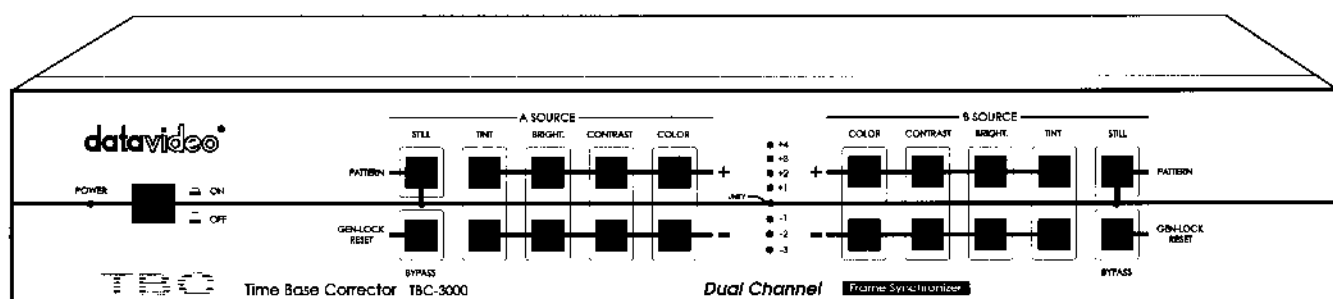


datavideo®

INSTRUCTION MANUAL

DUAL CHANNEL TIME BASE CORRECTOR TBC-3000



Professional Time Base Corrector (TBC) with broadcast-quality features:

- Dual Channel frame synchronization with full frame memory
- Color bar pattern Generator
- Dual channel digital color processor
- Wide bandwidth, 8-bit video resolution
- True still frame capability
- 4 : 2 : 2 sampling rate

VHS

S VHS

VHS G

S VHS G

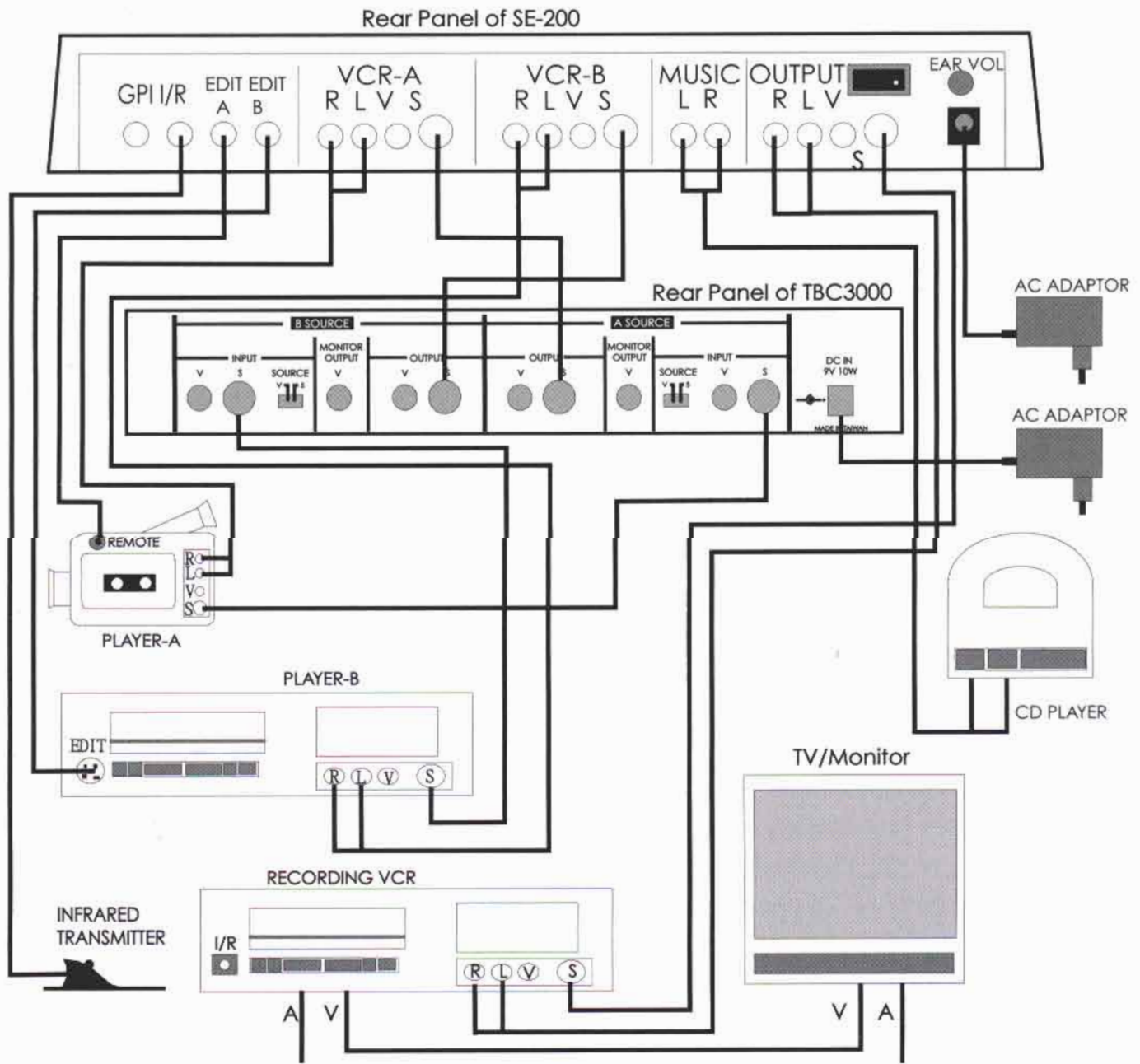
Video 8

Hi 8

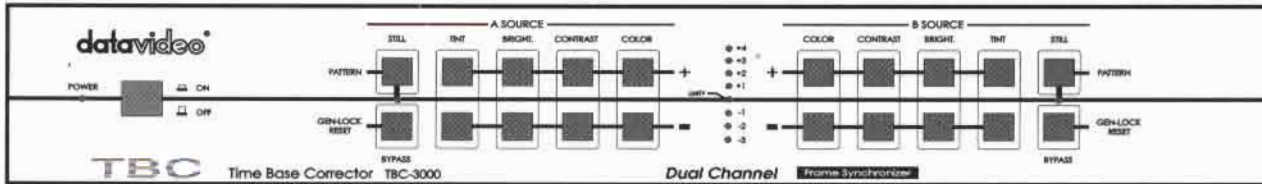
Hook -up the TBC-3000 with Datavideo SE-200 Integrated Editing Center

When two video sources have identical signal timing, they are "synchronous", and can be viewed simultaneously in the same video field (like a TV screen). This is not possible with non-synchronous video sources. A Time Base Corrector (TBC) is used to synchronize two non-synchronous video sources, and it is usually a very expensive piece of equipment. Datavideo, however, provides a low cost TBC with high performance (model TBC-3000), which is easy to hook up with the SE-200 for professional video effects like A/B Roll, A/B Dissolve and A/B Animation.

Typical installation of SE-200 with TBC-3000 Dual Channel Time Base Corrector and two non-synchronous video sources



Front Panel Controls:



1. POWER ON/OFF SWITCH

Turns main power to TBC-3000 on and off.

2A. PATTERN SWITCH

The TBC-3000 can generate color bar test pattern on both source channel A and B. To generate a test pattern, press the Pattern key and hold it for 3 seconds. To remove test pattern, press the PATTERN switch again.

NOTE: The PATTERN switch is the same as the STILL switch. Pressing and releasing this switch without holding it for 3 seconds activates the "Still" function (see below). Only when this switch is pressed and held for 3 seconds will the "Pattern" function be activated.

2B. STILL SWITCH (see note above). Pressing and immediately releasing this switch "freezes" the source video image.

3A. GEN-LOCK RESET SWITCH. If color in the video image appear to be incorrect when you first turn on the TBC-3000's power, press this switch and hold it for 3 seconds to reset Gen-Lock and correct the color.

NOTE: The GEN-LOCK RESET switch is the same as the BYPASS switch. Pressing and releasing this switch, without holding it for 3 seconds activates the "Bypass" function (see below). Only when this switch is pressed and held for 3 seconds will the "Gen-Lock Reset" function be activated.

3B. BYPASS SWITCH (see note above). Pressing and immediately releasing this switch bypasses all color processing adjustments made to the source video image.

4. COLOR SWITCHS (+ and -) adjust the Chroma level of the source video.

5. CONTRAST SWITCHS (+ and -) adjust the Luminance level of the source video.

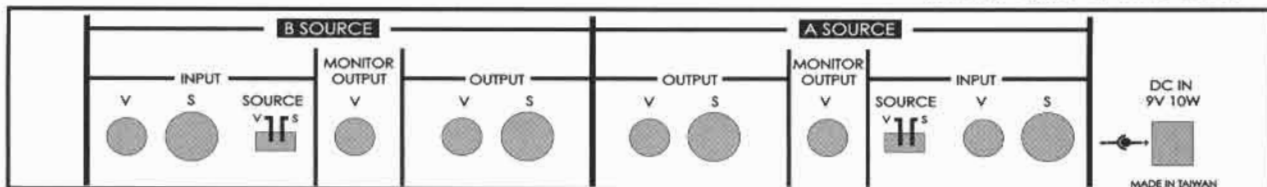
8. BRIGHTNESS SWITCHS (+ and -) adjust the Black level of the source video.

9. TINT SWITCHS (+ and -) adjust the Chroma Tint of the source video. (active only with the NTSC video system).

Note: The LED level indicators will light up as you make adjustments to color, contrast, brightness, and tint. These LEDs will go out a few seconds after you have finished making adjustments.

Back Panel Controls:

Rear Panel of TBC-3000



1. Composite video input jack for Source B.

2. S-VHS video input jack for Source B.

3. S-VHS/Composite video input select switch for Source B.

4. Source B monitor out (for previewing Source B).

5. Composite video output jack for Source B.

7. S-VHS video output jack for Source B.

9. S-VHS video output jack for Source A.

10. Source A monitor out (for previewing Source A).

11. S-VHS/Composite video input select switch for Source A.

12. Composite video input jack for Source A.

13. S-VHS video input jack for Source A.

14. DC 9V power input jack.

Specifications:

INPUTS

1 S-VHS Source B	Y/C in: 4-pin 75 ohm DIN connector
1 Composite Source B	1.0 Vp-p 75 ohm RCA connector
1 S-VHS Source A	Y/C in: 4-pin 75 ohm DIN connector
1 Composite Source A	1.0 Vp-p 75 ohm RCA connector

OUTPUTS

1 S-VHS Source B	Y/C out 4-pin 75 ohm DIN connector
1 Composite Video Source B	1.0 Vp-p 75 ohm RCA connector
1 S-VHS Source A	Y/C out: 4-pin 75 ohm DIN connector
1 Composite Source A	1.0 Vp-p 75 ohm RCA connector
1 Source B Monitor Out	1.0 Vp-p 75 ohm RCA connector
1 Source A Monitor Out	1.0 Vp-p 75 ohm RCA connector

CONTROLS

Brightness	+/- 10%
Contrast	+/- 3dB
Color	+/- 3dB
Tint (only available with NTSC system)	+/- 5°
Frequency Response	4.5 MHz +/- 3 dB
DG, DP	+/- 2 %, 1°
S/N Ratio	> 50 dB

PROCESSING

Still	Field
Component	8-bit, 4:2:2; Y: 13.5 MHz
Correction Range	Dual channel full frame TBC
Pattern Generator	color bar pattern

GENERAL

Power	DC 9V 10W AC Adaptor
Ambient Temperature	32° - 131° F (0° -55° C)
Ambient Humidity	Less than 90 %
Dimensions	420 (W) x 240 (D) x 60(H) mm
Weight	3.2 Kg
Accessories	RCA/RCA and S-Video/S-Video cables