transvideo 5" Rainbow II™

The 5" Rainbow II monitor has 4 knobs to control all its features.
In this manual, knobs are numbered from top to bottom 1 through 4.
Knob #4 is blue.
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** simultaneously 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 SH 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 / Brdcst / U-Scan Options (digital mode):
Press **KNOB #2** once, the image is displayed in Full. Press **KNOB #2** again, the image is displayed in Broadcast mode (a few lines are cropped all around) to display a "clean" image. Press **KNOB #2** a 3rd time, the image is displayed in UnderScan. The words Full or Brdcst or U-Scan will be displayed in front of knob #2 for a few seconds.

Switching between 4:3, 16/9 and Anamorphic (digital mode):
Press **KNOB #3** once, the image ratio is 4:3. Press **KNOB #3** again, the image ratio is 16/9. The words 4:3 or 16/9 will be displayed in front of **KNOB #3** for a few seconds. If the Anamorphic Option is installed, pressing **KNOB #3** a 3rd time will set the ratio to Anamorphic.

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 75Ω/HI-Z**
> **BLUE CHECK**
> **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 5" Rainbow II operates just like the 5" 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 5" 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 **KNOB #4** once quickly and various flip options will be displayed on the screen. Scroll with **KNOB #4** until the flip of your choice is in red, and press again on **KNOB #4**.
A blue dot will be appear in front of the selected flips.

- Monitor Reverse: The angle of view of the monitor is symetrical left and right. The vertical angle of view is not symetrical (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 usefull 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 **KNOB #4** once, the words 75Ω are in blue: the auto-termination is activated. Press **KNOB #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 **KNOB #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 **KNOB #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 Outputs / Integrated Format Converter:

Video B offers a straight output on BNC. The Hirose 6 features a Processed Video out (pin 6). For example: if the input is 4:3 and the monitor is set on 16/9, the Hirose 6 output will be in 16/9. If the Anamorphic option is installed the Hirose 6 will output a 16/9 or anamorphic "unsqueezed" image. The same goes for the Full / Brdcst / U-Scan modes.

TECHNICAL SPECIFICATIONS

3 Inputs:	2 Composite (BNC), 1 Composite (Hirose 6)
2 Outputs:	1 Automatic loop through (BNC) 1 Processed Video out (Hirose 6)
Nominal Levels:	Composite, 1V / 75Ω
LCD Screen: Useful diagonal Number of sub pixels Number of pixels Matrix Pixel arrangement Contrast ratio Sight angle Brightness	 5" (12.6 cm) 960 (H) x 234 (V) 320 (H) x 234 (V) Active TFT RGB Stripe Optimal = 60 +/- 65º (H) + 40º/-60º (V) SuperBright model: 700 NIT* High Brightness model: typ.320 NIT*
Mechanic: Dimensions in mm in inches Weight	 136 (l) x 100 (h) x 57 (d) 5.3 (l) x 3.9 (h) x 2.25 (d) 620 g , 1.25 lbs
Power Input Power Consumption Power Connectors Accessory Connector	+ 10 to 36v DC typ. 13 W XLR 4 pins (-1, +4) Hirose 6 (2 Video in, 3 DC in/out: 1.5Amp max, 6 Video out processed, 1, 4 & 5 Grnd)
Operating temperature	-º30C + º60C

* These values vary with voltage input   01/05

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