

# transvideo



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

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# 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>HD</sup> <sub>8</sub> <i>3DView RF</i>	8" HD Wireless 3DView S3D Monitor
<i>CineMonitor</i> <sup>HD</sup> <sub>10</sub> <i>3DView RF</i>	10" HD Wireless 3DView S3D Monitor
<i>CineMonitor</i> <sup>HD</sup> <sub>12</sub> <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 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.

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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.

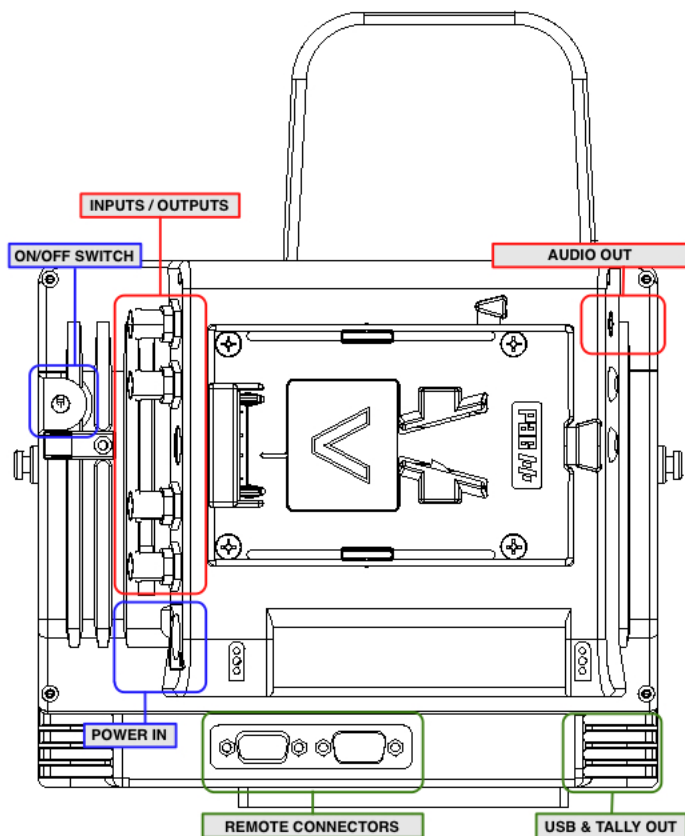


Figure 1: CineMonitorHD8 3DView RF back

## 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.

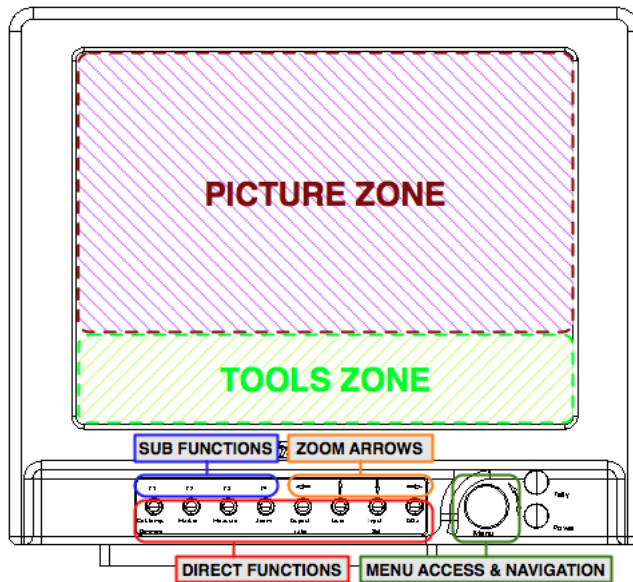


Figure 2: CineMonitorHD8 3DView RF front

## 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.

Fore 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".