Stargate Operator Manual

Revision 1.8

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Introduction

About

This Operator Manual describes the use of the Transvideo Stargate family.

The Stargate is our latest contribution to Digital Cinematography, including advanced user tools for HD.

The Stargate family includes the following product:
Stargate 7” FullHD Monitor P/N 917TS0126

Physical, electrical and optical, and user interface characteristics of this product differ from previous product ranges.

This manual describes Stargate with Build 3.08 (and up)

The product described in this manual is professional equipment.
Optimum utilization of this product implies knowledge of basics in video signal management, HDTV & film making concepts.

Warning & Caution

WARNING:
There is very high voltage inside of the component. Risk of injury or death. Do not open unless by a trained electrical engineer.

WARNING:
This product must be used in a correct grounded electrical environment; ground defects can create severe problems to the equipment, the picture quality and even cause danger for the user.

WARNING:
It is always recommended to remove the power source from the monitor when not being used and/or when travelling. Especially if you place the monitor in a closed environment (bag, box, …).

WARNING:
Copyright law and international treaties protect this product, its design and its software. One or several international patents apply to the Stargate.
Unauthorized reproduction or distribution of this product or its design or its software or any portion of them, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.

CAUTION:
Warranty is void if the product is opened. The unit contains electrostatic sensitive devices, which can be damaged or destroyed if touched. Very high voltage is present in the product and there is some risk of electric shock if opened by a non-accredited technician. Standard ESD procedures must be strictly followed during disassembly/re-assembly of the unit.
The user and/or technician assume full responsibility or any risk of bodily injury, death or property damage arising out of the use or disassembly or repair of this equipment. In no event shall Transvideo S.A. or its local representatives be liable to a user, technician or third party for any loss of income or any damage of any kind resulting from the use of or work on the said equipment.

First Steps

Unpacking

Packing list

Check the contents of the package according to the packing list.

2 years warranty (+ 1)

All Stargate monitors are covered by 2 years limited warranty unless otherwise noted.
Get a **3rd year for free** by registering your product online within the first month of the purchase.
http://www.transvideo.eu/register-my-product (authentication required).

General safety instructions

IMPORTANT:
Never seal the monitor inside a plastic bag or use the monitor in full sun with a Rain Cover.

Before using the monitor make sure that the product is not damaged, that the protective glass is not broken, the connectors do not have missing pins and there is no foreign objects inside the housing.

The Stargate needs to be in a ventilated area for a proper cooling. Prolonged use in confined environment without ventilation can damage the monitor.

Cables

The cables must be in good condition and adapted to the environment where you are working. An inferior quality or incorrectly-wired cable or **damaged connectors** may damage this equipment or other equipment attached to it and/or create interferences.

The video cable must be adapted for carrying HD SDI signals. Proper 75 Ω connectors must be used. Always check the connector before plugging a cable to your monitor.

Transvideo offers high quality cables for cameras, power supplies and other equipment. Contact Transvideo S.A. or its local representative in case of need.

Installation

The Stargate must be securely mounted on to the camera or its location of use. Several mounting points with ¼-20" screw holes are present on this equipment for a secured professional mounting.

Do not use the monitor with loose or damaged mounting options for your own safety and that of others working with you.

Transvideo manufactures high quality brackets and accessories for the comfort of use and security for the equipment and user. Please contact Transvideo S.A. or its local representative in case of need or visit http://www.transvideo.eu

Power Requirements

Stargate accepts an input voltage range from **10 to 29V DC** through the XLR 4-pin male connector protected against inversion of polarity.
AC voltage can be used with an appropriate AC/DC converter. Recommended AC power adaptor is the 30Watt Transvideo AL30 (P/N 918TS0195) available from your reseller and wwwtransvideo.eu.
V-Mount and Gold Mount batteries can be used when a battery back is connected to the monitor through the XLR 4-pins connector.

Power instructions

The power consumption slightly varies with the input voltage, the operating temperature and the equipment configuration. The internal power supply is protected against reverse polarity. Voltage over the recommended range may cause severe damage to the equipment and/or to other equipment connected to it.
This product must be used in a properly grounded electrical environment. Ground defects can create severe problems to the equipment and/or picture quality and may even cause danger for the user.

Power Switching

The ON/OFF Switch is on the right-hand side of the monitor.
The product needs some time to reach its nominal brightness.
This time can vary with the temperature.

Anton-Bauer batteries / FuelReader™

Transvideo Labs engineers integrated communication between the fuel computer of Logic Series Digital batteries from Anton-Bauer® and the Stargate. The FuelReader™ gives the remaining available percentage of battery and the time to run. You will need to use the battery plate from Transvideo (P/N 918TS0202-AB) to enjoy the benefits of the FuelReader™.

Start-up

1. Connect an appropriate power supply or battery support to the XLR4 connector.
2. Connect a video source (SDI) to the corresponding input
3. Set the power switch to ON
4. Select the correct input with "Inputs" key

Product overview

Parts identification

Figure 1 Stargate V2 Back

1. Part number, Serial number
2. Transvideo mounting system *
3. Tally Viewer
4. QR-Code
5. 3G/HD SDI Input
6. 3G/HD/SD SDI processed output
7. DC Input, XLR4-pins male, 10 to 29V
8. 1/4-20 thread to attach the monitor from the base
9. Key lock
10. Protective vent
11. Lemo 8-pin ** or Lemo 10-pin ***
12. ON/OFF switch
13. USB
14. AUDIO monitoring output – jack 3.5
15. SD Card slot

*To attach the monitor with a 3D Swing Arm or to mount a battery adapter
** Lemo 8 Pinout

Lemo 8-pins

1. GND	5. RS485 RX-
2. RS485 TX+	6. Rs nPres
3. RS485 TX- / RS232 TX	7. GPIO1 in
4. RS485 RX+ / RS232 RX	8. GPIO2 in

Figure 2 Lemo 8 Pinout

*** Lemo 10 Pinout

Lemo 10-pins

1. GND	6. Rs nPres
2. RS485 TX+	7. GPIO1 in
3. RS485 TX- / RS232 TX	8. GPIO2 in
4. RS485 RX+ / RS232 RX	9. GND
5. RS485 RX-	10. 10 +36V out

Figure 3 Lemo 10 Pinout

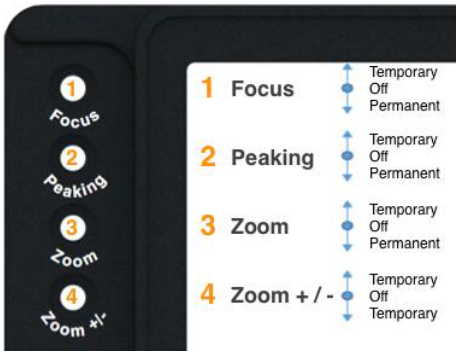
User interface

Figure 4 Stargate Front

1. Focus
2. Peaking
3. Zoom
4. Zoom + / Zoom -
5. Tally LED
6. Snapshot
7. Rewind / Forward
8. Gallery
9. Record
10. Views
11. Markers
12. Luts (3D)
13. Users
14. Adjust
15. Technical
16. Inputs
17. Return

J. Joystick

Keys with temporary position



Temporary
Temporarily activates the concerned function with adjustable timer.

Middle position
Off.

Permanent
Activates permanently the concerned function, displays appropriate settings nearby the joystick (5s).

Figure 5 Temporary Buttons

Direct functions

Most of the functions are directly accessible from the keypad.
Keys illuminate when the function is activated.

Joystick

When a menu is activated, the joystick (J) allows to adjust parameters or move into the menus tabs (up/down, left/right) and to validate (short/long push).

Views

Patent pending

"Views" is our job-orientated concept. We have introduced a view for each specific job (Full Screen, DIT, Body-Rig, Operator,LensReader).

Each View displays the video together with its specific tool package.
Certain View may give access to a specific contextual menu to adjust some parameters, through a long push on the *Return* button.

Go to the Views section for a specific description.

Functionalities

Views

Views button is the first one starting at top-right. A short push changes the views according to the settable list.
A long push on the *Views* button gives access to the activated views list.

Full Screen

The Full Screen View shows only the picture from the first to the last line of pixels.

DIT

The DIT View features measurements and tools that are displayed outside of the picture.

i. Waveform luminance

Displays a graphical representation of luminance (Y component). The waveform has the same width than the picture, making the picture analysis more accurate and easy.

ii. Vectorscope

Displays a representation of the color vectors

iii. Histogram luminance

Displays a statistical representation of luminance (Y component) as a graph.

iv. Audio monitoring

Displays the SDI embedded audio presence for all channels. Vu-meter and Peak-meter display one audio pair out of the 8 possible. Audio pair selection can be found in the technical adjustments.

v. Video input

Shows the current input selected on the monitor.

vi. Video standard

Shows the current video standard detected by the monitor.

vii. Timecode

Displays the SDI embedded timecode (ATC).

viii. Battery / power information

Displays the input voltage from the power supply or the battery. With Anton Bauer® batteries, gives the remaining percentage of charge of the battery and the time to run (See Anton-Bauer batteries / FuelReader™section)

Body-Rig

The Body-Rig view displays VirtualHorizon, mostly used by Camera Stabilizing devices, called AvengerLeveler™.
In this view, a long push on the *Return* button opens the setting menu for the VirtualHorizon.

Settings

i. Range

The range corresponds to the max tilt on each side that the bubble will show. The range is represented in ±Degrees and can be changed in the Horizon Menu.
Changing the range will change the steps of the bubble inside its groove bar.

ii. Limits

Limits are the definable points where the bubble's color will change. Those points are represented in Degrees and can be changed in the Horizon Menu.
Limits 1: Orange Color
Limits 2: Red Color

iii. Calibration

Horizon can be calibrated from the Horizon Menu (To start the Horizon Menu, long push on the *Return* Button) or with a push on the joystick (only in *Body-Rig View)*.
When calibrating the horizon, an animated red bar will reduce within 3 secs, letting the user adjusting the monitor tilt. Once countdown is complete, the current angle will correspond to the new '0' point.

iv. Battery / power information

Displays the input voltage from the power supply or the battery. With Anton Bauer® batteries, gives the remaining percentage of charge of the battery and the time to run (See Anton-Bauer batteries / FuelReader™section)

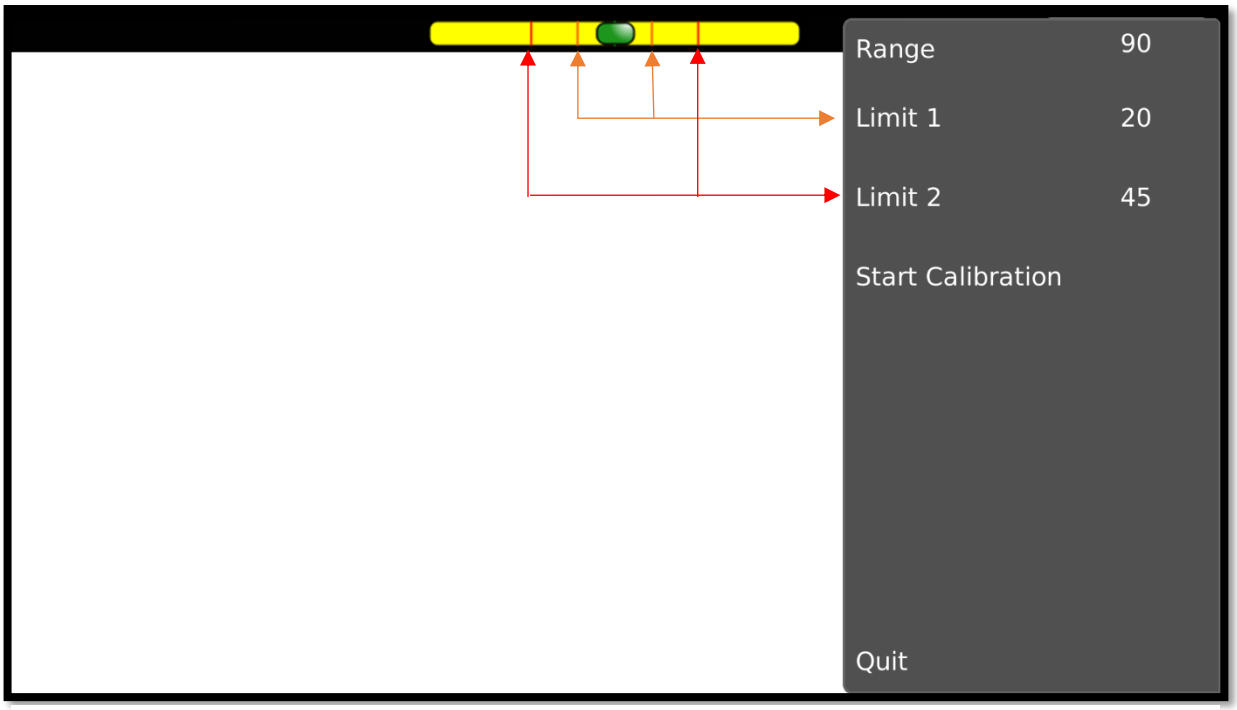


Figure 6 Horizon Menu

Operator

The operator view shows a top bar with information as described below.

i. Timecode

Displays the SDI embedded timecode (ATC).

ii. Battery / power information

Displays the input voltage from the power supply or the battery. With Anton Bauer® batteries, gives the remaining percentage of charge of the battery and the time to run (See Anton-Bauer batteries / FuelReader™section)

iii. Video standard

Shows the current video standard detected by the monitor.

iv. Video input

Shows the current video input selected on the monitor.

Lens Reader

This view reproduces, when available, the optics rings.
It works either with the SDI Metadata[1] or using the Accessories connector and a compatible optic[2].

It also displays information available in the SDI Metadata such as user information, lights information or shutter information.

[1] Compatibles systems use RDD18(Sony) or LDS(ARRI) protocol to transmit metadata through the SDI signals.
[2] Compatibles optics use the /i protocol

Markers

Function

This function is used to apply markers or a user definable Safe Area on the picture.
Markers are displayed in Zoom mode only when image is centered.

Usage

Markers button is the second one starting at top-right.
Short push on this button will switch ON / OFF all the selected markers. This is the quick access.
Long push opens the menu, in which you can select each marker one by one using the right-handed buttons.

Markers Menu

Push the corresponding button to activate or deactivate the corresponding marker.
All selected markers in this list will be switch On or Off when the user will use the quick access.

Figure 7 Markers Menu

Markers List

1. Cross (Central Cross)
2. 4:3
3. 14/9
4. Safe Area
5. 1.85:1
6. 2.40:1
7. 16/9
8. Matting - (coming soon)

3D LUT

Function

This function allows user to load external 3D LUTs (Look Up Tables). It can be used to modify the look of the video and match with the artistic effect required, or it can be used to load specific camera manufacturers' gamma correction when supplied in 3D LUT Format.

Usage

Luts button is the third one starting at top-right.
A short push will switch ON / OFF the application of the Selected LUT (A / B / C / D), if one is selected. This is the quick access.
A long push opens the LUT menu.

Users can load 3D LUT from the SD card into the internal memory, then allocate the LUT files to "banks" via the LUT Browser. There are 4 banks, which allows user to switch quickly between LUT from the LUT menu.

LUT Files Format

3D LUTs files on the SD Card can be read if they used the ***cube / 3dl / look / m3d / lut / mga*** files format.
3D LUTs files format and size loaded in the internal memory are normalized.

- Format is ***cube***.
- Size is ***17 (17*17*17)***.
- File name should not have space, otherwise the file will be renamed, replacing " " with "_" before the copy

However, an automatic conversion will be performed, if possible, to match the requirement of the internal memory.
Files in ***3dl / look / m3d / lut / mga*** format will be converted in ***cube*** format.
Cube files with a size different of ***17*** will be converted to the needed size.

Warning:
It is preferable to use the correct file format as every conversion could alter the 3D LUT.
Not all conversions have been tested. If you find specific case where the conversion does not work, contact support@transvideo.eu with the specific file.

LUT Menu

There are 4 selectable LUTs (A / B / C / D) which correspond to the 4 banks allocable from the browser, and a Browser Launcher. Use the right-hand buttons to select a LUT or to start the LUT Browser.
LUT banks can be selected only if a LUT is affected, otherwise the text is shaded.
Process Out function allows of applied LUT to the process output.

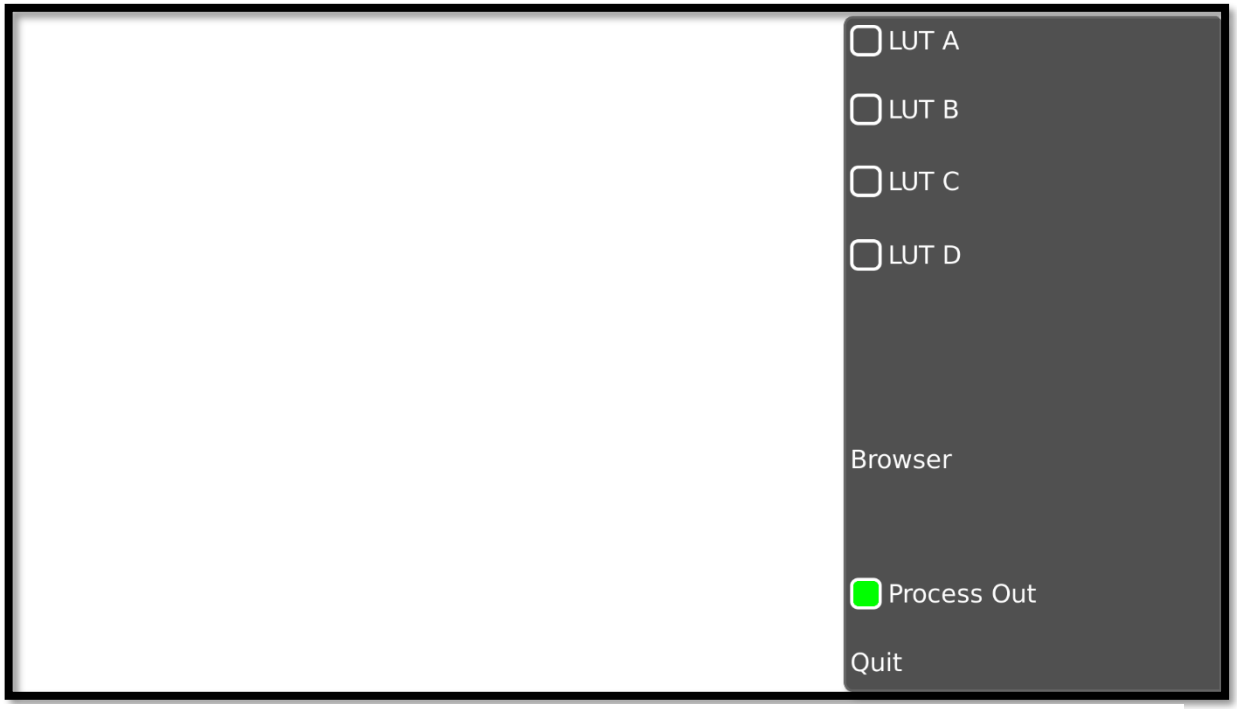


Figure 8 Luts Menu

Browser

Usage

This easy to use interface uses the joystick to navigate the menus and perform actions.
Moving the joystick Left/Right will change the active Table (the currently active table is represented with a green background on the title)
Moving the joystick Up/Down will change the current file or bank into the active table.
Pushing the joystick select the current file or bank.
Once a file is selected, the user can copy, allocate or delete the file by moving through tables and selecting the destination by pushing the joystick or selecting the delete action. Copying or allocating a file to a bank can also be achieved using the button above the joystick. Unselecting the file could be done by reselecting the same file or from every table by using the button under the joystick.
Finally, the *return* button is used to return to the LUT Menu.

Copying Case

1. Selected file is on “Media” and destination is “Memory”.
2. Selected file is on “Media” and destination is in a different folder.
3. Selected file is on “Memory” and destination is “Media”.

Allocating Case

1. Selected file is on “Media” and destination is “LUT Banks”.
2. Selected file is on “Memory” and destination is “LUT Banks”.

Deleting Case

1. Selected file is on “Media” and delete is selected.
2. Selected file is on “LUT Banks” and delete is selected.
3. Selected file is on “Memory” and delete is selected

Unselect

Unselect currently selected file / bank by selecting the same file or using the dedicated button, under the joystick.

Tables

LUT Banks. This table shows the already affected LUT to the corresponding bank. User is limited to 4 banks.
Memory. This is the Internal Memory where LUTs are stored. User can have more than 4 LUTs installed.
Every LUT that is affected to a bank is necessarily copied into the Internal Memory. The user can then remove the SD card from the monitor and still apply the LUT. Applying a LUT directly from the SD card will automatically copy it.
Media. This shows the SD card file system. LUT can be puts anywhere on the SD card (root or folders).

Green background displays available actions.
Green background for Tables show the current selected table.

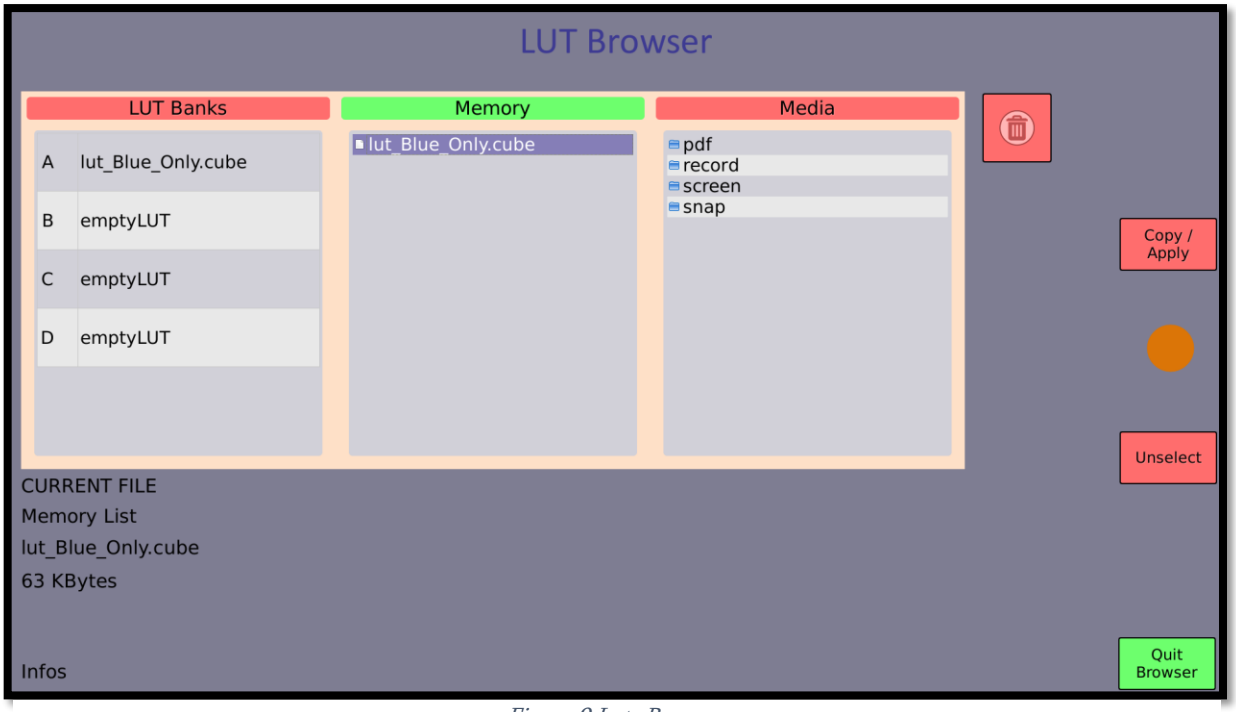


Figure 9 Luts Browser

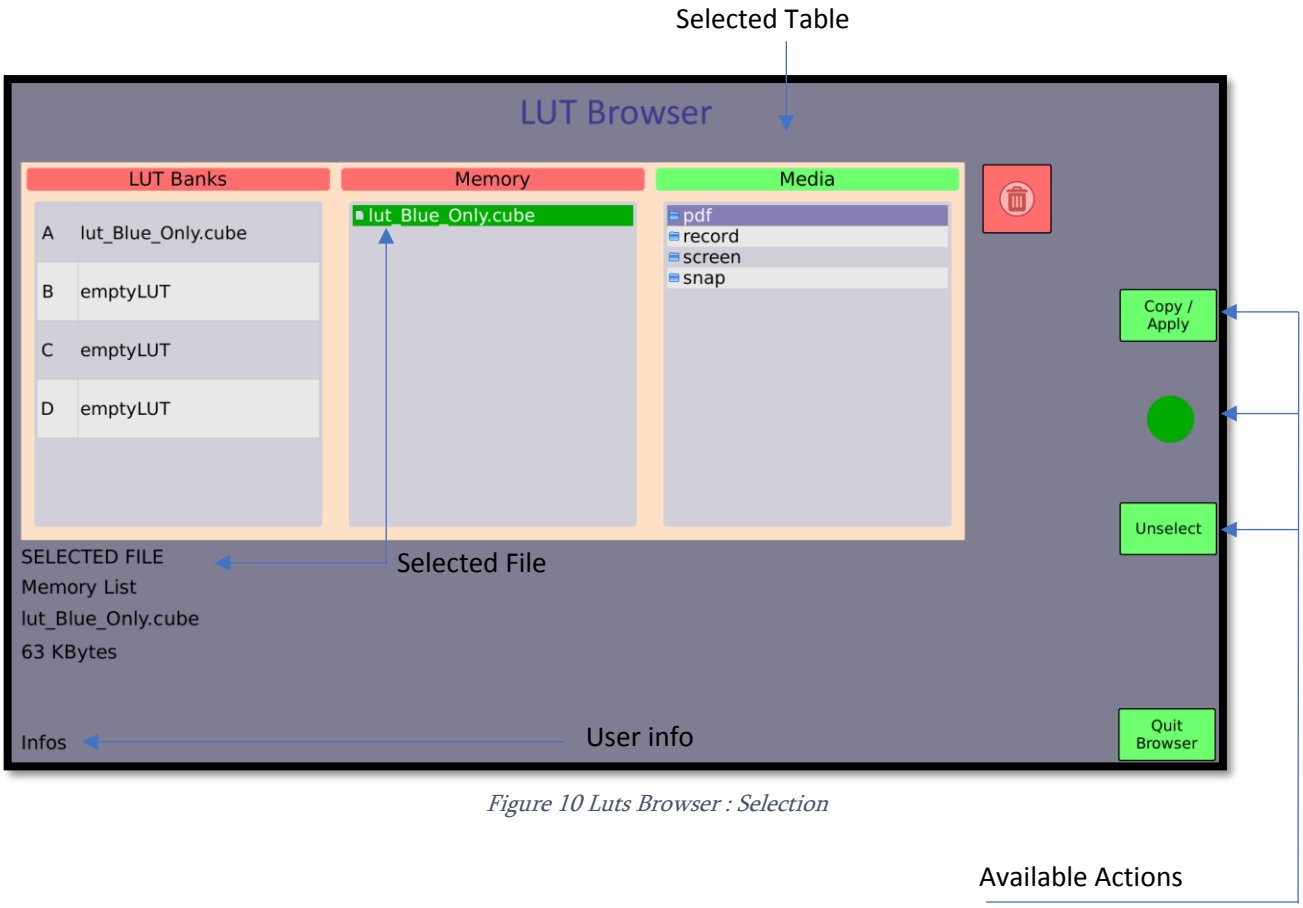


Figure 10 Luts Browser : Selection

User Selection

Function

Menu for quick access to functionalities. All of these functions are accessible by its original menu, and activation/deactivation from this menu will be reflected in the original menu. The original menu can still be used to control the function.

Usage

Users button is the fourth one starting at top-right.
Short push switches the selected functionality ON/OFF. This is the quick access.
Long push for the menu. Select the functionality to use with the quick access.

User Menu

Figure 11 User Menu

Adjust

Function

This menu is used to adjust different particularities of the displayed image. It allows to adjust the most common settings of an image such as brightness, contrast and saturation. Users can also apply False colors to the image, flip the image, display or output a SMPTE Mire, apply Gamma Profiles and so on.

Usage

Adjust button is the forth one starting at bottom-right, or the first one under the joystick.
Short push opens the menu.
Moving the joystick to the left or right will change the current tab.
To select and/or adjust an option, use the corresponding button on the right-handed side of the monitor, then use the joystick to adjust the value where necessary.

Adjust Menu

Color Tab

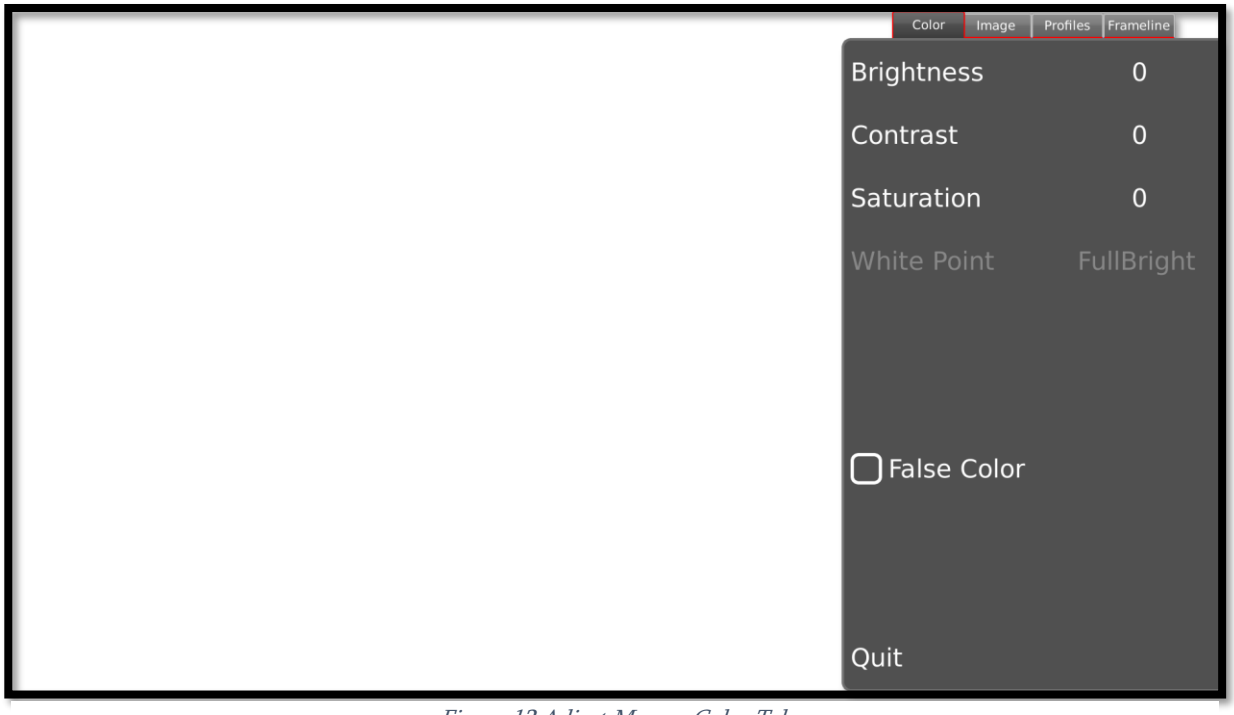


Figure 12 Adjust Menu - Color Tab

i. Brightness

Changes the brightness of the image.

ii. Contrast

Changes the contrast of the image.

iii. Saturation

Changes the saturation of the image.

iv. White Point

White point calibration – N/A yet

v. [illegible]

Apply false color on the image. The legend is displayed at the left of the image.

Image Tab

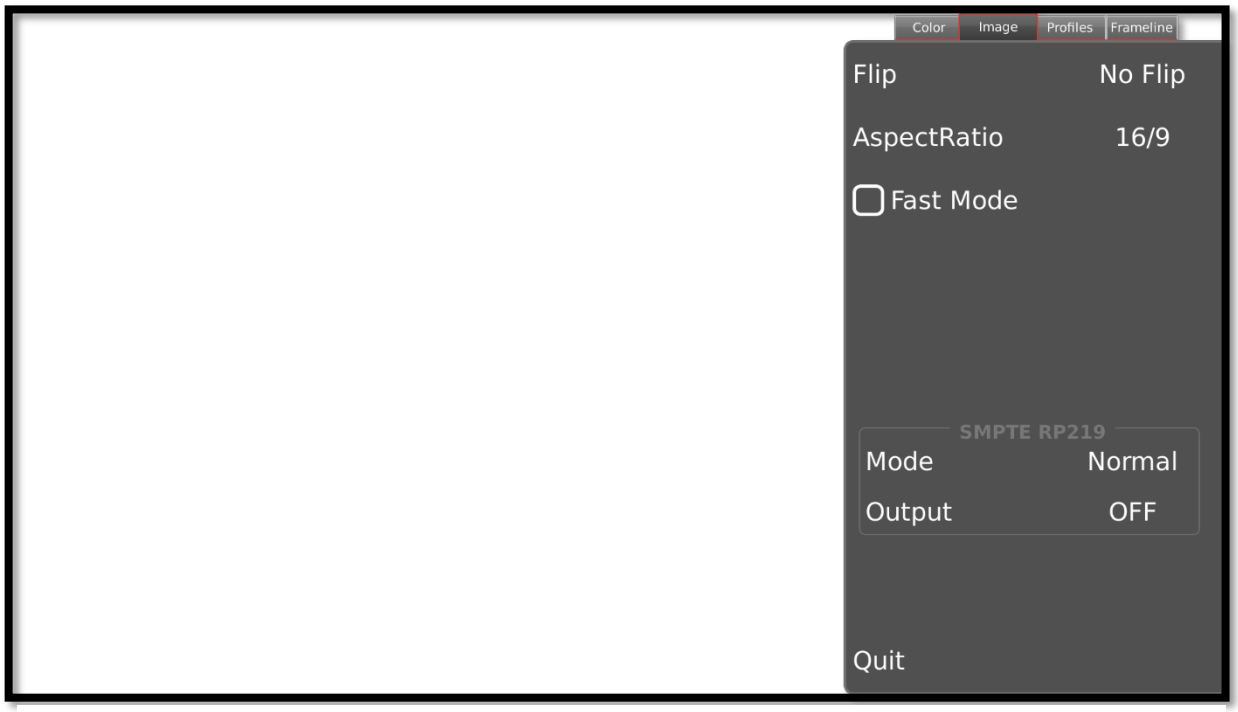


Figure 13 Adjust Menu - Image tab

i. Flip

1. No Flip
2. Horizontal Flip (H Flip)
3. Vertical Flip (V Flip)
4. Horizontal and Vertical Flip (HV Flip)
5. On Body-Rig view: Automatic Flip (Auto)

ii. Aspect Ratio

1. 4/3
2. 16/9
3. Desqueeze 1.3x
4. Desqueeze 1.5x
5. Desqueeze 1.8x
6. Desqueeze 2x

iii. Fast Mode

Fast Mode is used to remove maximum of treatment and offer a delay between video input and display less than 1 frames.

iv. SMPTE RP219: Mode

SMPTE RP219 specification defines two modes.

1. Normal
2. Extended

v. SMPTE RP219: Output

Select the output to display the SMPTE RP219 Mire.

1. OFF
2. Monitor
3. SDI Out

Profile Tab

Profiles are used to reverse the gamma correction applied to the image by the camera.
Applying a profile that is not applied at the camera level will result in bad colorimetry.

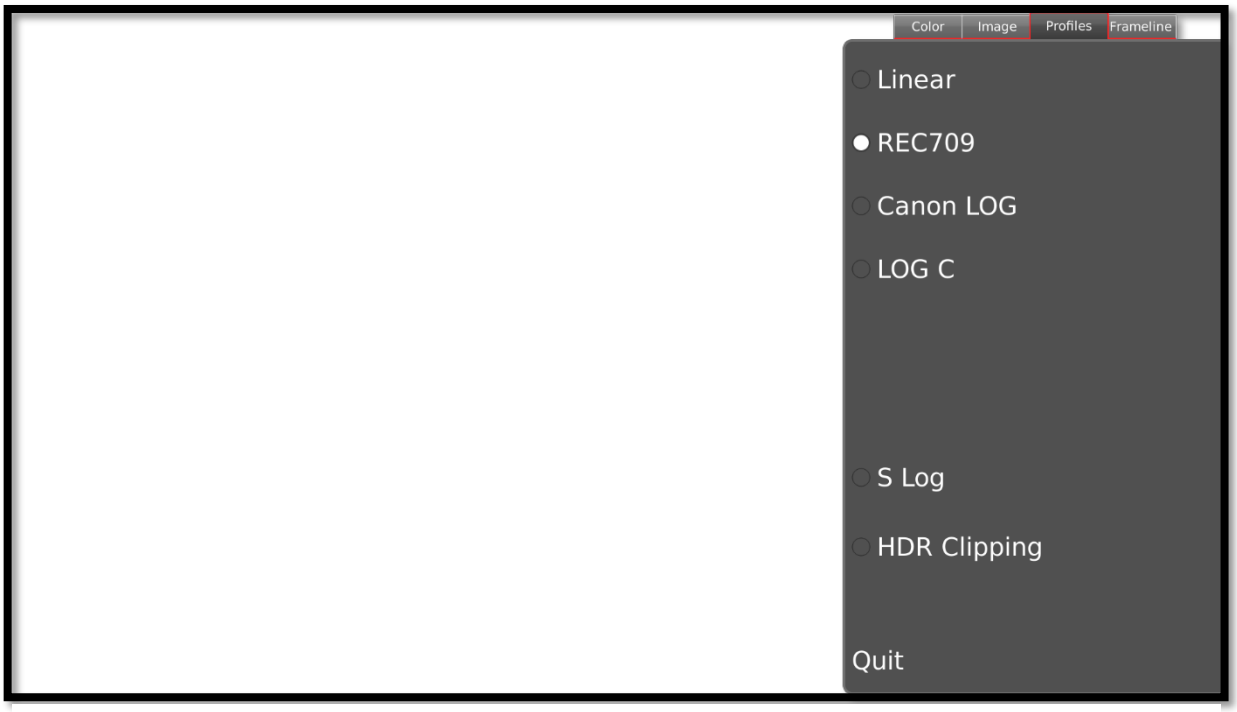


Figure 14 Adjust Menu - Profiles tab

i. Profiles List

1. Linear
2. REC 709
3. Canon Log
4. LOG C
5. S LOG (1 / 2 / 3)
6. HDR Clipping [1;12]

ii. HDR Clipping

HDR Clipping is based on the Hybrid-Log Gamma (HLG) and presents the scene with different clipping values.
It is important to remember that the HDR curves present in this monitor do not show the final picture as would a dedicated HDR screen and will compress dark areas.
The aim of those HDR profiles is to determine whether HDR might be used for a specific scene and to help to understand what is the content in the highlights.

iii. Adjusting HDR Clipping

At the value of 1x will show the scene with a 100% REC709 range, all values above will be considered as whites and will be clipped.
Changing the Clipping value, from 1x to 12x (1200%), allows the user to see all the information he could get when using an HDR profile on the camera.
12x (1200%), shows the full range covered by the camera sensor when a HDR profile is applied.
High exposure areas become visible and provides additional details while darker areas are compressed.

Frameline Tab

Figure 15 Adjust Menu - Frameline tab

i. Selection

1. Frameline 1
    a. Off
    b. On
    c. On + (Cross)
2. Frameline 2
    a. Off
    b. On
    c. On + (Cross)
3. Frameline 3
    a. Off
    b. On
    c. On + (Cross)

ii. Dot / Color

Selection of the type of lines and the color of this one.

iii. Position

1. Horizontal position
2. Vertical position

iv. size

1. Height (Vertical size)
2. Width (Horizontal size)

v. Send to center

vi. Background

Selection of the Background color.

vii. Frames in zoom

Activate frameline when applies a zoom.

Technical

Function

Settings for general functionality, such as Locking the monitor, changing the dimmer, managing the medias, display the software information, resetting values and more.

Usage

Technical button is the third one starting at bottom-right, or the second one under the joystick.
A short push opens the menu.
Moving the joystick to the left or right will change the current tab.
To select and/or adjust an option, use the corresponding button on the right-handed side of the monitor, then use the joystick to adjust the value if necessary.

Technical Menu

Global Tab

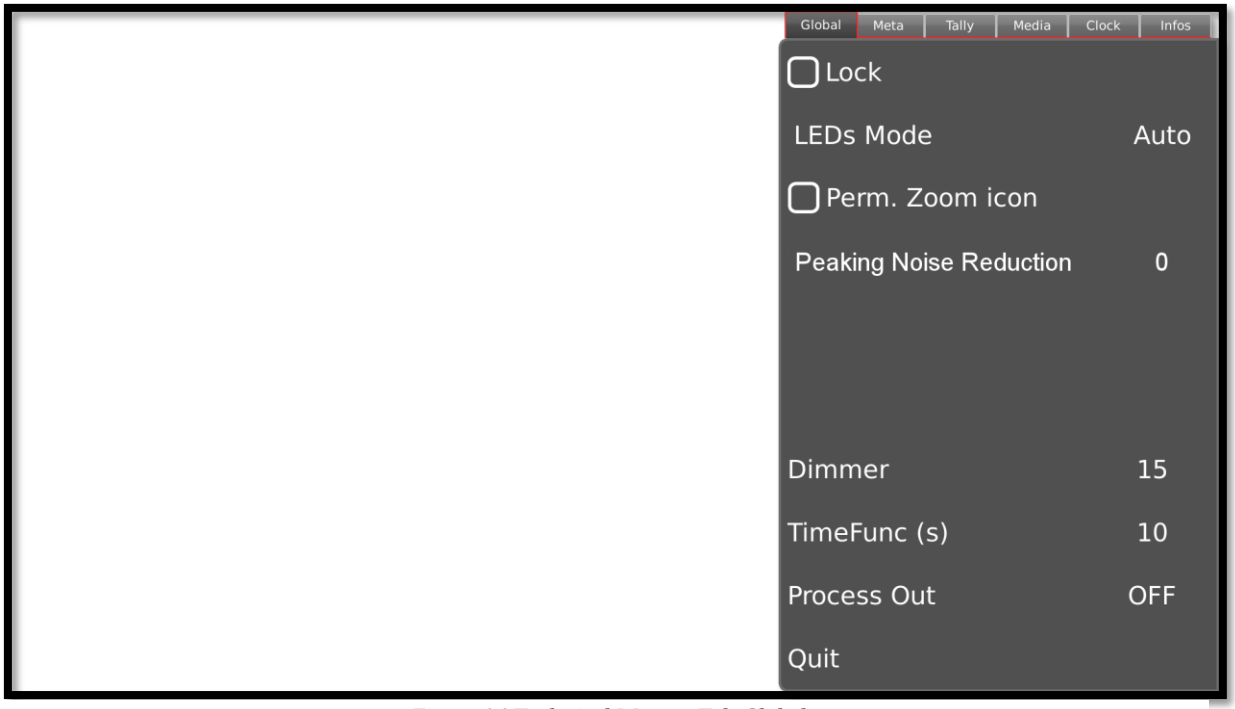


Figure 16 Technical Menu - Tab Global

i. Lock

Lock the monitor. Unlock it within the 5 seconds after locking it (whilst the menu is still open) or press the joystick knob 5 times in a row to release.

ii. LEDs Mode

1. Auto: Light up a LED when the corresponding function is activated
2. OFF: All LEDs are OFF whatever the situation.
3. ON: All LEDs are ON whatever the situation.

iii. Perm. Zoom Icon

Option to have the zoom icon always displayed when zoom is activated.

iv. Peaking Noise Reduction

Noise reduction setting for peaking.

1. 0 : Noise reduction disable
2. 1 : Noise reduction level 1
3. 2 : Noise reduction level 2

v. Dimmer

Dimmer setting for the monitor. Changes the brightness of the display panel.

vi. TimeFunc

Select timing for Focus Helper / Peaking / Zoom to be activated when using Temporary Keys . Setting time to 0 turn off the temporary functionality.

vii. [illegible]

Process out selection. Changes the video output on the SDI Process Out connector.

1. OFF: Nothing on the process out. Reduces power consumption
2. SDI : Reclock the SDI Input (SDI 1 input & SDI 2 input)
3. DISPLAY: Output the video from the monitor display (Menus, LUT, Profiles, Tools)

Meta Tab

Figure 17 Technical Menu - Meta tab

i. AutoRec

Auto Rec function starts internal recording when camera starts recording. It uses the embedded tally in the SDI signal. Manual recording still works. There is no priority. The first "starts recording" signal received (button or embedded flag) will start the record and the first "stop recording" signal received (button or embedded flag) will stop the record.

ii. Focus Unit

1. Default
2. Metric
3. Imperial

iii. Iris Display

1. Decimal
2. Thirds

Tally Tab

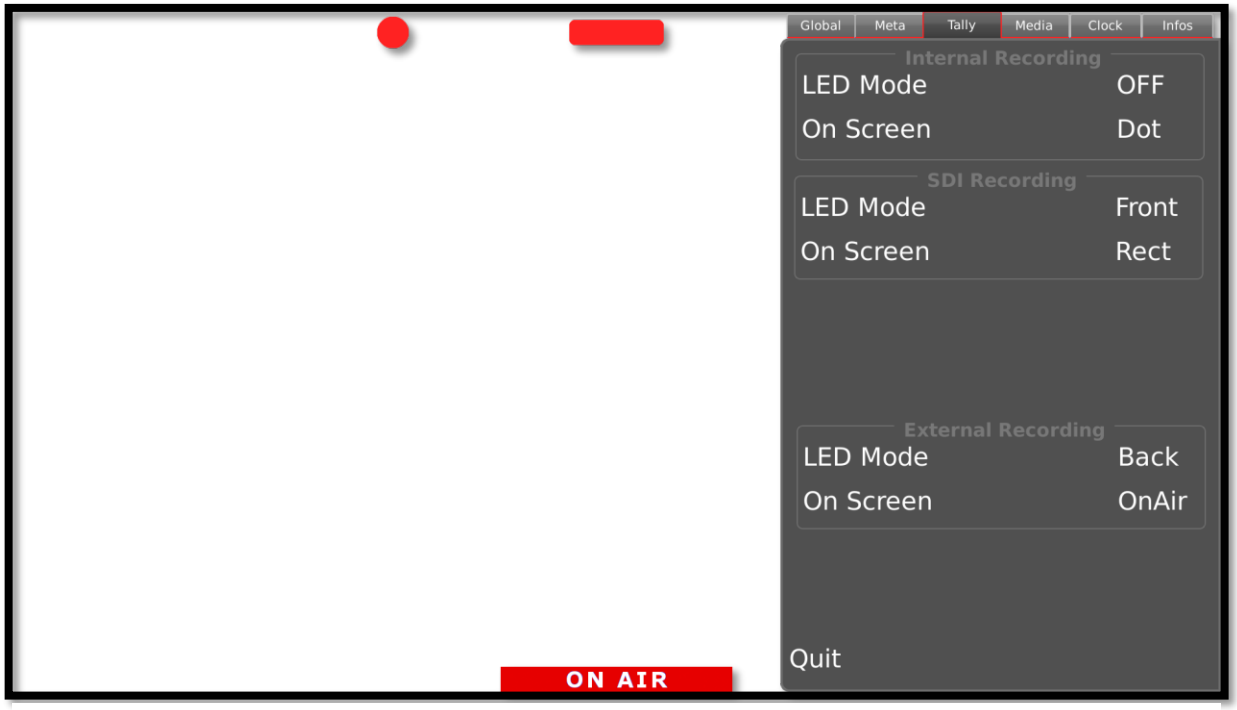


Figure 18 Technical Menu - Tally Tab

There are 3 groups of setting for the Tally:

1. **Internal Recording**, to set up a tally information for the internal record function.
2. **SDI Recording**, to set up a tally information based on the tally flag embedded in the SDI signal.
3. **External Recording**, to set up a tally information from the external connector (cf Figure 2 Lemo 8 Pinout), on GPI1 and GPI2.

Tally can be shown with an on-screen drawing as well as on the front LED (cf Tally LED).

On Screen is the shape of the Tally with different drawing on screen. Each group can use different drawing as in the Figure 18 Technical Menu - Tally Tab above as well as the same shape.

Using external connector allow three color tally: Red / Green / Orange (Red+Green). In this configuration, both the LED and the OnScreen shape use the three colors.[3]

GPI1 Low: Red Tally
GPI2 Low: Green Tally
GPI1+GPI2 Low: Orange Tally
GND: Ground connection

Check pinout on Figure 2 Lemo 8 Pinout

[3] In case of conflict between external tally and internal or embedded tally, the color used is Blue. (i.e Green on external and tally on SDI will lead to a blue LED and/or OnScreen tally)

i. LED Mode

1. OFF: The front LED does not represent tally for the corresponding group.
2. Front: The front LED is used to represent tally for the corresponding group.
3. Back: The back LED is used to represent tally for the corresponding group.
4. Both: The front LED and the back LED is used to represent tally for the corresponding group.

ii. On Screen

1. OFF: No draw for this group
2. DOT: Small dot at top of screen
3. Rect: Rectangle at top of the screen (moves depending on the view)
4. OnAir: OnAir rectangle at the bottom of the image. (moves depending on the view)
5. Frame: Frameline 3 rectangle on of screen

Media Tab

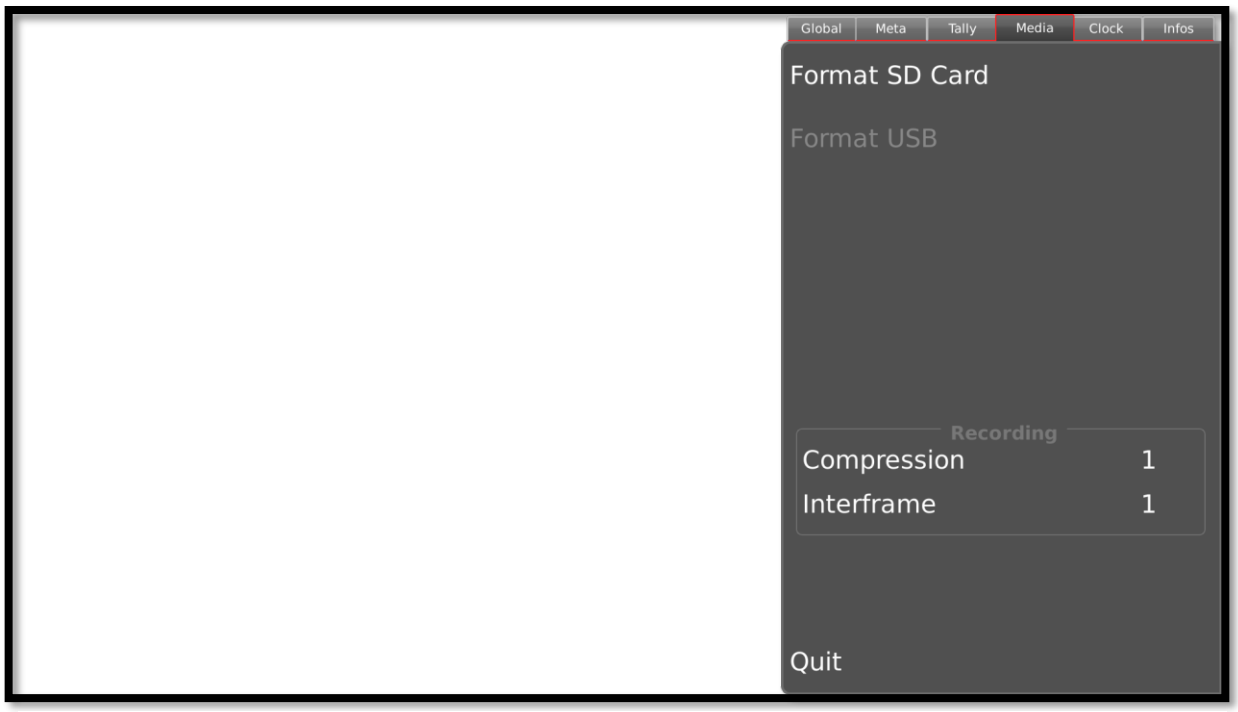


Figure 19 Technical Menu - Tab Media

i. Format SD Card

Format the SD card and recreate the file system. The LED of the button is ON while formatting. This will wipe the content of the installed SD card.

Format USB

iii. Recording Compression

Changes the compression rate of the records. Highest value means high compression. Refer to the Recording Section for more info.

iv. Recording Interframe (Video Compression Frame)

Changes the Interframe rate of the records. Highest value means more interframe. Refer to the Recording Section for more info.

Clock Tab

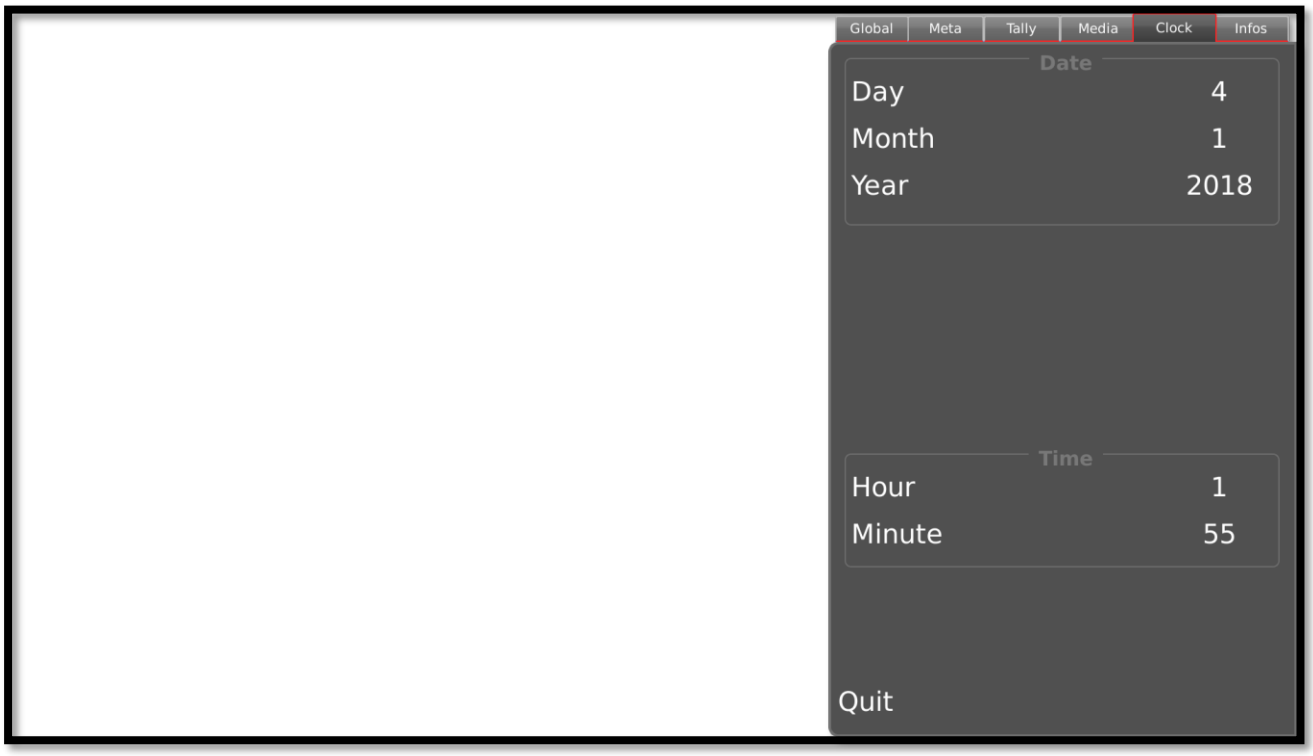


Figure 20 Technical Menu - Tab Clock

Setting clock of the system.

Info Tab

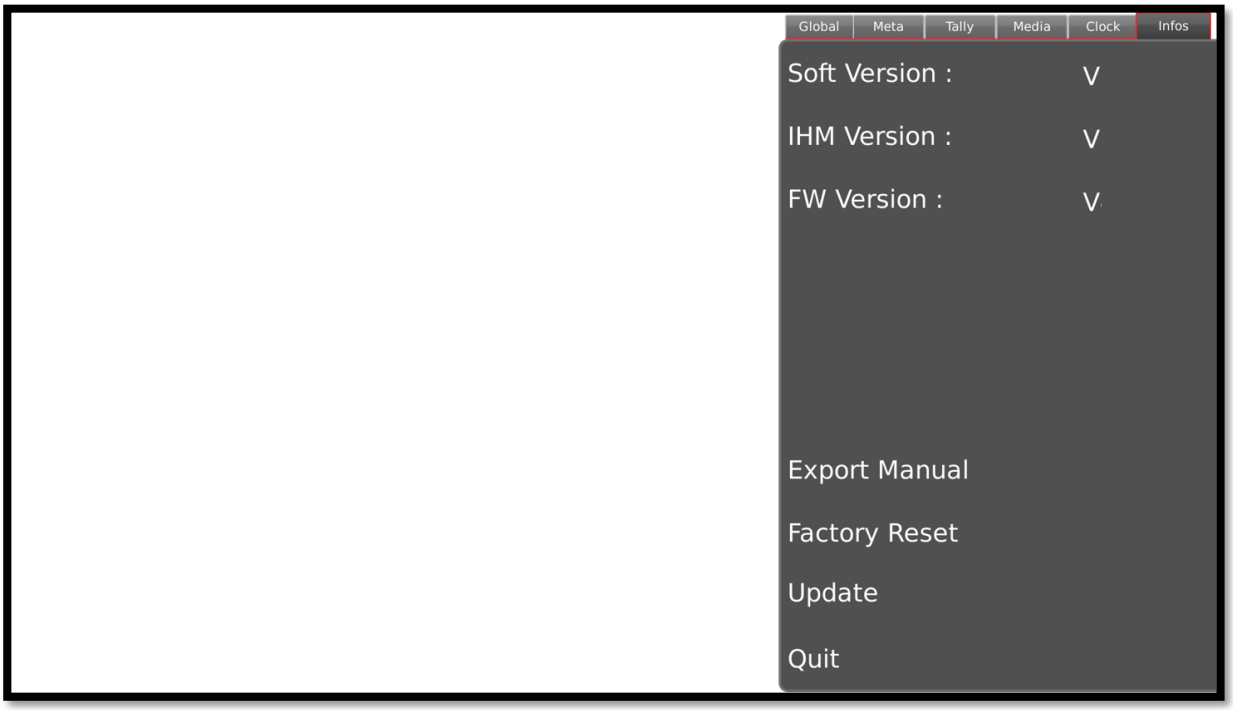


Figure 21 Technical Menu - Tab Infos

i. Soft Version

ii. IHM Version

iii. FW Version

iv. Export Manual

Export the manual onto the SD card in PDF file format.

v. Factory Reset

Reset all settings to default.

vi. Update

Update the monitor.

Inputs

Inputs button is the second one starting at bottom-right, third one under the joystick.
Short push on ***Inputs*** toggles between video inputs.

SDI 1

SDI 2

Supported standards

3G SDI (SMPTE 424M)	1920x1080p @ 50, 59.94, 60 Hz	(SMPTE 425M Level B)
HD SDI (SMPTE 292M)	1280x720p @ 24, 25, 29.97, 30 Hz 1280x720p @ 50, 59.94, 60 Hz 1920x1080i @ 50, 59.94, 60 Hz 1920x1080psf @ 23.98, 24, 25, 29.97, 30 Hz 1920x1080p @ 23.97, 24, 25, 29.94, 30 Hz	(SMPTE 296M) (SMPTE 274M) (SMPTE 274M) (SMPTE 274M)

Focus Helper

Focus Helper button is the first one starting at top-left.
This function displays in-focus zone with user definable colors & densities, making manual focusing easier.

When activating the focus helper, the settings are displayed on the right side of the screen. Select the desired emphasis color (left & right) and level (up &down) with the joystick. After 5s of inactivity, the setting disappears.

Peaking

Peaking button is the second one starting at top-left.
Focus peaking detects the edges of highest contrast in your scene (and therefore most in focus) and highlights them in a bright white, with selectable intensity. The Stargate Peaking tools can be selected for thickness of « Peaking » highlights. This allows the user to recognize what is in focus and what isn't, since it will be contrasting with the normal color of the scene.

Peaking Noise Reduction levels from the Technical menu offers to reduce the white noise on display. Go to the Global Tab section in the Technical Menu.

When activating the peaking, the settings are displayed in the right side of the screen. Use the joystick to adjust the peaking level (up & down). After 5s of inactivity, the setting disappears.

Zoom

Zoom buttons are the third and fourth one starting at top-left.
Zoom function allows the user to zoom and navigate into, and around the scene, without the need to adjust the camera lens. Especially useful with shallow depth of field lenses where specific focus is required.

Record and Playback

Recording Specification

Records are compressed using the H264 Codec. A manual conversion to MP4 is possible from the monitor gallery, format that is easier to read on most computers.
It records directly on the SD card, and does not have any internal memory to record. Maximum size of a record is currently limited to 950 MB.
Ideal for dailies and immediate scene playback.

Recording Options

Compression

The compression rate allows the user to control the quality of the records while still be compressed. The rate will vary from 1 to 23, with 1 the minimum compression and 23 the maximum compression.
The size of the record file will vary, depending on the compression.

Interframe

Interframe is part of the H264 compression (and different other compression algorithm) and correspond to the GOP structure.
This setting offers control over the GOP structure and defined the number of interpolates frames between two original frames. Selecting 1 means the video will be recording only original frames. Selecting 4 means one original frame every 4 frames.
Selecting 1 gives the best results with best reliability of the compressed video but increase the video size.

Gallery & Playback

Switch between the galleries with the joystick (Up / Down)

Video Gallery

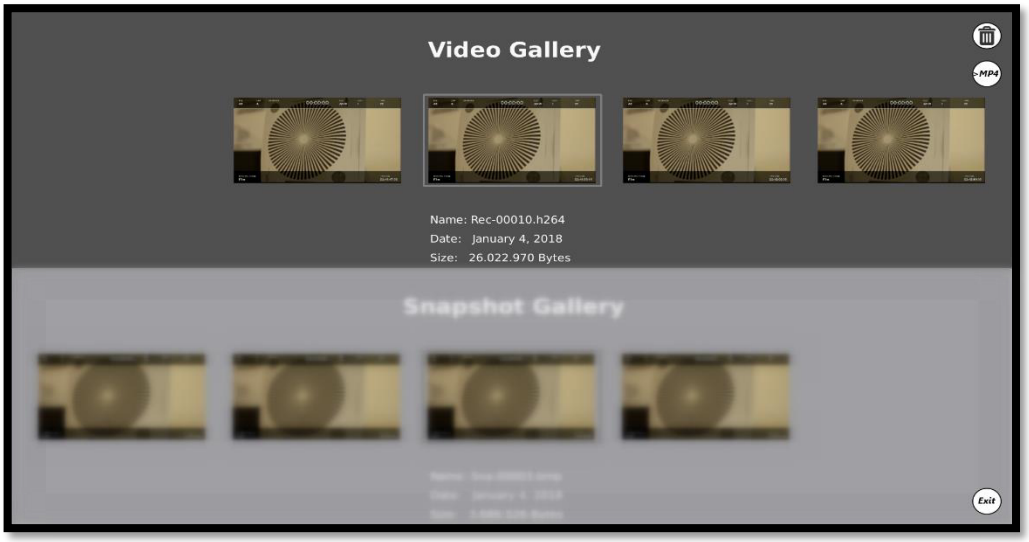


Figure 22 Video Gallery

Snapshot gallery

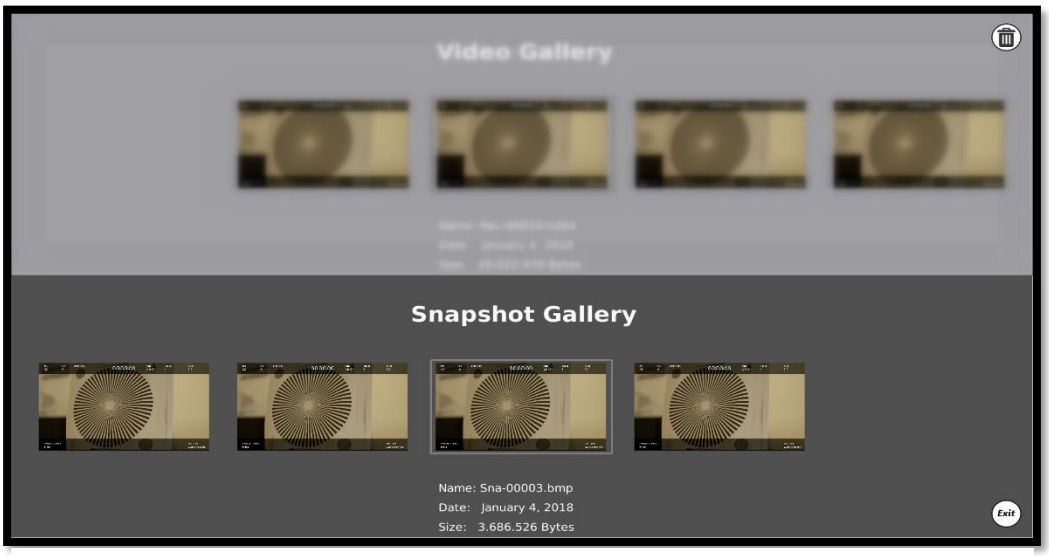


Figure 23 Snapshot Gallery

Playback

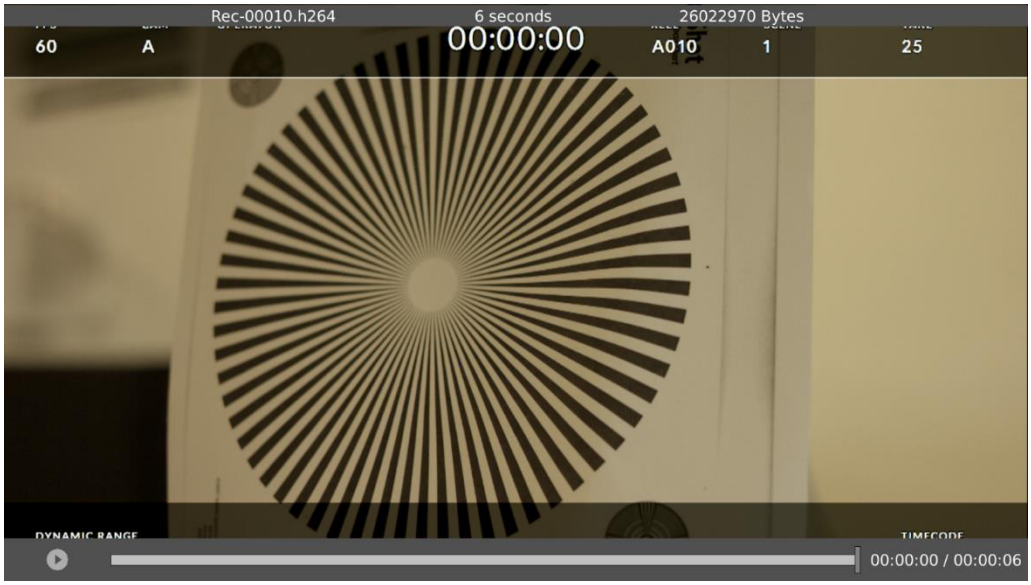


Figure 24 Video player preview

When Rewind / Forward button is activated, the push of the left joystick, moves back the cursor of reading of one second and the right push, the advance of one second.

Specifications

Common Characteristics

Video inputs	2 x 3G/HD/SDI
Video Output	1 x 3G/HD/SDI (processed) 1 x 3G/HD/SDI (reclocked)
Recorder	Yes (H264 format compression)
Display	LCD 7 inches Resolution 1920 x 1080
Contrast ratio	800:1
Viewing Angle	±85° H&V
Brightness	800Nits
White point calibration	D65 ITU-R BT.709-5 & D56
Color space	Rec. ITU-R BT.709-5
Avengerleveler ™	Yes
Tally led	Yes
Dimensions (l x h x d)	208.2 x 116.7 x 42.25 mm 8.2 x 4.59 x 1.66 inches
Weight	770g, 1.7lbs
Power	XLR4 connector or battery adapter (optional) 10 - 36V DC

SD Card Specifications

Size

The maximum working size tested on the monitor is 128GBytes.
Cards types SDSC, SDHC and SDXC Class 10 are supported to this limit.
Capacities over 128GBytes have not been tested.

Format

The SD card must be formatted in FAT32.
The SD card could be formatted by any computer or devices that format the card into FAT32 File System.
The SD card can be formatted directly from the monitor. For this, go to the Technical Menu in the Media Tab section.

Speed Class

As the monitor records directly on the SD card, speed requirements are needed.
SD card exists in multiple “Classes”, each of it describing the maximum speed of the Reading and Writing operations.
A minimum of Class 10 is required for the Stargate to record normally.

Service & maintenance

General

Please read TRANSVIDEO EQUIPMENT LIMITED WARRANTY chapter regarding the Transvideo S.A. warranty on the equipment described in this manual.

For repairs contact Transvideo S.A. or its local representative or use the RAN procedure in the chapter Service & Maintenance, section Product Return.

For the additional 1-year warranty, you must register your product within 30 days of purchase.
Visit: http://www.transvideo.eu/register-my-product

Useful tips

Protection Glass

The Stargate monitor is delivered with a high quality anti scratch and anti-finger print replaceable screen protector.

Remove the protective film(s) before using the protective screen.
This is a spare part that can be order separately.

Hardware, Software and Firmware

Hardware, software and firmware versions determine the “build” version. This information is useful to note if trouble-shooting becomes necessary. One can find them in the  from the Technical Menu.

Updating your Stargate

Please read the latest release requirements before updating.

Step 1

Visit the Transvideo website, register if needed, then go to the Support section, choose Software Update, and download the latest software for the Stargate. Do not forget to check the software releases to know more about the improvement and new features.

Step 2

Uncompress the file before use (downloaded file is in zip format) using your archive utility application. Open the uncompressed folder then copy the file **majStargateNew.vxxx.tar.gz** (xxx stands for the version) and paste it at the **root** of the SD card.

Step 3

Plug the SD card into the monitor.

Go to the  from the Technical Menu then choose **Update** (Inputs button). Validate your choice and wait.
Update may take up to 20 minutes. Do not remove the SD card.
At the end of the update, the monitor should restart automatically. You can check the loaded firmware version check in Info Tab from the Technical Menu.

Troubleshooting

If the monitor doesn't reboot and no progress bar is displayed, reboot manually then check the Info Tab from the Technical Menu for the version number.
In case of a faulty update, contact us at support@transvideo.eu

Product Return

For repairs and technical operations, you may return the product to the factory. Please use the following procedure:

1. Request for a RAN (Return Authorization Number)

Log in to our website using your user account and visit the Support section	*Or contact us by:*
www.transvideo.eu/support	*Email* service@transvideo.eu
	Fax +33 2 3260 1479
	Tel +33 2 3222 3000

You will need to provide part number & serial number (found on the back of your product) and to briefly describe the reason for the return.

2. Return the product to the following address:

TRANSVIDEO
ZI - Rue François Arago
27130 Verneuil sur Avre
France

User is responsible for shipment and insurance of the equipment as well as for any damage that may occur during transit.
It is strongly recommended you use a trackable courier service and to inform us of the Tracking Number of your shipment and the RAN, so we may track your product while in transit.

Transvideo Equipment Limited Warranty

Transvideo S.A gives the warranty set forward below.
The limited warranty is only effective upon presentation of your Bill of Sale or other proof of purchase.
Transvideo equipment is warranted under normal use, against defective materials or workmanship as follows:

Parts: Defective parts will be exchanged for new parts or comparable rebuilt parts for a period of TWO YEARS from the date of original purchase.

Labour: For a period of TWO YEARS from the date of original purchase, labour will be provided free of charge by our factory service centers or designated service facilities located in country where the product have been purchased, or by the factory.

For an additional 1-year warranty, you must register your product within 30 days of purchase: http://www.transvideo.eu/register-my-product

When returning equipment under this warranty, you must pre-pay the shipping charges, and you must enclose the Bill of Sale or other proof of purchase with a complete explanation of the problem. During your TWO-YEAR warranty period, repairs will be made and the equipment return-shipped to you free of charge. After your warranty period is over, you will be given an estimate of the cost of repair and an opportunity to approve or disapprove of the repair expense before it is incurred. If you approve, repairs will be made and the equipment return shipped to you. (shipping charges apply). If you disapprove, we will return-ship the equipment at no charge to you. (shipping charges apply). Non-Transvideo brand peripheral equipment and software which may be distributed with Transvideo products are sold “AS IS” without warranty of any kind by Transvideo, including any implied warranty regarding merchantability or fitness for a particular purpose. The manufacturer or producer gives the sole warranty with respect to such non-Transvideo brand items
Thereof:
Transvideo shall have no responsibility under this limited warranty for use of Transvideo product in conjunction with incompatible equipment or peripheral equipment.
To obtain warranty service, contact the authorized Transvideo retail dealer from whom you purchased the product or contact the factory:

Via phone	*+33 2 3222 3000*
Via fax	*+33 2 3260 1479*
Via email	*service@transvideo.eu*

You will be directed to the nearest service facility for your product.
If there is no service facility in your region, you will receive a RAN (Return Authorization Number) and instruction to return your product to the factory.
This Limited Warranty covers all defects encountered in normal use of the equipment and does not apply in the following cases:
Loss or damage to the equipment due to abuse, mishandling, accident, improper maintenance, or failure to follow operating instructions;
If the equipment is defective as a result of leaking batteries, sand, dirt or water damage; If defects or damage are caused by the use of unauthorized parts or by service other than our authorized agent.
This Limited Warranty does not cover cabinet (exterior finish).
This warranty does not cover units sold to military operations or avionics. These uses are covered only by such specific warranty as Transvideo may issue with such sales.

This Limited Warranty does not apply to accessories or consumables for the product, which are sold “AS IS”, without warranty of any kind by Transvideo.
Please retain this warranty card and your Bill of Sale as a permanent record of your purchase. This card is most important in order to be sure you are contacted right away should there be a safety inspection, modification or product recall under applicable laws or regulations.

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