

K2 Dyno S Replay Controller Release Notes Software version 3.2

This document contains the most recent information and supersedes previous publications. Check the Grass Valley website at www.grassvalley.com/docs for an updated version that contains additional important information.

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Grass Valley Web Site

The <http://www.grassvalley.com/support> web site offers the following:

Online User Documentation — Current versions of product catalogs, brochures, data sheets, ordering guides, planning guides, manuals, and release notes in .pdf format can be downloaded.

FAQ Database — Solutions to problems and troubleshooting efforts can be found by searching our Frequently Asked Questions (FAQ) database.

Software Downloads — Download software updates, drivers, and patches.



END-OF-LIFE PRODUCT RECYCLING NOTICE

Grass Valley's innovation and excellence in product design also extends to the programs we've established to manage the recycling of our products. Grass Valley has developed a comprehensive end-of-life product take back program for recycle or disposal of end-of-life products. Our program meets the requirements of the European Union's WEEE Directive, the United States Environmental Protection Agency, and U.S. state and local agencies.

Grass Valley's end-of-life product take back program assures proper disposal by use of Best Available Technology. This program accepts any Grass Valley branded equipment. Upon request, a Certificate of Recycling or a Certificate of Destruction, depending on the ultimate disposition of the product, can be sent to the requester.

Grass Valley will be responsible for all costs associated with recycling and disposal, including freight. However, you are responsible for the removal of the equipment from your facility and packing the equipment to make it ready for pickup.



For further information on the Grass Valley product take back system please contact Grass Valley at + 800 80 80 20 20 or +33 1 48 25 20 20 from most other countries. In the U.S. and Canada please call 800-547-8949, and ask to be connected to the EH&S Department. Additional information concerning the program can be found at: www.grassvalley.com/about/environmental-policy

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Release Summary

What's new in Dyno 3.2

This version of software includes several improvements, in addition to correcting some issues that were present in earlier releases:

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Version 3.2

- **Full Multi-Cam Angle Clips** - Provides proxy support for Multi-Cam Angle assets for GV STRATUS systems. *Sequence* assets look like *Clip* assets (Video, Audio, TC, ANC) to GV STRATUS.
- **Pre-roll** - This setting sets the pre-roll duration of a clip. The duration cannot exceed the guard band duration. Refer to K2 Dyno S Replay Controller User Manual for software version 3.2.
- **Post-roll** - This setting sets the post-roll duration of a clip. The OUT point marker is ignored. The playback stops at the end of the guard band marker. Refer to K2 Dyno S Replay Controller User Manual for software version 3.2.
- **Mark pauses** - This setting allows you to mark clip pauses. Use separate angle to set your mark in/out points for each clip angle. The guard band duration applies to each angle at the time of clip creation. Refer to K2 Dyno S Replay Controller User Manual for software version 3.2.
- **Per-angle keywords and ratings** - Each angle of a Highlight clip must have independent Keywords and Ratings associations.
- **Transition ramping** - Once a mix effect transition is applied, the outgoing clip needs to ramp up or down to realign with the incoming clip that must also ramp up or down. The ramping is applicable for the duration of the mix effect.
- **Exposed Timecode Sources** - All available Timecode sources may be exposed through Dyno.
 1. **Time of Day** - internally generated Windows System Clock timecode source.
 2. **Generated** - generated timecode source. Select either external LTC, ATC LTC, ATVC VITC, or internally generated user-entry.
- **User enhancements** – The following have been enhanced:
 1. Highlight clip remains selected after adding to a playlist.
 2. The angle of a clip may be selected or cued from the clip properties window.
 3. Each clip angle has its own Marks page in the clip properties window.
 4. Shared storage devices mapped on Windows sharing, can now be accessed as a Network Send destination.

Changes and features in previous releases

The following sections describe changes and features in past releases.

Version 3.1

Version 3.1

- **ShareFlex** - Supports sharing a K2 Dyno Replay Controller's record train from one K2 Summit system with another K2 Summit system over the network. Refer to [About ShareFlex](#) on page 12, [ShareFlex connections](#) on page 12 and to K2 Dyno S Replay Controller User Manual for software version 3.1.

Version 3.0

- **K2 Dyno S Replay Controller** – Improved finger gestures for a better user experience.
- **Favorites Bar** – It is best to think of the Favorites Bar as a “shortcut” location for clips, playlists, and record trains. When viewing the controller screen, drag your finger in a downward direction across the tabs on the left-hand side to reveal the Favorites Bar at the top. There you will see empty slots where you may place items, such as clips. To place a clip in the Favorites Bar, select a clip from a Highlight bin by placing your finger on it until it lights blue, then drag and drop it on an empty slot in the Favorites Bar. You may do the same with items in the Library, or even Playlists by navigating to the Playlist thumbnails and drag/drop into the Favorites Bar. A USB mouse can assist in the same way by mouse-click and drag/drop of items. To remove an item from the Favorites Bar, with the mouse only, right click and select “Remove.” It will delete the shortcut, but not the original clip. The Favorites Bar is virtually endless and you may swipe the bar from right to left or left to right. You may drag items from the Favorites Bar into an open Playlist. To hide the Favorites Bar, simply drag your finger an upward direction across the tabs on the left of the screen.
- **Favorites Tab** – Near the bottom of available tabs on the controller screen is the Favorites Tab. This area appears similar to a Highlight bin, but is designed to aid in managing items in the Favorites Bar. Items in the Favorites Tab do not create “hard” copies of items but rather shortcuts to those items. You may copy multiple clips at a time from Highlight bins and paste them in the Favorites Tab. To remove an item from the Favorites Tab, simply right-click on it with the mouse and select “Remove,” or select it with your finger once and press the Shift button then “Delete” key on the screen. It will delete the shortcut, but not the original clip. Deleting items from the Favorites Tab will not delete the original item, it will however, remove those items from the Favorites Bar.

Version compatibility

Versions qualified for compatibility with this version of K2 Dyno software are summarized in the following sections.

Compatible K2 Dyno S Replay Controller components

The following components reside on the K2 Dyno S Replay Controller and are compatible with this release of software as listed in the following table. Compatible versions are pre-installed on the K2 Dyno S Replay Controller when you receive it new from Grass Valley.

Component versions

Component	Version	Comments
K2 Dyno System software	3.2.1.230	Licensing is required on multiple devices of the K2 Dyno S Replay System. Refer to About K2 Dyno S Replay System software licensing on page 13. NOTE: If staying in the same Operating System Image, simple upgrade steps may be performed.
Operating System Image	3.0.3 and 3.1.3	For K2 Dyno S Replay Controller.
	1.0.18	For first-generation K2 Dyno Replay Controller.

Compatible Grass Valley products

Grass Valley products are compatible with this version of K2 Dyno software as follows:

Product	Version	Comments
K2 system software	9.2.0.1964	K2 system software versions lower than 9.2 are not compatible.
K2 Dyno Production Assistant	2.0.2.1870	—
SiteConfig Discovery Agent	2.0.0.200 and higher	—

Upgrading K2 Dyno Replay Controller Software

This section contains the tasks necessary to upgrade the following K2 Dyno models:

- K2 Dyno S Replay Controller
- First generation K2 Dyno Replay Controller.

Follow topics as appropriate for the model you are upgrading.

This section also refers to the upgrade of the K2 system software in relation to any K2 Dyno requirements. The K2 Summit/Solo system must be upgraded to the compatible version before the K2 Dyno software upgrade. Instructions for performing the entire K2 system upgrade are provided in "K2 Release Notes".

K2 Dyno software version 3.2 requires K2 system software version 9.2. This version of K2 system software requires Windows 7 operating system. If the K2 Summit/Solo system you are upgrading is currently at a K2 system software version lower than 9.x, you need to upgrade the hardware on your K2 Summit/Solo system to support these requirements. Consult Grass Valley Support to upgrade the hardware on your K2 Summit/Solo system.

When installing/upgrading the K2 Dyno software, you must consider versions and compatibility for all K2 system components as listed in the Version Compatibility section given earlier in these release notes.

NOTE: *Please read these upgrade instructions completely before proceeding with any upgrades.*

About Dyno software

The software components in the K2 Dyno Replay system are as follows:

- Dyno Client software – This software is for the K2 Dyno Replay Controller application.
- Operating System Image – This is the Windows operating system image on which the K2 Dyno Replay Controller application runs.

The compatible version of K2 Summit system software has the required Dyno support embedded.

About K2 Dyno Replay Controller modes

The K2 Dyno Replay Controller operates in the following modes:

- Dyno mode – The Dyno application is automatically launched at start up.
- Maintenance mode – The Dyno application is closed and the Windows operating system desktop is available for system tasks such as network configuration, software update, and determining Windows Operating System version.

By default, the K2 Dyno Replay Controller is in the Dyno mode. You must manually put the unit in the maintenance mode. In version 3.2, switching to maintenance mode does not require a restart.

Determining Dyno software and Operating System image versions

- To determine the current software version of a first-generation K2 Dyno Replay Controller or a K2 Dyno S Replay Controller, do one of the following:
 - During system start up, find the version on the start up screen, in the lower-left area.
 - During a session, find the version on a panel of the Home screen.
- To determine the Windows Operating System (OS) image version of a first-generation K2 Dyno Replay Controller, do the following:
 - a) During system start up, find the version on the start up screen when the Grass Valley logo appears, in the upper left corner.
- To determine the Windows Operating System (OS) image version of a K2 Dyno S Replay Controller, do the following:
 - a) In the Windows registry, find the version at the following location:

`HKEY_LOCAL_MACHINE\Software\Wow6432Node\Grass Valley Group\Base`

Acquiring Dyno and K2 System software

Refer to the Version Compatibility section earlier in these release notes for a summary of the required K2 system and other system versions needed for this Dyno software upgrade.

Download items at the URL listed below: http://www.grassvalley.com/dl/k2_dyno

1. Download both the K2 Dyno S Replay Controller Release Notes and Upgrade Instructions for this software update (this document) and the compatible K2 Release Notes from the Download page.
2. Download the K2 Summit system software bundle depending on your target environment and the Discovery Agent software if needed.
3. Download the K2 Dyno Replay Controller software downloads, both the Dyno application and if necessary the K2 Dyno S Replay Controller base image (OS).
4. If you need the K2 Dyno S Replay Controller base image (OS), purchase the appropriate upgrade kit from Grass Valley.

Upgrade K2 Summit system for use with the K2 Dyno Replay Controller

Install the appropriate K2 system software bundle (Standalone or SAN) before installing the upgrade for the K2 Dyno S Replay Controller. Links for instructions for these K2 system upgrades and the K2 system software bundles are provided on the K2 Dyno download web page for convenience.

Verify the following tasks are done before upgrading the K2 Summit/Solo system.

- Always check the latest *K2 Release Notes* for any updated information regarding the K2 system upgrade process.
- Be sure you have a K2 system recovery image for the currently loaded software before upgrading the K2 system. Instructions for doing this are provided in the K2 system documentation.

- If upgrading from a K2 system software version earlier than 7.3, a SabreTooth license for this version is required. For information on obtaining a license, refer to the *K2 Release Notes*.

Preparing to upgrade K2 Dyno Replay Controller

Before upgrading a first generation K2 Dyno Replay Controller or a K2 Dyno S Replay Controller, verify the following:

- You have upgraded the K2 Summit system (and related K2 components) associated with this K2 Dyno Replay Controller to the compatible K2 Summit system version according to the Version Compatibility table given in these release notes.
- You have access to the correct software installation bundle for this Dyno release, including the K2 Dyno Replay Controller Client upgrade and if necessary the K2 Dyno S Replay Controller base image (OS).
- You have a recovery image for the K2 Dyno Replay Controller at the current software version. This is on the memory stick included with the K2 Dyno Replay Controller at initial shipment.
- Media access is stopped.
- A mouse must be attached to the K2 Dyno Replay Controller.

Continue with upgrade topics as appropriate for your Dyno model.

- Upgrade K2 Dyno S Replay Controller
- Upgrade first generation K2 Dyno Replay Controller

Upgrade K2 Dyno S Replay Controller

Do the tasks in this section to upgrade a K2 Dyno S Replay Controller.

Re-image K2 Dyno S Replay Controller

Do not do this task if:

- You are upgrading a first generation K2 Dyno Replay Controller
- You are upgrading a K2 Dyno S Replay Controller with an operating system image already at the version specified in this document in the Version Compatibility section

Do this task if:

- You are upgrading a K2 Dyno S Replay Controller with an operating system image that is not at the version specified in this document in the Version Compatibility section.
1. Determine your current operating image version and proceed if a re-image is required.
 2. If you have not already done so, procure the latest "K2 Dyno S Controller Installation and Service Manual".
 3. This document is available on the K2 Dyno software download page.

4. Reimage the K2 Dyno Replay Controller.

Follow instructions in "K2 Dyno S Controller Installation and Service Manual". Refer to the Service Procedures section entitled **Restoring from a generic recovery disk image**.

Related Topics

[Determining Dyno software and Operating System image versions](#) on page 8

Install software on K2 Dyno Replay Controller

1. Copy the directory that contains the Dyno Client software onto a portable USB drive such as a Flash drive.
2. Connect the USB drive to the K2 Dyno S Replay Controller and on the USB drive, locate and open the following file:
DynoSetup.exe
3. Follow the onscreen instructions, and work through each page.
4. Click **Next** and **Close** to complete the installation.
5. Remove the portable USB drive, if it is still connected.
6. Restart using standard Windows procedures.

Upgrade first generation K2 Dyno Replay Controller

Do the tasks in this section to upgrade a first generation K2 Dyno Replay Controller.

Uninstall K2 Dyno Replay Controller software

Do not do this task if:

- You are upgrading a K2 Dyno S Replay Controller

Do this task if:

- You are upgrading a first generation K2 Dyno Replay Controller.
1. At the startup screen, press the **Shift** button and then tap **Exit**.
 2. Toggle the **Startup Screen** button until you see **Maintenance Mode**. If desired, you can also specify to stop recording.
 3. Press **Restart**.

The Dyno Client software closes and the Windows OS desktop is displayed after a restart.

4. Use the Windows **Add/Remove Programs** control panel and remove the Dyno Client software.

Next, install software on the K2 Dyno Replay Controller.

Install software on K2 Dyno Replay Controller

1. Copy the directory that contains the Dyno Client software onto a portable USB drive such as a Flash drive.

2. Connect the USB drive to the K2 Dyno S Replay Controller and on the USB drive, locate and open the following file:

DynoSetup.exe

3. Follow the onscreen instructions, and work through each page.
4. Click **Next** and **Close** to complete the installation.
5. Remove the portable USB drive, if it is still connected.
6. Restart using standard Windows procedures.

Make recovery images

After you have upgraded software as instructed in these procedures and verified that your system is working properly, you should always make a recovery image of each of your upgraded computers. Use a sequence of tasks similar to those you followed for upgrading software so that as you take systems offline you manage redundancy, servers, and clients, as appropriate for your system.

Refer to the Grass Valley product's *Service Manual* for recovery image procedures.

Additional notes

The following sections contain additional information about this release.

About ShareFlex

ShareFlex allows a K2 Dyno S Replay Controller to share content across multiple standalone K2 Summit systems. The K2 Dyno S Replay Controller accesses the content directly over Gigabit Ethernet, with no need to transfer content between the K2 Summit systems. This allows a K2 Dyno S Replay Controller that is controlling a local K2 Summit system to cue remote clips, playlists, and record trains of a different K2 Summit system, without using remote channels.

You can share highlight clips instantly between K2 Summit systems. From your local K2 Dyno S Replay System, you can access a different K2 Summit system to view recorded content, make a clip from a record channel, load and play back a clip, retrieve content from the library, and place a clip in a local playlist.

Key features of ShareFlex are as follows:

- Sharing highlight clips between systems
- Viewing recorded content locally on a different K2 Summit system
- Making a clip from a different K2 Summit system's record channel
- Loading and playing back a clip from a different K2 Summit system
- Retrieving content from the library of a different K2 Summit system
- Placing a clip in a local playlist from different K2 Summit system

ShareFlex connections

A K2 Summit system supports up to four ShareFlex connections at the same time, one of which is guaranteed to be a real-time connection. The number of real-time connections depends on the number of active channel streams. ShareFlex connections beyond the real-time limit share the available network bandwidth, with performance similar to an FTP transfer. In addition, no more than eight total connections are supported.

Real-time connections act as if they are record channels on the K2 Summit system. The total number of active channel streams and real-time ShareFlex connections is subject to the supported channel stream limit for the given media type and bitrate.

The following examples are based on six DVCPROHD (DV100) channel streams, which is the maximum supported on a K2 Summit system.

- Example 1: Two channels are recording DVCPROHD and two channels are playing DVCPROHD. This totals to four real-time streams. That leaves two real-time connections available, and those are used as ShareFlex connections. The total is now six real-time streams, which is the maximum supported. For the remaining two ShareFlex connections supported, the connections are not real time. This means there is a wait, similar to that for an FTP transfer, for the desired asset to be available on the ShareFlex connected system.
- Example 2: Two ChannelFlex channels are recording DVCPROHD, which means each channel records two streams for a total of four real-time streams. In addition, two channels are playing DVCPROHD. The total is now six real-time streams, which is the maximum supported. However, since one real-time ShareFlex connection is guaranteed, there is another real-time connection available for ShareFlex only. The total is now seven connections. Since no more than eight total connections are supported, there is only one connection remaining for ShareFlex. This last ShareFlex connection is not a real-time connection.

Network usage on the network interface connector must be below 80% for ShareFlex to operate at these levels.

The following limitations also apply:

- Limited to the maximum disk bandwidth supported.
- Limited to the network bandwidth available.

About K2 Dyno S Replay System software licensing

K2 Dyno S Replay System software requires a license from Grass Valley for the K2 Dyno S Replay Controller as well as the K2 Summit/Solo system. Licensing is enforced on the K2 Summit/Solo system. No software version license is required on the control point PC.

K2 Summit systems that are used with ShareFlex require a ShareFlex license. K2 Dyno S Replay systems do not need a license to use ShareFlex.

You must obtain a permanent license from Grass Valley and install it on the K2 Summit/Solo system before the trial period expires. For more information on requesting a license, refer to the *K2 Release Notes*.

Passwords and security on the K2 Dyno S Replay Controller

No login is required for the Windows operating system or for the Dyno Replay application.

Importing and using keyword files

The keyword editor is included in the Dyno software folder. You can create keywords and import them to the K2 Dyno S Replay Controller as an XML file.

1. Insert the USB Flash drive in the K2 Dyno S Replay Controller.

2. On the touch screen, select **Library**.
3. Navigate to the drive and folder where the XML file with the keywords is located. (Default name, *Keywords.xml*.)
4. Press **Open**.
5. When asked to confirm, press **Yes**.

NOTE: if you already have a keyword file in use on the Dyno, opening another one will override the original file.

Operational considerations

- Make sure that you create a “first birthday” image of each K2 Dyno S Replay Controller shortly after installation and configuration is complete. Refer to the *K2 Dyno Replay Controller Service Manual* for procedures.
- Live mode latency and the time it takes to switch between video inputs is not the same for all compression types. HD has the shortest latency and long GOP MPEG types like XDCAM have more latency. The HD compression type provides the best performance overall.
- The Dyno/Summit Replay system allows you to switch between highlights with different compression types as well as mix types in a playlist. It takes a small amount of time for the player to switch between compression types, and this time should be considered when doing the following:
 - While switching compression types in a playlist, transitions are ignored.
 - When playing Super Slo-Mo material faster than its default speed (33% or 50%), there may be a short pause when switching to a compression type other than DVCPRO HD.
 - When playing back 3D (video + key) material, use a single compression type. Transitions are ignored when playing back 3D material.
- Decoding long GOP MPEG can take extra time depending on the position of the GOP at the start of the highlight. When you use AutoPlay to start a long GOP MPEG highlight, you may see a short pause before playback begins. Instead of using AutoPlay, select a highlight to pre-load it, and then press the **Take** button
- Flying M/E transitions are limited to 0.5 seconds or less. Playlist transitions can be up to 2 seconds long.
- Single Mark mode has been deferred.
- If you stop and then resume recording, do not create a highlight that spans the boundary between the old and new recording.
- The Dyno record loop algorithm allows you to record an event over several days. It does not allow you to loop forever. Some file system resources are consumed keeping track of the erased portions of the file and eventually run out. Please plan appropriately.
- When upgrading from a Dyno version before 2.0, highlight guard bands are preserved, but clip marks are not.
- If you are not able to get a session to go into Record, check at the Home screen in Dyno to see if there is available record space (sessions may need to be deleted to create adequate space). Incoming sources may not be in Sync. Stop the session, close AppCenter, route “locked” sources such as Black or Bars and restart AppCenter. Launch the session that was intended to be used.
- If sending a clip to an external storage device fails, permission to write to that location may not have been established. Through Windows, gain permission, or create a new folder while determining a Send Path in the Config/Network area of the Dyno. This will give the Dyno permission to write to that location.

Known Issues

The following limitations are present in this release of software. If you wish to obtain more information about these limitations, please mention the reference numbers.

PR26134	Description:	You cannot rename a session once it has started.
	Workaround:	Choose a session name when selecting channels.
PR40482	Description:	A K2 Summit system and K2 Dyno S Replay Controller cannot join an existing session (go Live) if the record channels have the same names as the record channels on the first K2 Summit system.
	Workaround:	On all K2 Summits that are to share sessions, use the AppCenter application to give the record channels unique names.
ncb00040614	Description:	In a playlist, the only valid transition in or out of a black filler is Dissolve, not Matte.
	Workaround:	No workaround.
ncb00040780	Description:	When operating a playlist in 3D (video + key) mode, pressing Take causes a slight delay in video playback while the clip switches.
	Workaround:	This is expected.
DE788	Description:	You cannot use Aux-audio in a playlist in Gang Mode.
ncb00040378	Workaround:	Select only the P1 or P2 channel that the Aux-audio playlist needs to air on.
US4196	Description:	In playlist when using Trim mode, clip information shows entire clip duration including guardbands.
	Workaround:	No workaround.
US3196	Description:	In playlist when using Shift+Divide thumbnail for divided clip takes on that of the original clip.
	Workaround:	No workaround.
US1586	Description:	Deleting clips is slow.
ncb00064356	Workaround:	No workaround. Rather than hide the process, the clip location is not fully available in the file system until the content is completely removed.
DE2596	Description:	Deleting a session takes time.
	Workaround:	Delete sessions prior to creating a new one as part of your pre-production process to allow for space to be created on the drives.
US2506	Description:	In playlist during a transition with off-speed clips, the speed of the outgoing clip is applied to the incoming clip through the transition.

	Workaround:	No workaround.
US1433 ncb00062744	Description:	Some character overlays in the multi-viewer do not appear even though they are applied.
	Workaround:	Resolution of the monitor is not able or set to a high enough rate. Increase the display resolution of the monitor. Minimum monitor resolution is 1024x768.
US1405 ncb00038934	Description:	In an open Highlight Bin, Shift + New does not create a new bin.
	Workaround:	Navigate to the area to view all Highlight Bins to create a new Highlight Bin.
DE4490	Description:	When adding an external storage device to the K2 Summit system, Dyno does not “see” it.
	Workaround:	Plug the device directly into the K2 Dyno S Replay Controller.
ncb00076307	Description:	For users of Dyno software 2.0 and K2 Summit system Build 8.1, the system is configured to use only four audio track. Dyno playlists has eight audio track. Hence, Dyno playlists caused problems for the users to down stream equipment since the other four audio track does not have the associated audio file.
	Workaround:	Configure the K2 Summit Channels audio settings in order to record 8 audio channels and match the playlist configuration in Dyno, prior to exporting the playlists as MXF files.
DE7000	Description:	ShareFlex remote train/session stalls on a K2 SAN system.
	Workaround:	No workaround. The feature is not supported in the current release.
DE6759	Description:	The tOG application crashes after it is launched from the Dyno GUI.
	Workaround:	Do the following steps to restart the application: <ol style="list-style-type: none"> 1. Install tOG software. 2. Add Registry Application for tOG. 3. Start Dyno. 4. To launch the application, select the tOG icon.

Trademarks and agreements

Trademarks

Grass Valley, GV STRATUS, GV Director, K2, Aurora, Summit, ChannelFlex, Dyno, Solo, ClipStore, Infinity, Turbo, Profile, Profile XP, NetCentral, NewsBrowse, NewsEdit, NewsQ, NewsShare, NewsQ Pro, and Media Manager are either registered trademarks or trademarks of Grass Valley USA, LLC. in the United States and/or other countries. GRASS VALLEY® is a registered trademark. Grass Valley USA, LLC. products are covered by U.S. and foreign patents, issued and pending. Additional information regarding Grass Valley USA, LLC. trademarks and other proprietary rights may be found at www.grassvalley.com. Other trademarks and logos used in this document are either registered trademarks or trademarks of the manufacturers or vendors of the associated products, such as Microsoft® Windows® operating system, Windows Media® player, Internet Explorer® internet browser, and SQL Server™. QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple Computer, Inc., used under license therefrom. AVCHD and the AVCHD logo are trademarks of Panasonic Corporation and Sony Corporation. Avid DNxHD is a registered trademark of Avid Technology, Inc., a Delaware corporation.



JPEG acknowledgment

This software is based in part on the work of the Independent JPEG Group.