

# transvideo 6.5" 16/9 Rainbow II™

The 6.5" 16/9 Rainbow II monitor has 4 knobs to control all its features. In this manual, knobs are numbered from top (1) to bottom (4 blue color). The knobs can be used by turning them (manual mode) or by pressing them (digital mode). The basics settings are achieved by simply turning the knobs, while more sophisticated functions are controlled by pressing them down.

## On/Off:

Press firmly for a second **knobs #2 & 3** together to turn the monitor ON or OFF.

## Basic Settings (manual mode):

Brightness  is adjusted by turning knob #1.

Contrast  is adjusted by turning knob #2.

Saturation  is adjusted by turning knob #3.

In NTSC, Hue  or Sharpness  are adjusted by turning knob #4.

In PAL Sharpness is adjusted by turning knob #4 (no Hue in PAL).

For Brightness, Contrast, Saturation and Hue, a green scale from -30 to +30 will appear in front of each knob indicating the selected setting.

For Sharpness the green scale is from 0 to 9.

The symbol of each parameter is displayed to the right of the green scale.

## Input Selection (digital mode):

Press knob #1 once, Video A is selected. Press knob #1 again, Video B is selected. Press knob #1 a 3rd time, Video Accessory is selected. Each selection name will be displayed in the top right corner of the screen for a few seconds.

## Full / Brdcast / U-Scan / Zoom Options (digital mode):

Press knob #2 to scroll through the various display modes. The words Full or Brdcast or U-Scan or Zoom will be displayed in front of knob #2 for a few seconds.

In Full mode there is no cropping of the image. In Broadcast mode a few lines of the active image are cropped all around. In UnderScan the monitor displays the full image plus the vertical interval.

In 4:3 all 4 modes are available. The Broadcast mode is not available in Anamorphic ratio. The Zoom mode is not available in 16/9. In 4:3 + Zoom the left & right sides of the image fill completely the screen while the top and bottom are cropped to preserve the ratio (the black letter boxed are removed). In Anamorphic + Zoom the top & bottom of the image fill completely the screen while the sides are cropped to preserve the ratio (the black letter boxed are removed).

## Switching between 4:3, 16/9 and Anamorphic (digital mode):

Press knob #3 to scroll through all 3 aspect ratios. The words 4:3 or 16/9 or Anamorphic will be displayed in front of knob #3 for a few seconds.

### Main Menu (digital mode):

Press knob #4 (blue) and the following menu will appear:  
Turn knob #4 in order to scroll through the menu.  
The function whose name is in red may be modified.  
The entire main menu is controlled by the sole knob #4.

Lock
Hue (in NTSC only)
Sharpness
Standard
Picture FX
VideoB 750MHz
Blue Color
Factory Preset
Exit

### 1/ Lock:

With the word Lock in red, press quickly on knob #4. A blue dot appears before the word Lock to show it is enabled. The Lock function disables all digital functions: pressing on any of the potentiometers will NOT produce any change. The potentiometers only operate by turning them to adjust the basic settings. The 6.5" 16/9 Rainbow II operates just like the 6.5" 16/9 Rainbow I. To unlock the monitor: press several seconds on the blue knob #4 until the menu is displayed, then scroll up by turning knob #4 until the word Lock is in red, press once on knob #4 to remove the blue dot before the word Lock.

### 2/ Hue and Sharpness:

In NTSC, while in the main menu, when the word Hue is in red, press once quickly on knob #4, a red scale is displayed in front of Hue. Hue may then be set from -30 to +30 by turning knob #4.

In NTSC or PAL, while in the main menu, when the word Sharpness is in red, press once quickly on knob #4, a red scale is displayed in front of Sharpness. Sharpness may then be set from 0 to 9 by turning knob #4.

In NTSC, you can choose to have knob #4 control Hue or Sharpness in manual mode. This means that after exiting the Main Menu, by turning knob #4 it will either adjust the Hue or the Sharpness.

**Knob #4 for Hue:** with the word Hue in red, press several seconds on knob #4. A blue dot will appear before the word Hue indicating that it is now allocated to this adjustment.

**Knob #4 for Sharpness:** with the word Sharpness in red, press several seconds on knob #4. A blue dot will appear before the word Sharpness indicating that it is now allocated to this adjustment.

### 3/ Standards:

The 6.5" 16/9 Rainbow II can be set in two NTSC standards (4.43 and 3.58). US NTSC is 4.43. It can also be set in three PAL standards (M, N or BG), and in SECAM. When in the main menu, with the word Standard in red, press knob #4 once quickly and the various standards will be displayed on the screen. Scroll with knob #4 until the standard of your choice is in red, and press again on knob #4. A blue dot will appear in front of the standard currently displayed.

#### 4/ Picture FX:

Horizontal or Vertical Flips can be done independently or simultaneously. When in the main menu, with the words Picture FX in red, press **key #4** once quickly and various flip options will be displayed on the screen. Scroll with **key #4** until the flip of your choice is in red, and press again on **key #4**. A blue dot will appear in front of the selected flips.

Monitor Reverse: The angle of view of the monitor is symmetrical left and right. The vertical angle of view is not symmetrical (see specs).

If the monitor is installed above eyes-level, so that the user must look up at it, setting the monitor in the "Monitor reverse" mode will allow to hang the monitor upside down and use the best angle of view.

This feature is also useful to left-handed users in order to have the controls on the left side of the monitor.

Monitor Auto-Reverse: when activating this function, the image will be automatically reversed when the monitor is turned upside down. This feature is especially useful to body-mount operators.

#### 5/ VideoB 75Ω / Hi-z:

Video B input features a Video out. The auto-termination may be deactivated. When in the main menu, with the words VideoB in red, press **key #4** once, the words 75Ω are in blue: the auto-termination is activated.

Press **key #4** once again, the words Hi-z are in blue: the termination is disabled.

#### 6/Blue Check:

This function is a help to calibrate video cameras. When in the main menu, with the words Blue Check in red, press **key #4** once. A blue dot appears before the words Blue Check when this function is active.

#### 7/Factory Preset:

When in the main menu, with the words Factory Preset in red, press **key #4** once. A red moving scale appears. Brightness, Contrast, Saturation (and Hue in NTSC), are back to the factory settings (0 on the scales, 3 for Sharpness).

#### Video B Outputs and Hirose 6:

Video B is an input on BNC and a straight output on a 2nd BNC. The Hirose 6 carries power in/out along with video in or out. The H6 is used for power out and video in when a receiver is installed on the monitor. In this case, the monitor can be switched between 3 video inputs (A, B and C). The H6 is used for power out and video out when a transmitter is installed on the monitor. In this case the video out of the H6 is the same as Video B out on BNC. The monitor must be switched to Video A or B. If set on C (ACC) a black screen is displayed.

## TECHNICAL SPECIFICATIONS

3 Inputs:	2 Composite (BNC), 1 Composite (Hirose 6)
2 Outputs:	1 Automatic loop through (BNC) 1 Video B out (Hirose 6)
Nominal Levels:	Composite, 1V / 75Ω
LCD Screen: Useful diagonal Number of sub pixels Number of pixels Matrix Pixel arrangement Contrast ratio Viewing angle Brightness	6.5" 16/9 (14.7 cm) 1200 (H) x 234 (V) 400 (H) x 234 (V) Active TFT RGB Stripe Optimal = 60 +/- 65° (H) + 50°-65° (V) SuperBright model: typ. 900 NIT* High-Brightness model: typ.420 NIT*
Mechanic: Dimensions in mm in inches Weight	163 (l) x 100 (h) x 58.5 (d) 6.4 (l) x 3.9 (h) x 2.3 (d) 715 g , 1.6 lbs
Power Input Power Consumption Power Connectors Accessory Connector	+ 10 to 36v DC typ. 13.2 W XLR 4 pins (-1, +4) Hirose 6 (1: Video in C Gnd, 2: Video C in, 3: DC in/out 1.5Amp max, 4: DC Gnd 5: Video B out Gnd, 6: Video B out) Separate H6 cables should be used for Video In or Video Out.
Operating temperature	-30°C + 65°C

\* These values vary with voltage input

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Warning: Like all equipment including a liquid crystal display, this monitor should not be exposed to extremely low temperatures (see specs above).