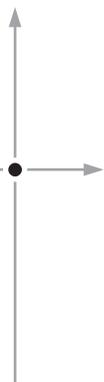


T2

INTELLIGENT DIGITAL DISK RECORDER

User Manual(SP2) — Workstation mode —



14 June, 2010

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About this manual

- The screens used as examples in this manual are those of the development stage, so they may vary from those in the final product.
- If there are any variations between the explanation in this manual and the actual application method, priority is given to the actual application method.
- This manual is written for people who have a basic knowledge of how to use a computer. If there are no special instructions, perform the same operation as a normal computer operation.
- In this manual, the system of the T2 is called "Workstation".

Warning

- Health precautions

In rare cases, flashing lights or stimulation from the bright light of a computer display or TV monitor may trigger temporary epileptic seizures or loss of consciousness. It is believed that even individuals whom have never experienced such symptoms may be susceptible. If you or close relatives have experienced any of these symptoms, consult a doctor before using this product.

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Setup

Overview

The T2 is a multi-channel digital video recorder that allows simultaneous recording and playback of media stored on internal disk drives. The T2 features a single recording channel (R1) and two playback channels (P1/P2). The quantity of hours recorded depends on the video compression settings that are selected. The front panel touch screen and TFT display, along with front panel transport controls, allow easy operation and monitoring with minimal external connections. The T2 also provides a Workstation mode, in which you can connect a keyboard, a mouse, and a VGA monitor to the T2's rear panel. The Workstation mode provides a graphical user interface to handle all essential tasks that are provided in front panel mode, and more.

With the Jog/Shuttle or the external controllers, variable speed playback is available.

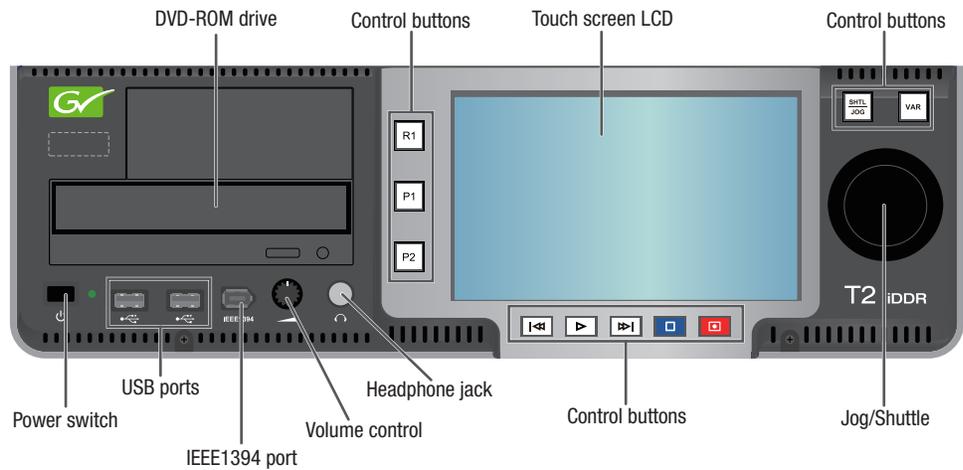
Features

- Supporting a high quality “Canopus HQ Codec”, the T2 can handle videos in full resolution (1920x1080), 4:2:2 color space, and up to 200Mbps.
- The T2 can load and play HQ videos edited on Grass Valley EDIUS, without any additional encoding.
- Equipped with 1 input line and 2 HD/SD-SDI output lines, recording and playback are available simultaneously, as well as playbacks with the 2 output channels perfectly synchronized.
- Supports RS-422A deck controls.
- Supports remote controls via GPI.
- Equipped with a 7-inched touch screen LCD and a jog/shuttle knob, the T2 can be operated as a stand-alone unit.
- With an external display, a keyboard and a mouse connected to the T2, the same operations as those in the Front Panel mode will be available (Workstation mode).
- Supports file import in various formats including QuickTime* and Windows Media.

* QuickTime is not supported in some codecs.

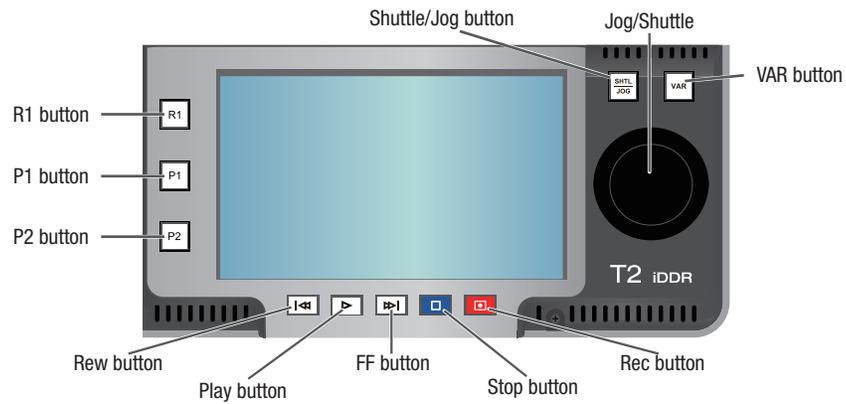
Part names and functions

Front panel



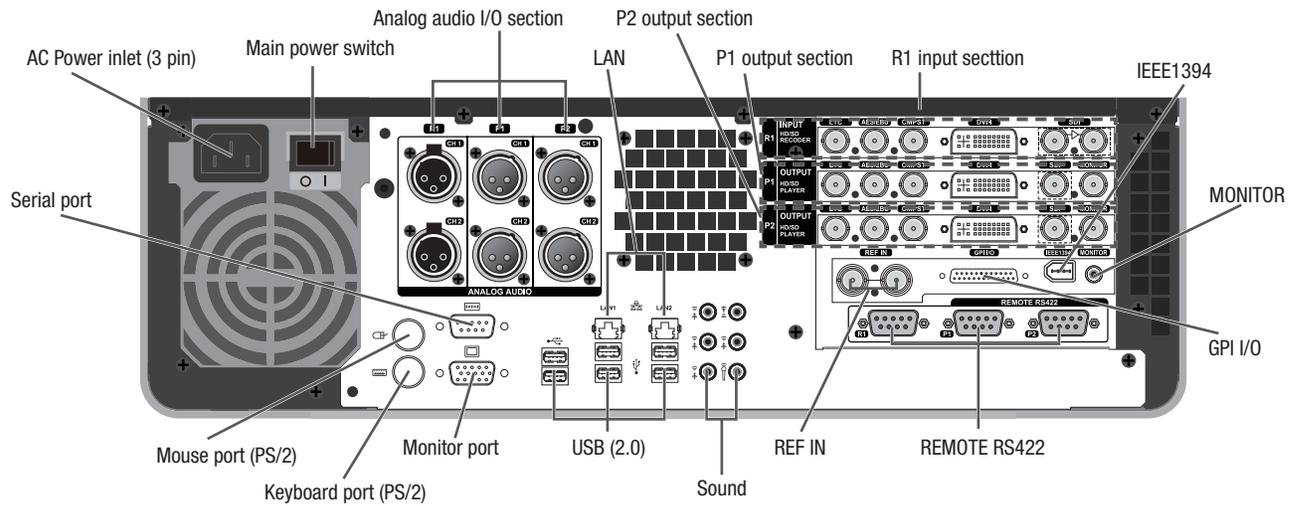
Touch screen LCD	Displays the T2 screens. By touching on the items displayed on screen, T2 can be operated.
DVD-ROM drive	Used to import video/audio media files stored on DVD-ROM. * Does not support DVD-Video playback.
Power switch	Turns on/off the T2.
USB ports	Used to connect USB removable devices.
IEEE1394 port	Used to connect IEEE1394 removable devices. * Does not support the connection of DV/HDV devices.
Volume control	Used to adjust the headphone volume.
Headphone jack	Used to connect a headphone.
Jog/Shuttle	(See next page)
Control buttons	(See next page)

Control buttons



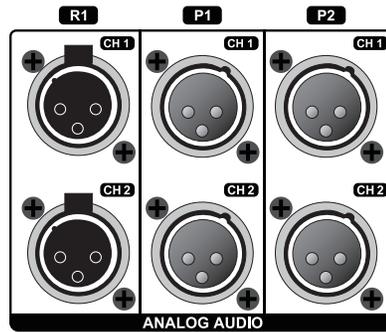
R1 button	Switches the Recorder channel to active.
P1 button	Switches the Player1 channel to active.
P2 button	Switches the Player2 channel to active.
Rew button	Moves back frame by frame. Keep pressing the button will fast-rewind.
Play button	Starts playback.
FF button	Moves forward frame by frame. Keep pressing the button will fast-forward.
Stop button	Stops playback/recording.
Rec button	Starts recording.
Shuttle/Jog button	Makes Jog/Shuttle active. (Switches modes from VAR button.)
VAR button	Executes variable speed playback. (Opens the control screen. Switches modes from Shuttle/Jog button.)
Jog/Shuttle	Executes jog playback, shuttle playback.
Rew + Stop buttons	While playing a clip Moves to the previous IN/OUT point, or the top of the clip. While playing a playlist Moves to the previous event.
FF + Stop buttons	While playing a clip Moves to the next IN/OUT point, or the end of the clip. While playing a playlist Moves to the next event.

Rear panel



AC Power inlet (3 pin)	Use the supplied power cable and connect to the AC power.
Main power switch	Turns the main power ON/OFF.
Analog audio I/O section	Used for analog audio I/O.
Mouse port (PS/2)	Used to connect a mouse.
Keyboard port (PS/2)	Used to connect a keyboard.
Serial port	Not used.
Monitor port	Used to connect a PC monitor.
USB (2.0)	Used to connect a keyboard or mouse.
LAN	Used to connect a LAN cable.
Sound	Not used.
R1 input section	Used for inputting to the R1 channel.
P1 output section	Used for outputting from the P1 channel.
P2 output section	Used for outputting from the P2 channel.
REF IN	Used to input REF signal.
GPI I/O	Used for GPI I/O.
IEEE1394	Used to connect a device via IEEE1394. * Does not support the connection of DV/HDV devices.
MONITOR	Used for audio monitor.
REMOTE RS422	Used for remote control of R1, P1, P2 channels.

Analog audio I/O section



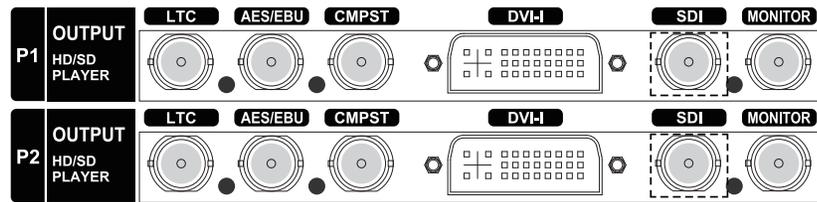
R1 – CH1 R1 – CH2	Used for audio input to the R1 channel. Balanced audio input. XLR-3-31x2 (CH1-2)
P1 – CH1 P1 – CH2	Used for audio output from the P1 channel. Balanced audio output. XLR-3-32x2 (CH1-2)
P2 – CH1 P2 – CH2	Used for audio output from the P2 channel. Balanced audio output. XLR-3-32x2 (CH1-2)

R1 input section



LTC	Used for LTC (timecode) input.
AES/EBU	Used for digital audio (AES/EBU) input.
CMPST	Used for Composite input.
DVI-I	Used for DVI-I input (for DVI, YPbPr).
SDI	Used for SDI input (left), and for active through (right).

P1/P2 output section



LTC	Used for LTC (timecode) output.
AES/EBU	Used for digital audio (AES/EBU) output.
CMPST	Used for Composite output.
DVI-I	Used for DVI-I output (for DVI, RGB, YPbPr).
SDI	Used for SDI output.
MONITOR	Used for monitor output (Composite).

Note The YPbPr signal is input/output via analog RGB pins on the DVI-I port. To output YPbPr, use a RGB conversion connector cable.

Start-up and shutdown

Start-up

The following procedure is to start-up the T2.

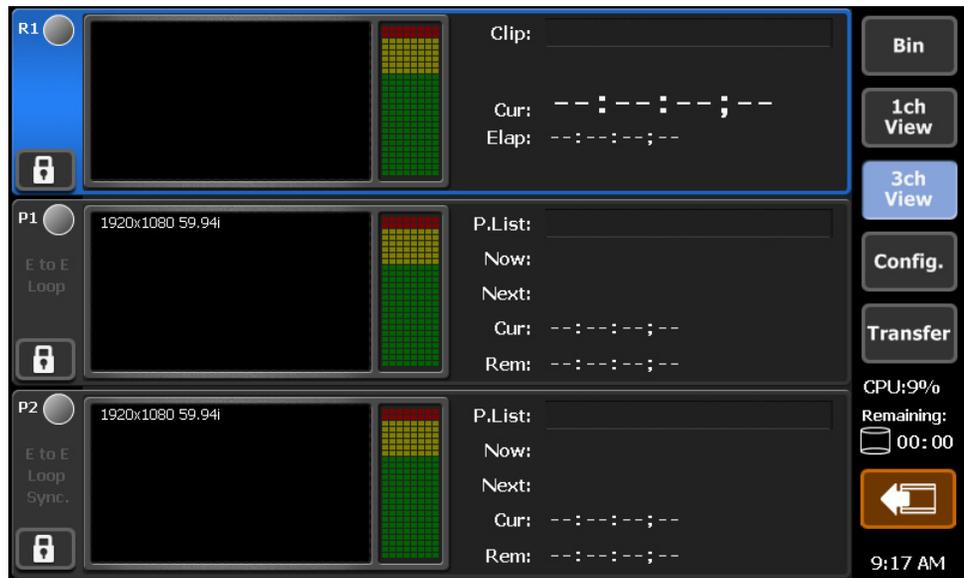
1. Switch the Main power switch on the rear panel to the on position, and turn the Power switch on the front panel ON.

Power switch



2. T2 starts up and the 3ch View screen appears on the touch screen LCD.

3ch View



Switching to the Workstation mode

When the T2 starts up, it is running in the Front Panel mode by default. To switch it to the Workstation mode, perform the following procedure.

1. On the PC monitor connected to the T2, choose **Switch to Workstation mode** from the **System** menu.

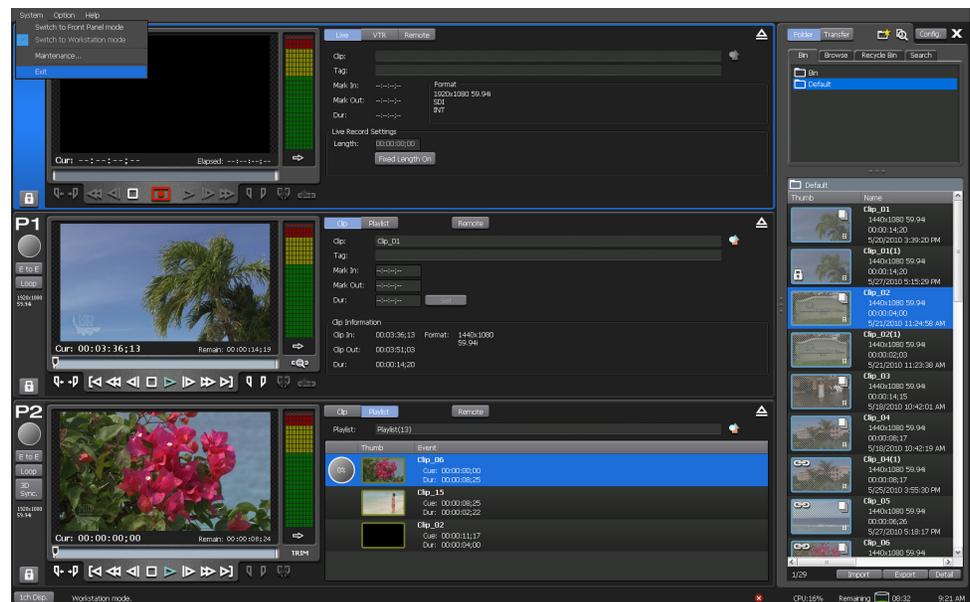
* To switch back to the Front Panel mode, touch the touch screen LCD screen, or choose **Switch to Front Panel mode** from the **System** menu on the PC monitor.

Shutdown

The following procedure is to shutdown the T2.

1. Choose **System - Exit**.

System menu



2. On the dialog displayed, choose **Shut Down** and click the **OK** button.

To turn the T2's main power off, wait until the screen goes blank, confirm that the shutdown is complete, and then turn off the main power switch on the rear panel.

Note Never shutdown your T2 by pressing and holding the Power switch, or by turning off the Main power switch. Doing so may cause serious malfunctions.

Hardware settings

Clicking the **Config** button at the top right corner of the screen displayed in the Workstation mode, the System settings screen will open.

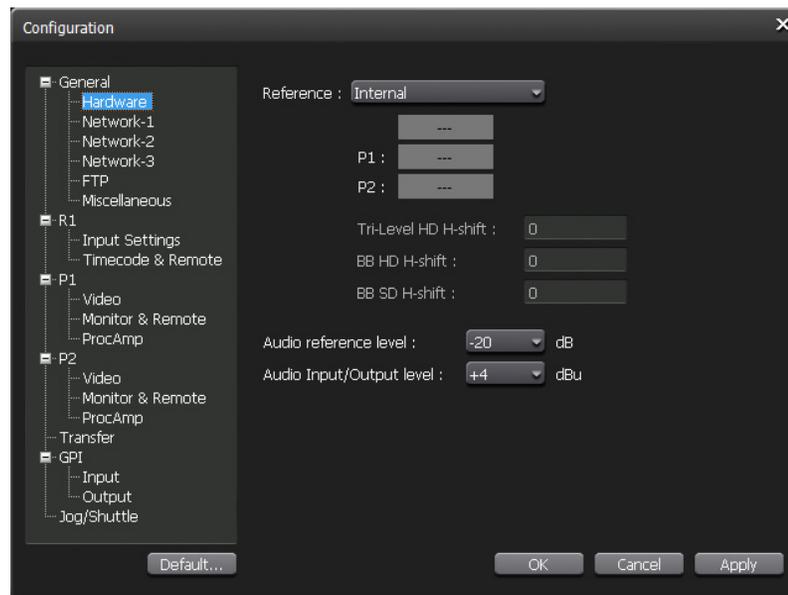
Modify the settings according to your environment.

Config button



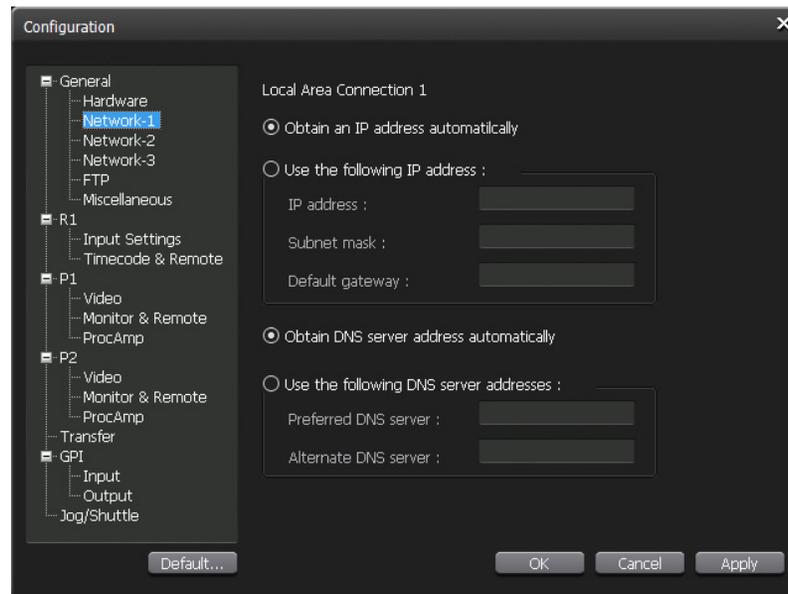
System settings

Hardware settings



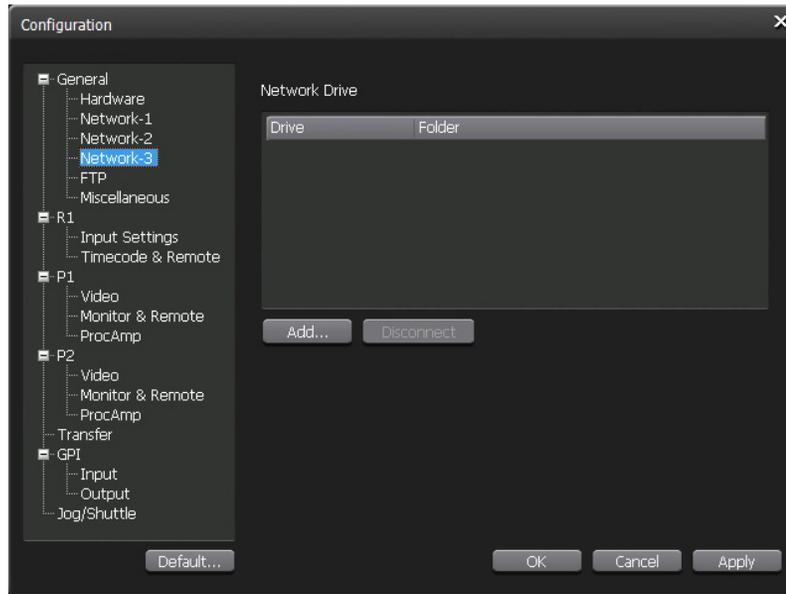
<p>Reference</p>	<p>The options you can choose from for the reference input method are External, Input and Internal. The sync status is displayed in the boxes below this button.</p> <p>P1 Displays if the P1 channel is synchronized.</p> <p>P2 Displays if the P2 channel is synchronized.</p> <p>Tri-Level HD H-shift To use the HD tri-level REF signal as the HD REF signal, check this box. Enter a value to adjust the REF phase. (Available only for External)</p> <p>BB HD H-shift To use the SD Black Burst REF signal as the HD REF signal, check this box. Enter a value to adjust the REF phase. (Available only for External)</p> <p>BB SD H-shift To use the SD Black Burst REF signal as the SD REF signal, check this box. Enter a value to adjust the REF phase. (Available only for External)</p>
<p>Audio reference level</p>	<p>Adjusts the audio reference level (Headroom).</p>
<p>Audio Input/Output level</p>	<p>Adjusts the audio input/output level.</p>

Network-1/Network-2 settings



Obtain an IP address automatically	Check this option to obtain an IP address automatically via DHCP.
Use the following IP address	Establishes a local area connection by specifying an IP address, subnet mask and default gateway. IP address Specify an IP address. Subnet mask Specify a subnet mask. Default gateway Specify a default gateway.
Obtain DNS server address automatically	Check this option to obtain a DNS server address automatically via DHCP.
Use the following DNS server addresses	Establishes a local area connection by specifying addresses for the default DNS server and an alternate DNS server. Preferred DNS server Specify a default DNS server address. Alternate DNS server Specify an alternate DNS server address.

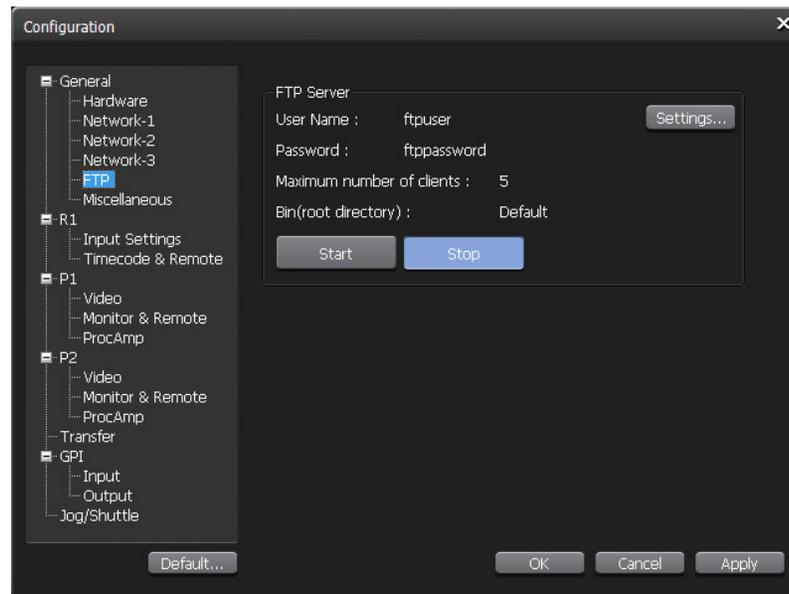
Network-3 settings



Network Drive	Lists the network drives currently connected.
Add button	Opens the Network Drive settings screen.
Disconnect button	Disconnects the network path allocated to the selected drive.

* Adding and/or disconnecting network drives is available only in the Workstation mode.

FTP settings

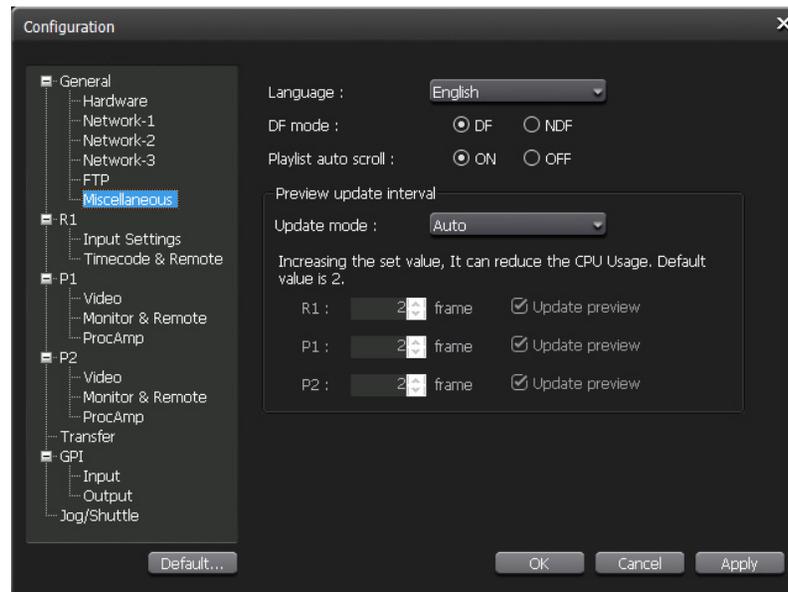


User Name	Displays the user name to access the FTP server.
Password	Displays the password to access the FTP server.
Maximum number of clients	Displays the maximum number of users who can access the FTP server simultaneously.
Bin (root directory)	Displays the name of the bin to store materials uploaded to the root directory.
Start	Starts the FTP server.
Stop	Stops the FTP server.
Settings	Opens the FTP server settings screen.

FTP server settings

User Name	Specify the user name to access the FTP server.
Password	Specify the password to access the FTP server.
Maximum number of clients	Specify the maximum number of users who can simultaneously access the FTP server.
Bin (root directory)	Specify the bin to store materials uploaded to the root directory.

Miscellaneous settings

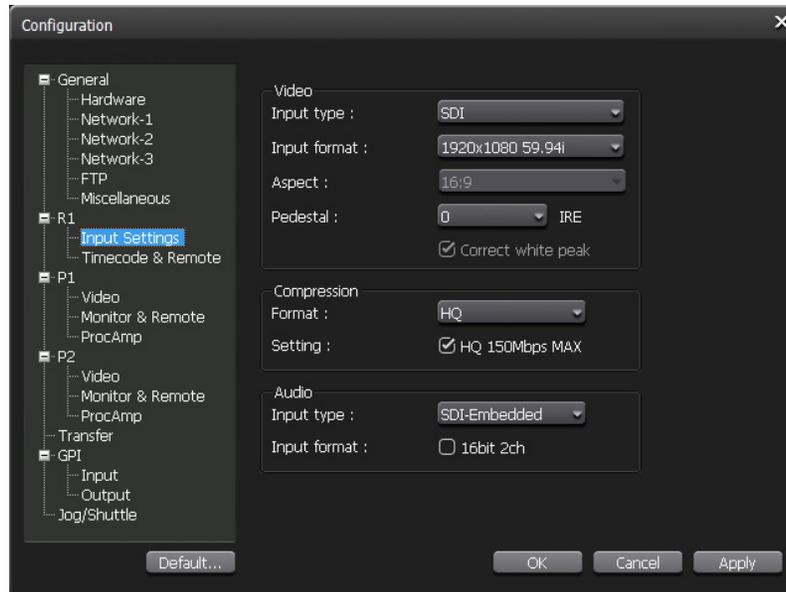


Language	Choose the on-screen language. * Restarting the system is required to apply the setting.
DF Mode	Specify either drop-frame or non-drop frame to be used. DF Check this option to use Drop frame. NDF Check this option to use Non-drop frame.
Playlist auto scroll	Specify if you want the Event List of the playlist to automatically scroll.

<p>Preview update interval</p>	<p>Update mode Specifying preview update intervals on R1/P1/P2 will ease the CPU load of T2.</p> <ul style="list-style-type: none"> • Manual.....Specifies the preview update interval manually. Choosing this option allows you to specify the preview update interval on each R1, P1, P2 channel. • Auto.....Specifies the preview update interval automatically. <p>R1 Specify the update interval on R1 channel by frame. Setting greater value will make the preview update interval longer. With the default parameter, the preview is updated every two frames.</p> <p>Update preview Check this option to update the preview at the specified intervals. When this option is unchecked, the preview will not be updated.</p> <p>P1 Specify the update interval on P1 channel by frame. Setting greater value will make the preview update interval longer. With the default parameter, the preview is updated every two frames.</p> <p>Update preview Check this option to update the preview at the specified intervals. When this option is unchecked, the preview will not be updated.</p> <p>P2 Specify the update interval on P2 channel by frame. Setting greater value will make the preview update interval longer. With the default parameter, the preview is updated every two frames.</p> <p>Update preview Check this option to update the preview at the specified intervals. When this option is unchecked, the preview will not be updated.</p>
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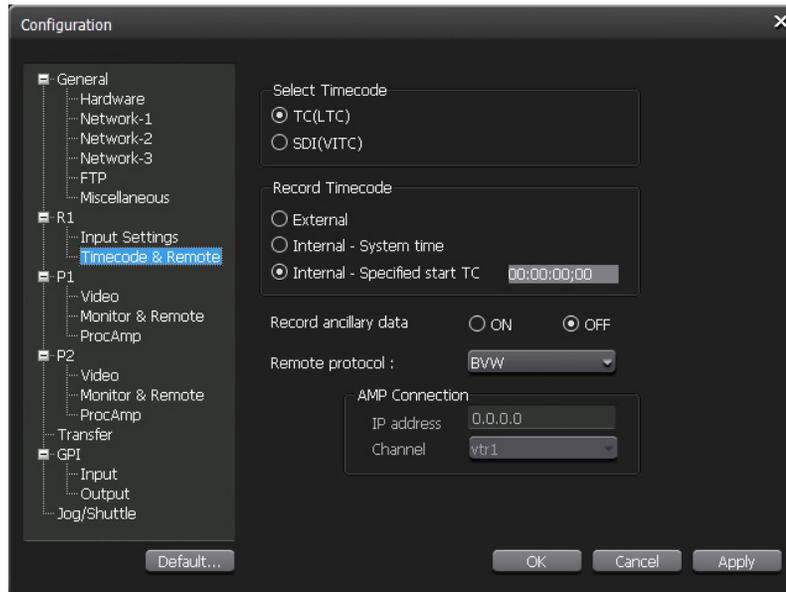
R1 channel settings

Input Settings



<p>Video</p>	<p>Input type Choose a type of video input.</p> <p>Input format Choose a format for the video input.</p> <p>Aspect Choose the aspect ratio for the SD input.</p> <p>Pedestal Choose the setup (black) level in NTSC. Choose 7.5IRE for North America.</p> <p>Correct white peak Check this option to enable white peak correction.</p>
<p>Compression</p>	<p>Format Specify the compression format.</p> <p>Setting Check this option to limit the compression rate for the Canopus HQ codec, up to 150Mbps.</p>
<p>Audio</p>	<p>Input type Specify the audio input format from Analog, AES/EBU (digital) and SDI embedded.</p> <p>Input format Check this option to record in 16bit 2ch.</p>

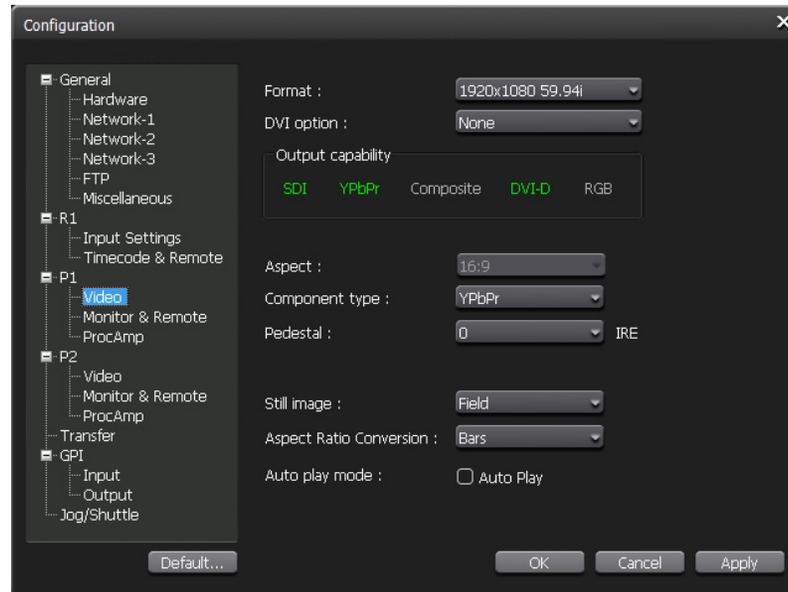
Timecode & Remote settings



Select Timecode	Specify the format for the timecode from TC (LTC) and SDI (VITC) .
Record Timecode	Choose the timecode to use for recording. External Uses the timecode from the external device. Internal-System time Uses the system clock. Internal-Specified start TC Specify a value as the beginning timecode.
Record ancillary data	Setting this option to ON will record VANC.
Remote protocol	Choose a REMOTE protocol from BVW and AMP .
AMP Connection	Specify an IP address and a channel for AMP connection.

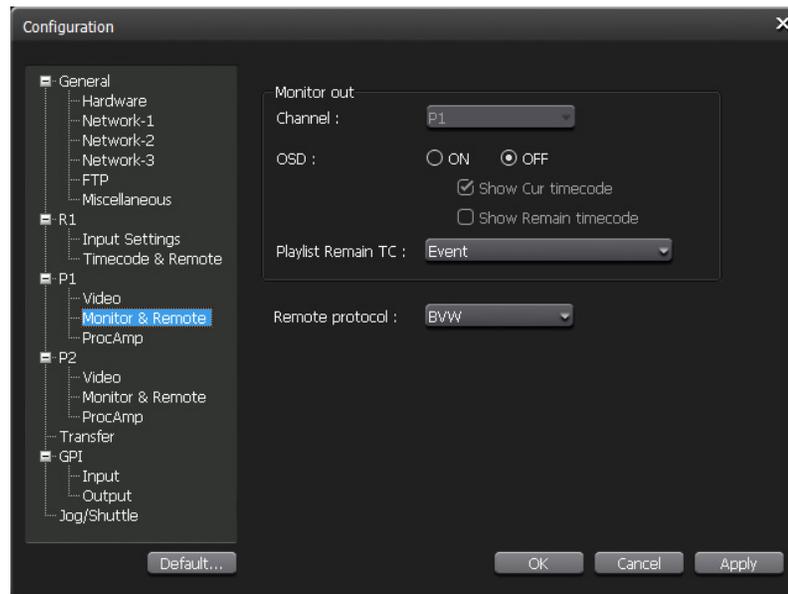
P1/P2 channel settings

Video settings



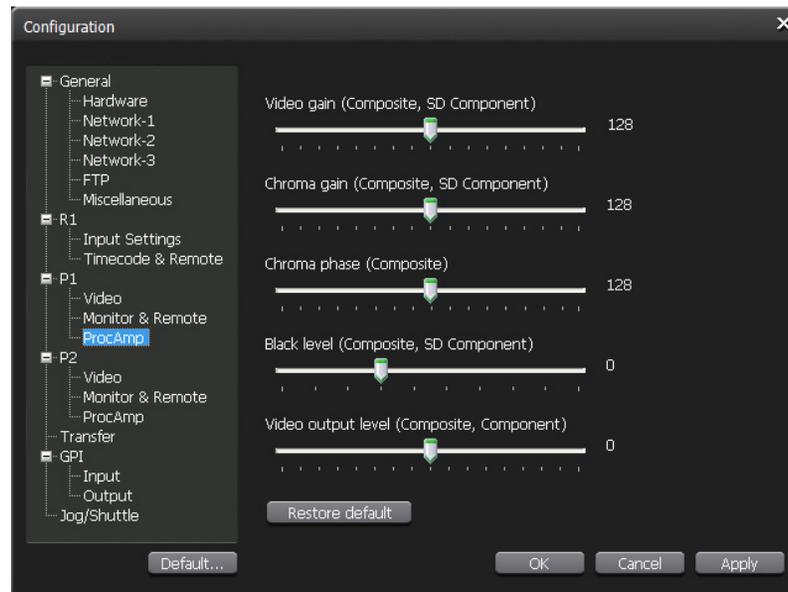
Format	Specify the resolution and the frame rate for the output video.
DVI option	Choose a video resolution to use with DVI/RGB format for output.
Output capability	Displays available format with highlight.
Aspect	Specify the aspect ratio. Choose 4:3 or 16:9 for SD video.
Component type	Choose the type of the analog signal output via DVI-I port.
Pedestal	Choose the setup (black) level in NTSC. Choose 7.5IRE for North America.
Still image	Specify the display mode during pause. Field Displays the still picture interpolating both fields. The image is displayed in complete still. Frame The top field and the bottom field will be displayed alternately. The image is displayed shakingly.
Aspect Ratio Conversion	Bars Adds black bars on the top and bottom or both sides of the image when the aspect ratio of the clip differs from the settings. Crop Crops the edges of the image when the aspect ratio of the clip differs from the settings.
Auto play mode	Enables/Disables auto playback when material is loaded to a channel. * If the keyboard shortcuts and/or mouse operations are customized in the Workstation mode, the customized settings take precedence.

Monitor & Remote settings



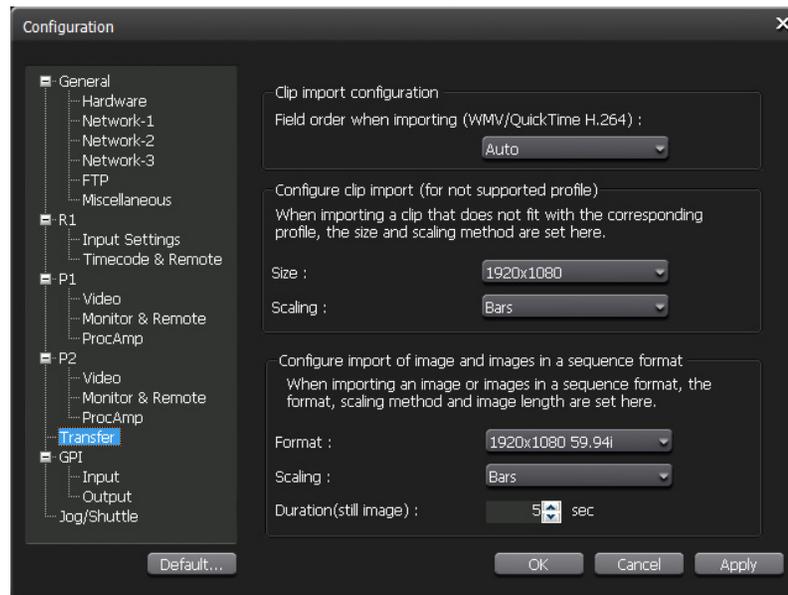
<p>Monitor out</p>	<p>Specify the channel to use for monitor out, and specify if OSD (on-screen display) is enabled.</p> <p>Channel Specify the channel to use for monitor out. Only P1 is available for P1 channel, while P1 and P2 for P2 channel.</p> <p>OSD Enables/Disables the on-screen display.</p> <p>Show Cur timecode Check this option to show the current timecode for the on-screen display.</p> <p>Show Remain timecode Check this option to show the remaining timecode for the on-screen display. (See "Playlist Remain TC" below.)</p>
<p>Playlist Remain TC</p>	<p>Specify the display style of the remaining time for the playlist.</p> <ul style="list-style-type: none"> • Event.....Displays the remaining time of the event (clip/playlist). • Total.....Displays the remaining time of the entire playlist.
<p>Remote protocol</p>	<p>Choose a REMOTE protocol from BVW and AMP.</p>

ProcAmp settings



Video gain	Adjusts the Video gain. (Available only for Composite and SD Component)
Chroma gain	Adjusts the Chroma gain. (Available only for Composite and SD Component)
Chroma phase	Adjusts the Chroma phase. (Available only for Composite)
Black level	Adjusts the Black level. (Available only for Composite and SD Component)
Video output level	Adjusts the Video output level. (Available only for Composite and Component)

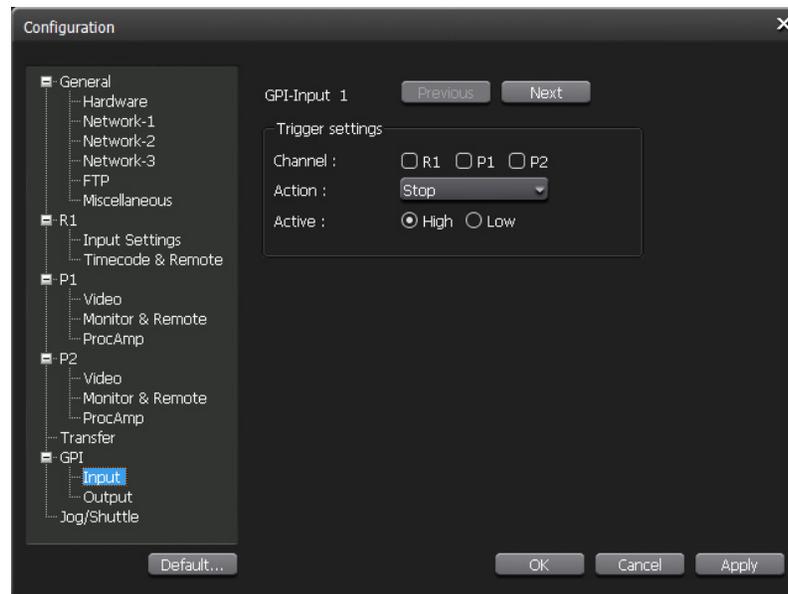
Transfer settings



<p>Clip import configuration</p>	<p>Choose the field order for the imported clip from Auto, Progressive, Top field first, and Bottom field first.</p>
<p>Configure clip import (for not supported profile)</p>	<p>When importing a clip that does not match the supported profile of T2, the clip will be imported according to the parameters specified here.</p> <p>Size Imports clip scaled to the specified size.</p> <p>Scaling When the size specified by the “Size” option differs from the actual size of the material, the generated clip is scaled by the following method.</p> <ul style="list-style-type: none"> • BarsAdds black bars to the top and bottom or both sides so that the longer side fits the screen. • CropDisplays the image so that the shorter side fits the screen. • StretchStretches the clip to fit the screen.
<p>Configure import of image and images in a sequence format</p>	<p>Specify the format, method and duration to import an image or a sequence of images.</p> <p>Format Specify the format and frame rate of the image to import.</p> <p>Scaling When the size and aspect ratio differ between the image and importing profile, the generated clip is scaled by the following method.</p> <ul style="list-style-type: none"> • BarsAdds black bars to the top and bottom or both sides so that the longer side fits the screen. • CropDisplays the image so that the shorter side fits the screen. • StretchStretches the clip to fit the screen. <p>Duration (still image) Specify the duration when the imported image is being displayed.</p>

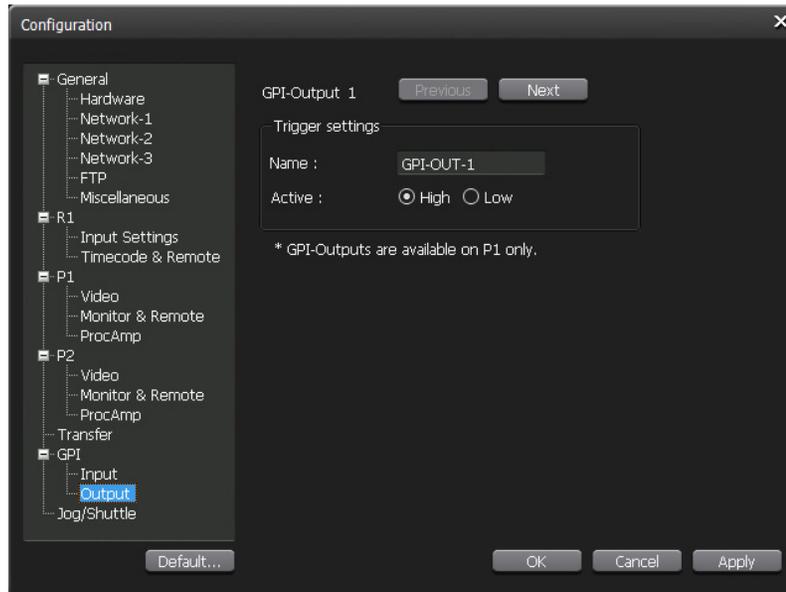
GPI settings

Input settings



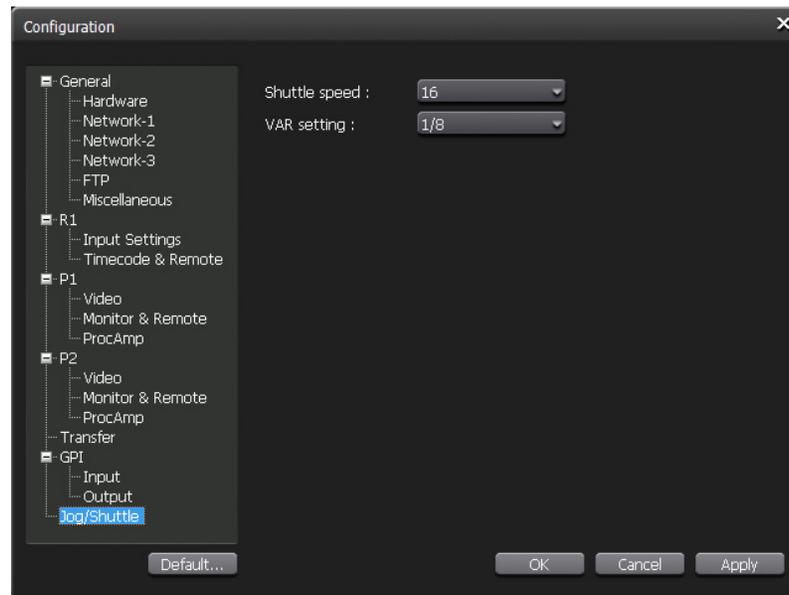
GPI-Input	Use the Previous and Next buttons to choose the GPI input trigger.
Trigger settings	<p>Permits specification of the GPI input trigger settings.</p> <p>Channel Choose a channel to respond to the GPI input trigger.</p> <p>Action Specify the action caused by the trigger.</p> <ul style="list-style-type: none"> • Stop Stops playback/recording. • Play Plays the clip or playlist loaded to a channel. • Record Starts recording. • Rewind Rewinds. Rewinding stops at the start of the content, or when other action is performed. • FastFwd Executes Fast Forward. Fast Forward stops at the end of the content, or when other action is performed. • CueStart Cues up to the IN point of the content loaded. • CueEnd Cues up to the OUT point of the content loaded. • Eject Unloads the content loaded. • Preview Loads the clip uploaded from the R1 channel onto the P1 channel. • CueNextEvent Cues up to the next event on the playlist loaded. • CuePrevEvent Cues up to the previous event on the playlist loaded. • VARPlayback Plays the content in the speed specified in Variable speed playback mode (see "Jog/Shuttle settings"). <p>Active Choose the GPI signal to activate from High and Low.</p>

Output settings



GPI-Output	Use the Previous and Next buttons to choose the GPI output trigger.
Trigger settings	<p>Permits specification of the GPI output trigger settings.</p> <p>Name Specify the name of the trigger.</p> <p>Active Choose the GPI signal to activate from High and Low.</p>

Jog/Shuttle settings



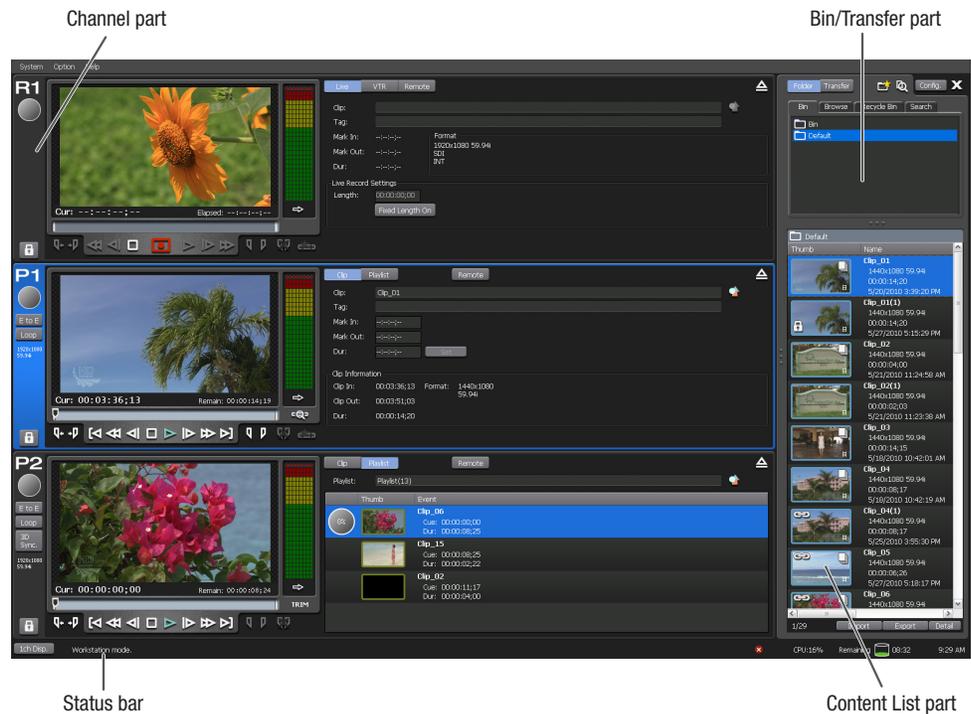
Shuttle speed	Choose the maximum shuttle speed, either 16x or 32x .
VAR setting	Choose the playback speed in the Variable speed playback mode, between 1/8 , 1/4 and 1/2 .

Workstation mode

Overview

In the Workstation mode, you can operate the T2 via the display monitor connected to the T2, using the mouse and the keyboard. Touching the touch screen LCD while the T2 is running in the Workstation mode, it's switched to the Front Panel mode.

T2 screen modes and functions



The Workstation screen consists of the following.

- Menu bar
- Status bar
- Bin/Transfer part
- Content List part
- Channel part

Menu bar



System menu

Switch to Front Panel mode	Choose this option to exit Workstation mode and switch the T2 to Front Panel mode.
Switch to Workstation mode	Choose this option to exit Front Panel mode and switch the T2 to Workstation mode.
Maintenance	Choose this option to switch the T2 to Maintenance mode. Entering a password is required.
Exit	Choose this option to restart or shutdown the T2.

Option menu

Log	Choose this option to specify the log level or to show logs. Logging level Opens the dialog to specify the log level. Show log Displays the log.
Remove Device	Choose this option to list the removable devices and choose the device to remove.
Customize	Opens the Keyboards Shortcuts screen and/or the Mouse Customize screen.

Help menu

About T2	Displays the application version.
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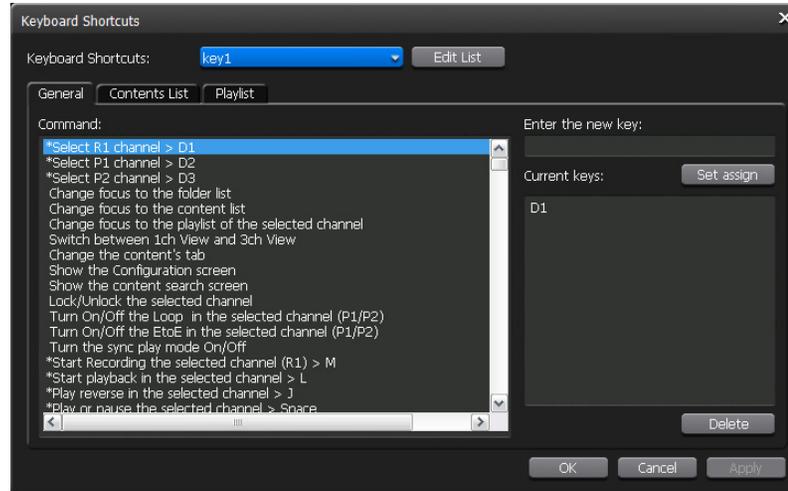
Status bar



Display Mode button	Switches the display mode between 3ch Display and Full Display of a channel.
Operation mode	Displays the current operation mode.
Log Notice icon	Displayed when a warning log or an error log is issued. Clicking the icon will open the Log screen where you can see the details of the logs.
FTP	Displayed when the FTP server is running.
Transfer icon	Displayed when contents/materials are being imported/exported/transferred.
CPU	Displays the CPU burden of your T2.
HDD capacity	Displays the estimated amount of time for recording.
Clock	Displays the current time.

Keyboard Shortcuts screen

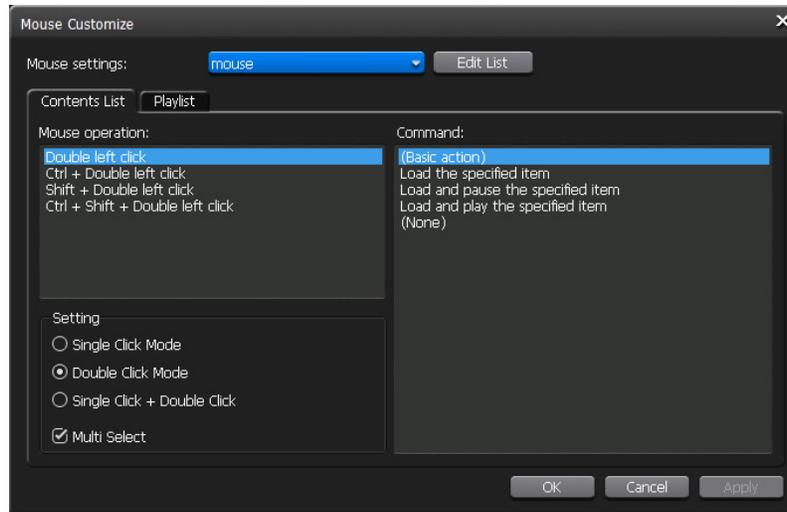
Allocates keyboard shortcuts. The keyboard shortcuts settings assigned are available only in the Workstation mode.



Keyboard Shortcuts	Choose a shortcut list.
Edit List button	Edits the keyboard shortcut list.
General tab	<p>Command Lists the commands to be executed.</p> <p>Enter the new key Enter the new key to allocate as a shortcut</p> <p>Current keys Displays the current shortcut key allocated to the selected command.</p> <p>Set assign button Assigns the key entered in "Enter the new key" field to the selected command.</p> <p>Delete Deletes the shortcuts allocated to the selected command.</p>
Contents List tab	<p>Command Lists the commands to be executed.</p> <p>Enter the new key Enter the new key to allocate as a shortcut</p> <p>Current keys Displays the current shortcut key allocated to the selected command.</p> <p>Set assign button Assigns the key entered in "Enter the new key" field to the selected command.</p> <p>Delete Deletes the shortcuts allocated to the selected command.</p>
Playlist tab	<p>Command Lists the commands to be executed.</p> <p>Enter the new key Enter the new key to allocate as a shortcut</p> <p>Current keys Displays the current shortcut key allocated to the selected command.</p> <p>Set assign button Assigns the key entered in "Enter the new key" field to the selected command.</p> <p>Delete Deletes the shortcuts allocated to the selected command.</p>

Mouse Customize screen

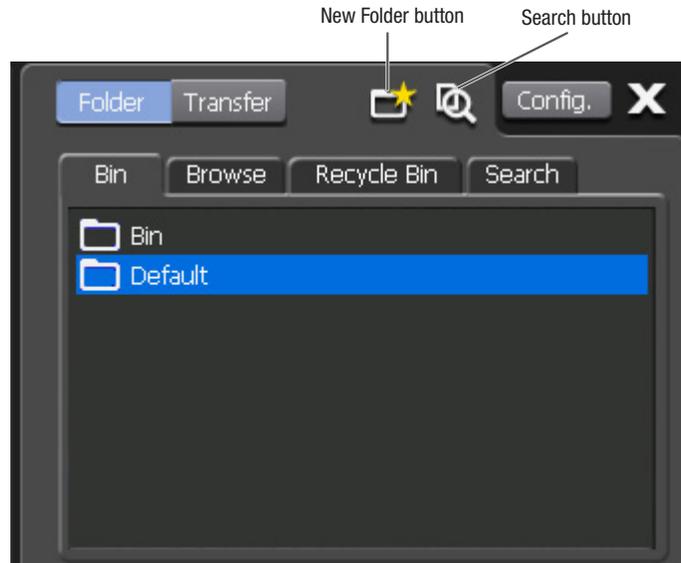
Allocates mouse settings. The mouse settings assigned are available only in the Workstation mode.



Mouse settings	Choose a shortcut list.
Edit List button	Edits the Mouse shortcut list.
Contents List tab	<p>Mouse operation Displays the mouse operation allocated to a command.</p> <p>Command Lists the commands to be executed.</p> <p>Setting Choose Single Click Mode, Double Click Mode, or Single Click + Double Click mode, and specify if selecting multiple items is allowed.</p>
Playlist tab	<p>Mouse operation Displays the mouse operation allocated to a command.</p> <p>Command Lists the commands to be executed.</p> <p>Setting Choose Single Click Mode, Double Click Mode, or Single Click + Double Click mode, and specify if selecting multiple items is allowed.</p>

Bin/Folder part

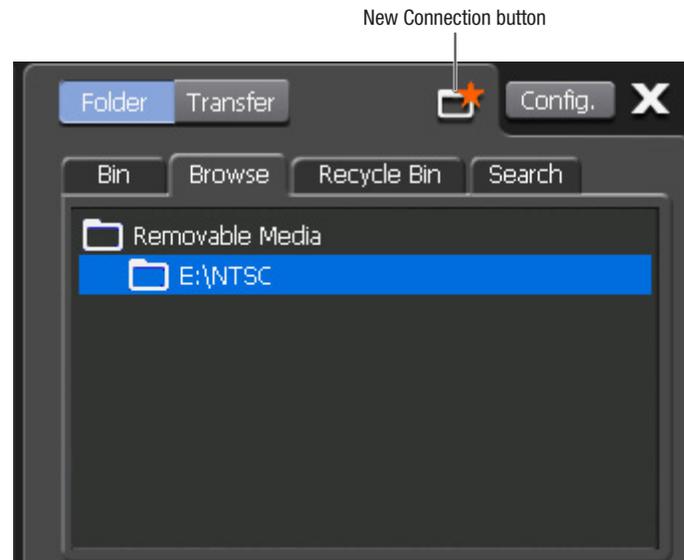
Bin tab



Folder/Transfer button	Switches the screen between Bin folder screen and Transfer screen.
New Folder button	Creates a new Bin folder.
Search button	Use this button to search clip or playlist with search keys specified.
Config button	Opens the system settings screen.
Bin tab	Displays the folder that stores clips and playlists.
Browse tab	Browses folders to import or play the media files on removable drives or DVDs.
Recycle Bin tab	Displays the clips and playlists (and their folder) deleted from the Bin folder.
Search tab	Displays the folder hit by the search.

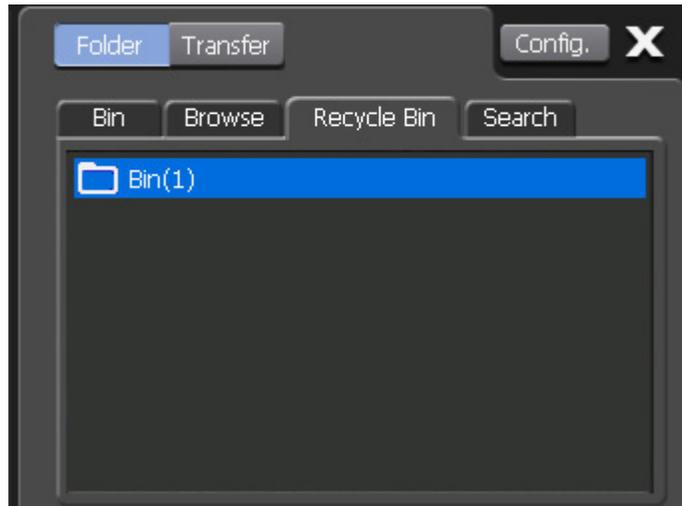
Browse tab

Displays the materials stored in the connected removable media or in the selected media. The information on importing materials is also displayed.



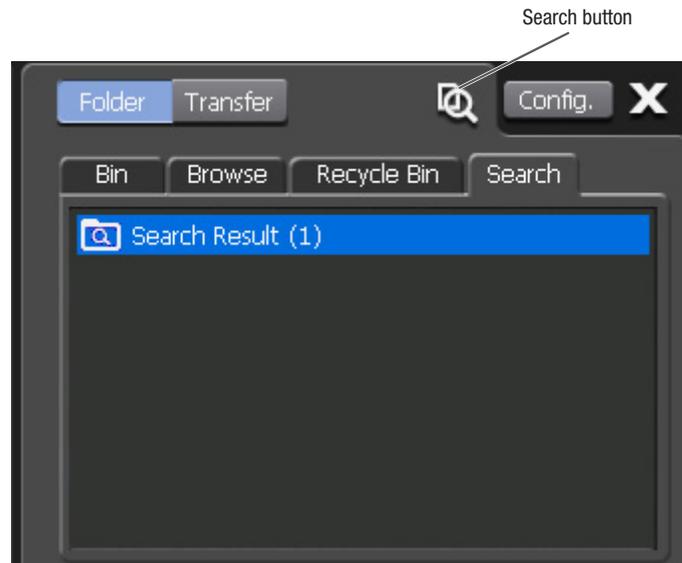
Folder/Transfer button	Switches the screen between Bin folder screen and Transfer screen.
New Connection button	Opens the Browse For Folder screen to choose a removable media to connect.
Config button	Opens the system settings screen.
Bin tab	Displays the folder that stores clips and playlists.
Browse tab	Browses folders to import or play the media files on removable drives or DVDs.
Recycle Bin tab	Displays the clips and playlists (and their folder) deleted from the Bin folder.
Search tab	Displays the folder hit by the search.

Recycle Bin tab



Folder/Transfer button	Switches the screen between Bin folder screen and Transfer screen.
Config button	Opens the system settings screen.
Bin tab	Displays the folder that stores clips and playlists.
Browse tab	Browses folders to import or play the media files on removable drives or DVDs.
Recycle Bin tab	Displays the clips and playlists (and their folder) deleted from the Bin folder.
Search tab	Displays the folder hit by the search.

Search tab

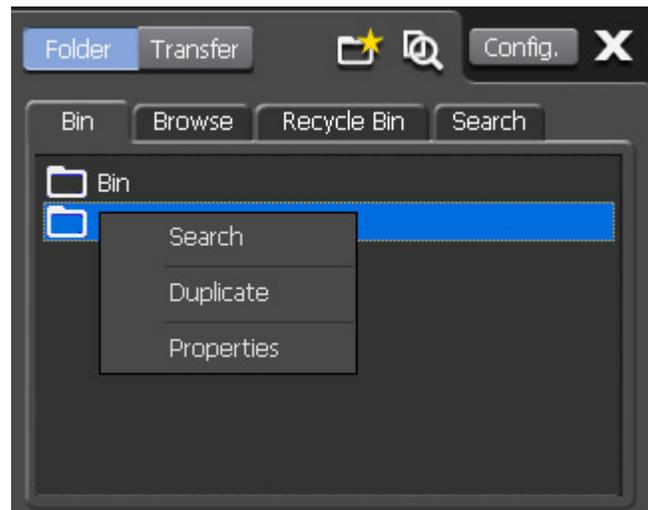


Folder/Transfer button	Switches the screen between Bin folder screen and Transfer screen.
Search button	Use this button to search clip or playlist with search keys specified.
Config button	Opens the system settings screen.
Bin tab	Displays the folder that stores clips and playlists.
Browse tab	Browses folders to import or play the media files on removable drives or DVDs.
Recycle Bin tab	Displays the clips and playlists (and their folder) deleted from the Bin folder.
Search tab	Displays the folder hit by the search.

Search screen

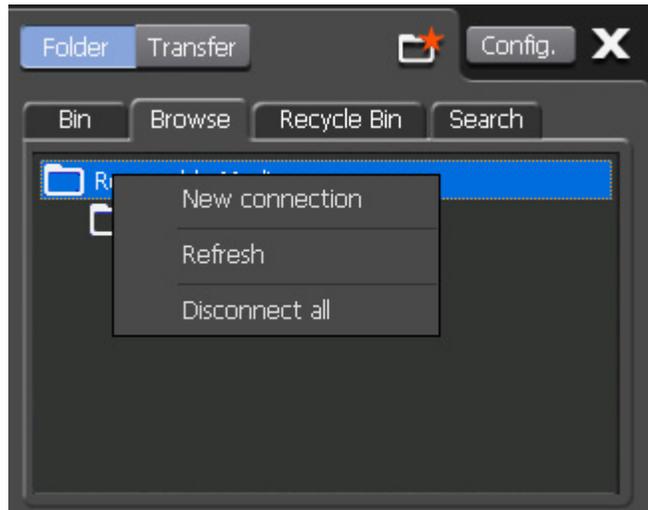
Bin	Specifies the target folder for the search.
Name	Use this option to search by name.
Date	Use this option to search by created date or updated date (A – B, Before A, or After A).
Type	Use this option to search by Standard (HD/SD).
Tag	Use this option to search by TAG (multiple tags, partial match retrieval). * To enter multiple strings, delimit with "." (period).

Bin folder – Right click menu



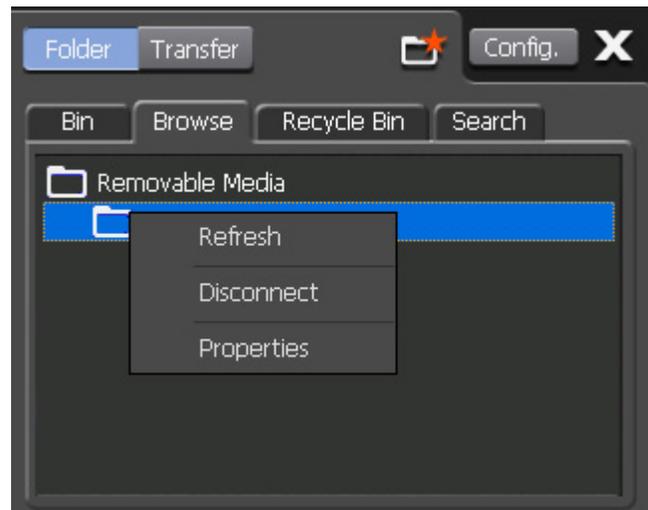
Search	Use this option to search clips or playlists, specifying keys (in the selected folder only).
Duplicate	Duplicates the Bin folder.
Properties	Opens the properties dialog for the selected Bin folder.

Browse screen – Right-click menu



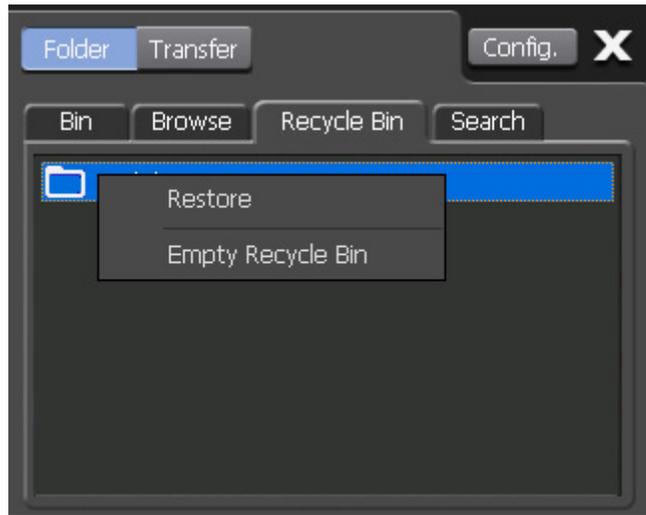
New Connection	Identifies the connected removable drive.
Refresh	Refreshes the selected removable drive.
Disconnect all	Disconnects all the removable drives.

Browse screen – Removable media – Right-click menu



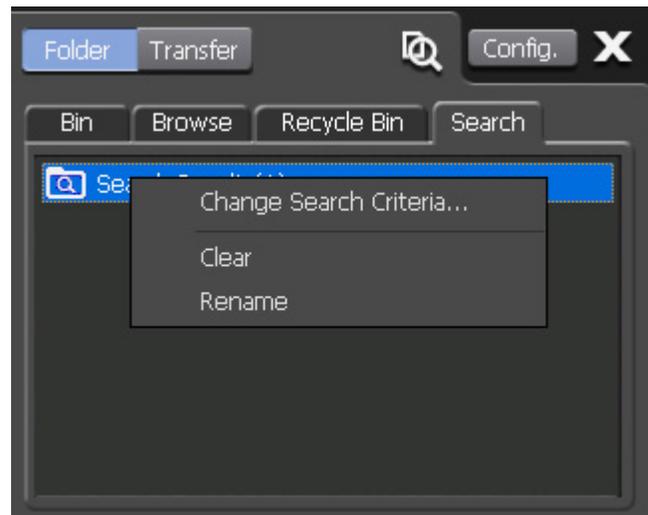
Refresh	Refreshes the selected removable drive.
Disconnect	Disconnects the removable drive.
Properties	Opens the properties for the selected folder.

Recycle Bin – Folder – Right click menu



Restore	Restores the folder to the original Bin. When a playlist is restored, if the clips used in the playlist exist in the RecycleBin, the clips will also be restored.
Empty Recycle Bin	Deletes all the contents in the Recycle Bin. Note that the deleted contents cannot be restored.

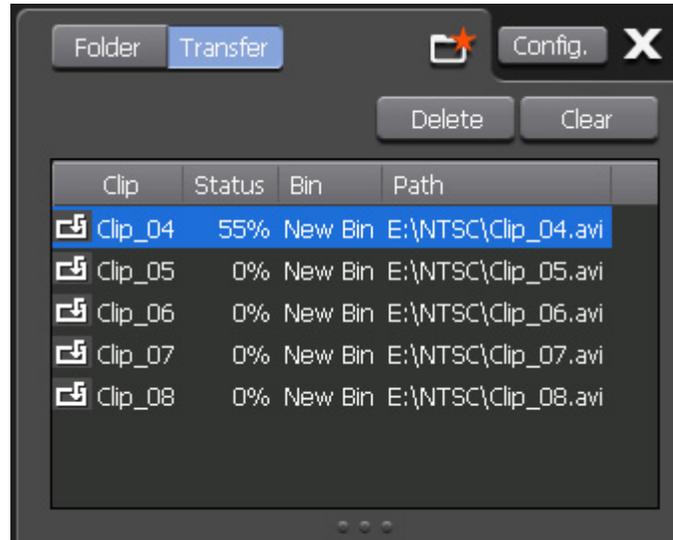
Search – Right click menu



Change Search Criteria...	Use this option to search with other criteria.
Clear	Use this option to clear the search result.
Rename	Use this option to change the name of the search result.

Transfer screen

Clicking the **Transfer** button at the top of the Bin folder part opens the Transfer screen that displays the transfer status (registered transfer jobs and their status).

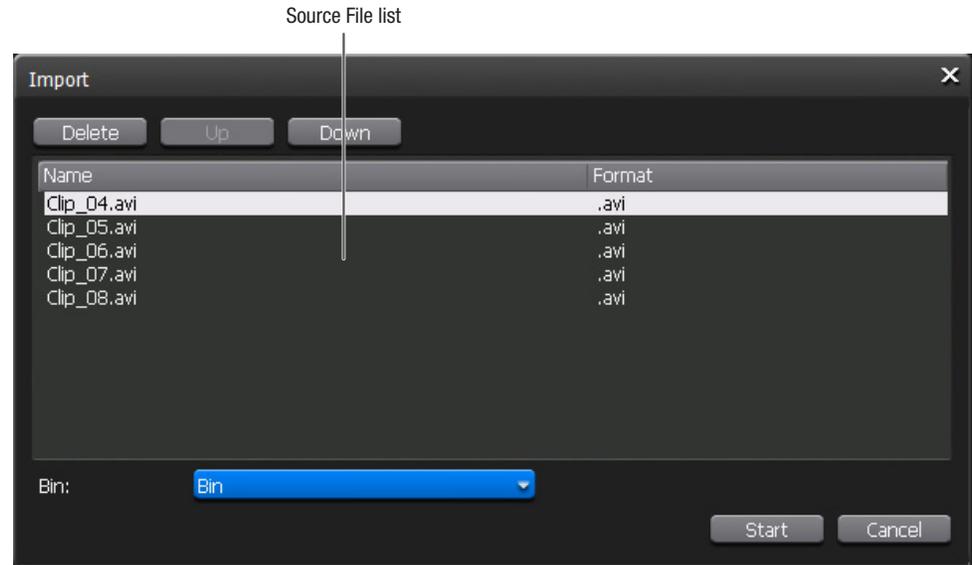


Delete button	Deletes the selected job. Clicking the button while transferring will stop the transfer.
Clear button	Deletes all jobs on the job list.

* If importing or exporting is aborted due to some reason, the Log Notice icon appears on the status bar. Clicking the Log Notice icon opens the Log screen where the reasons of the problem may be described.

Import screen

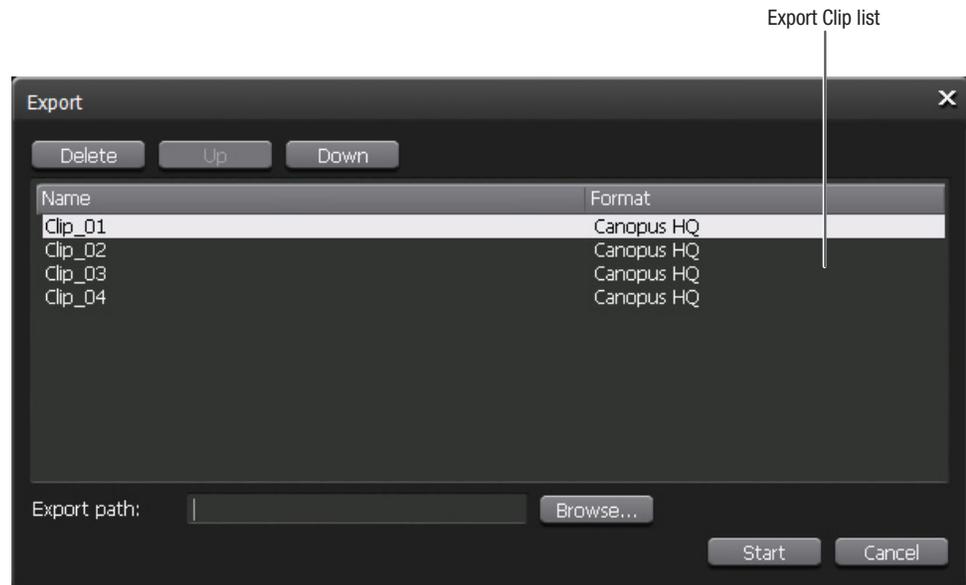
Displayed when you right-click a content and choose **Import**, once a folder on the removable drive is added by **New Connection** on the Browse tab.



Delete button	Deletes the selected files from the Source File list.
Up button	Moves the selected file above the previous file in the Source File list.
Down button	Moves the selected file below the next file in the Source File list.
Source File list	Lists the files to be imported.
Bin	Displays the destination bin that the contents are imported to.
Start button	Starts importing according to the list registered (ie: Adds jobs to the Transfer screen), and closes the Import screen.
Cancel button	Closes the Import screen.

Export screen

Displayed when you right-click a content in the Bin tab, and then click **Export**.

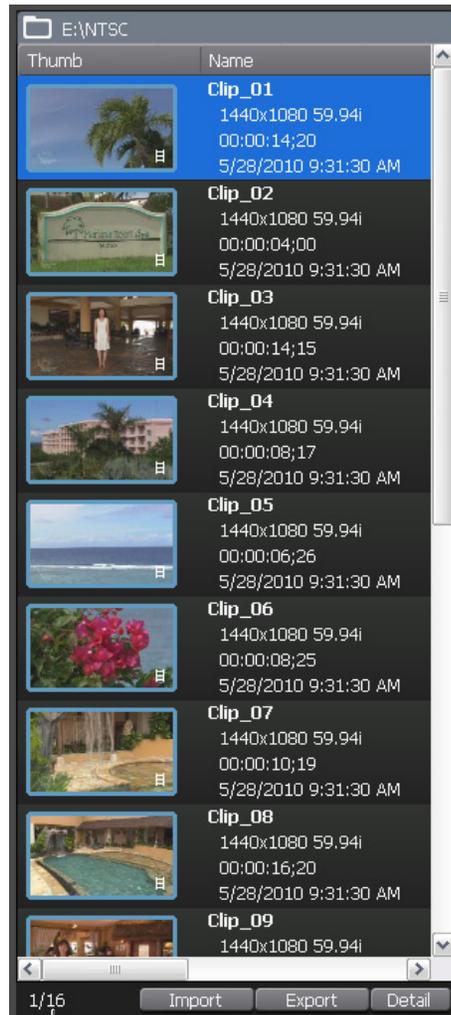


Delete button	Deletes the selected clips from the Export Clip list.
Up button	Moves the selected clip above the previous clip in the Export Clip list.
Down button	Moves the selected clip below the next file in the Export Clip list.
Export Clip list	Lists the files to be exported.
Export path	Displays the destination that the files are exported to.
Browse button	Opens the window to browse for folders.
Start button	Starts exporting according to the list registered (ie: Adds jobs to the Transfer screen), and closes the Export screen.
Cancel button	Closes the Export screen.

Content List part

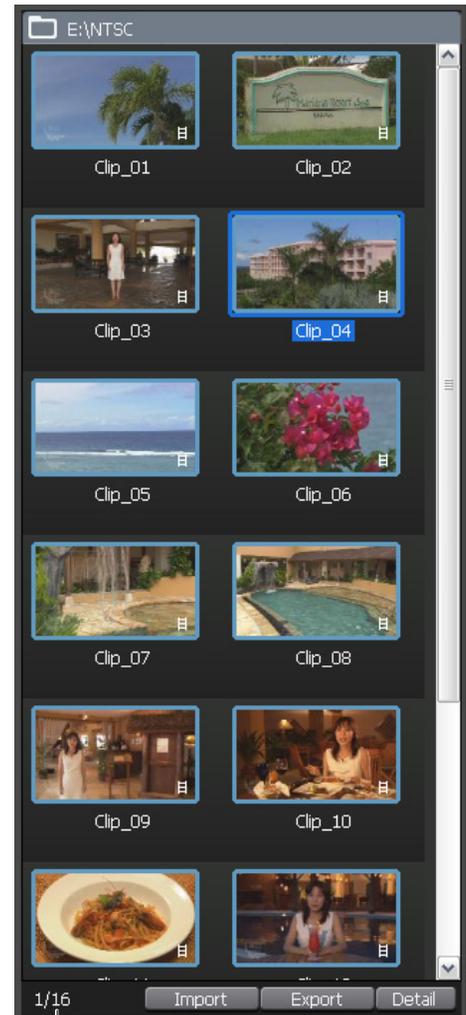
Displays the Content List. From the right-click menu, the display mode can be switched between **Text mode** and **Icon mode** (Large/Small).

Text mode



Content count

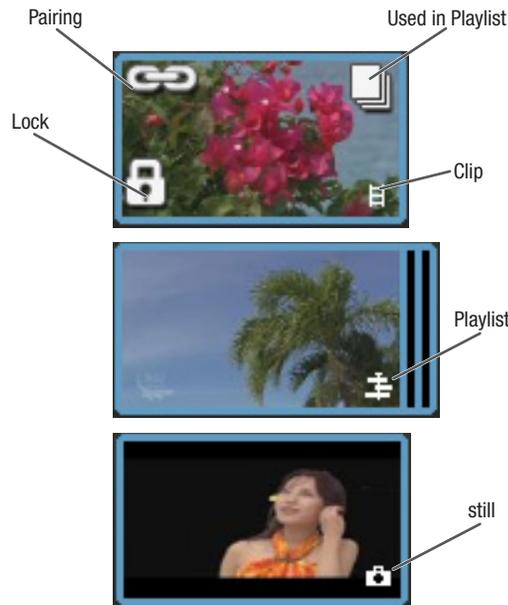
Icon mode



Content count

Folder name	Displays the folder name.
Thumbnail	Displays the thumbnail. The color of the frame can be chosen among 5 colors.
Content information	Displays the content information.
Content count	Displays the number of the selected contents and the total number of the contents in the folder.
Import button	Automatically switches to the Browse tab, and opens the Import menu.
Export button	Automatically switches to the Bin tab, and opens the Export menu.
Detail	Shows the detailed information on contents.

Thumbnail icons



Pairing icon	Displayed on the clips/playlists that have been paired for the Sync mode.
Lock icon	Displayed on the clip/playlist that have been locked.
Used in Playlist icon	Displayed on the clip/playlist that have been used in a playlist.
Content type	Displays the type of the content. (clip/playlist/still image)

Selecting contents

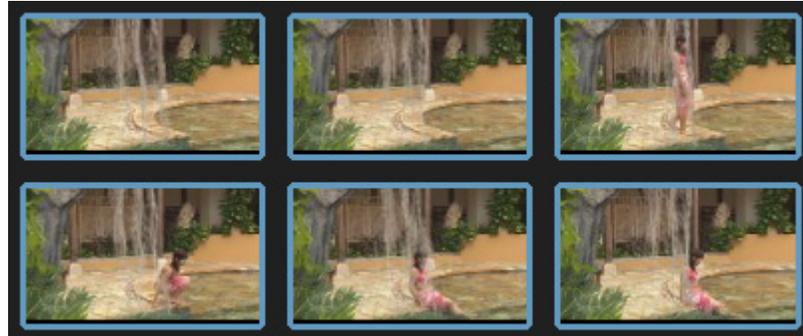
Multiple contents (clip, playlist) can be chosen simultaneously with the **Ctrl** key or the **Shift** key pressed.

Controlling contents

Contents can be moved to a folder in the Bin by drag & drop. Also, dragging contents with the **Ctrl** key pressed will duplicated them. When files or clips are duplicated, suffixes are automatically added.

Contents preview

Right-clicking a clip and choose **Show Filmstrip**, then the thumbnails of the content can be displayed in a six-parted film strip.



Pairing contents (for sync mode)

From the right-click menu, pairing of contents for the sync mode between P1 and P2 channels can be set.

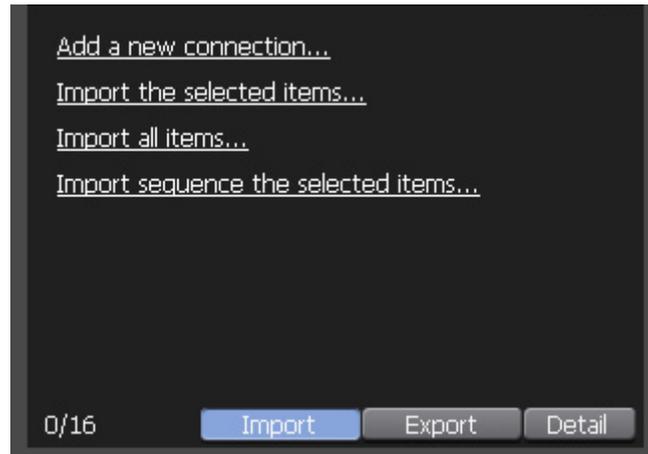
The paired items have Pairing icon on their thumbnails.

To cancel the pairing, choose one of the paired items, and choose **Unpairing** from the right-click menu.

Requirements for pairing

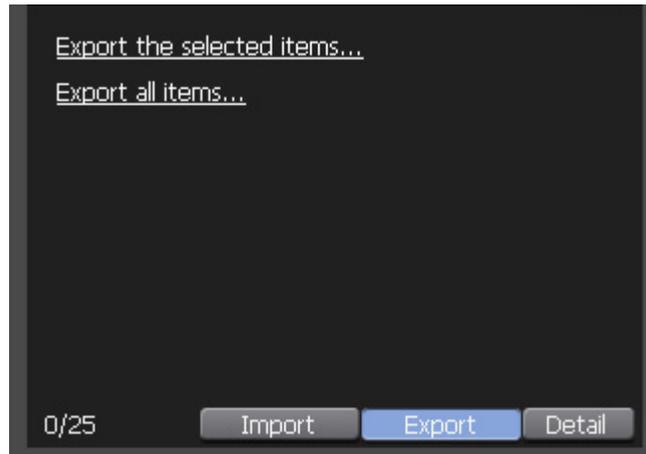
- Contents must be of the same type. (clip and clip or playlist and playlist). Combinations between clip and playlist are not available for pairing contents in the Sync mode.
- Audio types do not matter.

Import menu



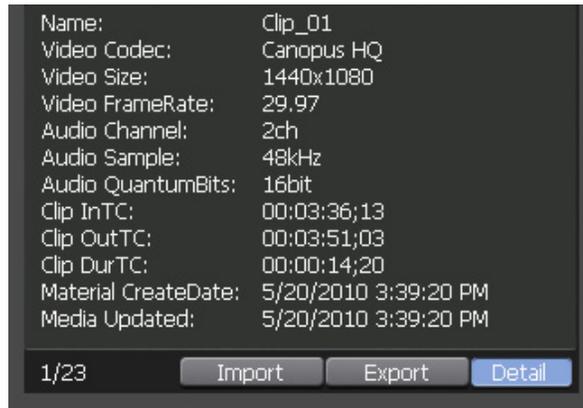
Add a new connection	Identifies the connected removable drive.
Import the selected items	Imports the selected items.
Import all items	Imports all the items in the selected folder in the removable drive.
Import sequence the selected items	Imports the selected images as a sequenced clip. The multiple images imported can be handled with a single selection.

Export menu



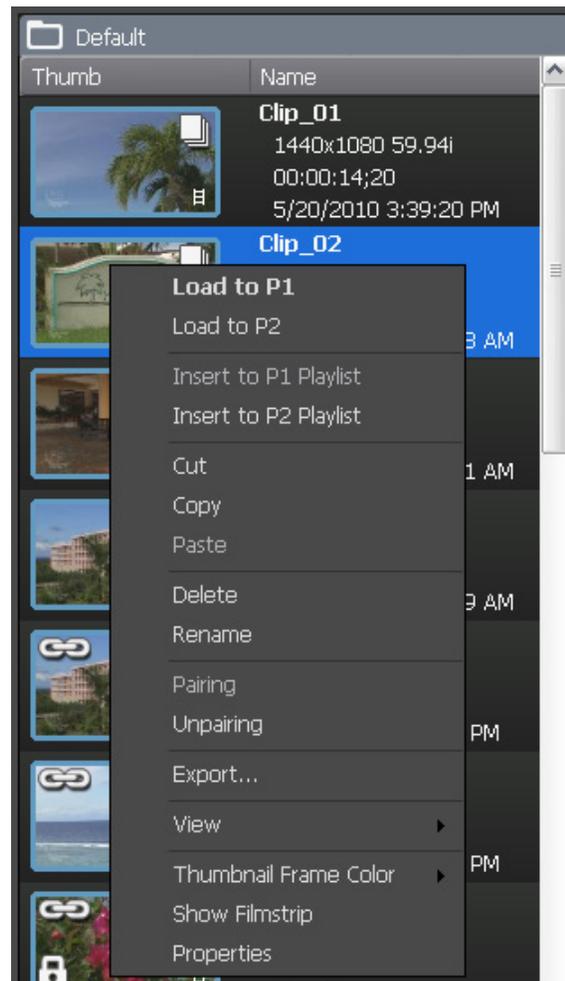
Export the selected items	Exports the selected items.
Export all items	Exports all the items in the selected bin folder.

Detail menu



Name	Displays the name of the selected item (file name, clip name).
Video Codec	Displays the video codec of the selected item.
Video Size	Displays the video size of the selected item.
Video FrameRate	Displays the video framerate of the selected item.
Audio Channel	Displays the audio channel of the selected item.
Audio Sample	Displays the audio sampling rate of the selected item.
Audio QuantumBits	Displays the audio bit rate of the selected item.
Clip In TC	Displays the IN TC of the selected item.
Clip Out TC	Displays the OUT TC of the selected item.
Clip Dur TC	Displays the duration of the selected item.
Media CreateDate	Displays the timestamp when the selected item was created.
Media Updated	Displays the timestamp when the selected item was updated.

Bin folder contents – Right click menu



Load to P1	Loads the selected content to the P1 channel. *1
Load to P2	Loads the selected content to the P2 channel. *1
Insert to P1 Playlist	Adds the selected content to the playlist loaded on the P1 channel. *1 *3
Insert to P2 Playlist	Adds the selected content to the playlist loaded on the P2 channel. *1 *3
Cut	Cuts the selected content (copies it to clipboard). *1 *3
Copy	Copies the selected content (copies it to clipboard). *1 *3
Paste	Pastes the content copied to clipboard.
Delete	Deletes the contents and moves them to the RecycleBin.
Rename	Changes the name of the selected content. *1
Pairing	Sets as paired contents for sync mode. *2
Unpairing	Cancels the pairing setting.

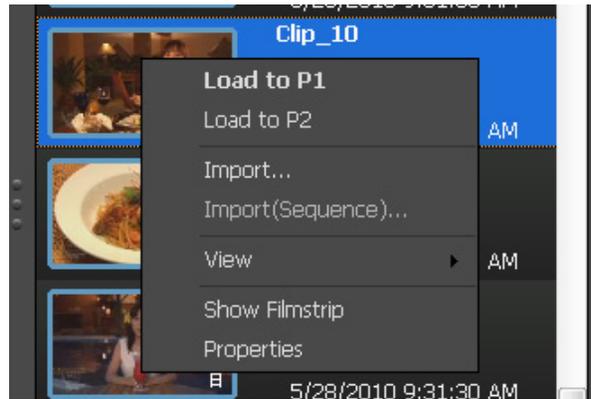
Export	Exports the selected contents. *3
View	Switches display mode between Icon mode and Text mode.
Thumbnail Frame Color	Specifies the color of the thumbnail frame. *3
Show Filmstrip	Displays the preview of the contents with a six-parted film strip. *1
Properties	Displays the properties dialog of the content. *1

*1 Available only when a content is chosen.

*2 Available only when two contents are chosen.

*3 Choosing multiple contents is available.

Browse screen – Removable media – Right-click menu

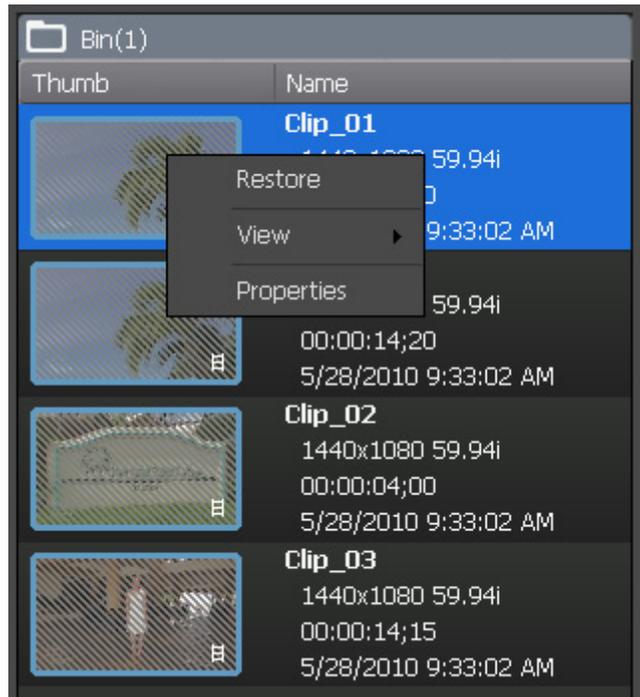


Load to P1	Loads the selected file to the P1 channel. Without importing the files as clips, they can be loaded to the channel. While you playback the file, the playback performance depends on the performance of the media drive where the file is stored. *1
Load to P2	Loads the selected contents to the P2 channel. Without importing the files as clips, they can be loaded to the channel. While you playback the file, the playback performance depends on the performance of the media drive where the file is stored. *1
Import	Imports the selected files to Bin as contents. *2
Import (Sequence)	Imports the selected images to bin as a sequenced clip. *1
View	Switches display mode between Icon mode and Text mode.
Show Filmstrip	Displays the preview of the contents with a six-parted film strip. *1
Properties	Displays the properties dialog of the content. *1

*1 Available only when a content is chosen.

*2 Choosing multiple contents is available.

RecycleBin – Clip/Playlist – Right click menu

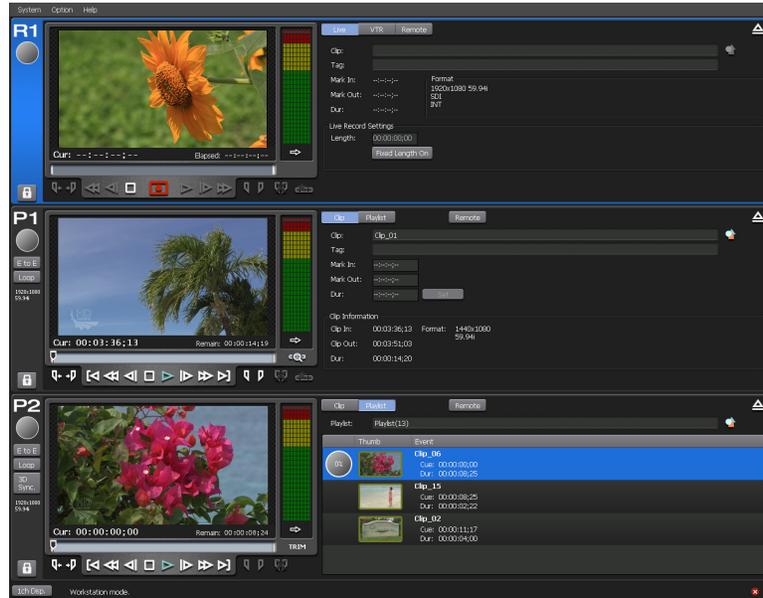


Restore	Restores the item to the original Bin, and then opens the Bin folder. When a playlist is restored, if the clips used in the playlist exist in the RecycleBin, the clips will also be restored.
View	Switches display mode between Icon mode and Text mode.
Properties	Opens the properties dialog for the selected content.

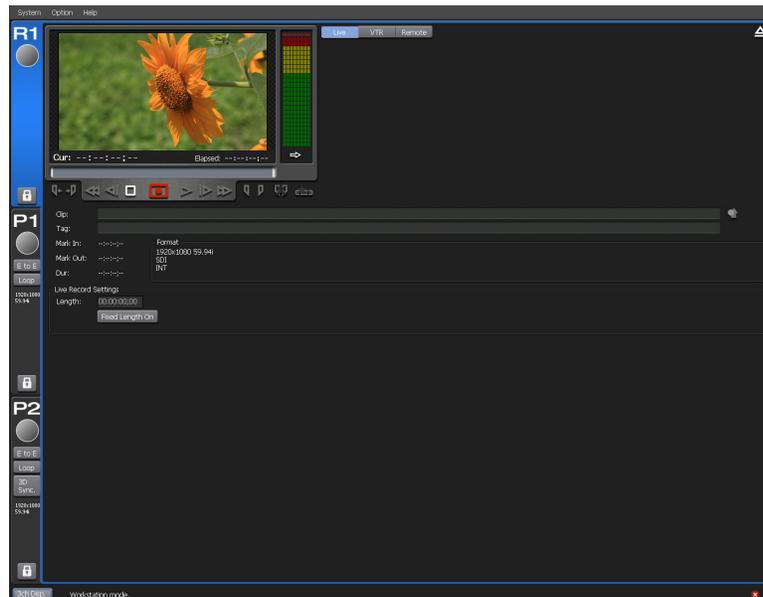
Channel part

The channel part has two display modes: 3ch Display and Full display.

3ch Display

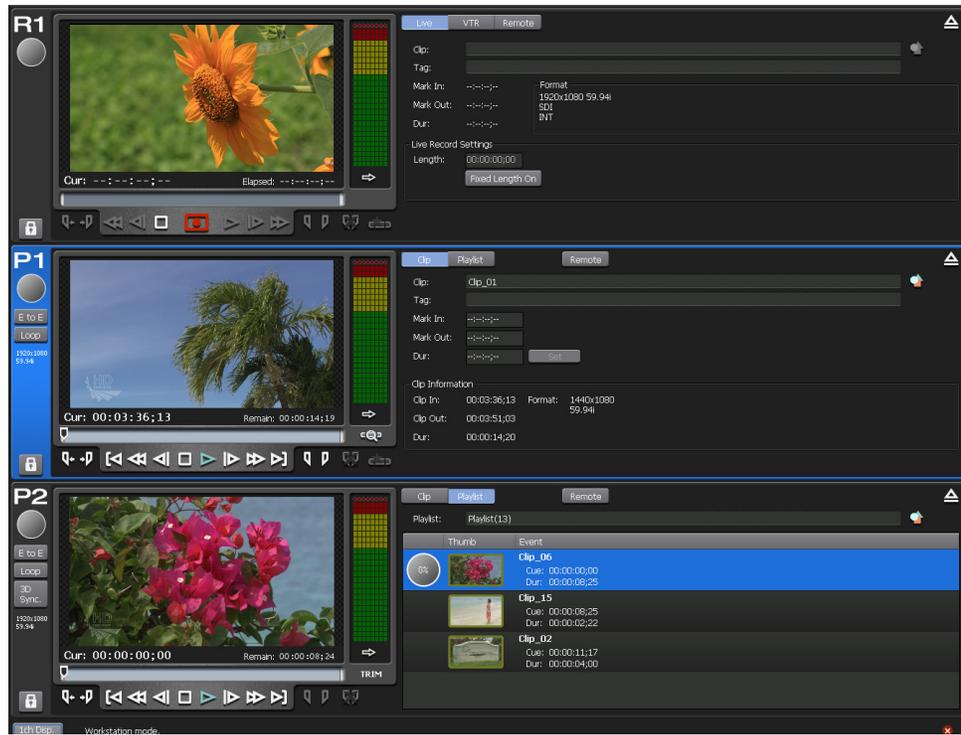


Full Display



3ch Display

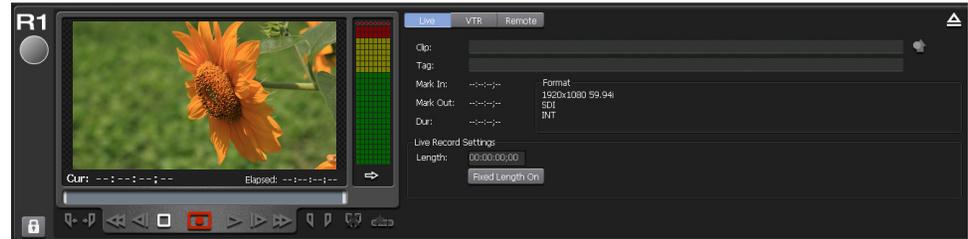
Displays R1, P1 and P2 channels. Clicking of each channel will activate the channel.



R1 channel

This channel is used to record the input signal.

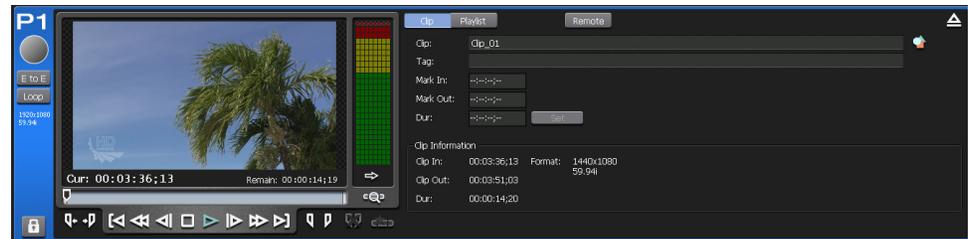
For details on the items shown on the screen, see *Full Display – Recorder channel* page.



P1/P2 channel – Clip Player

This channel is used to play a clip.

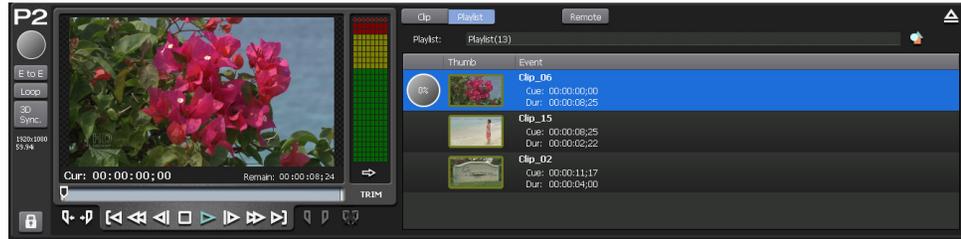
For details on the items shown on the screen, see *Full Display – Clip Player* page.



P1/P2 channel – Playlist Player

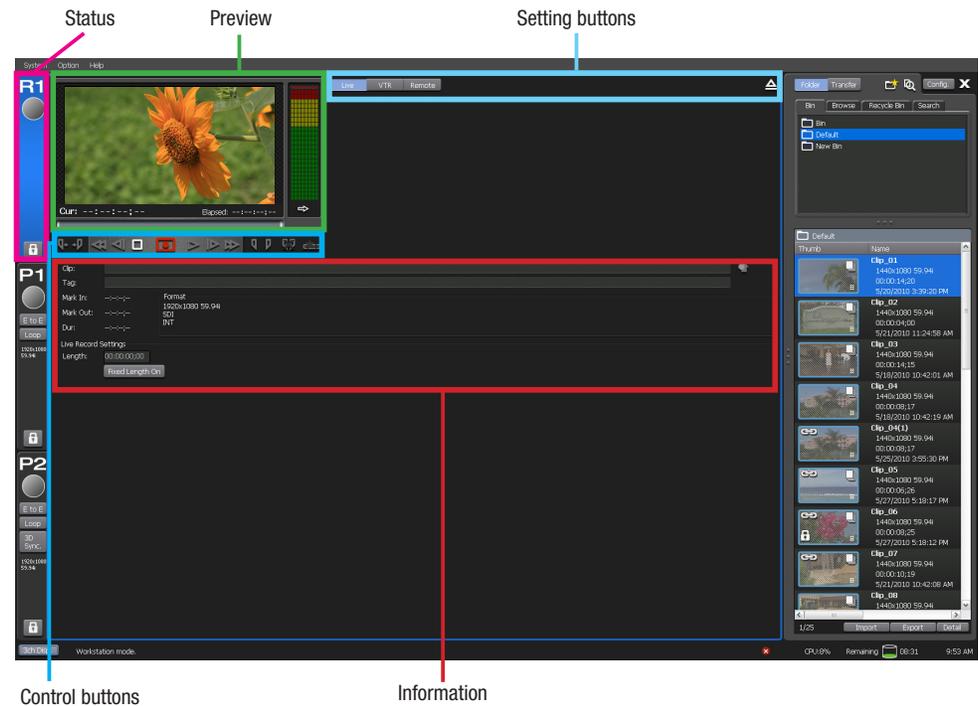
This channel is used to play a playlist.

For details on the items shown on the screen, see *Full Display – Playlist Player* page.

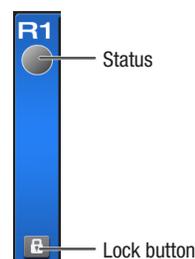


Full Display - Recorder screen

On this screen, you can modify the settings for recording and/or execute the recording. When the capacity of the HDD becomes low, the HDD icon is displayed in red. In that case, a warning message appears at the beginning of the recording.

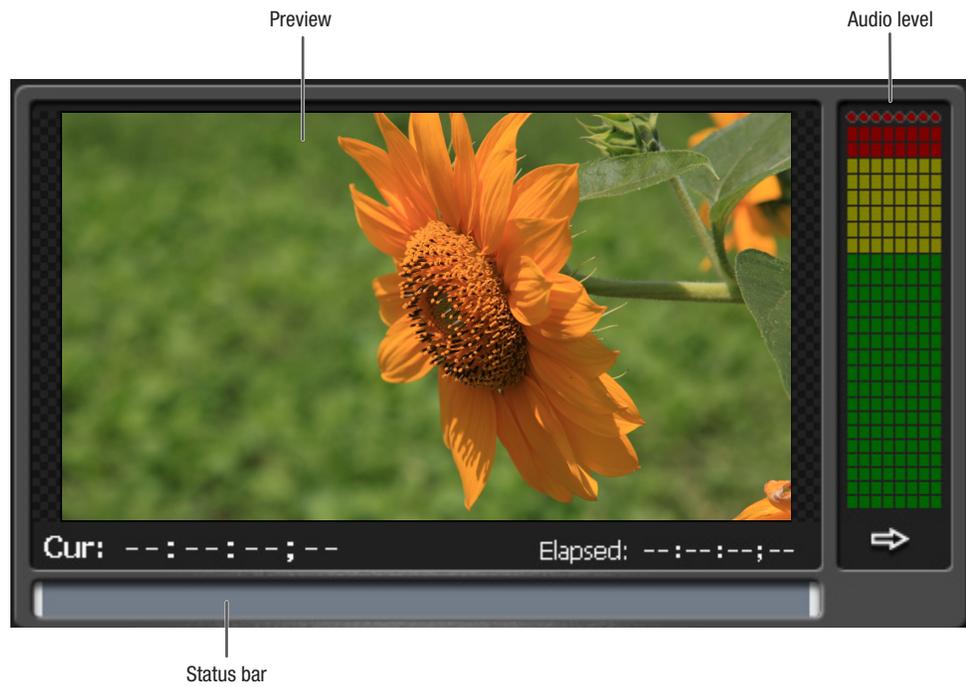


Status



Status	Displays the status of the recording operation with a circular chart.
Lock button	Locks/Unlocks the channel.

Preview



Preview	Displays the preview for the input video.
Audio level	Displays the input audio level.
Cur	Displays the current timecode.
Elapsed	Displays the elapsed recording time by timecode.
Status bar	Displays the recording status with a bar.

Setting buttons

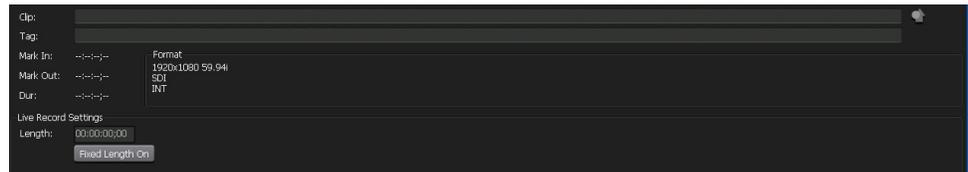
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; gap: 5px;"> Live VTR Remote </div> <div style="text-align: right;">  Unload button </div> </div>	
Control Mode button	<p>Switches the recording mode between Live and VTR.</p> <p>Live Records the video input from an external device as live (stream). Perform operations manually for recording. When the Fixed Length Recording is activated, the recording automatically stops when the specified period of time has passed.</p> <p>VTR You can specify the IN/OUT points before starting recording, controlling the external VTR device from T2. To use this mode, connection to an external device via RS-422A is required.</p> <p>Remote You can specify the IN/OUT points before starting recording, controlling T2 from an external VTR device. To use this mode, connection to an external device via RS-422A is required.</p>
Unload button	Unloads the loaded clip.

Control buttons



Cue (IN)	Cues the VTR to the existing IN point. (Available only in VTR mode)
Cue (OUT)	Cues the VTR to the existing OUT point. (Available only in VTR mode)
Rew button	Rewinds the VTR. (Available only in VTR mode)
Previous Frame button	Moves back frame by frame. (Available only in VTR mode)
Stop button	Stops playback/recording.
Rec button	Starts recording.
Play button	Starts playback. (Available only in VTR mode)
Next Frame button	Moves forward frame by frame. (Available only in VTR mode)
FF button	Fast-forward the VTR. (Available only in VTR mode)
Mark (IN)	Marks the current position as the IN point of the content. Marking an IN point will set the timecode of the IN point in the timecode box.
Mark (OUT)	Marks the current position as the OUT point of the content. Marking an OUT point will set the timecode of the OUT point in the timecode box, as well as the duration of the clip in the Length box.
Clear button	Clears the existing IN/OUT points.

Information



Clip	Input a clip name.
Tag	Input tags.
Mark In	Displays the timecode at the IN point.
Mark Out	Displays the timecode at the OUT point.
Dur	Displays the duration of the content between the IN-OUT points by timecode.
Format	Displays the information including video size, frame rate, input type, source timecode (TC (LTC) / SDI (MTC) / INT), etc.
Live Record Settings	<p>Specify the live recording settings.</p> <p>Length Specify the duration of the clip in the Fixed Length mode.</p> <p>Fixed Length On Click this button to activate the Fixed Length recording mode.</p>

Modes and functions of recording

See the following table for the recording modes and their functions.

	Crash Rec	Fixed Length Rec
VTR	○*1	○*1
Live	○	○

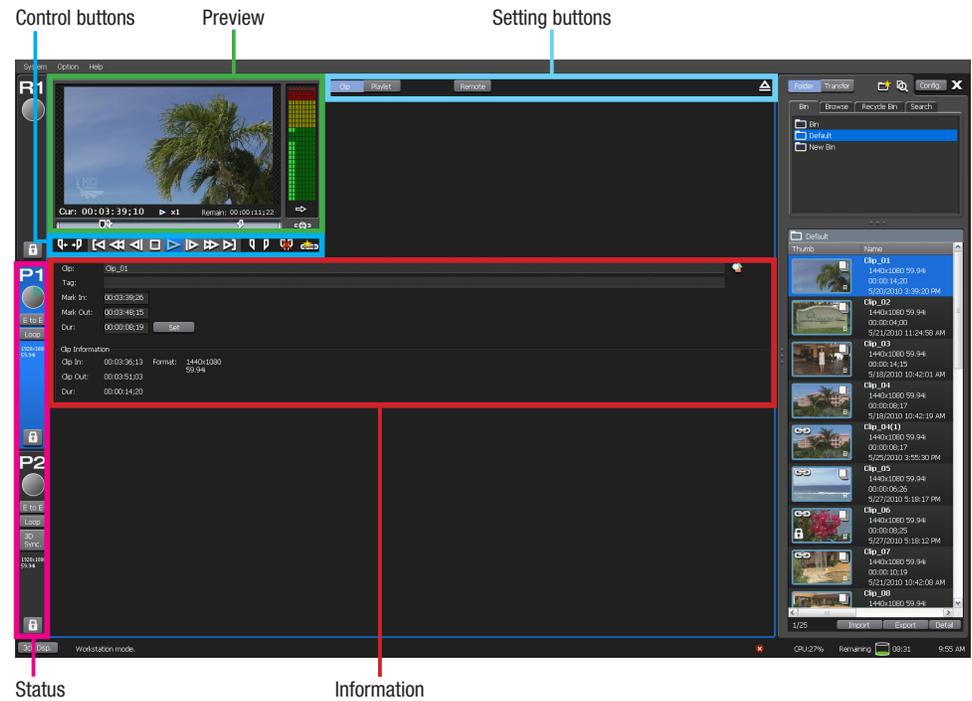
*1 Available only when IN/OUT points are not set.

- In VTR mode, when both IN and OUT points are set, the range between the IN and OUT points will be recorded, controlling the VTR.
- In VTR mode, when only IN point is set, the recording starts from the specified IN point, controlling the VTR. (Recording must be stopped manually.)
- According to the type of the recording, the icon of the **Rec** button differs.

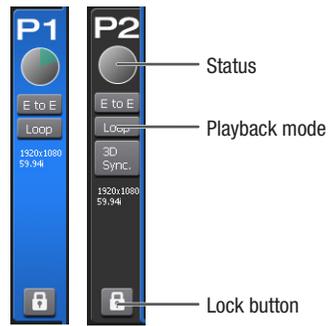
	Crash Rec	This icon indicates that recording must be stopped manually.
	Fixed Length Rec	This icon indicates that the Fixed Length mode is enabled.
	In-Out Rec	This icon indicates that the IN/OUT points are set.

Full Display - ClipPlayer

On this screen, you can modify the settings for clip playback and/or execute the playback.



Status



Status	Displays the status of the playback operation with a circular chart.
Playback mode	<p>E to E Displays whether the E to E mode is enabled. When the E to E mode is enabled, the recorder channel audio and video inputs are switched to the player channel audio and video outputs when the player channel is in stop mode or when there is no clip loaded. * The video format for the channel specified to E to E mode must be same as that of the R1 channel.</p> <p>Loop Displays whether the Loop mode is enabled.</p> <p>3D Sync. Displays whether the Sync mode is enabled. (Available only on P2 channel.)</p>
Lock button	Locks/Unlocks the channel.

Preview



Preview	Displays the video preview.
Audio level	Displays the output audio level.
Cur	Displays the current timecode.
Playback speed	Displays the current playback speed (ratio).
Remain	Displays the remaining time by timecode.
Scrub bar	Displays the current position and the IN/OUT points.
Zoom button	<p>Changes the display scale on the scrub bar (Zoom On / Off).</p> <p>Zoom On Displays the section between the IN-OUT points of the clip as a whole scale of the scrub bar. Moving the current point out of the IN-OUT range is not available.</p> <p>Zoom Off Displays the entire media clip in a complete scale of the scrub bar. In the normal playback operations, the current position can be moved between the IN-OUT points. To move out of the existing IN-OUT range, perform FF, Rew, Jog/Shuttle operations after CueUp.</p>

Setting buttons



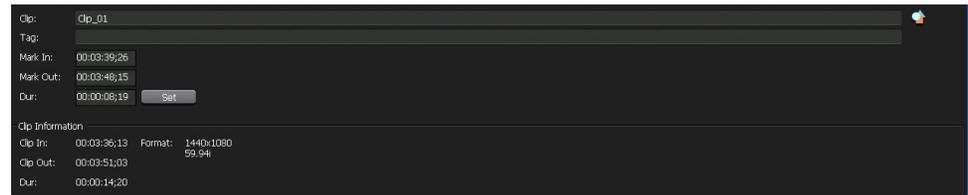
Switch mode button	Switches the player mode between Clip and Playlist .
Remote button	Click this button to enable remote controls from the external device connected.
Unload button	Unloads the loaded clip.

Control buttons



Cue (IN)	Cues to the existing IN point.
Cue (OUT)	Cues to the existing OUT point.
Top button	Cues to the top of the loaded content.
Rew button	While playing a clip Moves to the previous IN/OUT point, or the top of the clip. While playing a playlist Moves to the previous event.
Previous Frame button	Moves back frame by frame.
Stop button	Stops playback.
Play button	Starts playback.
Next Frame button	Moves forward frame by frame.
FF button	While playing a clip Moves to the next IN/OUT point, or the end of the clip. While playing a playlist Moves to the next event.
End button	Cues to the end of the loaded content.
Mark (IN)	Marks the current position as the IN point of the content. Marking an IN point will set the timecode of the IN point in the timecode box.
Mark (OUT)	Marks the current position as the OUT point of the content. Marking an OUT point will set the timecode of the OUT point in the timecode box, as well as the duration of the clip in the Length box.
Clear button	Clears the existing IN/OUT points.
Creating sub-clip button	Generates a sub-clip according to the existing IN/OUT points.

Information



Clip	Displays the name of the loaded clip.
Tag	Displays tags. You can also input tags.
Mark In	Displays the timecode at the IN point.
Mark Out	Displays the timecode at the OUT point.
Dur	Displays the duration of the content between the IN-OUT points by timecode.
Set button	Click the Set button to update the IN/OUT points of the content according to the existing IN/OUT points.
Clip In	Displays the timecode at the IN point of the clip.
Clip Out	Displays the timecode at the OUT point of the clip.
Dur	Displays the duration of the clip by timecode.
Format	Displays the video size and frame rate.

Preview – Right click menu



Set Thumbnail Frame	Choose this option to use the current frame as a thumbnail.
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Loading clip from Bin

To load a clip from the Bin, perform drag & drop, use the Bin menu, or double-click on a clip.

Loading clip which is being recorded (Follow-up playback)

To Load the clip which is being recorded on the R1 channel onto one of the playback channels, perform the loading operation on the clip registered to the Bin once a recording starts.

Adjusting IN/OUT points

Cue to the Mark IN/OUT points, and perform moving frame/FF/Rew operations to go out of the current IN-OUT range (The duration of the clip will be extended.)

Sync mode

In the Sync mode, the clips that have been specified as **paired clips** in the Bin, can be loaded to the player channel. When a clip that has been paired is loaded onto the P1 channel, the other clip of the pair will automatically be loaded to the P2 channel.

When the Sync mode is activated, if the output settings of the P1 and P2 channels differ, the settings on the P2 channel are automatically changed so as to match those of the P1.

The E to E mode cannot be simultaneously activated.

In the Sync mode, only playback operations are available. Marking IN/OUT points or creating sub-clips is not available.

* If the duration of the contents differs between P1 and P2 channels, the playback operations will be performed according to the P1 channel. (P1 channel is the master channel.) When the content loaded on the P2 channel is shorter, the final frame remains displayed.

Requirements for sync mode

- Contents must be of the same type. (clip and clip or playlist and playlist). Combinations between clip and playlist are not available for pairing contents in the sync mode.
- Audio types do not matter.

Note	The materials (clips) on removable drives are not available for pairing.
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Direct playback from removable drives

Without importing files on your T2, you can load the supported media stored on a removable drive on the P1/P2 channels of your T2.

To do so, open the Browse tab for the Bin, choose a media file, and then click the >P1 or >P2 button. The selected file will be loaded on the corresponding channel.

Operations on the P1/P2 channel

When a file is loaded on a channel, the following operations are available.

- Playback operations with the operation buttons (play, stop, etc.)
- Setting In/Out points, Cue up to In/Out points
- Adjusting audio gain
- Displaying properties

- Adjusting Mark In/Mark Out settings
 - * When the removable drive is disconnected, the settings will be cleared.

Note	The following operations are not available. <ul style="list-style-type: none">• Generating sub clips• Sync playback (pairing)• Adding to a playlist
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Note	* Depending on the performance of the external drive, playback may not operate properly, or some delay may occur.
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Note	* Generating sub-clips from or creating a playlist with the media files on removable drives is not available. If you need to create sub-clips or playlists using data on removable drives, open the Browse Tab of the Bin window, and import and register them as clips.
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Importing still images

You can import still images on your T2.

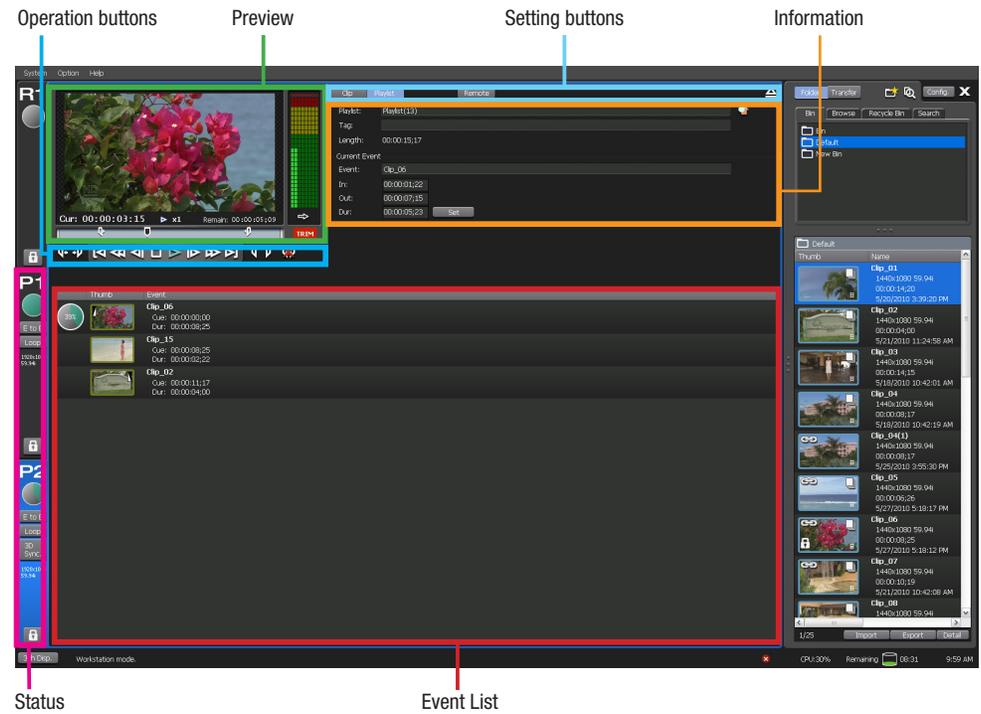
If you import multiple still images as a sequenced clip, the clip can be used as video content on your T2.

See page 34 for the import settings.

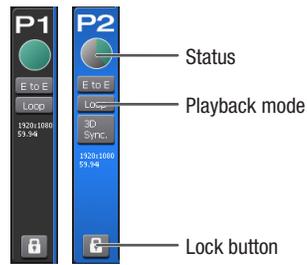
- * When importing still images as a sequenced clip, the importing process will be aborted if the file extension changes, or if you try to import mixed files where some files have an alpha channel and others do not.
- * The clip generated from still images, or sequenced still images does not have audio (mute).
- * When importing still images that have an alpha channel, the clip will be generated in Canopus HQ format with an alpha channel.
- * When a sequenced clip is loaded to a channel, the position of the thumbnail is similar to that of a movie clip.
- * The maximum size of a still image that may be imported is 4,096 x 2,304 pixels (4K).

Full Display - PlaylistPlayer

In this screen, you can modify the playback settings for the playlist and/or execute the playback. The Event List will be automatically scrolled so that the clip being played is shown on screen. To enable/disable the auto-scroll for the Event List, click the **Config** button, open the **Miscellaneous** tab and change the **Playlist AutoScroll** setting (Default: ON).



Status



Status	Displays the status of the playback operation with a circular chart.
Playback mode	<p>E to E Displays whether the E to E mode is enabled. When the E to E mode is enabled, the recorder channel audio and video inputs are switched to the player channel audio and video outputs when the player channel is in stop mode or when there is no playlist loaded. * The video format for the channel specified to E to E mode must be same as that of the R1 channel.</p> <p>Loop Displays whether the Loop mode is enabled.</p> <p>3D Sync. Displays whether the Sync mode is enabled. (Available only on the P2 channel)</p>
Lock button	Locks/Unlocks the channel.

Preview



Preview	Displays the video preview.
Audio level	Displays the output audio level.
Cur	Displays the current timecode.
Playback speed	Displays the current playback speed (ratio).
Remain	Displays the remaining time by timecode.
Scrub bar	Displays the current position and the IN/OUT points.
TRIM button	Click the TRIM button to update the IN/OUT points of the content according to the existing IN/OUT points. (Available only while editing)

Setting buttons



Switch Mode button	Switches the player mode between Clip player and Playlist player .
Remote button	Click this button to enable remote controls from the external device connected.
Unload button	Unloads the loaded playlist.

Operation buttons



Cue (IN)	Cues to the top frame of the current event.
Cue (OUT)	Cues to the end frame of the current event.
Previous Event button	Cues to the previous event (IN point).
Rew button	Rewinds the loaded content.
Previous Frame button	Moves back frame by frame.
Stop button	Stops playback.
Play button	Starts playback.
Next Frame button	Moves forward frame by frame.
FF button	Fast-forward the loaded content.
Next Event button	Cues to the next event (IN point).
Mark (IN)	Marks the current position as the IN point of the content. Marking an IN point will set the timecode of the IN point in the timecode box. (Available only while editing)
Mark (OUT)	Marks the current position as the OUT point of the content. Marking an OUT point will set the timecode of the OUT point in the timecode box, as well as the duration of the clip in the Length box. (Available only while editing)
Clear button	Clears the existing IN/OUT points. (Available only while editing)

Information

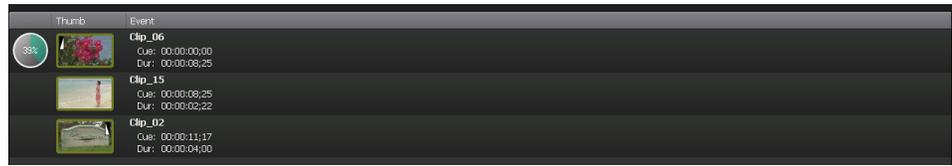
The screenshot shows a dark-themed interface with the following fields and values:

- Playlist: Playlist(13)
- Tag: (empty)
- Length: 00:00:15;17
- Current Event: (empty)
- Event: Clip_06
- In: 00:00:01;22
- Out: 00:00:07;15
- Dur: 00:00:05;23
- Set button: A button labeled "Set" is located to the right of the Dur field.

Playlist	Displays the name of the loaded playlist.
Tag	Displays tags. You can also input tags.
Length	Displays the total length of the playlist.
Event	Displays the name of the event being played.
In	Displays the timecode at the IN point of the event being played.
Out	Displays the timecode at the OUT point of the event being played.
Dur	Displays the duration of the content between the IN-OUT points by timecode.
Set button	Updates the IN/OUT points of the event according to the existing IN/OUT points.

Event List

Displays the list of the registered events and the playback status.

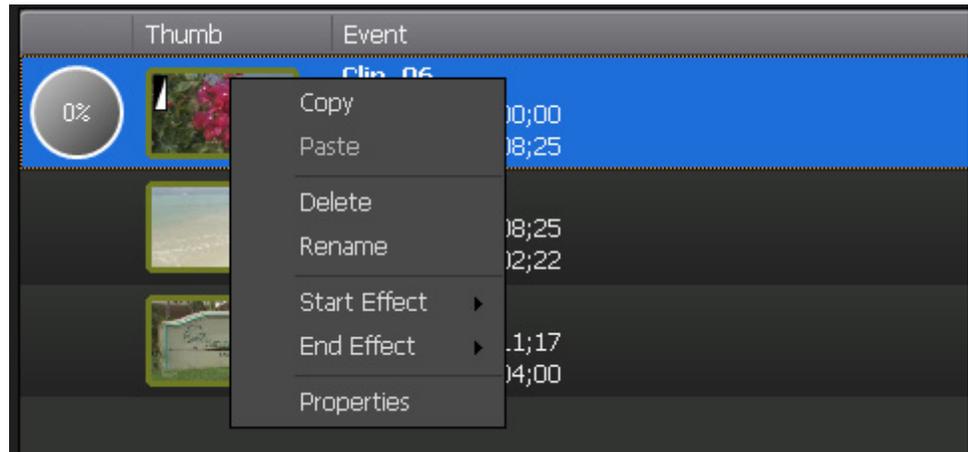


Event List

Lists the events on the playlist.
On the thumbnail of each event, icons for identifying its effect are displayed, if any.

* If the End Effect (Pause, Loop) is set on the final event of the playlist, the loop setting on the channel is ignored, and the specified End Effect takes precedence.

Event List – Right click menu



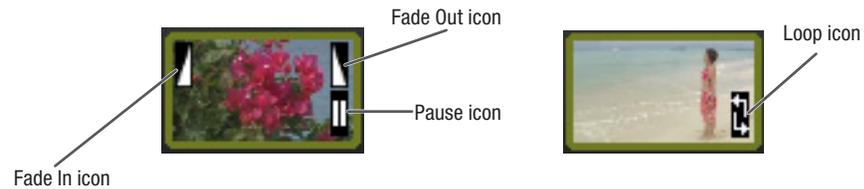
Copy	Copies the selected event (copies it to clipboard).
Paste	Pastes the content copied to clipboard.
Delete	Deletes the events from the Event List.
Rename	Changes the name of the selected event.
Start Effect	Specifies the Start Effect of the selected event.
End Effect	Specifies the End Effect of the selected event.
Properties	Displays the properties dialog of the selected event.

Preview – Right click menu



Set Thumbnail Frame	Choose this option to use the current frame as the thumbnail of the current event.
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Thumbnail icons



Fade In icon	Displayed on the contents where Fade In is set.
Fade Out icon	Displayed on the contents where Fade Out is set.
Pause icon	Displayed on the contents where Pause is set for the End Effect.
Loop icon	Displayed on the contents where Loop is set for the End Effect.

Creating a playlist

To create a playlist, drag & drop clip/playlist from the Bin to the Event List.

Cut, Copy, Paste and Delete operations are available on the Event List.

To change the order of the events on the playlist, drag & drop events on the Event List.

* Up to 1000 events can be registered to a playlist. Note that at least one event is required on a playlist.

* Double-clicking on an event will cue to the event.

Sync mode

In the Sync mode, the playlists that have been specified as **paired playlists** in the Bin, can be loaded to the player channel. When a playlist that has been paired is loaded onto the P1 channel, the other playlist of the pair will automatically be loaded to the P2 channel.

When the Sync mode is activated, if the output settings of the P1 and P2 channels differ, the settings on the P2 channel are automatically changed so as to match those of the P1.

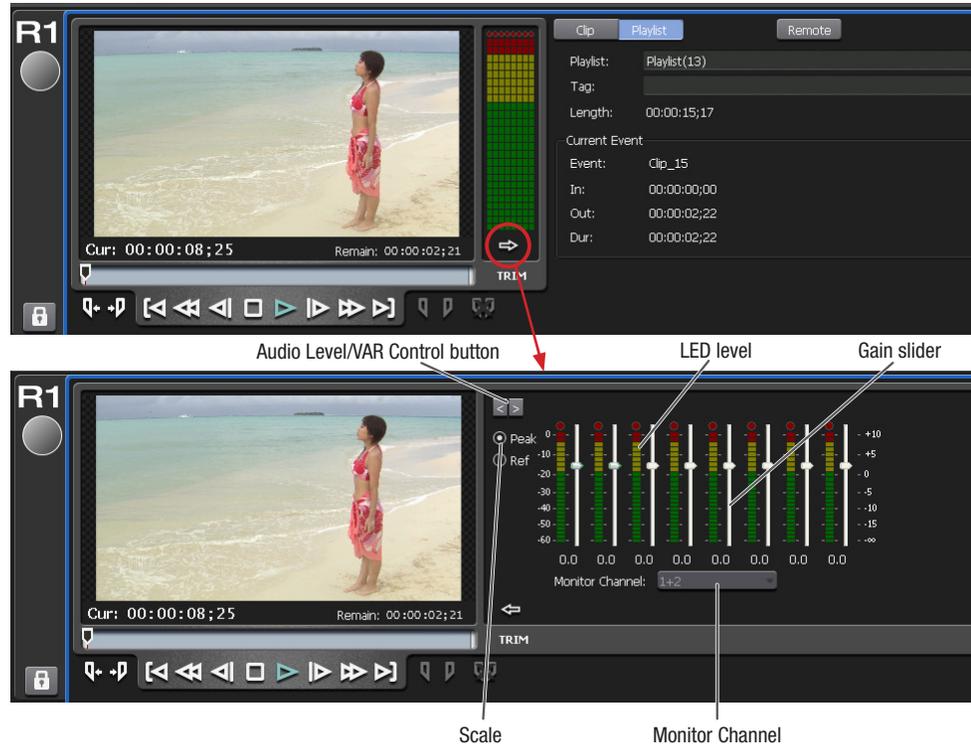
The **E to E mode** cannot be simultaneously activated.

In the Sync mode, only playback operations are available. Marking IN/OUT points or creating sub-clips is not available.

* If the duration of the contents differs between P1 and P2 channels, the playback operations will be performed according to the P1 channel. (P1 channel is the master channel.) When the content loaded on the P2 channel is shorter, the final frame remains displayed.

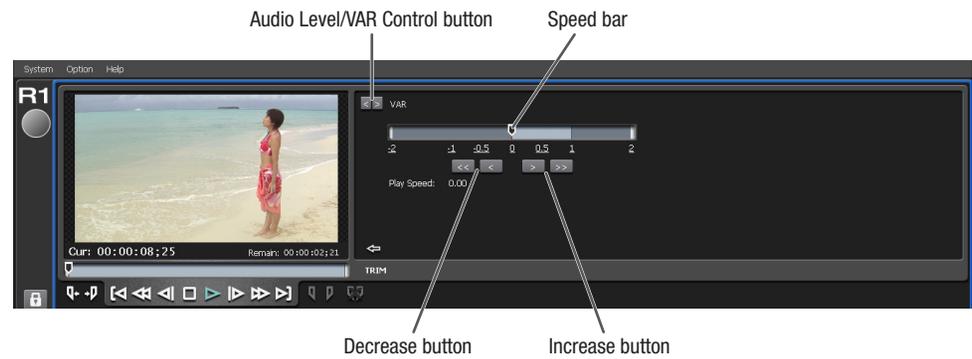
Audio Level

Clicking on the audio level area (arrow symbol) opens the Audio Level meter.



Audio Level/VAR Control button	Opens the VAR Control screen
Scale	Switches the display scale. PEAK0 : -60dB to 0dB (Displays so that the maximum volume as 0dB: dBFS) REF0 : -40dB to +20dB (Displays the standard level (Headroom) as 0dB)
LED level	Displays the audio level (peak meter).
Gain slider	Adjust the gain for each channel. (Only ANA is available on the R1 channel) Range : -∞ to +10dB
Monitor Channel	Choose a monitor channel for headphone jack. 1+2 / 3+4 / 5+6 / 7+8 are available for each R1/P1/P2 channel.

VAR Control screen

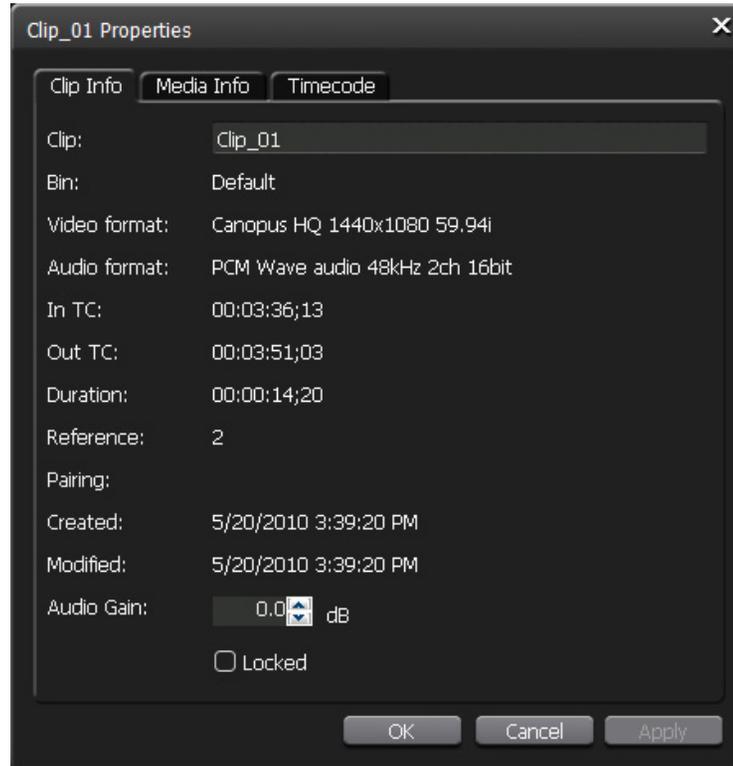


Audio Level/VAR Control button	Switches to the Audio Level screen.
Speed bar	Click the bar to play the clip at the specified speed. Playback speed can be modified also by dragging the indicator.
Decrease button	Click the button to decrease the playback speed.
Increase button	Click the button to increase the playback speed.
Play Speed	Displays the current playback speed.

Properties screen

Clip properties

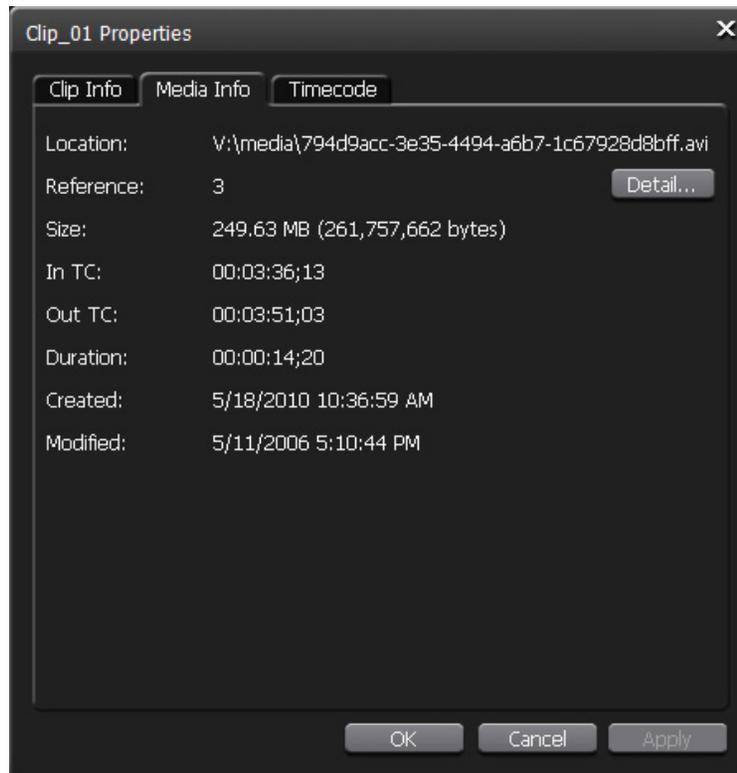
Clip Info tab



Clip	Displays the clip name. The clip name can be changed in this screen.
Bin	Displays the name of the Bin folder where the clip is registered.
Video Format	Displays the video format.
Audio Format	Displays the audio format.
In TC	Displays the timecode at the IN point.
Out TC	Displays the timecode at the OUT point.
Duration	Displays the duration of the clip. The duration can be modified for still images.
Reference	Displays the number of the playlists that refer to the clip.
Pairing	Displays the clip name that is paired with this clip for the Sync mode.
Created	Displays the timestamp when the clip was created.
Modified	Displays the timestamp when the clip was updated.

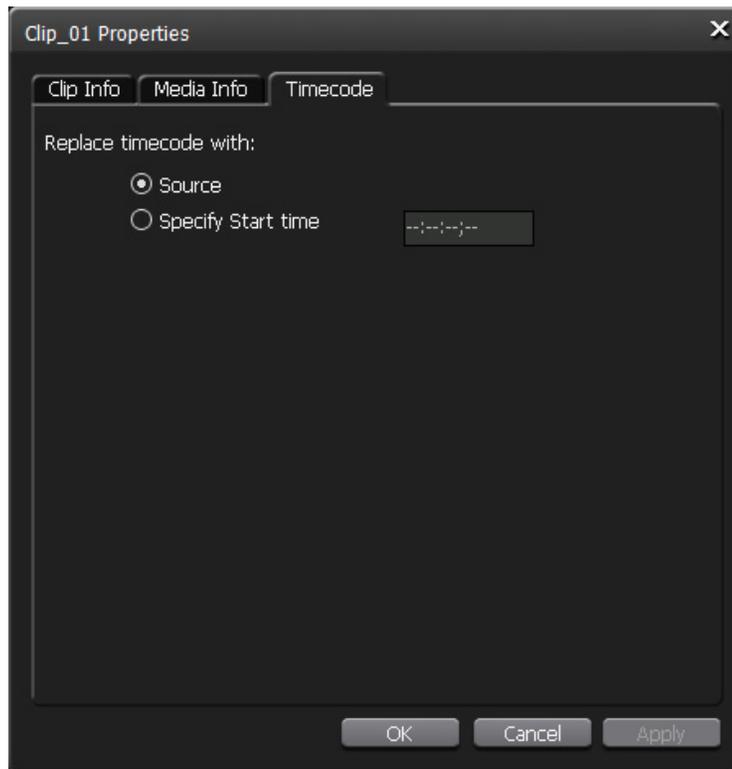
Audio Gain	Display/Specify the audio gain. * This option is not displayed for still images.
Locked	Check this option to lock the clip.

Media Info tab



Location	Displays the file name and the file path for the media file.
Reference	Displays the number of the playlists that refer to the media file. Click the View button to display the clips/playlists that refer to the media file.
Size	Displays the size of the media file.
In TC	Displays the timecode at the IN point.
Out TC	Displays the timecode at the OUT point.
Duration	Displays the duration of the media file.
Created	Displays the timestamp when the clip media file was created.
Modified	Displays the timestamp when the clip media file was updated.

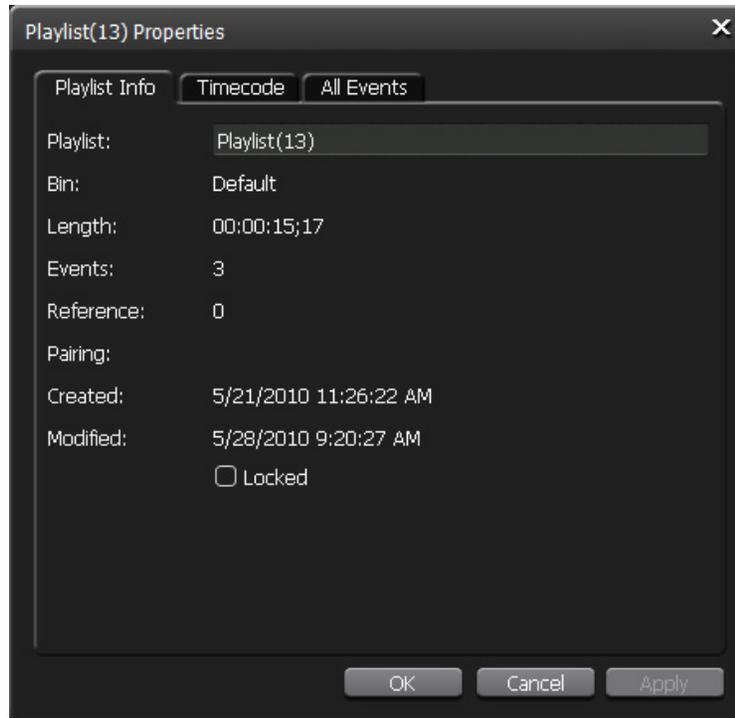
Timecode tab



<p>Replace timecode with</p>	<p>Specifies the method to change the timecode.</p> <p>Source Check this option to replace with the timecode for the source. * When the frame rate differs between the channel profile and the content, the timecode will start from 0, even if the "Source" option is selected.</p> <p>Specify Start Time Check this option to specify the starting timecode, and specify the value.</p>
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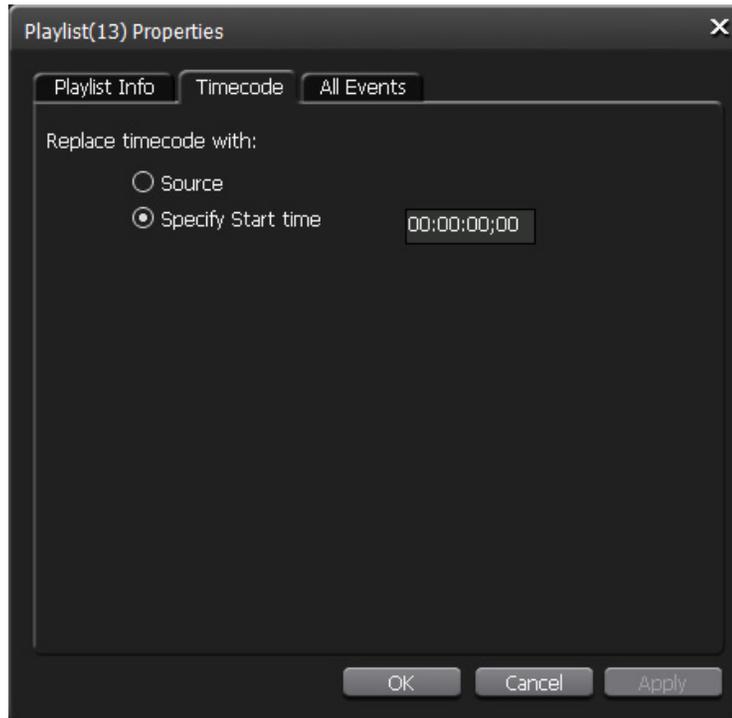
Playlist properties

Playlist Info tab



Playlist	Displays the playlist name. The playlist name can be changed on this screen.
Bin	Displays the name of the Bin folder where the playlist is registered.
Length	Displays the duration of the playlist.
Events	Displays the number of events registered on the playlist.
Reference	Displays the number of the playlists that refer to this playlist.
Pairing	Displays the playlist name that is paired with this playlist for the Sync mode.
Created	Displays the timestamp when the playlist was created.
Modified	Displays the timestamp when the playlist was updated.
Locked	Check this option to lock the playlist.

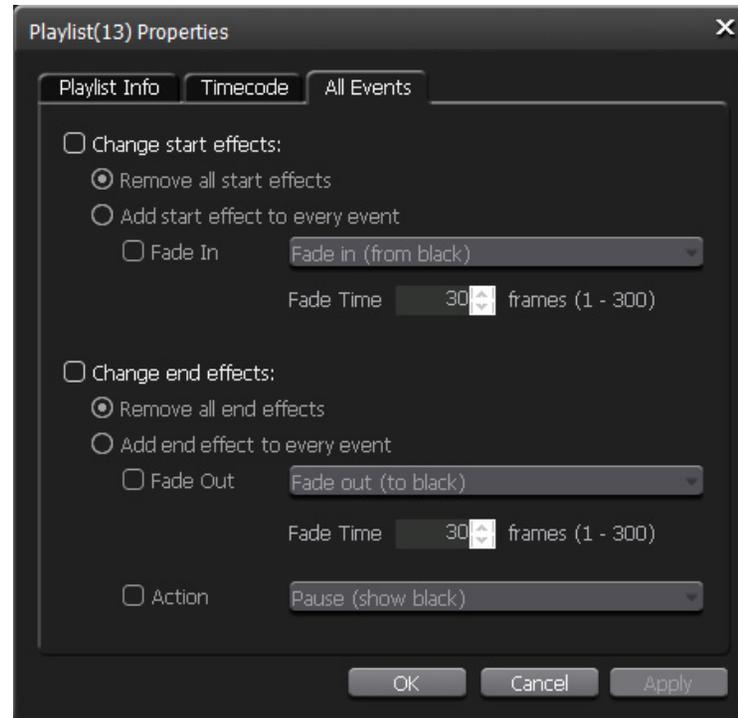
Timecode tab



Replace timecode with	<p>Specifies the method to change the timecode.</p> <p>Source Check this option to replace with the timecode for the source. * When the frame rate differs between the channel profile and the content, the timecode will start from 0, even if the “Source” option is selected.</p> <p>Specify Start Time Check this option to specify the starting timecode, and specify the value.</p>
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All Events tab

In this tab, the settings for all the events registered on the playlist can be modified globally.



Change start effects

Check this option to change the start effect of the events.

Remove all start effects

Removes the start effects from all the events.

Add start effect to every event

Adds start effects to all the events.

Fade In

Adds fade in to all the events.

- Fade in (from black)Adds the fade in starting from a black screen.
- Fade in (from white)Adds the fade in starting from a white screen.

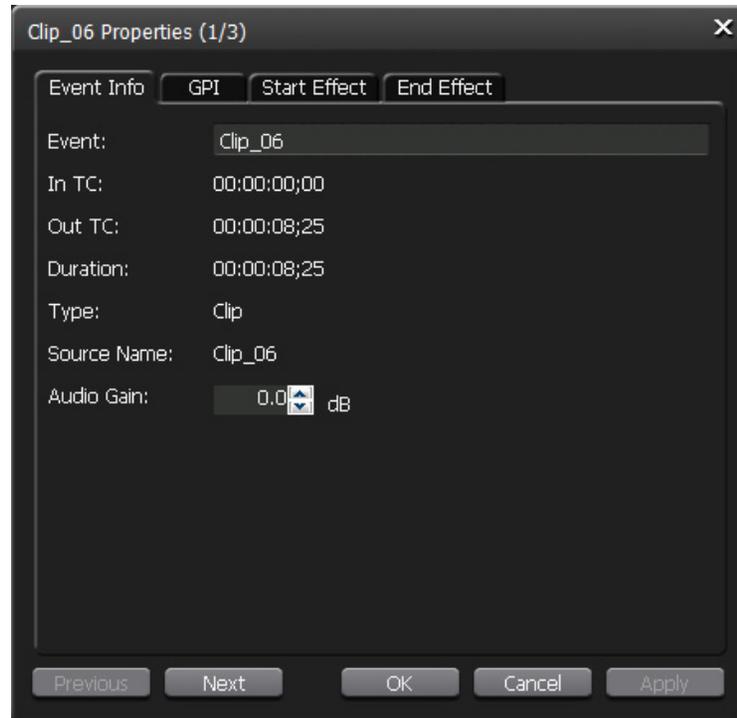
Fade Time

Specify the duration between the beginning and the end of the fade in.

<p>Change end effects</p>	<p>Check this option to change the end effect of the events.</p> <p>Remove all end effects Removes the end effects from all the events.</p> <p>Add end effect to every event Adds end effects to all the events.</p> <p>Fade Out Adds fade out to all the events.</p> <ul style="list-style-type: none"> • Fade out (to black)Adds the fade out ending with a black screen. • Fade out (to white)Adds the fade out ending with a white screen. <p>Fade Time Specify the duration between the beginning and the end of the fade out.</p> <p>Action Check this option to specify the action when the playback ends.</p> <ul style="list-style-type: none"> • Pause (show black)Pauses the playback with a black screen displayed. • Pause (show white)Pauses the playback with a white screen displayed. • Pause (last frame)Pauses the playback with the last frame displayed. • Pause (next event).....Pauses the playback with the first frame of the next event displayed. • Pause (show E to E).....Displays the video input to the R1 channel with active through. • Loop.....Playbacks the selected event in loop.
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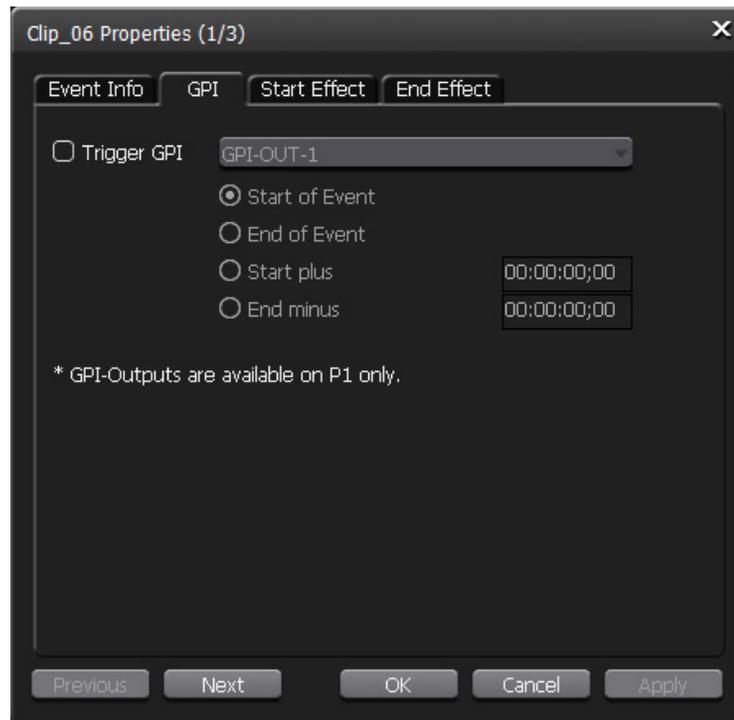
Event properties

Event Info tab



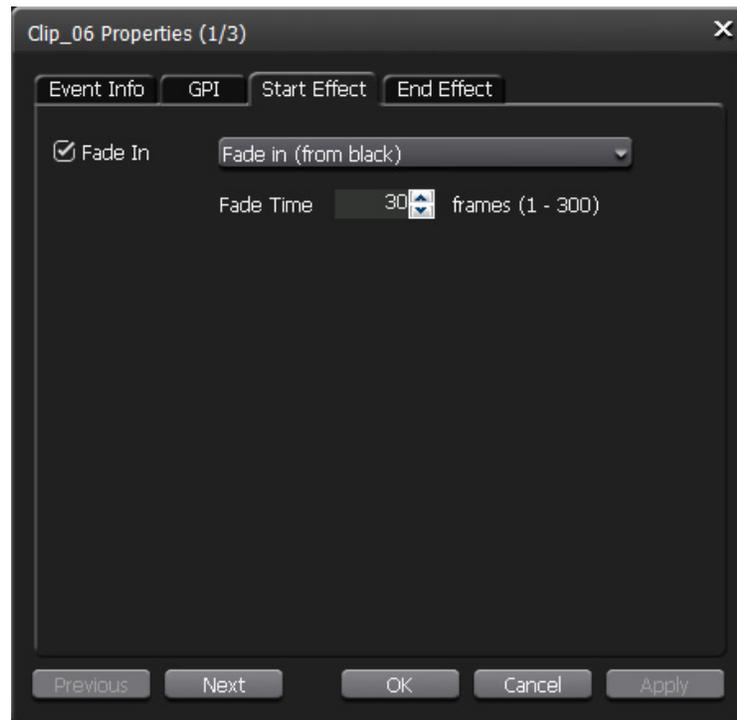
Event	Displays the event name. The event name can be changed on this screen.
In TC	Displays the timecode at the IN point.
Out TC	Displays the timecode at the OUT point.
Duration	Displays the duration of the event. The duration can be modified for still images.
Type	Displays the type of event (Clip or Playlist).
Source Name	Displays the clip name or the playlist name that the event refers to.
Audio Gain	Display/Specify the audio gain. * This option is not displayed for still images.

GPI tab



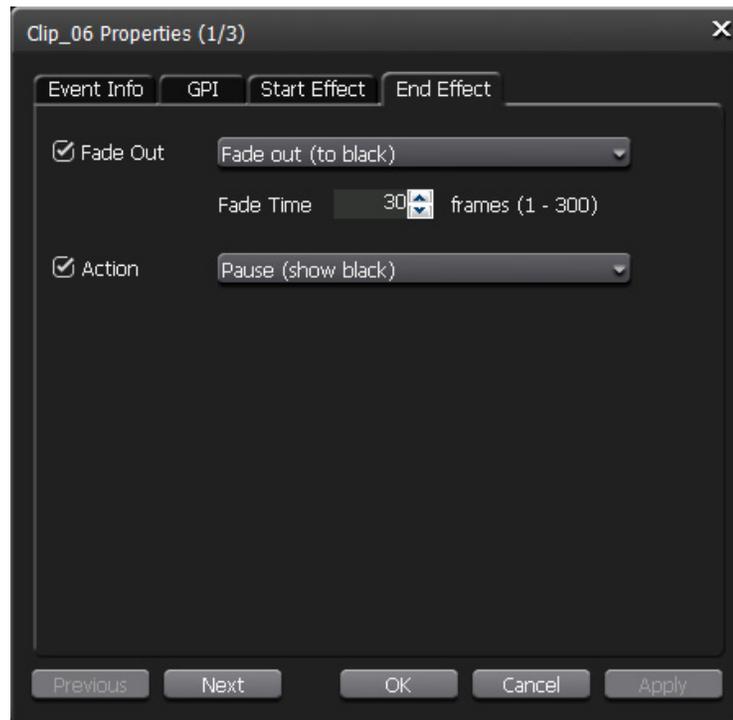
Trigger GPI	Choose the GPI trigger to specify setting.
Start of Event	Check this option to set the start of an event as a trigger.
End of Event	Check this option to set the end of an event as a trigger.
Start plus	Check this option to set a certain point from the top of an event as a trigger, and then specify the value.
End minus	Check this option to set a certain point before the end of an event as a trigger, and then specify the value.

Start Effect tab



Fade In	Check this option to add the fade in effect to the chosen event, and choose the effect. <ul style="list-style-type: none"> • Fade in (from black)..... Adds the fade in starting from a black screen. • Fade in (from white)..... Adds the fade in starting from a white screen.
Fade Time	Specify the duration between the beginning and the end of the fade in.

End Effect tab



Fade Out	<p>Check this option to add the fade out effect to the chosen event, and choose the effect.</p> <ul style="list-style-type: none"> • Fade out (to black)..... Adds the fade out ending with a black screen. • Fade out (to white)..... Adds the fade out ending with a white screen.
Fade Time	<p>Specify the duration between the beginning and the end of the fade out.</p>
Action	<p>Specify the action when the event comes to an end.</p> <ul style="list-style-type: none"> • Pause (show black)..... Pauses the playback with a black screen displayed. • Pause (show white)..... Pauses the playback with a white screen displayed. • Pause (last frame) Pauses the playback with the last frame displayed. • Pause (next event) Pauses the playback with the first frame of the next event displayed. • Pause (show E to E)..... Displays the video input to the R1 channel with active through. • Loop..... Playbacks the selected event in loop.

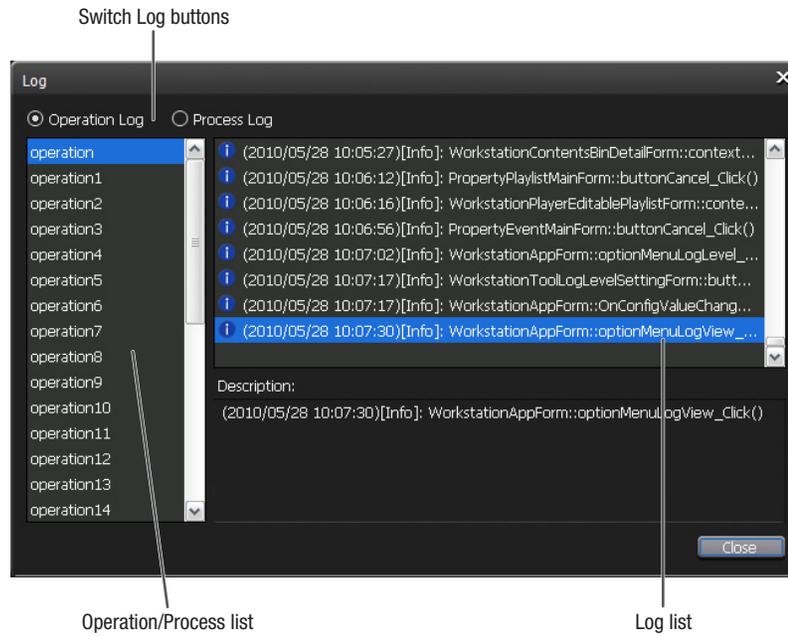
Log Level Setting

Select a log level on this screen.

<p>Operation Log</p>	<p>Choose the type of the operation log.</p> <p>Error Only error logs are output.</p> <p>Warning + Error Warning and error logs are output.</p> <p>Information + Warning + Error Information, warning and error logs are output.</p> <p>All All the logs are output.</p>
<p>Process Log</p>	<p>Choose the type of the process log.</p> <p>Error Only error logs are output.</p> <p>Warning + Error Warning and error logs are output.</p> <p>Information + Warning + Error Information, warning and error logs are output.</p> <p>All All the logs are output.</p>

Log

This screen displays the logs.



Switch Log buttons	Choose the log to display between Operation Log and Process Log .
Operation/Process list	Lists the operations/processes.
Log list	Lists the logs.
Description	Displays the description of the log.

APPENDIX

T2 Hardware specifications

PC interface USB	USB		USB2.0 x2 (front), x6 (rear)
	IEEE1394		IEEE1394a x1 (front), x1 (rear), Up to 12V , 1A of bus power (total for both ports)
	PS/2		Mini DIN 6pin x2
	Display		Analog RGB D-SUB 15pin x1
	Serial		RS232C D-SUB 9pin x1 (Not used)
	LAN		RJ-45 Network connector x2, 10BASE-T/100BASE-TX/1000BASE-T
	Sound		Stereo mini jack x6 (Not used)
Removable media			DVD-ROM x1
			2.5 inched removable drive bay x1 (RAID/SSD model)
Video signal	Input	SDI	1 line, BNC x2 (Active through x1)
		DVI-I	1 line, DVI-I x1. The analog sections are also for YPbPr. (DVI-D does not support HDCP.)
		Composite	1 line, BNC x1
	Output	SDI	2 lines, BNC x2
		DVI-I	2 lines. The analog sections are also for RGB/YPbPr.
		Composite	2 lines, BNC x2
		Monitor	Composite, 2 lines, BNC x2
Audio signal	Input	Balanced audio	1 line, XLR-3-31 x2, Up to 24dBu
		Digital audio	1 line, AES/EBU BNC x1
	Output	Balanced audio	2 lines, XLR-3-32 x4
		Digital audio	1 line, AES/EBU, 2 lines, BNC x2
		Headphones	Stereo jack x1
Monitor line	Stereo mini jack x1		
Timecode	Input	LTC	1 line, BNC x1
	Output	LTC	2 lines, BNC x2
REF in			HD tri-level, BB compatible, BNC x2 (throughout x1)
Remote	GPI I/O		D-SUB 15pin x1, 6 input, 6 output pins.
	RS422		3 lines, D-SUB 9pin x3 (each one of the lines correspond to the R1, P1 or P2 channel)
Power supply			AC 100V - 240V, 50/60Hz
Power consumption			2.5A - 1.1A
Dimensions			430(W) x 132(H) x 550.8(D) (Projecting parts not included)
Weight			15kgf approximately
Operating temperature			+5 to +35 degrees C
Operating humidity			10% to 80% (Without condensation)

Supported resolutions

Profile	Available format for loading	Available video port	Conversion mode for PC		Output to monitor	R1 input, REF input signal for Sync mode
			DVI-D	DVI-A (RGB)		
720×486 59.94i	720×486 59.94i 720×480 59.94i (DVD) 720×480 59.94i (DV)	SDI Component Composite	×	×	NTSC	720×480 59.94i
720×576 50i	720×576 50i (DV) 720×576 50i (DVD)	SDI Component Composite	×	×	PAL	720×576 50i
1920×1080 59.94i	1920×1080 59.94i 1440×1080 59.94i 1280×1080 59.94i	SDI Component DVI-D *1	PC	PC	NTSC	720×480 59.94i, 1920×1080 59.94i
1920×1080 50i	1920×1080 50i 1440×1080 50i	SDI Component DVI-D *2	PC	PC	PAL	720×576 50i, 1920×1080 50i
1920×1080 24psf	1920×1080 24p 1440×1080 24p	SDI Component DVI-D(24p)	PC	PC	×	1920×1080 24psf (REF in only)
1920×1080 23.98psf	1920×1080 23.98p 1440×1080 23.98p 1280×1080 23.98p	SDI Component DVI-D (23.98p)	PC	PC	×	1920×1080 23.98psf (REF in only)
1920×1080 24p	1920×1080 24p 1440×1080 24p	SDI Component DVI-D	PC	PC	×	1920×1080 24p (REF in only)
1920×1080 23.98p	1920×1080 23.98p 1440×1080 23.98p 1280×1080 23.98p	SDI Component DVI-D	PC	PC	×	1920×1080 23.98p (REF in only)
1280×720 59.94p	1280×720 59.94p 960×720 59.94p	SDI Component DVI-D	PC	PC	NTSC	720×480 59.94i *3
1280×720 50p	1280×720 50p 960×720 50p	SDI Component DVI-D	PC	PC	PAL	720×576 50i *3
1280×720 24p	960×720 24p	SDI Component	×	×	×	1280×720 24p (REF in only)
1280×720 23.98p	1280×720 23.98p 960×720 23.98p	SDI Component	×	×	×	1280×720 23.98p (REF in only)

*1 Can be specified to 1920 x 1080p 59.94.

*2 Can be specified to 1920 x 1080p 50.

*3 As the playback of channels is synchronized with paired frames, the sync mode is not available in 3Sync phase

PC Can be specified to VGA, SVGA, XGA, or SXGA.

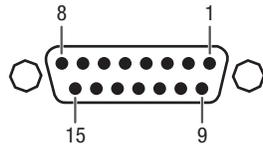
Note 1 Component and DVI-A (RGB) cannot be used simultaneously.

Note 2 DVI-I and DVI-A outputs in PC conversion mode cannot be used for Sync mode.

Note 3 When the aspect ratios of the source and the profile differ, a black bar is added to the top/bottom or left/right sides.

Note 4 The DVI/RGB signal is output with a certain delay from the SDI/YPbPr output.

GPI I/O connector pinouts



Pin	Signal
1	Output 1
2	Output 2
3	Output 3
4	Output 4
5	Output 5
6	Output 6
7	NC
8	Common Ground

Pin	Signal
9	Input 1
10	Input 2
11	Input 3
12	Input 4
13	Input 5
14	Input 6
15	NC
SHELL	Common Ground

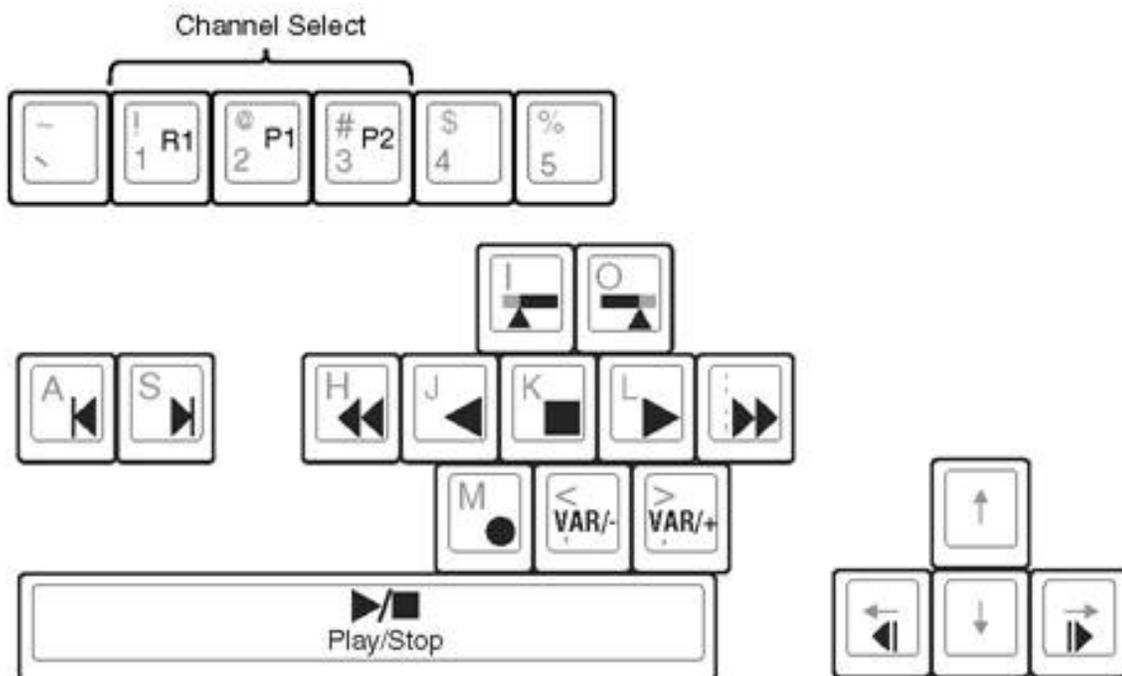
Note T2 iDDR software supports outputs 1-6 and inputs 1-6 only. Pin 7 and Pin 15 are not used.

Keyboard Shortcuts

In the Workstation mode, with a keyboard connected to your T2, the following shortcut keys are available. The keyboard assignment can also be modified.

* This feature is not available in the Front Panel mode

Major shortcut keys



Shortcut key list

Action	Press	Notes
Channel select	1 (R1) 2 (P1) 3 (P2)	
Play	L (Play forward) J (Play backward) (While stopped) Space	
Stop	K (While playing) Space	
Record	M	
Fast Forward	;	Increases speed every time the key is pressed: x2 → 4 → 8 → 16 → 32
Rewind	H	Decreases speed every time the key is pressed: x-2 → -4 → -8 → -16 → -32
VAR/speed increment	Period (.)	Pressing once will activate VAR Play mode. Increases VAR Speed every time the key is pressed.
VAR/speed decrement	Comma (,)	Pressing once will activate VAR Play mode. Decreases VAR Speed every time the key is pressed.
Cue to clip-in	A	Same as 
Cue to clip-out	S	Same as 
Cue to mark-in	Shift+I	Same as 
Cue to mark-out	Shift+O	Same as 
Next frame	→	
Previous frame	←	
Set mark-in	I	
Set mark-out	O	
Clear mark-in/out	Ctrl+I, Ctrl+O	Either operation will clear both IN/OUT points.
Copy	Ctrl+C	
Cut	Ctrl+X	
Paste	Ctrl+V	
Select previous item in list	↑	Available on the Event list for the Playlist and Content list in the Bin.
Select next item in list	↓	Available on the Event list for the Playlist and Content list in the Bin.
Scroll to previous page	Page Up	Available on the Event list for the Playlist and Content list in the Bin.
Scroll to next page	Page Down	Available on the Event list for the Playlist and Content list in the Bin.
Scroll to top of list	Home	Available on the Event list for the Playlist and Content list in the Bin.
Scroll to bottom of list	End	Available on the Event list for the Playlist and Content list in the Bin.
Delete current selection	Delete, Backspace	Available on contents in the Bin
Next event	S	Same as 
Previous event	A	Same as 
Delete selected event	Delete, Backspace	Available on events on the Playlist

Supported File Import Format

format	field	size	frame	R1	P1/P2	Canopus HQ AVI	Quick Time DV	Quick Time DVCPRO HD	Quick Time ProRes	Quick Time H.264	WMV	MPEG2 PS	MPEG2 HDV	
SD	Interlace	720x486	59.94i	○	○	○	-	-	○	○	○	-	-	
		720x480 (DVD**)	59.94i	-	-	○	-	-	○	○	○	○	-	
		720x480 (DV**)	59.94i	-	-	○	○	-	○	○	○	○	-	-
		720x576 (DVD**)	50i	-	-	○	-	-	○	○	○	○	○	-
		720x576 (DV**)	50i	○	○	○	○	-	○	○	○	○	-	-
		1920x1080	59.94i	○	○	○	-	-	○	○	○	○	○	-
		1440x1080	59.94i	○	-	○	-	-	○	○	○	○	-	○
		1280x1080	59.94i	-	-	○	-	○	○	○	○	○	-	-
		1920x1080	50i	○	○	○	-	-	○	○	○	○	○	-
		1440x1080	50i	○	-	○	-	○	○	○	○	○	-	○
HD	Progressive	1280x720	59.94p	○	○	○	-	-	○	○	○	○	○	
		960x720	59.94p	-	-	○	-	○	○	○	○	○	-	-
		1280x720	50p	○	○	○	-	-	○	○	○	○	○	○
		960x720	50p	-	-	○	-	-	○	○	○	○	-	-
		1920x1080	24p	○ (p/PsF)	○ (p/PsF)	○	-	-	○	○	○	○	-	-
		1440x1080	24p	○ (p/PsF)	-	○	-	-	○	○	○	○	-	-
		960x720	24p	-	-	○	-	-	○	○	○	○	-	-
		1920x1080	23.98p	○ (p/PsF)	○ (p/PsF)	○	-	-	○	○	○	○	○	-
		1440x1080	23.98p	○ (p/PsF)	-	○	-	-	○	○	○	○	-	○
		1280x1080	23.98p	-	-	○	-	-	○	○	○	○	-	-
		1280x720	23.98p	-	○	○	-	-	○	○	○	○	○	○
		960x720	23.98p	-	-	○	-	○	○	○	○	○	-	-
1280x720	24p			○	-	-	○	○	○	○	-	-		

** In this list, "(DVD)" means "top field first", while "(DV)" means "bottom field first."

