



# *CineMonitor* *4D* *3DView RF*

## **Operator Manual**

# ABOUT

This Operator Manual describes the use of the Transvideo CineMonitorHD 3DView RF family.

The first wireless monitor has been introduced to the Film Industry during year 2004. The CineMonitorHD 3DView RF is our latest contribution to the Digital Cinematography world, offering wireless digital transmission for HDMI, HD-SDI, SD-SDI and Composite video without latency or compression.

The CineMonitorHD 3DView RF family includes the following products:

<i>CineMonitor</i> <sup>HD8</sup> <i>3DView RF</i>	8" HD Wireless 3DView S3D Monitor
<i>CineMonitor</i> <sup>HD10</sup> <i>3DView RF</i>	10" HD Wireless 3DView S3D Monitor
<i>CineMonitor</i> <sup>HD12</sup> <i>3DView RF</i>	12" HD Wireless 3DView S3D Monitor

If the physical, electrical and optical characteristics of the products are different, the user interface is the same.

**This manual describes CineMonitorHD 3DView RF with Software 12.02 (and up).**

The products described in this manual are professional equipments. They are not designed for consumer use. Utilization of these products implies knowledge of basics in video signal management, HDTV and film making concept.

## WARNING & CAUTION

### WARNING:

There is very high voltage inside of the component. Risk of injury or death.

### 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:

**Copyright law and international treaties protect this product, its design and its software. One or several international patents apply to the CineMonitorHD 3DView RF.**

**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 you touch them. 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 for 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.

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# INTRODUCTION

## Unpacking

### Packing list

Control the content of the package accordingly to the packing list.

### Transportation

The CineMonitorHD is delivered in a rugged waterproof case. Use this case for storage and transportation.

### 2 years warranty

All CineMonitorHD are covered by a 2 years limited warranty unless otherwise noted.

Get a **3<sup>rd</sup> year for free** by registering your product online within the first month of the purchase.

<http://www.hd4dp.com/register-my-product>

## General safety instructions

### **IMPORTANT:**

Do not use damaged cables with this equipment.

Damaged connectors may seriously damage this equipment.

Never seal the monitor in a plastic bag.

Never use the monitor in full sun with a Raincover.

Before using the monitor make sure that the product is not damaged, that the protective glass is not broken and that the connector do not have missing pins, foreign objects inside the housing.

The CineMonitorHD 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. A bad quality or wrong-wired cable 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  $\Omega$  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 CineMonitorHD must be securely mounted on the camera or on its location of use. Several mounting points with 1/4-20" nut are present on this equipment for a secured professional use. Do not use the monitor with loose fixation or damaged brackets 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.hd4dp.com>.

### Power requirements

Only DC Voltage powers this product.

AC voltage can be used with an appropriate AC/DC converter  
Recommended AC power adaptor for CinemonitorHD 3DView RF is the Transvideo AL63.

The input power voltage range is extremely wide from 10 to 36 V DC (except specified differently).

### 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. Over voltage may cause severe damages 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.

### Turning power On/Off

The ON/OFF Switch is on the back side of the monitor.  
The product needs a certain time to reach its nominal brightness.  
This time can vary with the temperature.  
In OFF position, the power consumption is null.

### Galvanic insulation

For safety of use the CineMonitorHD family feature a galvanic insulation of the DC input. Do not connect the power ground to the chassis of the monitor or to the metallic body of the power connector in order to keep the galvanic insulation. The galvanic insulation is rated at 1000VDC. The chassis of the monitor is connected to the video ground.

### Anton-Bauer batteries / FuelReader™

TransvideoLabs engineer's integrated communication between the fuel computer of Logic Series Digital batteries from Anton-Bauer and CineMonitorHD 3DView RF. The FuelReader™ gives to the user a view of the remaining available percentage of the battery and the time to run.

#### **WARNING RISK OF FIRE:**

It is always recommended to remove the power source from the monitor when you do not use it and/or when you travel. Especially if you place the monitor in a closed environment (bag, box, ...).



## ***Start-up***

- ① Connect an adapted power supply to the XLR connector or a battery if any socket available to the CineMonitorHD 3DView RF and to the TitanHD Tx (transmitter).
- ② Connect a video source to the Tx video input (HD or SD)
- ③ Switch on the TitanHD Tx and CineMonitorHD 3DView RF

For more information, please read next chapters.

# PRODUCT OVERVIEW

## Parts identification

All connectors are on the back of the monitor. Depending on the size of the monitor, the connectors and their location may differ.

The CineMonitorHD 3DView RF family offers a video connector panel common to all sizes.

Figure 1 shows the back of a 8" HD wireless monitor.

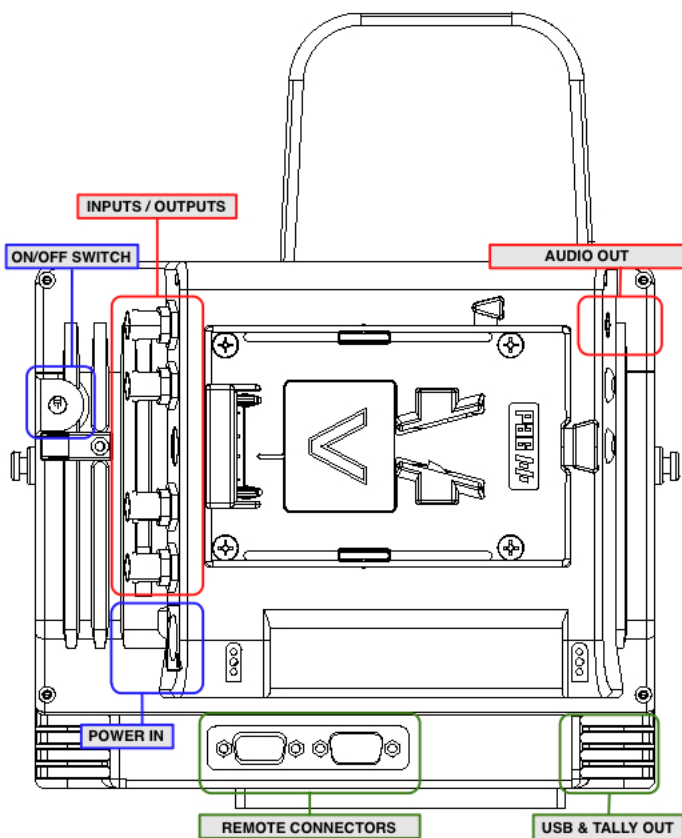


Figure 1: CineMonitorHD8 3DView RF back

## User interface

The CineMonitorHD 3DView RF family offers a user interface common to all sizes. Some functions are directly accessible from the "direct functions" keypad, others from the menu with use of the rotating knob.

The CineMonitorHD screen is partitioned in two areas:

- ① The picture zone displays the picture from the camera in 16/9 format
- ② The tools zone displays tools and measurements in the remaining area of the screen.

Figure 2 show the front of a 8" CineMonitorHD 3DView RF.

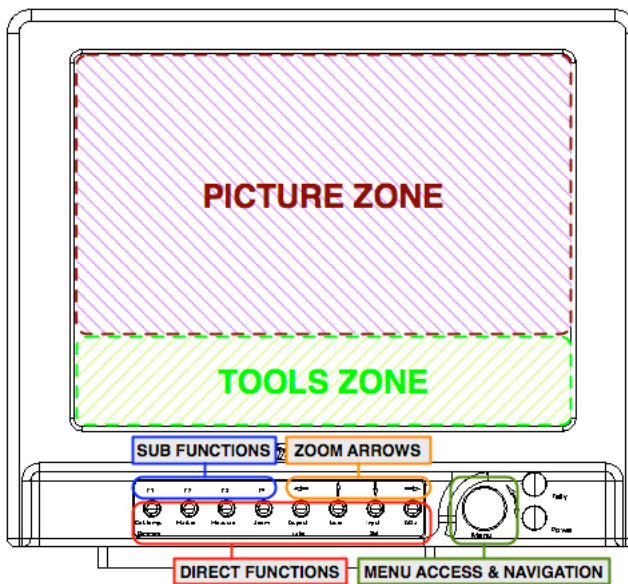


Figure 2: CineMonitorHD8 3DView RF front

## Direct functions

Several direct functions are available from the keypad.

One short press on a key gives access to the function.

One long press (more than 2 seconds) on a key gives access to the sub functions of the related function (if any). Pressing F1...F4 enables to adjust those sub functions.

Depending of the function, options and environment, the content of F1...F4 may differ. Pressing a key will activate or deactivate the sub function. An activated sub function is highlighted by an orange text while an inactivated function prompts in white.

In some specific case, F4 may extend the selection to a second page of sub menu.

## Rotating knob

The menu knob is a rotating encoder with a push function. It is used to access and navigate in the menus, adjust some parameter values, validate and exit functions by turning or pushing it.

One sort press on the knob gives access to the menu. Rotating the knob enables to navigate between the menu items. Pushing the knob gives access to the sub menu of the highlighted menu item.

Selecting EXIT exits from the current menu level to the previous (if any). A long push on the knob exits from the menu. Exiting the menu is also possible by automatic temporization, adjustable in MENU / TECHNICAL.

## Wireless Specificity

In wireless mode, the CineMonitorHD 3DView RF must be associated to a Transvideo TitanHD Tx. No other wireless system can work with the CineMonitorHD 3DView RF.

A LINK menu is available when WIRELESS RECEIVER input is selected. It gives access to the wireless settings.

Two wireless modes are available: Broadcast and P2P. Both CineMonitorHD 3DView RF and TitanHD Tx have to use the same mode.

In P2P mode, the link is possible only between the paired transmitter and receiver.

The Broadcast mode allows to connect up to 6 receivers (CineMonitorHD 3DView RF and/or TitanHD Rx) to one transmitter (TitanHD Tx). Each receiver must be paired to the transmitter.

For more information about pairing operation, see the next section "Module Association".

## 3D Specificity

The 3D menu is available only when WIRELESS 3D input is selected.

The measurement tools display the 2 signals analysis simultaneously. Each spot uses a specific color (adjustable in MENU / 3D / COLOR).

### **About Wireless inputs**

WIRELESS RECEIVER input displays the image that the transmitter carries:

- in case of 3D video source, WIRELESS RECEIVER input displays a side by side image
- in case of 2D video source, WIRELESS RECEIVER input displays the 2D picture

WIRELESS 3D input only accepts 3D side by side signals carried by a TitanHD Tx 3DView

# MODULE ASSOCIATION

**IMPORTANT:**

Both the transmitter and receiver need to be associated (or paired).  
The operation can be performed in P2P mode or BROAD mode.  
There is no need to perform the module association in both modes.

**Step 1**

Turn on the TitanHD Tx. During the startup, keep on pressing Back key until the message "Push OK to register" is displayed.

**Step 2**

Turn on the CineMonitorHD 3DView RF. Go to MENU / LINK / ASSOCIATION. "Associate modules" appears on the screen.

**Step 3**

Select "Yes" on the CineMonitorHD 3DView RF and press "OK" on the TitanHD Tx. "Linking..." appears on both monitor and transmitter.

**Step 4**

"Link OK" appears, then the system starts up.

# USING THE DIRECT FUNCTIONS

## Color Temperature & Dimming

*Short push on **Col. Temp. Dimming*** – toggles calibration modes:

FULL BRIGHT: maximum brightness and power consumption, the color calibration is deactivated

STANDARD CALIBRATED: standard mode, the brightness (100Nits) and white point are calibrated according to the settings of MENU / COLORIMETRY

USER SET: turning the rotating knob adjusts the brightness from 10 to 100% while color calibration is preserved. Allows having a reduced power mode between two takes.

*Long push on **Col. Temp. Dimming*** – accesses the settings of the Standard Calibrated mode

Press F1 to choose D56 calibration

Press F2 to choose D65 calibration

Press F3 to choose manual calibration (Adjustable in MENU / COLORIMETRY)

It is necessary to wait a few seconds after pressing the key before loading of the correct lookup table.

## Markers

*Short push on **Marker*** – activates or deactivates the selected marker(s).

Long push on Marker to select the markers to display.

Not active when ZOOM or FORMAT 2.40:1 are selected.

*Long push on **Marker*** – marker(s) selection

*First page*

Press F1 to activate / deactivate 4:3 marker  
Press F2 to activate / deactivate 14/9 marker  
Press F3 to activate / deactivate 16/9 marker  
Press F4 to access next page

*Second page*

Press F1 to activate / deactivate safe area  
Press F2 to activate / deactivate Derobe's grid  
Press F4 to access previous page

This menu is contextual; some functions can be unavailable depending of the video standard.

*\* Derobe's Grid is available in 3D mode and is a specific tool for stereographic work. Refer to Chapter "MENU FUNCTIONS" section "3D / DEROBE'S GRID".*

When SAFE AREA is selected in the sub menu, one short press on the Marker key displays "TURN TO ADJUST SAFE AREA: XX%". Rotating the knob makes it possible to adjust the safe area on the picture from 10 to 99%. SAFE AREA is selected by default at start-up or after a reset and with a value of 90%.

When DEROBES GRID is selected in the sub menu,

- ① one short press on the Marker key displays "TURN TO ADJUST GRID OFFSET: XX PIXELS". Rotating the knob makes it possible to adjust the grid offset of plus or minus half of the step of the grid.
- ② one long press (more than 3 seconds) on the Marker key displays "TURN TO ADJUST GRID: XX pix x.xx%". Rotating the knob makes it possible to modify the step of the grid from 6 to 122 pixels.

## Measurements

*Short push on **Measure*** – toggles the different views of the selected measurement

Long push on Measure to select the measurement to display.

*Long push on **Measure*** – measurement selection

Press F1 to select Waveform

Press F2 to select Luminance histogram

Press F3 to select Vectorscope

The brightness of the reticule and of the spot as well as the background transparency in overlay mode (for waveform and vectoscope) can be adjusted in MENU / TOOLS / MEASUREMENT.

White and black clipping alert can be configured in MENU / TOOLS / LIMITS. The same limits are used for the waveform and the histogram. Setting these limits is useful to have a visual alert on the measurement tools if there is a risk of overexposure or of loss of black details.

When using the 3D mode the measurement tools display the two inputs simultaneously. It is valid for the Waveform, Histogram and Vectorscope. To identify clearly the source each spot uses a specific color. The colors used are the same as those used for the 3D representation. Selection is done in MENU / 3D / COLOR, i.e.:

- ① using the HISTOGRAM with RED/CYAN colors will display input 1 in RED and input 2 in CYAN. The common values of the HISTOGRAM will be displayed in white, the differences in RED or CYAN.
- ② using the HISTOGRAM with RED/BLUE colors will display input 1 in RED and input 2 in BLUE. The common values of the HISTOGRAM will be displayed in MAGENTA, the differences in RED or BLUE.

## Waveform

Selecting "F1: WAVE" gives access to the selection of the waveform modes.

Press F1 to display the waveform in line mode

Press F2 to display the waveform in parade mode

Press F3 to display the waveform in frame mode

Press rotating knob to exit from menu.

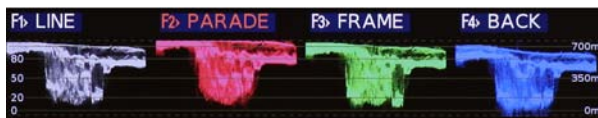
Then a short push on Measure toggles the different views of the selected waveform mode (if any). It also gives the possibility to adjust the size of the waveform by using the rotating knob (3 sizes available)

**LINE** Displays one single spot (Y, Red, Green or Blue)



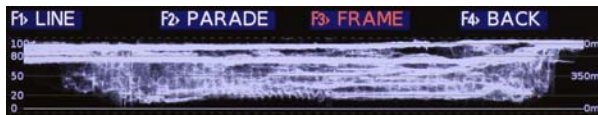
**PARADE** Displays Y, R, G, B, Cr & Cb in parade mode.

Available modes: YRGB / YGBR / RGB / GBR / YCrCb



**FRAME** Displays Y, R, G, B in frame mode (or sweep mode).

The content of one frame/picture is displayed.



## Histogram

Selecting "F2: HISTO" displays the histogram.

Press rotating knob to exit from menu.

Then a short push on Measure gives the possibility to adjust the scale of the histogram by using the rotating knob





## Vectorscope

Selecting "F3: VECTOR" displays the vectorscope.

Press rotating knob to exit from menu.



## Zoom

*Short push on **Zoom*** – activates / deactivates the zoom mode.

Arrows move the picture on Top/Bottom, Left/Right positions. Moving increments are proportional to 1/8 of the video standard. Fine adjustment can be made by rotating the rotating knob.

A long push on the Zoom key centers the picture, the next push sends back to the full picture display.

During the zoom mode a pictogram is displayed in the right side of the tool zone.

This pictogram indicates the relative position of the magnified zone in the original picture.



### In HD

In HD, the picture is displayed in full resolution mode (pixel to pixel).

Depending of the input format, the magnification ratio can be different.

### In SD

In SD, the picture is displayed in full screen.

In this case there is an important magnification ratio applied to the original picture. The resultant picture includes created pixels and lines and cannot be considered as a proof. In this mode the waveform will be superimposed to the picture.

## Aspect Ratio

Short push on **Aspect ratio** – toggles aspect ratio:

1.33:1	4/3	SD only
1.78:1	16/9	HD & SD
2.40:1		HD & SD
3.20:1		HD & SD (2.40 anamorphic lens on a 1.78 sensor)

No sub functions in Aspect Ratio

## Assign user key

Short push on **User** – activates or deactivates selected user function.

Long push on User to select the user function.

Long push on **User** – user function selection

*First page*

Press F1 to select **STATUS** as the user function

Displays the status of the monitor and the input voltage from the power supply or the battery.

Press F2 to select **FOCUS** helper as the user function

Activates the Focus Helper function as programmed in MENU / TOOLS / FOCUS HELPER.

Press F3 to select **EXPO**sure control as the user function

Gives access to the Exposure Control as configured in MENU / TOOLS / LIMITS.

*FOCUS and EXPO may be selected simultaneously. If both are activated, pressing User key set up:*

*a. FOCUS + EXPO / b. FOCUS / c. EXPO / d. nothing*

Press F4 to access next page

*Second page*

Press F1 to select **High/Low** (high- or low- light details) as the user function

In high mode, the 50%-100% grey scale is shifted to 0-50% to enhance the high-light details.

In low mode, the 0-50% grey scale is shifted to 50%-100% to enhance the low-light details.

Press F2 to select **3D** or **HORIZON** as the user function

When a 3D input is active, gives access to the 3D menu.

Else, activates or deactivates the horizon as programmed in MENU / TOOLS / HORIZON.

Press F3 to select **ZONE** as the user function

Adjusts the acquisition zone for the waveform and vectorscope.

Active when "1 LINE" or "12 LINE" are selected in MENU / TOOLS / MEASUREMENT.

Press F4 to access previous page

## Input Selection

*Short push on **Input Sel*** – toggles video inputs.

Long push on Input Sel to select the active video inputs.

*Long push on **Input Sel*** – selection of the active video inputs

An active input is highlighted in orange, an inactive in white. An inactivated input cannot be selected by the Input Sel key.

Press F1 to activate or deactivate the RF (wireless) input

Press F2 to activate or deactivate the SDI input

Press F3 to activate or deactivate the HDMI input

Press F4 to activate or deactivate the 3DView RF (3D wireless) input

## Display adjustments

*Short push on **ADJ*** – toggles parameters to adjust:

Brightness, Contrast, Saturation, Hue (NTCS only)

Adjust the value by rotating the knob.

Validate by pushing the knob.

### **IMPORTANT:**

The settings are different for each input. All settings are stored in setup memories. There is one memory per input. That means you can setup the ACC input differently of the SDI input. It is useful with some specific cameras offering a viewfinder menu and a HD SDI output.

# MENU FUNCTIONS

## HELP

Gives access to maintenance menu.

### MONITOR INFO

Gives software (SW) and firmware (FW) versions of all electronic boards of the monitor.

Main Board soft1:	main board main SW version
Main Board soft2:	main board secondary SW version
Main Board firm1:	main board FW version
INTERFACE soft:	interface board SW version
INTERFACE firm	interface board FW version
HDMI soft:	input board SW version
HDMI firm:	input board FW version

### UPDATE

Allows the SW and FW updates of all electronic boards of the monitor.

To update a CineMonitorHD 3DView RF, refer to chapter "SERVICE & MAINTENANCE", section "Updating your CineMonitorHD 3DView RF".

### ADVANCED UPDATE

Gives access to advanced functions for monitor updates.

For experts only.

## DISPLAY MODE

Gives access to 3 display modes: COLOR, GREEN and B/W

In 3D mode, DISPLAY MODE menu is not available. Display settings are done in MENU / 3D / MODE menu.

### COLOR

Standard mode, displays the picture with 16 million colors, 256 gray levels.

### GREEN

Display the picture in green color only.

TINT and SATURATION are not working in this mode.

This mode has been invented by Transvideo in 1990 and is used since this time in Film & Night Vision systems.

### B/W

Displays the picture with 256 gray levels.

TINT and SATURATION are not working in this mode.

## BLUE CHECK

Sets the monitor in BLUE ONLY mode.

This mode is used to calibrate the monitor with an incident color bar.

## COLORIMETRY

### MANUAL

Allows the manual adjustment of RGB gain (from 0 to 2, nominal 1.00) and offset of the black (-127mV to +126mV, nominal 0 mV).

The nominal value in manual mode corresponds to the D65 setup.

#### **IMPORTANT:**

In MANUAL there is a risk of displaying wrong colors; this option must be used carefully.

### D56 CALIBRATED

Sets the monitor for a white point DAYLIGHT 5600

CIE 1931 Coordinates:	x:	0.3310
	y:	0.3460

### D65 CALIBRATED

Sets the monitor for a white point DAYLIGHT 6500

CIE 1931 Coordinates:	x:	0.3127
	y:	0.3290

## **INPUT LUTS**

### **LINEAR**

Adjusts the response of the monitor with a linear gamma correction.

### **REC709**

Adjusts the response of the monitor to a video signal using REC709 encoding.

### **S-LOG**

Adjusts the response of the monitor to a video signal using S-Log encoding.

### **LOGC**

Adjusts the response of the monitor to a video signal using Log C encoding.

The standard EI (Exposure Index) is set to 200. It is possible to adjust the EI to 100, 125, 160, 200, 250, 320, 400, 500, 640, 800.

## **BLACK LEVEL**

Adjusts the black level of the video signal:

### **STANDARD**

The black level is set to 64 / 0 IRE

### **EXTENDED**

The black level is set to 4 / -7 IRE

### **ADJUST**

Intermediary and adjustable black level, from 4 to 64 (-7 to 0 IRE).

## **LOCK**

The lock function prevents errors after configuration and calibration of the monitor.

When the function is activated, "LOCK" is displayed on the screen at each attempt to enter in the menu or to access a direct function.

Pressing the rotating knob for more than 5 seconds gives the user access to the menu where she/he will be able to deselect LOCK.

#### **IMPORTANT:**

Input Sel key is never locked.

## TOOLS

### AUDIO

Displays the SDI embedded audio presence and a bargraph showing one audio pair on the 8 possible pairs.



#### AUDIO: ON/OFF

Activates or deactivates the function

#### CHANNEL PAIR: X

Selection of the pair displayed on the bargraph with the rotating knob.

### POSITION

Allows the user to place the tool in different position of the screen by using arrows and the rotating knob when USER is selected in POSITION sub menu. DEFAULT replaces the tool at the factory preset.

### TIMECODE

Displays the embedded VITC 1 or 2 or LTC Timecode.



#### TIMECODE: ON/OFF

Activates or deactivates the function

#### ATC: AUTO, LTC, VITC1, VITC2

Selection of the displayed ATC. When AUTO is selected the first time code present is displayed (1: LTC, 2: VITC1, 3: VITC2)

#### POSITION

Allows the user to place the tool in different position of the screen by using arrows and the rotating knob when USER is selected in POSITION sub menu. DEFAULT replaces the tool at the factory preset.

## /i LENS

The /i Lens Reader from Transvideo reads the metadata from /i lenses to display in real time the iris, focus and zoom on an intuitive graphic representation. The /i Lens Reader also displays the depth of field and the hyperfocal point.

Accepted lenses (with automatic detection):

Cooke™ 5/i and S4/i connected to the monitor through RS232

Two graphics are available: Mobile where the scales are moving as on a real lens; static where the markers are moving on the scales.



### MODULE: ON/OFF

Activates or deactivates the function

### RING: MOBILE/STATIC

Toggles between mobile and static rings display.

### IRIS: DECIMAL/FRACTIONS

Toggles the iris value between decimal and fraction values.

### ZONE: OP+ASSIT / ASSIST / OFF

Available only if a Cooke 5/i is connected to the monitor. The COOKE 5/i is able to light the focus and iris scales on the operator and/or the assistant side.

Selection of the lighted zones OPERATOR + ASSISTANT or ASSISTANT ONLY

### BRIGHTNESS

Adjusts the brightness of the LEDs on a COOKE 5/i lens.

### UNIT

Selection of METRIC or IMPERIAL unit.

### FILM

Selection of 16mm or 35mm.



## FOCUS HELPER

Activates a precise focus helper displaying in-focus zones with colored dots. The focus helper is based on a complex multidimensional digital filter.

When 3D mode is activated the in-focus zone of each camera is displayed with a specific color. The colors used are the same as those used for the 3D representation. Selection is done in MENU / 3D / COLOR.

The focus helper can be removed by the User key. The settings must have been previously configured (Press long time User key, then set the function with F1...F4).

### COLOR

Selection of the in-focus zone color.

Red, Green, Blue, Yellow, Magenta, Cyan, Black or White.

### LEVEL

Adjustment of the selectivity of the filter.

OFF, 1 to 9 (9 gives the highest effect)

## FRAMELINE

Enables to displays one locating cross and up to 3 programmable frames with or without center marker and a matting generator.

### CROSS

CROSS ON/OFF	Activation of the cross
COLOR	Selection of the color of the lines
WIDTH	Selection of the width of the lines
V POS	Vertical position of the cross
H POS	Horizontal position of the cross

### FRAME 1...3

FRAME 1...3 ON/OFF	Activation of the frame
CENTER ON/OFF	Activation of the center cross
COLOR	Modification of the color of the frame
DOT	Modification of the structure of the frame
SEND TO CENTER	Sends the frame to the center of the screen.
V SIZE	Size of the frame (bottom part is moving)
H SIZE	Size of the frame (right part is moving)
V POS	Vertical position of the frame
H POS	Horizontal position of the frame
V ZOOM	Vertical homothetic modification of the frame
H ZOOM	Horizontal homothetic modification of the frame

### SEND ALL TO CENTER

Sends all frames to the center of the screen.

### BCKGND COLOR (Matting Generator)

Selects the background color outside of the frames.

## HORIZON

Displays a color coded electronic leveler on the screen.

### SENSOR

Toggles between internal and external sensors

- INTERNAL + COMP \* Internal sensor with compensation of acceleration
- INTERNAL Internal sensor
- BETZ Uses external electronic bubble designed by BETZ Tools

### DISPLAY: NORMAL / REVERSE

Toggles the action of the horizon, normal or reversed.

### RANGE

Sets the range of the horizon

INTERNAL + COMP	+/-2°, +/-5°, +/-10°, +/-22°, +/-45°, +/-90°
INTERNAL	+/-5°, +/-10°, +/-22°, +/-45°, +/-90°
BETZ	n/a

### STYLE

Displays the Horizon on the monitor and selects the style of the virtual horizon (6 different models).

### 0 CAL

Sets the horizon to 0. A temporization of 5 seconds allows the user to stabilize the position of the system. Pushing the rotating knob during calibration exits from the timing.

### POSITION

Allows the user to place the tool in different position of the screen by using arrows and the rotating knob when USER is selected in POSITION sub menu. DEFAULT replaces the tool at the factory preset.

#### **About Betz horizon:**

In BETZ position the user must connect an external electronic bubble designed by Betz Tools. A specific cable is needed to power and remote the bubble through J001 connector. Transvideo do not support this third party equipment.

\* Available only if VirtualHorizon2™ option is implemented in the monitor. VirtualHorizon2 is an optional feature. It can be ordered with the monitor or implemented through an upgrade. Contact Transvideo SA for more information.

## LIMITS

Safety levels can be displayed as false colors in the picture. These levels and clippings are set in this menu.

Safety levels can also be displayed in the measurement tools, activated in MENU / TOOLS / MEASUREMENTS.

### MAX LEVEL

Sets the maximum level (White). Adjustment goes from 100 IRE to 109 IRE

All information over the limit will be displayed in **red** on measurement tools and/or on the picture.

### WHITE CLIPPING

Sets the top clipping level (White). Adjustment goes from 70 IRE to 109 IRE

The upper value is limited by the MAX LEVEL setting.

All information over the limit will be displayed in **orange** on measurement tools and/or on the picture.

### BLACK CLIPPING

Sets the low clipping level (Black). Adjustment goes from -6.9 IRE to 36 IRE

The lower value is limited by the MIN LEVEL setting.

All information below the limit will be displayed in **blue** on measurement tools and/or on the picture.

### MIN LEVEL

Sets up the minimum level (Black). Adjustment goes from -6.9 IRE to 36 IRE

All information below the limit will be displayed in **violet** on measurement tools and/or on the picture.

### SORIN's MARKER

Adjusts the central value of the marker in IRE.

### SORIN's MARKER WIDTH

Adjusts symmetrically the thickness of the marker within the limits of the white and black clipping values.

All information within the Sorin's marker limits will be displayed in **green** on measurement tools and/or on the picture.

### OVEREXPOSURE: ON/OFF

Activates or deactivates the overexposure control on the picture.

The MAX LEVEL and the WHITE CLIPPING are displayed in false colors when activated.

### SORIN'S MARKER: ON/OFF

Activates or deactivates the Sorin's Marker on the picture.

The Sorin's area is displayed in false colors when activated.

### BLACK LIMITS: ON/OFF

Activates or deactivates the black limits control on the picture.

The MIN LEVEL and the BLACK CLIPPING are displayed in false colors when activated.

#### **About the Sorin's marker:**

Sorin Dragoi RSC is a famous Romanian Director of Photography. He suggested this tool, which he is using mainly to check the exposure on skin tone. The Sorin's marker is used to see all light equivalent zones, i.e. to see the 0 stop zone of the picture.

## MEASUREMENTS

Allows different settings for the video measurement tools.

The settings apply to all video measurement tools except the histogram, which represents always the full picture.

### SIGNAL UNIT

Selects the signal measurement unit.

IRE (default unit) or BINARY

### SIGNAL ANALYSIS

Selects 8 bits if the SIGNAL is 8 bits.

Default value: 10 bits

### OVEREXPOSURE: ON/OFF

Activates or deactivates the overexposure zoning on the measurement tools.

### SORIN: ON/OFF

Activates or deactivates the Sorin's Marker zoning on the measurement tools.

### BLACK LIMITS: ON/OFF

Activates or deactivates the black limits zoning on the measurement tools.

### 1 LINE

Displays the measurement of one line selected with the rotating knob.

### 12 LINES

Displays the measurement of a group of 12 lines.

The first line is selected with the rotating knob.

### ALL LINES

Displays the measurement of the whole picture.

### BACKGROUND INTENSITY

Adjusts the overlay transparency behind the measurement tools (when displayed in front of the picture).

### SPOT INTENSITY

Adjusts the brightness of the waveform spot.

### RETICULE INTENSITY

Adjusts the brightness of the waveform reticule.

#### **About 1 - 12 Lines selection:**

The selection of the acquisition zone can be allocated to the "User" key (see chapter "DIRECT FUNCTIONS" section "User").

## TALLY

### **SOURCE: EXTERNAL / SDI EMBEDDED**

Tally can be activated via an EXTERNAL signal (GPI) or via the camera REC/STOP command embedded in the SDI (if any).

When activated via EXTERNAL, the Tally state conditions are adjustable in MENU / TECHNICAL / GPI.

In wireless mode Tally may be activated via the transmitter:

- through EXTERNAL signal using 1 of the 2 GPI of the transmitter
- through the camera REC/STOP command embedded in the SDI (if any)

### **LED ON/OFF**

Activates or deactivates the TALLY LED on the front panel.

### **TALLY BLINKING/FIX**

Sets the active mode in TALLY ON

### **STYLE**

Selects the style of the TALLY

Includes the TALLY FRAME which is active on FRAME3 of the frameline.

PICTURE FX

NORMAL

Restores the standard display



VERTICAL FLIP

Returns the picture vertically



HORIZONTAL FLIP

Returns the picture horizontally



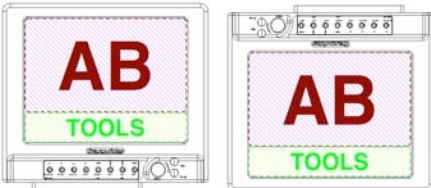
PICTURE REVERSE

Returns the picture horizontally and vertically (180° rotation of the picture)



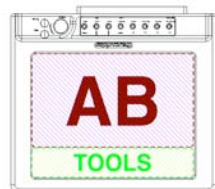
AUTO REVERSE

Makes a MONITOR REVERSE automatically if the monitor is up side down



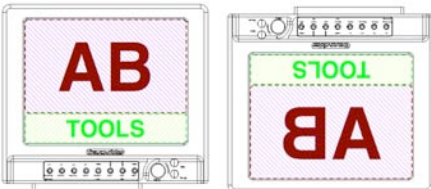
MONITOR REVERSE

Returns the picture, tools and menus horizontally and vertically



AUTO FLIP REVERSE

Returns the picture automatically (vertical axis only) if the monitor is up side down



## 3D

This menu is visible when WIRELESS 3D input is selected.

### **IMPORTANT:**

In the following description we assume that the left eye camera is always wired on SDI1 or HDMI1 (IN1) on the transmitter, and the right eye camera on SDI2 or HDMI2 (IN2).

## DEROBE'S GRID

The Derobe's grid is mainly used to adjust infinity parallax to the target screen size. It is a parallel grid with adjustable width between the lines.

In zoom mode the grid is sized to the native resolution.

When SAFE AREA is active, the grid appears only in the safe area (eventually resized depending of the settings).

### **About Derobe's Grid:**

The grid is a specific tool for stereographic work that has been developed in cooperation with Alain Derobe, AFC. Alain Derobe was a french stereographer and 3D consultant.

### **GRID: ON/OFF**

Activates or deactivates the grid. It can also be activated directly through the Marker key.

### **WIDTH**

Adjusts the separation between the vertical lines from 6 to 122 pixels. Corresponding value in % is also given. The number of corresponds to the incident picture pixels, not to the screen pixels (except in ZOOM mode in which the picture is displayed in full resolution, pixel to pixel)..

### **OFFSET**

Shifts the grid left or right of half of the WIDTH value.

### **COLOR**

Sets the color of the grid

### **AREA**

Displays a safe area on the center of the grid in order to only see the picture. From 100% where the picture is fully covered to 5% where only the borders are covered.

### **INTENSITY**

Sets the brightness of the grid

### **DENSITY**

Sets the density of the lines from dots to solid.

**MODE**

Several possibilities are available by turning and pressing the rotating knob when the line is highlighted.

**SHUTTER GLASSES**

The 2 pictures are displayed alternatively.  
The optional Shutter Glasses interface synchronizes the shutter glasses.

**COLOR**

The left camera and right camera are displayed in full color.

**BW**

The left camera and right camera are displayed in black and white.

**ANAGLYPH**

Only the selected monochromatic component of left camera and the complementary components of right camera are displayed.  
The pictures are interleaved.  
To visualize the 3D effect, it is necessary to use specific glasses.  
The colors used in this mode depend of the settings of 3D / COLOR.

**MONOCHROME**

The left camera and right camera are displayed in monochrome.  
The colors used in this mode depend of the settings of 3D / COLOR.  
This mode is useful to visualize the fringes between the 2 pictures.

**COLOR**

4 modes are available

	Left Camera	Right Camera
Mode 1	RED	CYAN
Mode 2	GREEN	MAGENTA
Mode 3	BLUE	YELLOW
Mode 4	RED	BLUE

To visualize correctly the 3D effect in ANAGLYPH, it is necessary to use the color-coded glasses accordingly to the selected mode.

**FLOP**

The FLOP is a vertical inversion of the picture.  
When the line is highlighted turning and pressing the rotating knob activates or deactivates the FLOP of the left camera, right camera or both cameras.



## FLIP

The FLIP is a horizontal inversion of the picture (mirror effect).

When the line is highlighted turning and pressing the rotating knob activates or deactivates the FLIP of the left camera, right camera or both cameras.

It is possible to activate simultaneously the FLIP and the FLOP

## HORIZONTAL SHIFT

Turning the rotating knob when the line is highlighted allows shifting the right picture of  $\pm 100$  pixels. When a value different than "0" is applied a pictogram with the direction and the value of the shift appears on the screen.

**IMPORTANT:**

This function shall be used carefully as misinterpretation on the result may occur.

## ROTARY KNOB FUNCTION

Allocates a function to the rotary knob when the menus are not activated.

NONE	no function activated
HORIZ. SHIFT	adjusts the picture shift
GRID OFFSET	adjusts the grid offset
MODE	toggles the 3D display modes

LINK

Gives access to the wireless configuration of the CineMonitorHD 3DView RF.  
This menu is visible when WIRELESS RECEIVER input is selected.

REGION

**IMPORTANT:**  
It is illegal to use frequencies other than allowed in the territory where you are. This function is accessible only for operators traveling to different countries and wishing to fulfill the local regulation.

Allows choosing the localization USA / Europe / Japan in conformity with the following tables and local regulations.

USA / CANADA (complies with the FCC standard)				
CH.1	5160	CH.4	5220	CH.7 5765
CH.2	5180	CH.5	5240	CH.8 5785
CH.3	5200	CH.6	5745	CH.9 5805
CH.10	5825			

EUROPE / JAPAN (complies with the ETSI MIC standards)				
CH.1	5160	CH.4	5220	
CH.2	5180	CH.5	5240	
CH.3	5200			

FREE				
CH.1	5160	CH.9	5320	CH.17 5560
CH.2	5180	CH.10	5340	CH.18 5580
CH.3	5200	CH.11	5360	CH.19 5600
CH.4	5220	CH.12	5460	CH.20 5620
CH.5	5240	CH.13	5480	CH.21 5640
CH.6	5260	CH.14	5500	CH.22 5660
CH.7	5280	CH.15	5520	CH.23 5680
CH.8	5300	CH.16	5540	CH.24 5700
				CH.25 5720
				CH.26 5745
				CH.27 5765
				CH.28 5785
				CH.29 5805
				CH.30 5825
				CH.31 5845
				CH.32 5862,5

Frequencies in MHz

INFO BAR: ON / OFF

Displays or hides the information of the wireless reception in overlay on the top of picture zone.

CHANNEL: AUTO / 1 ... X

- AUTO
- CineMonitorHD 3DView RF and TitanHD select themselves the best free channel.
- 1 ... X
- Manual selection of a channel from 1 to X (varies with selected region).

## STRATEGY

### ALL CHANNELS

Sets all channels (default setting).

### LOWER CHANNELS

Selects the lower part of the band only.

### UPPER CHANNELS

Selects the upper part of the band only.

The same strategy must be selected on both the transmitter and the receiver.

Example using a 10 channels band:

UPPER CHANNEL	7, 8, 9, 10 are available
LOWER CHANNEL	1, 2, 3, 4, 5 are available

## MODE

Selection of P2P or Broadcast mode

For more information, read the previous sections "Wireless Specificity" and "Module Association".

### **IMPORTANT NOTE FOR BROADCAST MODE USE:**

Switch off the newly paired modules before pairing another one  
A maximum of 6 Rx can be paired with one Tx  
The latest paired Rx works also in P2P with the Tx

## ASSOCIATION

Allows to pair the transmitter and receiver.

For more information, read the previous section "Module Association".

## TECHNICAL

### HDMI MODE: CANON/NORMAL

Available when HDMI input is selected

Improves the video standard switching when shooting with a Canon DSLR.

### GPI

Assigns functions and trigger conditions to the 4 wired GPIs.

#### FUNCTION #

Assigns a function to the pin # of the GPI connector (J002)

Available functions: TALLY RED, TALLY GREEN, ZOOM, HORIZON, SWITCH INPUT, FOCUS HELPER, EXPOSURE

#### CONDITION #

Sets the trigger condition of the function #

Available conditions (depending on the function): NOT ACTIVE, FALLING EDGE, RISING EDGE, LOW STATE, HIGH STATE

#### REMOTE CONTROL (WIRELESS)

2 remote controls can also be sent by the TitanHD Tx (transmitter) to the CineMonitorHD 3DView RF. To use these 2 remote controls, you must set Function 1 (resp. Function 2) to GPI1 3DView RF (resp. GPI2 3DView RF).

## VOLTAGE ALARM

#### VOLTAGE DISPLAY: ON/OFF

#### FUEL READER (Anton-Bauer): ON/OFF

Displays constantly the input voltage from the power supply or the battery.

When a Logic Series Digital battery from AntonBauer is detected, the Fuel Reader also gives to the user the remaining percentage of the battery and the time to run (see page 8).

#### UNIT

Toggles between Volts, Percent and Minutes (percent and minutes only available with the FuelReader).

#### ALARM

When activated the battery pictogram is displayed in red if the voltage of the power supply goes under the threshold setting.

#### ALARM THRESHOLD

Sets the threshold value.

Under this value a security alert can inform the user when it is time to swap the battery on the monitor.

**POSITION**

Allows the user to place the tool in different position of the screen by using arrows and the rotating knob when USER is selected in POSITION sub menu. DEFAULT replaces the tool at the factory preset.

**REVERSE SCROLLING**

Reverses the scrolling direction in the menus.

**EXIT TEMPO**

Sets of the automatic exit temporization from SLOW to FAST

**LIGHTS****KEYBOARD**

Activates or deactivates the keyboard light (if available on the monitor). In AUTO, the keyboard light turns automatically on when a key is pressed.

**KEY DIMMER**

Dimming of the brightness of the keyboard light.  
It is possible to switch off completely light.

**LED DIMMER**

Dimming of the brightness of the power led.  
It is possible to switch off completely the led.

## **MEMORY**

### **MEM 1 ... MEM 4**

4 user memories per input are available to save user's configurations.

#### **SAVE**

Saves the current user set-up in the memory.

All configuration except INPUT SEL is stored in the memory, including picture and tools settings.

#### **RECALL**

Recalls the settings stored in the memory.

The standard settings a factory loaded in this memory, they will be replaced at the first SAVE from the user.

### **PRESET**

Sets the default values in the setting registers.

PRESET does not erase the user presets.

#### **PRESET ALL INPUTS**

Presets the active input and other inputs of the monitor.

#### **PRESET SELECTED INPUT**

Presets the active input only

# SERVICE & MAINTENANCE

## General

Please read carefully the chapter "TRANSVIDEO EQUIPMENT LIMITED WARRANTY" about 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".

## Useful tips

### Cleaning

The painting of the CineMonitorHD is resistant to general cleaners and solvents. Do not use abrasive products to clean your product.

The front glass is a high quality optical part. A metallic multi-layers vacuum deposit makes the anti-reflection coating. Do not use abrasive or acid cleaners. The microfiber cloth delivered with the CineMonitorHD is strongly recommended to clean the glass. Remove dust and particles of the glass before using the cloth. No liquid is normally necessary. If there is some dirt on the screen, it is possible to remove it with clean warm water.

The microfiber cloth collects grease particle in its structure. It is necessary to wash it when necessary with water and soap.

The microfiber cloth is orderable as spare part (refer to your local Transvideo dealer in case of need).

### Full reset

If needed, a full reset of the monitor may be performed as follows:

- ① Connect the monitor to a power source (monitor off).
- ② Press the adjust (ADJ) key
- ③ Switch on the monitor while keeping pressed the "adjust" key until the display shows "FULL RESET"

The monitor is back to its factory default settings. This procedure totally erases all user setup in the memories.

## Hardware, Software and Firmware

Basic monitor information is indicated during the startup on the display:

SOFT	main board software version (microcontroller #1)
FIRMWARE	main board firmware version
HARDWARE	main board hardware version
LOGO	graphical user interface version
LOAD MATRIX	colorimetry version

This information is useful to write down if trouble-shooting becomes necessary.

The complete list of software and firmware versions of all electronic boards may be found in MENU / HELP / MONITOR INFO.

## Updating your CineMonitorHD 3DView RF

All software and firmware updates are possible by the sole use of a USB key.  
The following procedure sets how to proceed to update your monitor.

**For CineMonitorHD 3DView RF with Software 12.xx only.**

### Step 1

Get the last software update package for your CineMonitorHD 3DView RF.  
An update package is a .zip file that contains softwares and firmwares that are compatible each other. It can be downloaded on our website for registered users by visiting [www.transvideo.eu/support](http://www.transvideo.eu/support). You can also ask it directly to your local Transvideo representative.

### Step 2

Uncompress the .zip using your archive utility software. Then paste **all** the files **at the root** of the USB key.

### Step 3

Plug in the USB key in the monitor by using the mini USB adapter (included with your product) and turn on the monitor.

### Step 4

Go to MENU / HELP and select UPDATE

### Step 5

The update starts. Do not turn off the monitor neither remove the USB key until the update ends.  
Follow the instructions on the screen.

### Step 6

Wait for 2 green leds and restart the monitor.

### Step 7

Go to MENU / HELP / MONITOR INFO and verify that the software and firmware versions match with the update package.



**Comments**

The update duration may vary between 3 minutes and 6 minutes depending of your hardware and files present on the USB key.

During the first startup following an update, the monitor automatically performs a backup of all firmwares and a full reset. It can take several seconds before your monitor reach its normal operation. You can visit our support section on our website for more information regarding monitor updates (registered users only).

**Precaution**

We advise you to format your USB key before an update to avoid hidden files problems. Do not rename files on the USB key.

## Calibration

The white point of the monitor is individually calibrated in factory for D65 and D56.

The calibration doesn't need to be performed except after some specific service operation as the replacement of the backlight unit or if you need to match a large inventory of your RainbowHD after hundreds hours of use.

To perform the calibration, you need to send the product to the factory. Fees may apply if needed.

## Product Return

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

① Ask for a RAN (Return Authorization Number)

Log in to our website using your user account and visit the Support section  
[www.transvideo.eu/support](http://www.transvideo.eu/support)

Or contact us by:

Email [service@transvideo.eu](mailto:service@transvideo.eu)

Fax +33 2 3260 1479

Tel +33 2 3232 2761

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 Then send the product to the following address:

TRANSDVIDEO  
ZI - Rue Francois Arago  
27130 Verneuil sur Avre  
France

User is responsible for shipping and insurance of the equipment as well as for any damage that may occur during transit.

It is strongly recommended to inform us of the Tracking Number of your shipment and the RAN so we may track your return while in transit.

# SPECIFICATIONS

## Common Characteristics

Inputs / outputs	1 x HD/SD SDI in (BNC) 1 x HD/SD SDI Rclk out (BNC) 1 x mini HDMI in 2 x HD/SD SDI RF out (BNC)	
Display type	AMLCD	
Pixels	Picture zone 1024 x 576	
Latency	Less than 5ms	
Color calibration	D65 ITU-R BT.709-5 D56	
Color space	Rec. ITU-R BT.709-5	
Power In / XLR4	XLR4 connector (-1, +4) 10 – 36 VDC	
Power Out / Phoenix 3pts (except 8" monitors)	1 GND	3 +12V out (500mA max) 4 Connect to GND
J001 / RS232	1 NC 2 RX 3 TX 4 NC 5 GND	6 GND 7 RTS 8 CTS 9 +12V out
J002 / GPI	1 to 6 Input (0 – 18v DC) low<2v DC, high>4v DC 7 to 9 GND	
Storage temperature	-40°C +80°C	
Operating temperature	-20°C + 55°C	

List of Standards per Input

HD SDI (SMPTE 292M)	1280x720p @ 24, 25, 29.97, 30 Hz (SMPTE 296M)
	1280x720p @ 50, 59.94, 60 Hz (SMPTE 296M)
	1920x1080i @ 50, 59.94, 60 Hz (SMPTE 274M)
	1920x1080psf @ 23.98, 24, 25, 29.97, 30 Hz (SMPTE 274M)
	1920x1080p @ 23.97, 24, 25, 29.94, 30 Hz (SMPTE 274M)
SD SDI (SMPTE 259M-C)	720x487i @ 60 Hz (SD SDI 525 - SMPTE 125M)
	720x576i @ 50 Hz (SD SDI 625 - ITU-R BT.601)
HDMI	720x480i @ 59.94, 60 Hz
	720x576i @ 50Hz
	720x480p @ 59.94, 60 Hz
	720x576p @ 50Hz
	1280x720p @ 50, 59.94, 60 Hz
	1920x1080i @ 50, 59.94, 60 Hz
	1920x1080psf @ 25, 29.97, 30 Hz
	1920x1080p @ 23.97, 24, 25, 29.94, 30 Hz

Specific Characteristics

8" wireless 3DView S3D monitor

Dimensions (l x h x d)	215 x 276 x 100 mm 8.5 x 10.9 x 3.9 inches
Weight	2120g, 4.7lbs
Power Consumption	29W
Contrast ratio	Max 900:1
Viewing angle	±85° H&V / ±80° H, +60/-80° V
Brightness	1000Nits

10" wireless 3DView S3D monitor

Dimensions (l x h x d)	256 x 304 x 95 mm 10.1 x 12.0 x 3.7 inches
Weight	2940g, 6.5lbs
Power Consumption	39W
Contrast ration	Max 600:1
Viewing angle	±80° H, ±65° V
Brightness	1000Nits

12" wireless 3DView S3D monitor

Dimensions (l x h x d)	298 x 339 x 95 mm 11.7 x 13.4 x 3.7 inches
Weight	3800g, 8.4lbs
Power Consumption	41W
Contrast ration	Max 600:1
Viewing angle	±80° H, +60/-80° V
Brightness	1000Nits

# TRANSDVIDEO 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.

Labor: For a period of TWO YEARS from the date of original purchase, labor 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.

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.

In order to obtain warranty service, contact the authorized Transvideo retail dealer from whom you purchased the product or contact the factory :

By phone +33 2 3232 2761

By fax +33 2 3260 1479

By email [service@transvideo.eu](mailto: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 damages 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.

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TRANSDVIDEO S.A.  
Zone Industrielle  
F-27135 Verneuil sur Avre  
Tel +33 2 3232 2761  
Fax +33 2 32 601479  
Email [info@transvideo.eu](mailto:info@transvideo.eu)

<http://www.transvideo.eu>  
<http://www.hd4dp.com>