transvideo®

6" CineMonitor IIIA™

Instruction Manual

DEAR CUSTOMER:

Thank you very much for purchasing a Transvideo liquid crystal display multistandard monitor. Manufactured with the latest technologies, Transvideo monitors meet the highest standards of quality and performance.

It is our priority to offer integrated solutions to your equipment needs. If there is any suggestions or comments you may have on Transvideo monitors, please do not hesitate to contact Transvideo France or your local Transvideo representative by mail, by fax or email.

WARRANTY:

This equipment is covered by a 1-year warranty on parts and labor. It only covers failure due to defects in material and workmanship which may occur during normal use. The 6" Cinemonitor III includes a Liquid Crystal Display. Even though it is designed to operate in harsh environment, some shocks may result in permanent damages to the LCD screen. Damages caused by shocks or by falls are not covered under the present warranty, since they are not "normal use".

The warrantor shall not be liable for any incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty.

Please contact Transvideo or your local Transvideo representative for any questions you may have regarding this warranty.

Please fill-in the enclosed warranty card and send it by mail to Transvideo France or to your local Transvideo representative.

WARNING:

To prevent the risk of fire or electrical shock, do not expose this product to rain or any type of moisture. Do not remove covers , as opening covers may expose you to dangerous voltages and other risks. Opening covers will void your warranty.
Repairs must be performed by an authorized service center.

USEFUL HINTS:

Transvideo monitors use an active matrix of the highest quality currently available (TFT Technology). Lateral sight angle is comparable to that of a traditional CRT monitor. Vertical sight angle is narrower due to the polarization of the matrixes.
Sight angles:
+/- 65° Horizontally. +65/-40° Vertically

Anti-reflective coating on the glass minimizes glare. Protected by tempered glass, Transvideo monitors are highly shock resistant.

Always store and use your Cinemonitor III within the temperature range specified.   Storage temperature: -40°C to +80°C, Operating:-30°C to +65°C.

Your monitor is delivered with a cleaning fabric (ref 918TS0039). A special cleaning spray is available (ref 918TS0038). The spray and fabric may be purchased as a kit (ref 918TS0043). This spray may also be used on professional motion picture lenses. It protects the glass from fingerprints and acts as a water-repellant for several hours after application. Grease pencils and China markers can be used to write temporarly on the monitor glass.
Never use an abrasive product to clean the monitor.

Operating temperature range is -30°C to +65°C.

Power requirements:
The CineMonitor III requires 9v to 36v DC, through the XLR4 male plug located at the rear (-1 +4).
Please contact your local Transvideo representative for cable adapters.

Accessory Plug:
Hirose 10 female connector:
 1: Ground, 2: Video out, 3: DC in 9 to 30v, 6: Video in, 7: Y, 8: C, 9: & 10: unused.
NB: pins 4 & 5 are reserved.

Brightness:
A few minutes of warm up are necessary to achieve maximum brightness.

INSTRUCTIONS:

Your CineMonitor III features 3 metal potentiometers to have immediate access to the settings of Brightness, Contrast and Saturation (see p 8 for Tint).

The 3-position toggle switch allows quick selection of 3 different video inputs:
A: Select Video input A, B: select video input B, AC: select Accessory Video input.

Your CineMonitor III is a software intensive equipment. It may be reconfigured by changing any of the parameters accessible through the electronic menus.
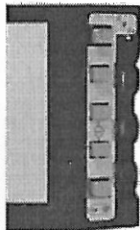
Key #1
Key #2
Key #3
Key #4
Key #5

Green LED: Power on, Video in.
Flashing green LED: Power on, No Video.
Red LED: Stand-By: Power in but monitor turned OFF at the keypad.

A vertical black banner on the outside of the page indicates the menu level in which the functions described may be found. The various Levels are also numbered on the Electronic Menus Tree provided pages 10 & 11.

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ON/OFF : Pressing simultaneously key #3 and #4 will switch the monitor ON/OFF. A few minutes of warm up are necessary to achieve maximum brightness.

EXIT: While into the electronic menus, pressing quickly key#5 in front of the word EXIT will return you to the previous level. If the same key is pressed for a longer time, you will return to Level 0.
If no keys are pressed for 6 seconds the monitor will automatically exit from the menus.
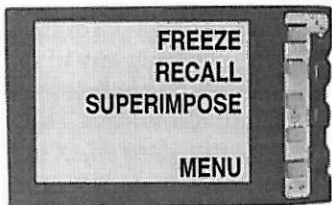
Functions of Level 0 are always accessible, without entering the Main Menu.
FREEZE: When pressing Key #1, the image will freeze and the letter F appears in the top right corner of the screen. Pressing again key #1 will return to the live image.

RECALL: After returning to the live image, pressing Key #2 will Replay the latest image frozen. The letter R will appear in front of key #2. Pressing again Key #2 will return to the live image

SUPERIMPOSE: After returning to the live image, pressing Key # 3 will superimpose the live image with the latest image frozen. The letter S will appear in front of key #3. Pressing again Key #3 will return to the live image

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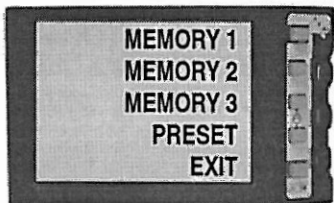MAIN MENU: Press key #5 to access the Main Menu.
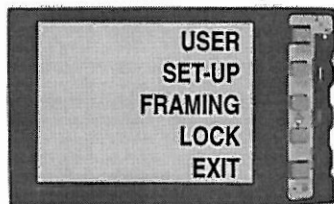
The **MAIN MENU** provides access to the 3 submenus: USER, SET-UP *(p9)*, Framing *(p16)*, as well as to the LOCK function *(p18)*.

> USER
> SET-UP
> FRAMING
> LOCK
> EXIT

USER MENU: Functions accessed through this menu are likely to be needed or changed often.

> MEMORY
> TINT
> SHARPNESS
> DIMMER
> EXIT

MEMORY MENU: Up to 3 image settings can be saved in memory and recalled at will. Press Key #1 to access MEMORY#1. Then choose SAVE (key#1) to load settings in MEMORY#1. After saving parameters in any Memory, press Key #2 to RECALL this MEMORY.

> MEMORY 1
> MEMORY 2
> MEMORY 3
> PRESET
> EXIT

Settings of the manual potentiometers (Brightness, Contrast & Saturation) are not memorized. Memories are preserved when the monitor is switched off. The factory PRESET can always be recalled.

L E V E L 1

L E V E L 2

L E V E L 3

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TINT: To adjust the Tint in NTSC, press the keys in front of + or -.
Tint varies from -30 to +30

BLUE CHECK: The Blue Check function is a help to calibrate the settings of a video camera. When the Blue Check mode is on a blue dot appears before the word BLUE CHECK

SHARPNESS: Default setting is 0 and may be adjusted from -4 to +4. Increasing the SHARPNESS is especially usefull to enhance details and help focus pulling.
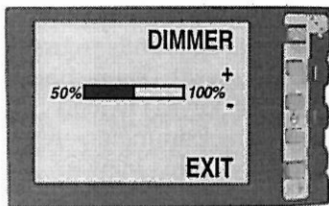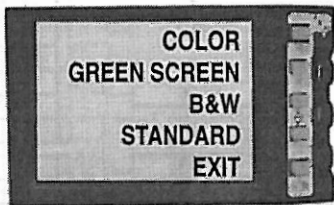

DIMMER:
This function allows to adjust the intensity of the screen's fluorescent backlight. This backlight is responsible for most of the power consumption of your monitor. Reducing the backlight when possible will save your battery.
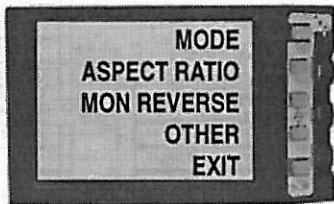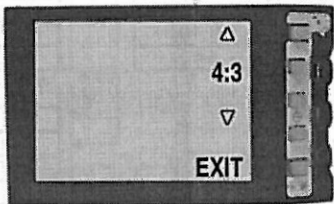
The **SET UP MENU** provides access to 3 functions (MODE, ASPECT RATIO, MONITOR REVERSE), and 1 submenu: OTHER.

MODE MENU:
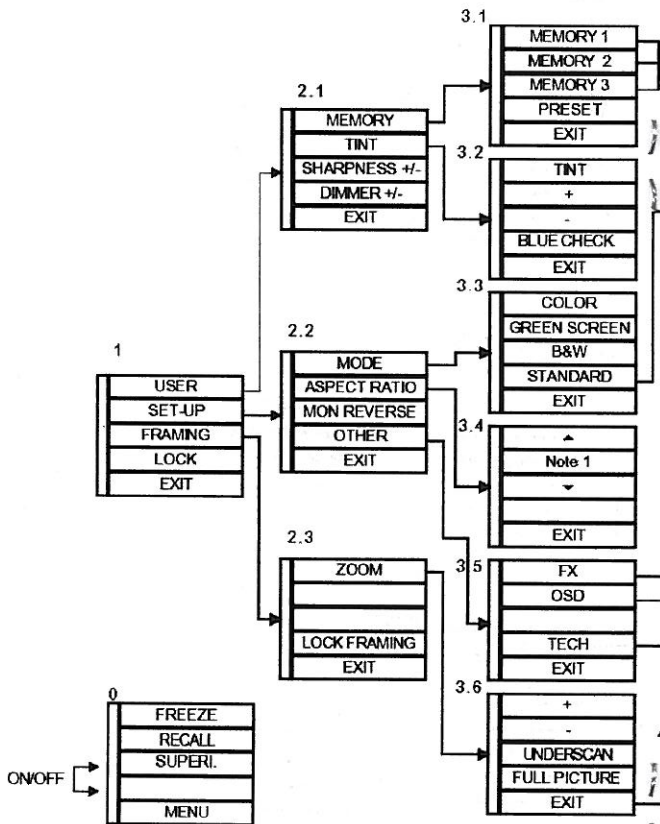Mode options are: COLOR, GREEN SCREEN or BLACK & WHITE. A blue dot will appear before the mode selected.
STANDARD: Press on Key #1 or #3 to scr oll between NTSC 3.58 (USA) or NTSC 4.43, SECAM, PAL BG (Europe)or PAL M or PAL N.
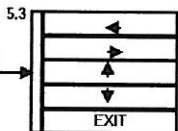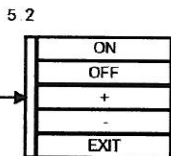
ASPECT RATIO:
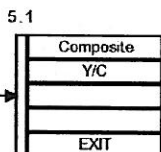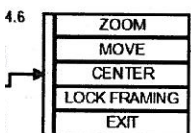Press on Key #1 or #3 to scroll between the various aspect ratios: 4:3, 4:3 + 16/9 marker, Anamorphic 2.35, 16:9 + marker and 16:9.

In 4:3 mode, the monitor displays the <u>entire</u> image, including the very last lines that are cut out by other monitors.

3.1
MEMORY 1
MEMORY 2
MEMORY 3
PRESET
EXIT

2.1
MEMORY
TINT
SHARPNESS +/-
DIMMER +/-
EXIT

3.2
TINT
+
-
BLUE CHECK
EXIT

3.3
COLOR
GREEN SCREEN
B&W
STANDARD
EXIT

1
USER
SET-UP
FRAMING
LOCK
EXIT

2.2
MODE
ASPECT RATIO
MON REVERSE
OTHER
EXIT

3.4
▲
Note 1
▼

EXIT

2.3
ZOOM

LOCK FRAMING
EXIT

3.5
FX
OSD

TECH
EXIT

3.6
+
-
UNDERSCAN
FULL PICTURE
EXIT

0
FREEZE
RECALL
SUPERI.

MENU

ON/OFF

transvideo ®

6" CINEMONITOR III
SOFTWARE SYNOPSIS

4.1

SAVE
RECALL
EXIT

4.2

▲
Note 3
▼
EXIT

4.3

▲
Note 2
▼
EXIT

5.1

Composite
Y/C
EXIT

4.4

DISP. VOLTAGE
DISP. SIZE
DISP. STD
EXIT

5.2

ON
OFF
+
-
EXIT

4.5

ACCES. INPUT
VOLTAGE ALERT
AGC
EXIT

4.6

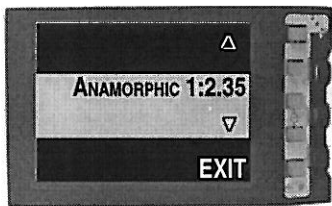| ZOOM |
|------|
| MOVE |
| CENTER |
| LOCK FRAMING |
| EXIT |

5.3

◄
►
▲
▼
EXIT
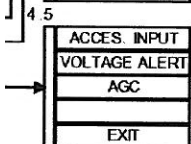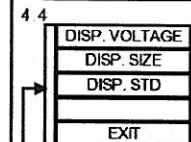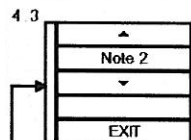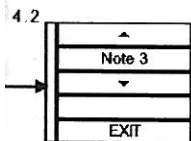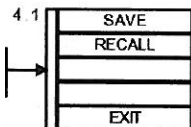
Note 1 : Ratio =4:3
or=4:3+Marker 16:9
or=Anamorphic 1:2.35
or =16:9 + Marker
or =16:9

Note 2 : NORMAL
or =HOR. FLIP
or=VERT.FLIP
or=AUTOFLIP

Note 3 : PAL BG
or =PAL M
or =PAL N
or =NTSC 3.58
or =NTSC 4.43
or =SECAM

In **Anamorphic 1:2.35 ratio**, the monitor unsqueezes an anamorphic image and inserts horizontal black letter boxes to fill the rest of its 4:3 screen.

In **16:9 and in 16:9+ marker ratios,** the monitor fits the entire 16:9 image on the screen and fills the rest of it with horizontal black letter boxes. In **16:9+ marker ratio,** the vertical dotted lines constitute the 14:9 marker. This indicates the part of the 16:9 image that would be received on a conventional 4:3 TV screen.
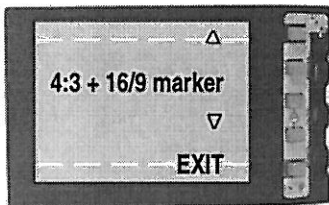
In **4:3 + 16/9 marker ratio**, the monitor displays the 4:3 image with horizontal dotted lines indicating the 16/9 extraction.

In <u>4:3, 16/9 and Anamorphic</u> ratios, the Framing menu allows to choose between Full Picture and Underscan (see p16).

After choosing Zoom, Framing sub-functions such as Center and Move become available.
In 16:9 + marker and in the 4:3 + 16/9 marker ratios, Full Picture and Underscan options are available. As soon as Zoom is activated, the markers will be removed from the image.
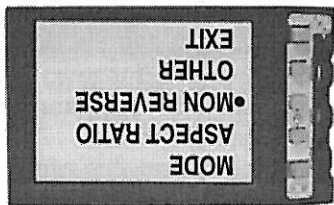
MONITOR REVERSE: Allows to hang the monitor upside down to change the angle of view. Because the angle of view is wider from above, when looking at the screen from underneath, one may want to physically return the screen and reverse the image (see FX) to maximize the viewing angle. In this mode, the keypad is now on the left of the screen. It allows left-handed users to reach for the keys without obstructing the screen. When Monitor Reverse is active, a blue dot appears before the words MON REVERSE.
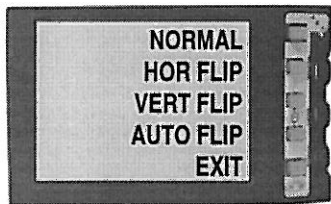
**OTHER MENU**: The Other Submenu provides access to 3 functions: Special FX, On Screen Display and to the Technical settings.

FX MENU:
This menu allows to flip the image top/bottom or left/right. It is possible to select both Horizontal and Vertical Flips. AutoFlip: when the monitor is turned upside down, the image automatically follows within 2 seconds. Flips are especially useful to puppeteers, commentators, prompters, and special FX using mirrors. A blue dot appears before the words of the active mode.

NB: flips only become effective after exiting entirely from the electronic menus (hold the Exit key down for a few seconds).

NORMAL
HOR FLIP
VERT FLIP
AUTO FLIP
EXIT

DISP VOLTAGE
DISP SIZE
DISP STD
EXIT
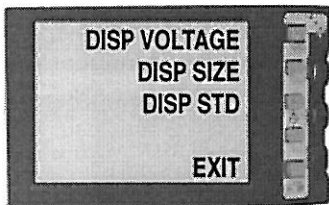
On Screen Display MENU:
DISP VOLTAGE: displays in the bottom left corner the voltage at the input of the monitor (see Voltage Alert setting p15)

DISP SIZE: displays the Aspect Ratio (see p 9) selected in the bottom center of the screen.

DISP STD: displays the color standard (NTSC, PAL or SECAM) in the bottom right corner.
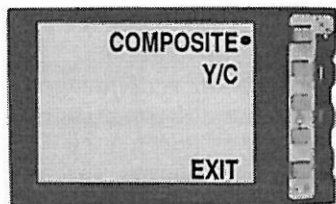
TECH MENU:
Provides access to two technical settings ACCESSORY INPUT and VOLTAGE ALERT.

AGC: AUTO GAIN CONTROL may be turned ON or OFF. When ON a blue dot will appear before the letters AGC. Default AGC setting is ON.

ACCESSORY INPUT MENU:
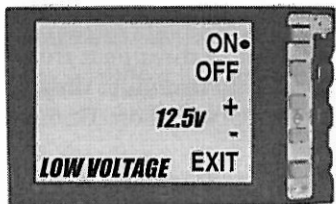The Hirose 10 accessory connector accepts 2 types of video signals: Composite, or YC (S-video).

A blue dot appears in front of the signal selected.

VOLTAGE ALERT:
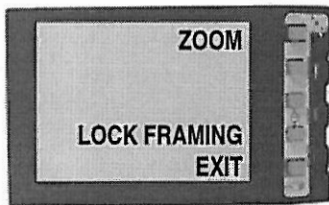When activated, a blue dot will appear in front of ON. By pressing keys #3 (+) or 4 (-), the voltage displayed in blue will vary. If set at 12.5v, when the power input drops under 12.5v, the red words LOW VOLTAGE will flash on the screen.

ZOOM

LOCK FRAMING
EXIT

FRAMING MENU:
Press key#1 to access to
the Zoom functions.

Lock Framing (key #4)
prevents accidental
changes in the framing
(blocks Zoom, Move & Center).

+
-
UNDERSCAN
FULL PICTURE
EXIT

ZOOM:
allows to zoom in on the
center of the image in
progressive steps.
As soon as the image is
zoomed-in once (press
Key #1 once), after

exiting to the previous menu, the Move and Center
options become available (see p17). In 16/9, at the
tightest zoom, the horizontal black letter boxes
completely disappear from the screen.
In Anamorphic 1:2.35 ratio, at the tightest zoom, the
horizontal black letter boxes almost disappear from
the screen. This function is mostly usefull to display
the center of a frame as large as possible on the 6"
Cinemonitor III.

After Zooming in/out, selecting Full Picture (key #4)
or Underscan (key #5) at any time returns to display-
ing the image full screen without cropping.

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NB: When zooming, cropping occurs in 4:3 on the left/right sides and top/bottom, in 16/9 and Anamorphic cropping occurs on the left/right sides only.
In 4:3+marker and in 16/9+maker ratios, the markers are removed as soon as the Zoom function is activated. Selecting Full Picture will re-establish the markers.
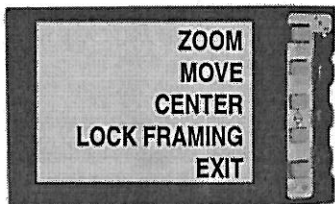
MOVE & CENTER: These options will only appear after zooming and exiting from the Zoom menu.

ZOOM
MOVE
CENTER
LOCK FRAMING
EXIT

MOVE allows to reframes the image on the screen by moving a **zoomed-in image** left/right or top/bottom (in plain 4:3), or Left/right only in plain 16/9 and in Anamorphic.

←
→
↑
↓
EXIT

CENTER will recenter the video image in the screen and cancel the Move commands.

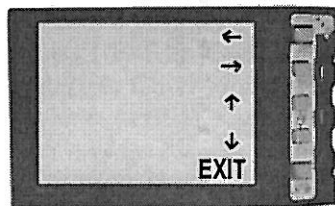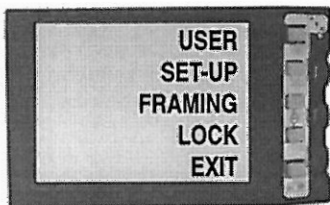LOCK FRAMING prevents accidental changes in the framing (blocks Zoom, Move & Center).

| USER |
| SET-UP |
| FRAMING |
| LOCK |
| EXIT |

The **LOCK** function blocks access to the menus. The word LOCK will appear in red flashing, if one attempts to hit any key. The FREEZE /RECALL and SUPERIMPOSE functions are desactivated. To desactivate the LOCK function, keep Key #5 pressed down for 5 seconds the word UNLOCK will be displayed in red. This will allow one to make some changes. However, unless the blue dot is removed from the word LOCK, next time one exits entirely from the menus, the monitor will be locked again.

POWER CABLES:

The CineMonitor III requires 9v to 36v DC, through the XLR4 male plug located at the rear (-1 +4). Average power consumption is 14W (1.2 Amp at 12v, 590 mAmp at 24v).

The following **power cables** are available from your local Transvideo representative:

Camera to CineMonitor III power-only cables:
Arriflex 12v Fisher 11 pin male (-9 +11).
Arriflex 24v: RS 3 pin male (-1 +2).
Panavision 24v: Lemo 2 pin male/female (-2 +1).
Aaton 12v camera systems: Lemo 6 pin male (-1 +4) or Lemo 8 pin male (-1 +4) or Amphenol 9 pin female (-1 +5 or -6 +9).

Battery to CineMonitor III cables:
Aaton & Arriflex 12v: XLR4 female (-1 +4)
Arriflex 24v: XLR 3 pin male (-1 +2).
Panavision 24v: XLR 3 pin male (-2 +1).
Video cameras 12-16v: XLR 4 pin female (-1 +4)
Anton-Bauer 2 pin.

Power & Video cables are also available.

Cables must be checked by an authorized technician. Transvideo shall not be liable for any damage caused by the use of products not supplied by Transvideo.

TECHNICAL SPECIFICATIONS

Inputs:	2 Composite inputs on BNC, auto-terminated, including one with Automatic loop through (BNC). 1 Composite input on Hirose 10. 1 Y/C input on Hirose 10 (Y: pin 7, C: pin 8)
Nominal Levels:	Composite: 1V / 75Ω Components Y : 1V / 75Ω Components C : 300Vcc (burst level)
LCD Screen: Useful diagonal Number of sub pixels Number of pixels Matrix Pixel arrangement Contrast ratio Sight angle Brightness	5.7" (14.6 cm) 230400 320 (H) x 240 (V) x RGB Active TFT RGB Stripe 450:1 +/- 70º (H) +70º/-50º (V) SuperBright model: 1200 NIT* High Brightness model: 800 NIT*
Mechanic: Dimensions in mm Dimensions in inches Weight	183.5 (l) x 112 (h) x 70 (d) 7-3/16" (l) x 4-7/16" (h) x 2-6/8" 960 g, 2 lbs.
Power Input Power Consumption Power Connectors Accessory Connector Operating temperature	+ 10 to 36v DC typ. 13 W (1.1Amp at 12v DC, .550Amp at 24v) XLR 4 pins (-1, +4) Hirose 10 (1: Ground, 2: Video out processed, 3: 10v to 36v DC in, 6: Video in, 7: Y, 8: C, 9: & 10: unused. Pins 4 & 5 are reserved) -30ºC + 65ºC

*These values vary with brightness input

Maximum Zoom increase per ratio and standards:

	PAL BG	NTSC 3.58	NTSC 4.43	PAL M	PAL N	SECAM
4:3	110%	110%	110%	110%	110%	140%
16/9	120%	120%	120%	120%	120%	140%
Anam	170%	170%	170%	130%	170%	163%

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

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