



REAR PANEL

INPUTS

You may connect 2 composite-video and Stereo audio signals to **INPUT 1** and **INPUT 2** and/or 2 S-video signals. Select the desired INPUT with the INPUT SELECT button on the front panel.

NOTE: If both S-video and composite-video inputs are connected, the S-video input will have priority.

OUTPUTS

You can have all 3 types of outputs connected: composite-video, S-video and component video. All 3 outputs will be active simultaneously.

DC-IN connector

Connect the power supply that is packed with the TR-1000Pro converter. Power supplies are available for 110/120 Volts and 220/240 Volts to match your local voltage.

NOTE: if you need to replace the power supply, make sure you get one that has the same specifications of the original power supply. Read SPECIFICATIONS for details. Connecting an incorrect power supply may cause malfunction or damage to the unit.

GENLOCK INPUT

The TR-1000Pro can be used to synchronize a video signal to an external source connected to the **GENLOCK IN** connector. Signal will be resynchronized and vertical and horizontal adjustments may be used.

NOTE: when the GENLOCK input is connected, the output will automatically change to the same system as the Genlock input signal (NTSC to NTSC, PAL to PAL, etc).

GENLOCK OUTPUT

The **GENLOCK OUT** can be used to create a loop of multiple TR-1000Pros, allowing synchronization of multiple signals. For example: if you are synchronizing the Video 1 In to the Genlock In, you may connect the Genlock Out of the TR-1000Pro to the Genlock In of a second TR-1000Pro, and use it's Video input to synchronize an extra Video signal.

75-ohm switch

Set it to OFF when the Genlock Out connector is connected. Otherwise and for normal operation, it must be set to ON.

SPECIFICATIONS

Input Systems:	NTSC 3.58, NTSC 4.43, PAL B-G-D-K-I, PAL-M, PAL-N, SECAM
Output Systems:	NTSC 3.58, NTSC 4.43, PAL B-G-D-K-I, PAL-M, PAL-N, SECAM
Input Signals:	2 Video Inputs (BNC-type jacks) 2 S-Video Inputs (4-pin mini DIN) 2 Stereo Audio (Right & Left) Inputs 1 Genlock Video Input (BNC-type jack)
Output Signals:	1 Video Output (BNC-type jack) 1 S-Video Output (4-pin mini DIN) 1 Component Video (R-Y, B-Y, Y) Output (BNC-type jacks) 1 Stereo Audio (Right & Left) Output 1 Genlock Video Output (BNC-type jack)
TBC:	built-in Time-Base Corrector for signal synchronization
Genlock function:	w/variable vertical and horizontal synchronism.
Line Conversion:	525 to 625 lines and vice versa
Field Conversion:	60 to 50 fields and vice versa
Vertical Resolution:	800 lines and better
Horizontal Resolution:	500 lines and better
Bar Generator:	Selectable, generates color bars in NTSC 3.58, NTSC 4.43, PAL B-G-D-K-I, PAL-M, PAL-N, SECAM
Built-in Video processor w/reset button:	corrects color saturation, tint, brightness, contrast
Power Supply:	15-20 VDC, 450 mAmps or more, center negative (available for 110/120 Volts & 220/240V)
Dimensions:	Desktop model: 17 (W) x 2 (H)* x 8.75 (D) inches (*includes detachable feet) With optional rack-mounting brackets: 19 (W) x 1.75 (H) x 8.75 (D) inches
Weight:	5 lbs

ACCESSORIES

SUPPLIED

Instructions booklet,
Triple RCA-cable (Video, stereo audio),
2 RCA to BNC adapters
S-video (4-pin mini-DIN) cable
110/120 or 220/240 Volts power supply

OPTIONAL

Side brackets for rack mounting and necessary hardware
220/240 Volts or 110/120 Volts additional power supply

WARRANTY

1-year for parts and labor

OPERATION & DESCRIPTION OF CONTROLS & SWITCHES

INPUT SELECT

Select INPUT 1 if you wish to convert/process the signal connected to INPUT 1 on the back panel, or INPUT 2 is you wish to convert/process the signal connected to INPUT 2. See description of REAR panel for different input connections.

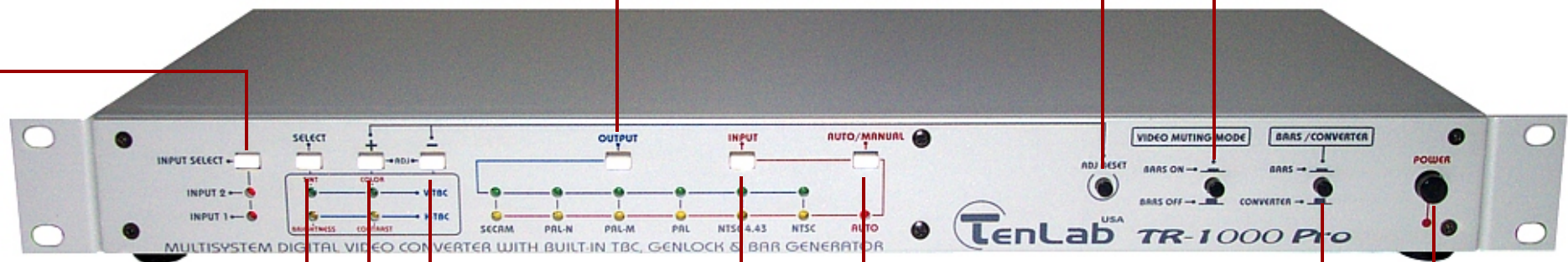
NOTE: If both S-video and composite-video inputs are connected, the S-video input will have priority.

ADJ RESET Press ADJ RESET after you have increased/decreased one of the picture adjustments and it will reset it to the normal value.

NOTE: The ADJ RESET button will reset the value of the parameter which LED is ON at that moment. For example, to reset the COLOR value to normal, press ADJ RESET while the COLOR LED is on.

OUTPUT switch
Press the OUTPUT button until the desired output TV system LED lights.

BARS/CONVERTER switch
Select BARS to use the TR-1000Pro as a multisystem bar generator. Select CONVERTER to use the TR-1000Pro as a video converter/processor



SELECT button and PICTURE ADJUSTMENTS

Press the SELECT button to select the type of adjustment you wish to perform:

TINT: to adjust the Tint or Phase of the color.

COLOR: to increase / decrease Color saturation

BRIGHTNESS: to increase/decrease Brightness of the picture

CONTRAST: to increase/decrease Contrast of the picture

+/- ADJUSTMENTS

Once the LED for the selected picture adjustment lights, press the +/- buttons to increase/decrease value

TBC adjustments

When connecting a Genock input signal, it is possible to adjust the Vertical and Horizontal timing of the Video input signal.

V-TBC: adjusts the vertical timing of the signal

Press the SELECT button until both green LEDs next to the V-TBC name light, and then adjust using +/- buttons.

Press ADJ RESET to go back to normal values.

H-TBC: adjust the vertical timing of the signal.

Press the SELECT button until both yellow LEDs next to the H-TBC name light, and then adjust using +/- buttons

Press ADJ RESET to go back to normal values.

NOTE: when the GENLOCK input is connected, the output will automatically change to the same system as the Genlock input signal (NTSC to NTSC, PAL to PAL, etc).

INPUT and AUTO/MANUAL switches

Set the AUTO/MANUAL input switch to AUTO and the input system will be automatically detected.

Set it to MAN and you will need to manually select the system by pressing the INPUT button until the desired input system LED lights.

VIDEO muting mode

When input signal is deficient or there is no signal at all, the TR-1000Pro will automatically perform video muting. Select BARS-on if you wish to have color bars signal when video muting is performed. Select BARS-off if you wish to remove the color bars and have black video when video muting is performed.

POWER button
Press to turn power ON or OFF