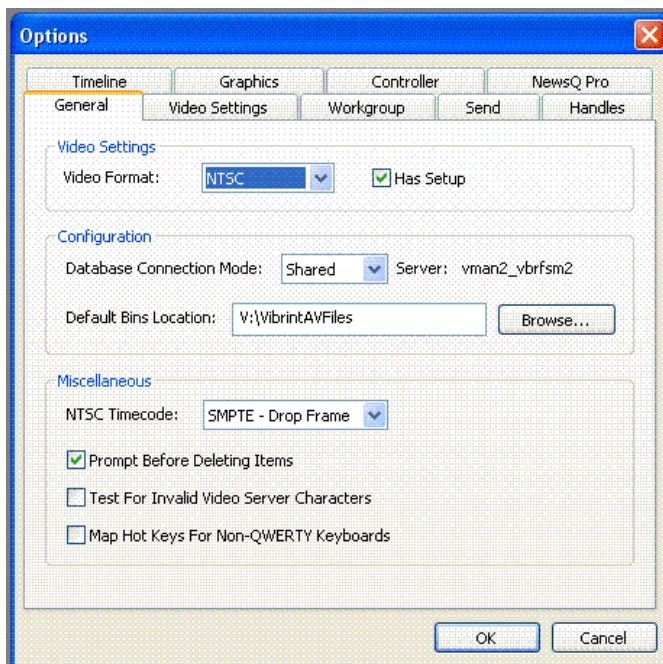
Setting Options

You can configure Aurora Edit options for your equipment and workflow.

To adjust Aurora Edit options:

1. Choose **Tools | Options**.

The Options window appears:



2. Go through each Options tab to set options.

The following sections describe each tab in the Options window.

3. Click **OK** when you are done adjusting options.

Setting General Options

Setting	Options	Description
Database Connection Mode	Local Shared	Select Local if you are using local disk storage and a local Aurora Edit database. You have access to files on your local machine only. Select Shared if you are using shared disk storage and a shared database. You share the Bin with all Aurora Edit workstations that are part of the network, according to security settings.
Default Bins Location		Enter the default path to your media files.
NTSC Timecode	SMPTE - Drop Frame	Recommended setting to avoid the time slipping problems associated with non-drop frame.
	SMPTE - Non-drop Frame	Standard format used to represent timecode.
Prompt Before Deleting Items	On Off	Check this option to receive a confirmation prompt before deleting files.
Test for Invalid Video Server Characters	On Off	Check this option to have Aurora Edit check for invalid characters when creating files, including creating a new clip, creating a new sequence, renaming a Bin object, sending a sequence with a video ID, importing a removable media clip, and editing the name of the sequence when sending to another destination. Invalid characters are: * \ / < > : “ ? [] % & ‘
Map Hot Keys For Non-QWERTY Keyboards	On Off	Check this option to have Aurora Edit keep the color-coded hot key functions in place regardless of the keyboard input language; if unchecked, using a non-QWERTY keyboard causes the hot keys to follow the letter placement on the keyboard, changing the intended order.



Appendix C Configuring Aurora Edit

Configuring Video Settings

Setting	Options	Description
Reference Standard	NTSC (59.94 Hz) PAL (50.00 Hz)	Select the Video Format you are using. NTSC has a frame rate of 29.97 frames/second and is used primarily in the Americas and Japan. PAL has a frame rate of 25 frames/second and is used in Europe, most of Asia, and Australia.
Has Setup	On Off	Check Has Setup if the analog composite signal carries setup information.
Video Format	480i (SD) 720p (1280x720) 1080i (1920x1080)	Select 480i Video Format for an interlaced (i) standard definition (SD) television format. Select 720p for a progressive (p), high definition (HD) television format. Select 1080i for an interlaced, high definition television format.
Compression Type	MPEG2 IMX30 IMX40 IMX50 DV25 DV50	Select a Compression Type. The DV50 and IMX formats are optional and may not be available on all systems.
Bit Rate	4-50 mbits	Enter the Bit Rate specified by your system administrator. More than 25 mbits is optional.
Chroma Format	4:1:1	The 4:1:1 Chroma Format is selected if you use DV25 compression.
	4:2:0	Select the 4:2:0 or 4:2:2 Chroma Format if you use MPEG2 compression.
	4:2:2	Select the 4:2:2 Chroma Format if you use DV50 or MPEG2 compression-- 4:2:2 offers more color resolution than 4:2:0 with MPEG2.
Video Aspect	4:3	Select 4:3 Video Aspect for a standard definition (SD) television format.
	16:9	Select 16:9 Video Aspect for a high definition (HD) television format.
Video Resolution	720 x 512	Select for NTSC systems using MPEG2 compression.
	720 x 480	Select for NTSC systems using DV25, DV50, or MPEG2 compression. You must use 720 x 480 to transfer files to a Profile server.
	720 x 576	Select for PAL systems using DV25, DV50, or MPEG2 compression. You must use 720 x 576 to transfer files to a Profile server.
	720 x 608	Select for PAL systems using MPEG2 compression.

Setting	Options	Description
Mix MPEG and IMX Compression Types		Check this option to allow video clips of both MPEG and IMX compression types to be used on this Aurora Edit system. If you are using IMX compression and sending clips to a Profile for storage and playout, the Profile Server converts the clips to MPEG compression. Therefore, you want to check this option so you can use these clips from the Profile Server at a later time.
Use Tape ID		Check this option to identify which source tape a particular clip came from; used in the Source Tool.

Setting Output Options

Setting	Options	Description
Video Connections	Composite S-Video Component Serial D1	Select the Video Connection option that corresponds to the video source's connection to Aurora Edit. If you are using the Pro Digital/Analog Breakout Box, the Component Y output defaults to a second composite output unless you select Component Video .
Audio Connections	Balanced Analog Unbalanced Analog AES/EBU SDI Embedded TDIFF SPDIF	Select the Audio Connection option that corresponds to the audio source's connection to Aurora Edit.
Video Output to VGA	Composite S-Video	Select the Video Output type for your VGA card.

Setting Up a Workgroup

Before an Aurora Edit workstation can pull media from other Aurora Edit workstations, you need to set up a workgroup.

To set up a workgroup:

1. Verify that your Share Name matches the folder name you configured for Default Bins on the General Tab.

If your Default Bins folder has a different name than **VibrintAVFiles**, change it by typing the name in the Share Name field.

2. Click **Update Workgroup List**.



Appendix C *Configuring Aurora Edit*

The system lists the available machines for file import or export.

3. Click **OK**.

Setting Up Send Locations

After completing a sequence you can send it to a playout machine or to a network video server. To send completed sequences or individual clips, you first need to configure Aurora Edit with each of your send locations.

A send location can be another Aurora Edit workstation, a Media Server, or a Bin you specify. If you want to store completed sequences on your computer, you can also add a send location for your PC.

To set up a send location:

1. Click **Add**.

The Add Named Destination to Send List window appears.

2. Enter the name of the send location.
3. Select the type of location from the drop-down list:

Send Type	Description
Vibrint	Select Vibrint when the send location is another Aurora Edit, FeedClip, or an Aurora Playout system.
Profile	Select Profile when the send location is a Profile Media Server, a K2 Server, or an M-Series iVDR.
Publish	Select when you want to transfer sequences.
GXF ftp	Select GXF ftp to send the completed sequence as a GXF stream which can be used for a generic FTP site.
GXF file	Select GXF file to send the completed sequence as a GXF file.
DV Video ES	Select DV Video ES to send the completed sequence as a DV video elementary stream; used for Publison NewsMix.

4. Configure the send location based on the location type:

Send Type	Option	Description
Vibrint	Use Video ID	Check Use Video ID if you will be linking to stories on a Newsroom Computer System (NRCS) that contain Video IDs. When you send an Aurora Edit sequence to this location, the system uses the Video ID for the name of the file that gets sent.
	Include Graphics	Check Include Graphics if you want all graphics to remain with the sequence.
	Send to	Click Browse and select the file destination path.
Profile	Use Video ID	Check Use Video ID if you will be linking to stories on a Newsroom Computer System (NRCS) that contain Video IDs. When you send an Aurora Edit sequence to this location, the system uses the Video ID for the name of the file that gets sent.
	Include Graphics	Check Include Graphics if you want all graphics to remain with the sequence.
	Send to	Type in drive letter and destination folder; e.g., V: \ default.
	Host Name	Type in the host name of the destination server; e.g., Profile 1.
	User Name	Automatically fills in as movie ; leave as is.
	Password	Leave this field blank.
	Aurora Playout Destination	Check Aurora Playout Destination if this send location is an Aurora Playout server.
	Send as LGOP	Check Send as LGOP to send the Aurora Edit sequence as a GXF stream with MPEG2 LGOP compression. To adjust the MPEG options, click the Settings button.



Appendix C *Configuring Aurora Edit*

Send Type	Option	Description
Publish	Use Video ID	Check Use Video ID if you will be linking to stories on a Newsroom Computer System (NRCS) that contain Video IDs. When you send an Aurora Edit sequence to this location, the system uses the Video ID for the name of the file that gets sent.
	Include Graphics	Check Include Graphics if you want all graphics to remain with the sequence.
	Send to	Click Browse and select the file destination path.
	Render All Effects	Check Render All Effects if you want all transitions and effects rendered before sending.
	Aurora Playout Destination	Check Aurora Playout Destination if this send location is an Aurora Playout server.
GXF FTP	Use Video ID	Check Use Video ID if you will be linking to stories on a Newsroom Computer System (NRCS) that contain Video IDs. When you send an Aurora Edit sequence to this location, the system uses the Video ID for the name of the file that gets sent.
	Include Graphics	Check Include Graphics if you want all graphics to remain with the sequence.
	Send to	Click Browse and select the file destination path.
	Host Name	Enter the name of the server computer.
	User Name	Enter your user name.
	Password	Enter the password for the send location, if you have one.
	Send as LGOP	Check Send as LGOP to send the Aurora Edit sequence as a GXF stream with MPEG2 LGOP compression. To adjust the MPEG options, click the Settings button.

Send Type	Option	Description
GXF File	Use Video ID	Check Use Video ID if you will be linking to stories on a Newsroom Computer System (NRCS) that contain Video IDs. When you send an Aurora Edit sequence to this location, the system uses the Video ID for the name of the file that gets sent.
	Include Graphics	Check Include Graphics if you want all graphics to remain with the sequence.
	Send to	Click Browse and select the file destination path.
	Send as LGOP	Check Send as LGOP to send the Aurora Edit sequence as a GXF stream with MPEG2 LGOP compression. To adjust the MPEG options, click the Settings button.
DV Video ES	Use Video ID	Check Use Video ID if you will be linking to stories on a Newsroom Computer System (NRCS) that contain Video IDs. When you send an Aurora Edit sequence to this location, the system uses the Video ID for the name of the file that gets sent.
	Include EDL For Sequence	Check Include EDL for Sequence if you want an EDL of the sequence sent to the same destination folder as the DV video elementary stream.
	Send to	Click Browse and select the file destination path.
	Aurora Playout Destination	Check Aurora Playout Destination if this send location is an Aurora Playout server.

5. Click **OK**.
6. On the Send tab, check the **GXF Sequence Transfer** box if you want to send sequences via GXF. If unselected, Aurora Edit can send sequences to a Profile Server or K2 in a shared storage system without using a fiber channel IP connection.



Appendix C Configuring Aurora Edit

Setting Handles

Setting		Description
Handle Type	Import	Sets handle duration that will be used when you are importing a file from another workstation to your own.
	Export	Sets handle duration that will be used when you are exporting files from your workstation to another workstation or server.
	Trimmer	Sets handle duration that will be used when you are trimming a clip with the Trim Tool and trim the set duration from either side of your clip.
	Consolidation	Sets handle duration that will be used when you are consolidating a clip or sequence, which reduces the file size by removing unused footage.
	Render	Sets handle duration that will be used when you are using media with effects and transitions; provides handles to effects that are mixed down.

To change the handle durations, select the handle type from the drop-down menu and enter the new duration in the In or Out fields.

Setting Timeline Options

Setting	Options	Description
Audio Output	1+2 3+4 All	Select the output routing for each audio channel and set its pan direction.
Undo/Redo Limit	1 - 1024	Enter the number of undo levels you want Aurora Edit to track. NOTE: Increasing the number of undo levels increases Aurora Edit's system memory usage.
Default Play Speed		Enter the speed at which to play clips when reviewing them in the Timeline. The default Play Speed is 200%.
Review Edit Duration		Enter the amount of preroll to play on a clip prior to playing the edit you're reviewing. The default Edit Duration is 3 seconds.
Output Channels	1-8	Select the number of output channels you are using.

Setting Graphics Options

Setting	Description
Initial Duration	Enter the initial duration for a graphic placed on the Timeline.
Fade In	Enter the number of frames over which the graphic fades in to the clip.
Fade Out	Enter the number of frames over which the graphic fades out to the next clip.
Editor	Indicates whether the Chyron plug-in is installed with the system.
Templates Folder	Enter the path to the Graphics template directory.
Enable Right to Left Input Mode	Check Enable Right to Left Input Mode to use the Title tool with bidirectional languages, allowing users to enter text that reads from right to left.

Setting Controller Options

Setting	Options	Description
422 Controller Comm Port	None COM1 through COM10	If you are using an external controller with Aurora Edit, select the COM port to which it is connected. Otherwise, select None.
USB Controller Comm Port		
USB Controller Comm Port		



Appendix C *Configuring Aurora Edit*

Setting Aurora Payout Options

Setting		Description
Primary Database	Server	Enter the server name where the primary Aurora Payout database resides.
	Ports	Enter the port numbers used to access the primary Aurora Payout database.
Backup Database	Server	Enter the server name where the secondary Aurora Payout database resides.
	Ports	Enter the port numbers used to access the secondary Aurora Payout database.
Thumbnails	Server	Enter the server name where Aurora Payout stores video clip thumbnails.
	Path	Enter the path to the thumbnail directory.
Categories		Lists the currently configured Aurora Payout categories. Categories are set in the SDB Server options and propagated to Aurora Edit. To add a category: Click Add , enter a category name, and click OK .
Background Row Colors		Displays the Background and Text Rows in different colors to alert other editors that this sequence is being edited.
Text Row Colors		

Setting Security Permissions

If you want to use security with your K2 server, refer to the *Open SAN Security Instruction Guide* for details on setting up a domain controller and configuring your system for security.

This section describes how to set security permissions for the Aurora Edit system. You need to be a Domain Administrator to perform this function.

You can set all permissions from one Aurora Edit machine. You need to set permissions in three different places—in the V:\ directory, in Aurora Edit options, and in the Aurora Edit bins.

Setting Initial Shared Volume Permissions

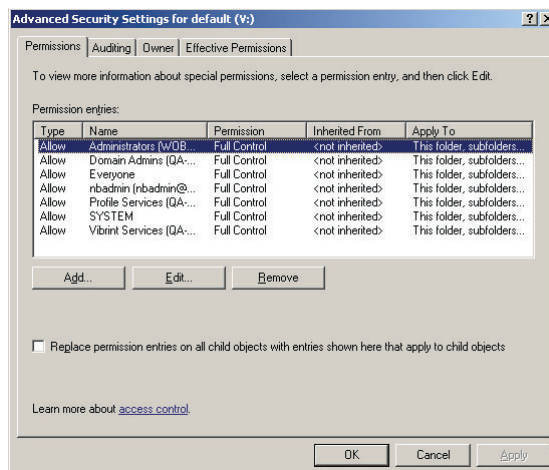
This task assures a uniform starting point in setting volume permissions, essentially establishing the secure volume's permissions to be identical to either a SNFS volume that does not implement Windows Security, or a default NTFS volume.

To set shared volume permissions:

1. Open a cmd window, switch to the V: drive, and type the following:
cacls V:* /T /G Everyone:F
2. Open Windows Explorer, select the V: volume, right-click and select **Properties**.
3. Click the **Security** tab.
4. If necessary, add the user Everyone and allow Full Control.
5. Click **Advanced...** and check the box **Reset permissions on all child objects and enable propagation of inheritable permissions**.



Appendix C *Configuring Aurora Edit*



6. Click **OK** and click **Yes** in response to the dialog **This will remove explicitly defined permissions... Do you wish to continue?**
7. Click **OK** to exit the Properties window.

Setting High Level Shared Volume Permissions

Permissions on the V:\ folders are set using Windows Explorer. First you add the group(s) to the drive and then set security permissions for that group. For the folders that are inheriting permissions from the folder above it, you don't need to set them; they automatically use the permissions they inherit.

	Domain Admins	Everyone	SYSTEM	Archivists	Editors	Ingestors	Producers	Viewers	Profile Services	Vibrint Services
V:\	F	F	F						F	F
V:\media		F*	F*							
V:\PDR	F		F		F	F			F*	F*
V:\Thumbnails	(inherit Full Control from V:\)									
V:\VibrintAttic	(inherit Full Control from V:\)									

F = Full Control

***** = Inherits permissions from the folder directly above it

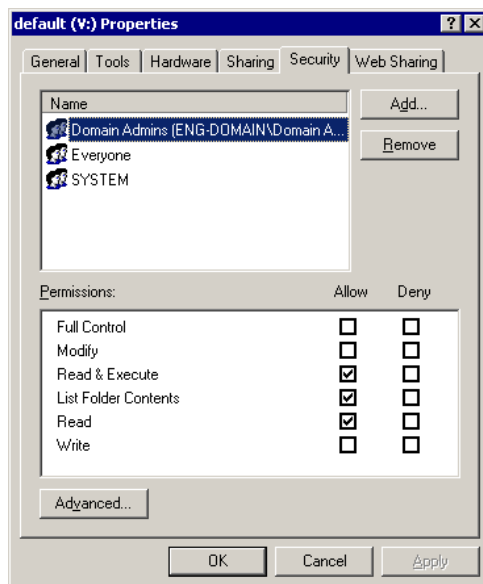
To set permissions on the V:\ folders:

1. Open Windows Explorer and navigate to the V:\ drive.
2. Right-click on the desired folder and select **Properties**.

The default V:\ Properties window opens:



Appendix C Configuring Aurora Edit



3. Under the Security tab, click **Add**.
The Select Users, Computers, or Groups window opens.
4. Select the group you want to add to the drive folder and click **Add**.
The group adds to the bottom pane of the window.
5. Click **OK**.
6. Check the box for Full Control in the Allow column.
7. Click **OK**.
8. Give Full Control permission to the other groups—Domain Admins, Everyone, and SYSTEM.
9. Select the V:\PDR drive and do the following:
 - a. Uncheck **Allow inheritable permissions from parent to propagate to this object**.
 - b. Add these groups: Profile Services, Editors, and Ingestors.
 - c. Set Full Control permissions for these groups.

Setting Aurora Edit Root Level Permissions

Permissions for V:\VibrintAVFiles are set in Aurora Edit options. First you add the group(s) to the drive and then set security permissions for that group. You need to login to this machine as Domain Administrator in order to set root permissions.

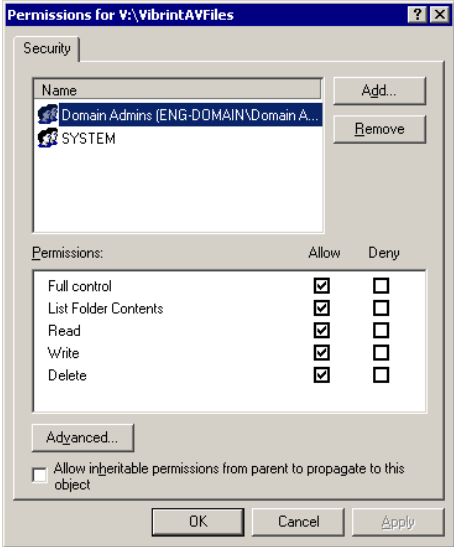
	Domain Admins	Everyone	SYSTEM	Archivists	Editors	Ingestors	Producers	Viewers	Profile Services	Vibrint Services
V:\VibrintAVFiles	F		F	L R	L R	L R	L R	L R	F	F

F = Full Control
 L = List Folder Contents
 R = Read

To set permissions for VibrintAVFiles:

1. Open Aurora Edit and select **Tools | Set Root Permissions**.

The Permissions for V:\VibrintAVFiles opens:

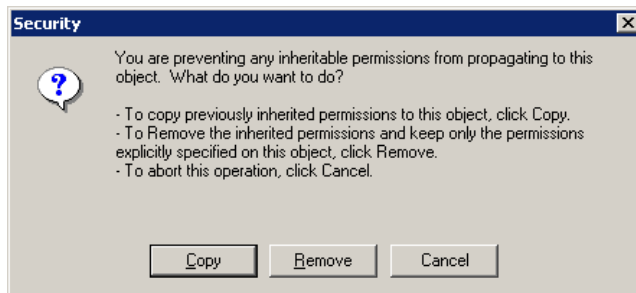




Appendix C *Configuring Aurora Edit*

2. Uncheck **Allow inheritable permissions from parent to propagate to this object**.

A Security message appears:



3. Select **Copy**.
4. Remove the current permissions.
5. Select the Everyone group and click **Remove**.
6. Add each of the groups you created (if you are using the typical security schema, add the groups Archivists, Editors, Ingestors, Producers, and Viewers).
7. Set permissions for each group according to the chart on page 317.
8. Click **OK**.

Setting Aurora Edit Bin Permissions

Permissions for the Aurora Edit bins are set in the Properties tab for each Bin. Follow the instructions below and set the permissions for each bin in your top-level Aurora Edit bin.

	Domain Admins	Everyone	SYSTEM	Archivists	Editors	Ingestors	Producers	Viewers	Profile Services
Monday-Sunday Bins	F*		F*	-W -D	W D	-W -D	W -D	L R*	
Feeds Bin	F*		F*	W -D	-W -D	W D	-W -D	L R*	
HFR Bin	F*		F*	-W -D	W -D	-F	W D	L R*	
Archive Bin	F*		F*	W D	W -D	W -D	W -D	L R*	

F = Full Control

L = List Folder Contents

R = Read

W = Write

D = Delete

- = Deny

***** = Inherits permissions from the folder directly above it

****** = Inheritance is blocked at this level

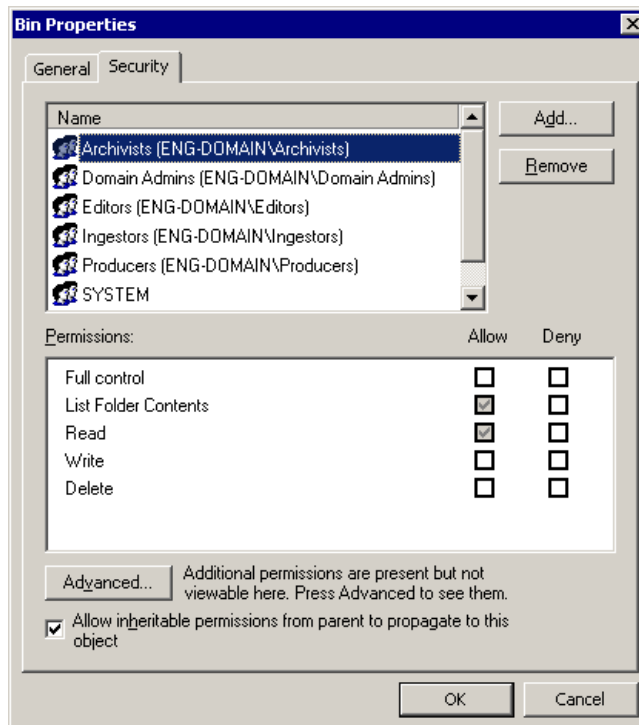


Appendix C *Configuring Aurora Edit*

To set permissions for Aurora Edit bins:

1. In the Aurora Edit bin, right-click on the first bin and select **Properties**.

The Bin Properties window for that bin opens:



2. Click the Security tab.
3. Change permissions for each group listed based on the chart on page 319.
4. Click **OK** when you are done setting permissions.

Appendix **D**

Troubleshooting

This appendix describes the symptoms of various problems you might encounter when using Aurora Edit and offers suggestions for solving each problem.



Appendix D Troubleshooting

Symptom	Description or Action Required
When trying to move an audio clip from the A2 track to the A3 track, you see a <i>No</i> symbol.	<ul style="list-style-type: none"> You must activate the track by clicking A3 to the left of the track before you can move the clip.
In your sequence, you turned off tracks A1 and A2 and turned on A3, but when you record, the audio doesn't record to A3.	<ol style="list-style-type: none"> In the Source tool, click in the Track Assign field under the Audio Input slider for the desired channel. Select A3. Audio for the channel is re-routed to A3. <p>To set a track as the default:</p> <ol style="list-style-type: none"> Choose View Sources and select a Source Name. Choose Edit Record Channels. Choose a default record track for each audio channel.
You see the message <i>Unable to perform edit. Check video 'Mark Ins' and video 'Mark Outs' to make sure you have set a valid editing mode, then try again.</i> when trying to record a split edit.	<p>There is a conflict between the Mark Ins/Outs set on the Timeline and those set in the Source tool.</p> <p>Try removing one or more of your marks in the Timeline or Source tool to reach a valid configuration for recording.</p>
You want to import a clip or EDL, but the menu item is missing from the File menu.	<ul style="list-style-type: none"> Click on the Bin window to make these items available in the File menu.
You want to Record to Bin, but the menu item is grayed out.	<ul style="list-style-type: none"> Click on the Bin window to make Record to Bin available.
You want to Play to Tape, but the menu item is grayed out.	<ul style="list-style-type: none"> In the Bin window, click on the sequence or clip that you wish to Play to Tape.
You're trying to send a clip or sequence, but the Send to File menu item is grayed out.	<p>Try one of these solutions:</p> <ul style="list-style-type: none"> Verify that you selected only one clip or sequence in the Bin window. You cannot send multiple items. If you are sending an open sequence, click on the Sequence window to give it focus before sending. If you are sending an item in the Bin, click to select it.
Someone at another Aurora Edit workstation sent you a clip, but you don't see it in your Bin.	<ul style="list-style-type: none"> Click in the Bin and press F5 on your keyboard or choose Refresh from the View Menu.
You minimized your sequence window and now you can't find it.	<ul style="list-style-type: none"> Choose the sequence from the Window menu to switch back to it.
When you choose Send to File, the Rendering Effects progress dialog comes up.	<p>You can view variable speed and transition effects in the sequence window without rendering them, but you must render them before sending them to another location. After rendering, the Select Destination dialog appears.</p>

Symptom	Description or Action Required
When you choose Update Workgroup under Options, not all other Aurora Edit systems on the network show up.	<p>Try one of these solutions:</p> <ul style="list-style-type: none"> Make sure that each system has a shared <i>VibrantAVFiles</i> folder. Make sure that each system is using the same login password.
You receive the message <i>No material exists beyond one or both clip boundaries to apply transition.</i> when attempting to apply a transition between two clips on the timeline,	<p>To apply a transition, there must be overlapping material between the two clips for the transition to use.</p> <ul style="list-style-type: none"> Overlap the clips slightly and then apply a transition. <p>To avoid this problem, enable the Add Handles button in the sequence window or Record to Bin dialog when recording clips.</p>
You want to adjust the edge softness of a transition, but the Softness slider is grayed out.	You can only apply the Softness setting to Wipe transitions. Select the Wipe category and the slider will be available.
You receive a message that the clip is the wrong frame size, compression, or format when adding a clip to your sequence.	<p>Clips must match the Compression Type, Chroma Format, and Resolution that was set when the sequence was created.</p> <p>To change these settings:</p> <ol style="list-style-type: none"> Choose Tools Options Video Settings. Make any changes to the settings. <p>The settings will take effect for any future sequences or clips that are created.</p>
You receive the message <i>Cannot delete items while windows, other than bins and playback channels, are opened. close all other windows before deleting.</i> when trying to delete a clip from the Bin.	<p>This feature is a safeguard against accidentally deleting clips that are currently in use in an open window.</p> <ul style="list-style-type: none"> Save and close any open sequences or other open windows, and then delete the clip.
You receive the message <i>Not all selected items could be deleted. You must first delete all references to each selected item and make sure the item is not opened for playback or editing.</i> when trying to delete a clip from the bin.	<ul style="list-style-type: none"> Right-click on the clip and choose Show References. <p>A list appears showing any sequences or sub-clips that are currently referencing the clip. If you still need to delete the clip, you must delete it from any sequence that is using it or delete the sequence itself.</p>
You changed a clip to slow-motion on your Timeline but can no longer view the entire clip.	<ol style="list-style-type: none"> Right-click on a clip's video track on the timeline and choose Play Speed. Deselect the Maintain Duration setting to increase the overall clip length and show the entire clip.



Appendix D Troubleshooting

Symptom	Description or Action Required
<p>You are unable to send clips or sequences between your Aurora Edit system and a Grass Valley Profile Server.</p>	<ol style="list-style-type: none"> 1. In Media Manager on the Aurora Edit system, verify that you have added the Profile system by choosing File Add/Remove Machine. 2. In Aurora Edit, verify that you have set up a send destination to the Profile system by choosing Tools Options Send. 3. Using Notepad, open the Hosts file on the Aurora Edit system to verify that the fibre channel ID address of the Profile system is listed along with the <i>Profile name_fc0</i>. The path is C:\WINNT\system32\drivers\etc\Hosts. You may need your IT engineer to check this file. 4. Verify that your fibre switch is showing good connections for both the Aurora Edit system and the Profile (usually indicated by a solid green light). 5. Check the disk space available on the Profile. 6. Verify that checksums are enabled in the Profile Configuration Manager. 7. If you've tried all of the above and still can't connect, try rebooting the Aurora Edit system, Profile, and fibre switch, if possible. Check with your IT engineer before you reboot.
<p>After you send a sequence to a Profile Video Server with an Aurora Playout placeholder associated with it, the Missing box in the Aurora Edit title bar doesn't decrease by one, and placeholder status in the Clip window still doesn't change to OK.</p>	<ol style="list-style-type: none"> 1. Make sure that the SDB Server machine (part of the Aurora Playout system) is connected to the same network with the playout media server. 2. Make sure the SDB Server machine is logged in to the network. <p>If these steps don't work, reinitialize the SDB Server.</p>

Index

A

adding

- borders 288
- fonts for titles 238
- frames to clips 134
- narration 191
- text in titles 237
- transitions 167
- wipe border 173

adding sources

- setting connections 299
- setting general options 299
- setting Preroll 301
- setting record channels 300
- setting record handles 301

adjusting

- audio gain 188
- audio tracks 182
- frequency 197
- gain 197
- mid band Q 197
- pitch 199
- video levels 212
- volume on the fly 189

Advanced Mode, in Title Tool 232

animation sequence, importing 108

AP/ENPS, linking to 77

Apple Final Cut Pro, using with Aurora
Edit 161

archiving sequences on tape 255

area, creating transition for 170

artbox, Proximity 75

assemble edit, definition 246

associating sequence with Aurora Play
placeholder 241

audio 63

- adding narration 191
- adjusting gain 188
- automation 189
- changing levels 179
- master audio sliders 186
- muting tracks 185
- patching tracks 63
- routing output channels 187
- setting output level 186
- setting pan control 183
- soloing a track 184
- working with OMF files 121

audio automation 189

- removing 190
- showing in Timeline 189

audio clip, moving 145

audio crossfades

- applying 176
- using with transitions 176

audio effects

- adjusting frequency 197
- adjusting gain 197
- adjusting mid band Q 197
- adjusting pitch 199
- disguising voice 198
- equalizing audio 195
- randomizing a voice 199

Audio Effects Tool

- description 28
- using 194

Audio Mixer Tool



Index

- description 28
 - using 178
 - audio OMF files 121
 - adding enhancements
 - audio 123
 - AVTransfer 127
 - Digidesign Pro Tools 123
 - exporting Aurora Edit sequence 122
 - Fairlight 127
 - importing enhanced files into Aurora Edit 129
 - Steinberg Nuendo 125
 - audio tracks 67
 - adjusting multiple tracks 182
 - ganging 182
 - routing 63
 - Aurora Edit
 - controlling a deck from 56
 - creating a playback list 248
 - default settings 294
 - definition 20
 - Final Cut Pro 161
 - keyboard 31
 - modes 39
 - navigating 30
 - screen interface 21
 - storing sequences on 247
 - tools 25
 - using removable media 73
 - Aurora Play
 - associating sequence with 241
 - setting options for 312
 - automatic Bin monitoring 41
 - auxiliary input, using 68
 - AVTransfer, using with Aurora Edit 127
- ## B
- background, changing in titles 236
 - batch capture list 87, 89, 91
 - batch recording 86
 - creating batch capture list 87
 - loading batch capture list 91
 - rearranging batch capture list 89
 - recording clips 92
 - saving batch capture list 89
 - Bin 84
 - automatic server monitoring 41
 - creating 38
 - deleting media files 94
 - description 22, 36
 - Details View 47
 - displaying columns 47
 - matching frame to 159
 - recording to 84
 - renaming media files 94
 - searching for files 95
 - security permissions 319
 - setting up 40
 - SmartBins 41
 - sorting media files 48
 - Thumbnail View 45
 - toolbar 37
 - trimming clips in 141
 - using clips stored in 72
 - using context-sensitive menu 49
 - viewing 45
 - bitmaps, importing 104
 - Blur 212

- creating 275
 - definition 274
 - options 274
 - border 288
- C**
- certifications 14
 - changing
 - audio levels 179
 - audio sources 68
 - cut points 135
 - editing modes 147
 - playlist colors 254
 - Timeline view 54
 - transitions 169
 - video sources 68
 - wipe border color 174
 - channel
 - muting 185
 - routing 187
 - soloing 184
 - choosing a video effect 211
 - chroma key 282
 - clip properties, changing 96
 - clip selection keys 33
 - clip source, using 67
 - clips 92, 93
 - changing audio levels 179
 - copying 93, 145
 - copying from artbox 75
 - copying to Timeline 142
 - creating 69
 - deleting 151
 - disguising a voice 198
 - exporting 111
 - finding in Workgroup 76
 - importing 101
 - inserting filler 153
 - lifting from Timeline 149
 - locking duration of 134
 - moving 93, 144
 - moving audio 145
 - pasting 145
 - rearranging 145
 - recording to the Bin 92
 - searching for 76, 95
 - source 67
 - splitting 148
 - stored in Bin 72
 - trimming 132, 133
 - varying the speed of 157
 - color
 - changing wipe border 174
 - color correction 279
 - Color Effect 212
 - definition 277
 - options 277
 - compliances 14
 - configuring Aurora Edit
 - setting Aurora Play options 312
 - setting controller options 311
 - setting general options 303
 - setting graphics options 311
 - setting handles 310
 - setting output options 305
 - setting Timeline undo 310
 - setting up send locations 306
 - setting up Workgroups 305



Index

- video settings 304
- context-sensitive Bin menu 49
- control track, using 159
- controller options 311
- controlling a deck from Aurora Edit 56
- converting files for Final Cut Pro 161
- copying clips 93, 145
 - from Proximity artbox 75
 - to Timeline 142
- crash record 246
- creating
 - batch capture list 87
 - blur effect 275
 - clips 69
 - Fit To Fill 155
 - mosaic effect 277
 - new bin 38
 - new sequence 57
 - playback list 248
 - split edits 158
 - sub-clips 142
 - transitions 167
- criteria, environmental 17
- cropping 289
- crossfades, audio 176
- Cut Point Edit Tool 135
 - description 27
 - keys 33
 - using 135
- cut points, changing 135

D

- database, shared 39
- deck control keys 32
- default configuration settings 294
- definition
 - Aurora Edit 20
- deleting
 - clips 151
 - files 94
 - transitions 169
- description
 - Audio Effects Tool 28
 - Audio Mixer Tool 28
 - Bin 22, 36
 - Cut Point Edit Tool 27
 - Details View 47
 - keyboard 31
 - Source Tool 26
 - Timeline 23
 - Timeline Tool 25
 - Title Tool 29
 - tools 25
 - Transition Tool 27
 - Trim Tool 26
 - Video Effects Tool 29
- deselecting tracks 59
- Details View
 - description 47
 - displaying columns 47
 - sorting files 48
- Digidesign Pro Tools, using with Aurora Edit 123
- disguising a voice 198
- displaying Bin columns 47
- dissolves 172
- drop shadow 290
- duration, locking 134

E

edit mode keys 32

editing

overview 20, 52

sequence properties 58

setting up in Source Tool 62

setting up in Timeline Tool 60

title templates 228

transitions 169

editing modes

changing 147

Fit to Fill 147

Overwrite 147

Quick Edit 147

Splice 147

EDLs

exporting 112

importing files 102

using with Final Cut Pro 161

effect

chroma key 282

luma key 282

Mirror Horizontal 281

Mirror Vertical 281

effect options 287

effects

audio crossfades 176

blur 212

changing 169

color correction 279

color effect 212

creating 167

defining 211

deleting 171

description 172

dissolves 172

exporting 114, 221

importing 103, 209

key shape 212

layering 221

Mirror Horizontal 212

Mirror Vertical 212

mosaic 212

paths 218

proc amp 212

pushes 175

rendering 169, 220

resize 212

saved 208

saving 220

slides 175

using keyframes 215

video 202

viewing in sequence 219

warp 283

wipes 172, 173

enhancements to OMF files 123

environmental criteria 17

equalizing audio

audio input 64

in a recorded sequence 195

export options

media 118

exporting

Aurora Edit sequence for Final Cut
Pro 161

Aurora Edit sequence for OMF file
122



Index

- EDLs 112
 - files 111
 - Final Cut Pro file 164
 - graphic files 115
 - media 116
 - options 118
 - video effects 114, 221
- F**
- fade control points 125
 - adding 179
 - removing 182
 - Fairlight, using with Aurora Edit 127
 - files
 - exporting 111
 - exporting graphic 115
 - importing 100, 104
 - filler, inserting 153
 - Final Cut Pro
 - converting Aurora Edit files 161
 - exporting Aurora Edit sequence 161
 - exporting to Aurora Edit 164
 - importing Aurora Edit sequence 162
 - opening Aurora Edit clip with 163
 - using with Aurora Edit 161
 - finding clips in your Workgroup 76
 - Fit To Fill
 - creating 155
 - definition 147
 - Fit to Fill Mode 147
 - fonts, adding for titles 238
 - foreground image 203
 - frames
 - adding to clips 134
 - freeze frame 156
 - frequency, adjusting 197
- G**
- gain
 - adjusting 197
 - audio 188
 - ganging audio tracks 182
 - getting around Aurora Edit 30
 - graphic files
 - exporting 115
 - importing 104
 - graphics options 311
 - guidelines
 - safety 11
- H**
- handles
 - setting 310
 - using to add frames to clips 134
 - highlight, for warp effects 292
- I**
- importing
 - Aurora Edit sequence for Final Cut Pro 162
 - clips 101
 - EDL files 102
 - effects 209
 - enhanced OMF files into Aurora Edit 129
 - files 100
 - files from Media Server 100

- graphics 104
- media 106
- removable media files 73
- TGA animation sequence 108
- title graphics 236
- video effects 103
- iNews, linking to 77
- input source 67
- Input Tool 64
 - EQ 64
- insert edit 246
- inserting filler 153

K

- Key Shape 212
 - definition 273
 - moving foreground image 203
 - options 273, 287
- keyboard
 - clip and track selection keys 33
 - Cut Point Edit Tool keys 33
 - deck control keys 32
 - description 31
 - description of keys 258
 - edit mode keys 32
 - Mark Point keys 32
 - navigating around Aurora Edit 30
 - tool selection keys 32
 - track selection keys 32
 - transport command keys 32
- keyframes
 - inserting in Timeline 216
 - modifying in Timeline 217
 - using with video effects 215

- keys
 - clip and track selection 33
 - Cut Point Edit Tool 33
 - deck control 32
 - edit mode 32
 - Mark Point 32
 - tool selection 32
 - track selection 32
 - transport command 32

L

- layering video effects 221
- lifting clips 149
- linking to a news service 77
- loading batch capture list 91
- local mode 39
- locking clip duration 134
- luma key 282
- Lyric Plug-in
 - adding fonts 238
 - adding text 237
 - changing title background 236
 - importing graphics 236
 - Properties Window 235
 - toolbar 234
 - understanding 234

M

- Mark Point keys 32
- Mark Points
 - description 60
 - setting 60, 62
- master audio sliders 186
- master clip properties, changing 96



Index

- match frame 159
 - media
 - exporting 116
 - importing 106
 - removable 73
 - media export options 118
 - media files
 - deleting 94
 - renaming 94
 - searching for 95
 - sorting 48
 - Media Import SmartBin 43
 - Media Server
 - importing files from 100
 - Media Server, automatic monitoring 41
 - menus
 - navigating around Aurora Edit 30
 - right-click 30
 - mid band Q, adjusting 197
 - Mirror Horizontal 212
 - effect 281
 - Mirror Vertical 212
 - effect 281
 - mirroring an image 212
 - modes
 - Aurora Edit 39
 - editing 147
 - modifying keyframes 217
 - Mosaic 212, 276
 - creating 277
 - options 276
 - mouse, navigating Aurora Edit 30
 - moving clips 93, 144
 - audio 145
 - moving foreground image 203
 - muting tracks 185
- ## N
- naming source tapes 66
 - narration, adding to audio track 191
 - navigating
 - keyboard 30
 - mouse 30
 - shortcut menus 30
 - news service, linking to 77
 - NewStar, linking to 77
 - Nuendo, using with Aurora Edit 125
- ## O
- OMF files, audio 121, 123, 127
 - opening Aurora Edit clip on Final Cut Pro 163
 - options
 - adding borders 288
 - Aurora Play 312
 - blurring an image 274
 - color effect 277
 - controller 311
 - cropping 289
 - default settings 294
 - graphics 311
 - key shape 273
 - mosaic 276
 - path control 291
 - proc amp 278
 - resize 272
 - setting for your newsroom 302
 - setting up 303, 304, 305

- setting up send locations 306
 - undo 310
 - video effects 213
 - warp highlight 292
- Out Point, making on the fly 134
- overview, editing 20, 52
- Overwrite Edit Mode 147

- P**
- pan control, setting 183
- Panasonic P2 media 73
- pasting clips 145
- patching audio tracks 63, 67
- path control 291
- paths
 - video effect 218
- permissions
 - Bin 319
 - high level shared volume 315
 - initial shared volume 313
 - root level 317
 - setting for security 313
- Picture-in-Picture effect 272
- pitch, adjusting 199
- playback server, sending sequences to 240
- playing
 - sequence 69
 - sequences in the playlist 251
- playing past out 134
- playlist
 - changing colors 254
 - creating 248
 - playing sequences 251
 - trimming sequences 253
- precautions 11, 12
- Preroll, setting for new source 301
- Pro Tools, using with Aurora Edit 123
- Proc Amp 212
 - definition 278
 - options 278
- product support 9
- properties, video effects 214
- Proximity artbox, using files from 75
- pushes 175

- Q**
- Quick Edit Mode 147

- R**
- randomizing a voice 199
- rearranging
 - batch capture list 89
 - clips 144, 145
- record handles, setting for new source 301
- recording
 - batch 86
 - Bin 84
 - Bin via batch capture 92
 - sequences to tape 243
 - using variable speed 62
- recording speed 62
- removable media, with Aurora Edit 73
- removing audio automation 190
- renaming files 94
- rendering
 - transitions 169



Index

- video effects 220
- Resize 272
 - moving foreground image 203
 - options 272, 287
- resizing image 212
- reversing wipes 173
- routing
 - audio tracks 63
 - output channels 187
- S**
- safety guidelines 11
- saved effects in sequences 208
- saving
 - batch capture list 89
 - sequence 70
 - timeline track configuration 146
 - video effects 220
- script, linking to 77
- searching for files 76, 95
- security
 - Bin permissions 319
 - high level shared volume 315
 - initial shared volume 313
 - root level permissions 317
- security permissions, setting 313
- selecting
 - head frame 46
 - source 67
 - track keys 32
 - tracks 59
 - video effect 211
- sending sequences 240
- sequence 69, 70
 - adding a freeze frame 156
 - adding transitions 167
 - archiving on tape 255
 - associating placeholder with 241
 - copying 93
 - creating 57
 - creating transition area 170
 - editing properties 58
 - moving 93
 - playing 69
 - recording to tape 243
 - saving 70
 - searching for 95
 - sending completed 240
 - storing on Aurora Edit 247
 - using saved effects 208
- sequences 93, 122
- service safety 13
- setting
 - audio output level 186
 - Aurora Play options 312
 - controller options 311
 - edits in the Source Tool 62
 - edits in the Timeline Tool 60
 - effect paths 218
 - graphics options 311
 - Mark Points 60, 62
 - options for Aurora Edit 302
 - pan control 183
 - Preroll for new source 301
 - record handles for new source 301
 - split edit 61, 63
- setting up
 - Bins 40

- setting up Aurora Edit
 - default settings 294
 - general options 303
 - output options 305
 - send locations 306
 - setting Aurora Play options 312
 - setting controller options 311
 - setting graphics options 311
 - setting handles 310
 - setting Timeline undo 310
 - setting Workgroups 305
 - SmartBin 41
 - video settings 304
 - shared mode 39
 - Shared SmartBin 43
 - showing audio automation 189
 - slides 175
 - SmartBin
 - for Media Import 43
 - setting up 41
 - Shared 43
 - Transfer 42
 - soloing audio tracks 184
 - Sony XDCam media 73
 - source
 - auxiliary input 68
 - changing 68
 - clip 67
 - matching frame to 160
 - naming tapes 66
 - selecting 67
 - Source Tool 26, 62
 - using 55
 - using Aux Input 68
 - speed, adjusting for recording 62
 - Splice Edit Mode 147
 - Splice Mode 147
 - split edit
 - creating 158
 - setting up 61, 63
 - splitting clips 148
 - spotlight effect 278
 - Steinberg Nuendo, using with Aurora Edit 125
 - storing sequences 247
 - sub-clips, creating 142
 - support 9
- ## T
- tape
 - archiving sequences on 255
 - naming in Source Tool 66
 - recording sequences to 243
 - tape deck
 - controlling from Aurora Edit 56
 - technical support 9
 - templates for Title Tool 225
 - modifying 227
 - text in titles
 - changing edge properties 230
 - changing properties 229
 - selecting 228
 - TGA animation sequence, importing 108
 - thumbnails 45
 - changing size 46
 - selecting head frame 46
 - Timeline
 - adding video effects 207



Index

- changing view 54
- copying clips to 142
- description 23
- lifting clips from 149
- saving track configuration 146
- setting the undo level 310
- toolbar 23
- Timeline Tool 60
 - description 25
 - using 53
- title templates
 - changing edge properties 230
 - changing text properties 229
 - editing text 228
 - selecting a text field 228
- Title Tool
 - advanced mode 232
 - description 29
 - modifying templates 227
 - using 224
 - using Lyric Plug-in 234
 - using templates 225
- toggling tracks on the fly 59
- tool selection keys 32
- toolbars
 - Bin 37
 - Timeline 23
- tools
 - Audio Effects Tool 28, 194
 - Audio Mixer Tool 28, 178
 - Cut Point Edit Tool 27, 135
 - description 25
 - Input 64
 - Source Tool 26, 55, 62
 - Timeline Tool 25, 53, 60
 - Title Tool 29, 224
 - Transition Tool 27, 166
 - Trim Tool 26, 132
 - Video Effects Tool 29, 206
- track selection keys 33
- tracks
 - audio 67
 - deselecting 59
 - muting 185
 - patching audio 63, 67
 - saving configuration of 146
 - selecting 59
 - soloing 184
 - toggling on the fly 59
- Transfer SmartBin 42
- Transfer Tool 100
- Transition Tool
 - description 27
 - using 166
- transitions
 - adding to sequence 167
 - changing 169
 - creating 167
 - creating for area of sequence 170
 - deleting 169, 171
 - description 172
 - dissolves 172
 - pushes 175
 - rendering 169
 - slides 175
 - wipes 172, 173
- transport command keys 32
- Trim Tool 132

- description 26
- using 132
- trimming
 - clips 132, 133
 - clips in the Bin 141
 - sequences in the playlist 253
- troubleshooting 321

U

- undo 310
- updating Workgroups 305
- using
 - audio effects 194
 - saved effects 208
 - video effects 268
- using clip source 67
- using mouse 30

V

- variable speed recording 62
- varying the speed of a clip 157
- video effects
 - adding borders 288
 - adding to timeline 207
 - blur 212
 - choosing 211
 - chroma key 282
 - color correction 279
 - color effect 212
 - cropping 289
 - defining 211
 - defining properties 214
 - description 272
 - drop shadows 290

- exporting 114, 221
- importing 103, 209
- key shape 212
- layering 221
- luma key 282
- Mirror Horizontal 212
- Mirror Vertical 212
- mosaic 212
- moving the foreground image 203
- options 213
- overview 202
- path control 291
- paths 218
- Picture-in-Picture 272
- proc amp 212
- rendering 220
- resize 212
- saving 220
- understanding 203
- using keyframes 215
- using together 268
- viewing in sequence 219
- warp 283
- warp highlight 292
- Video Effects Tool
 - description 29
 - using 206
- video sources
 - changing 68
- viewing Bins 45
 - Details View 47
 - Thumbnail View 45
- viewing effects 219
- voice



Index

disguising 198
randomizing 199

W

warp 283

wipes

- adding border 173
- changing border color 174
- definition 172, 173
- reversing 173

Workgroups

- finding clips in 76
- updating 305