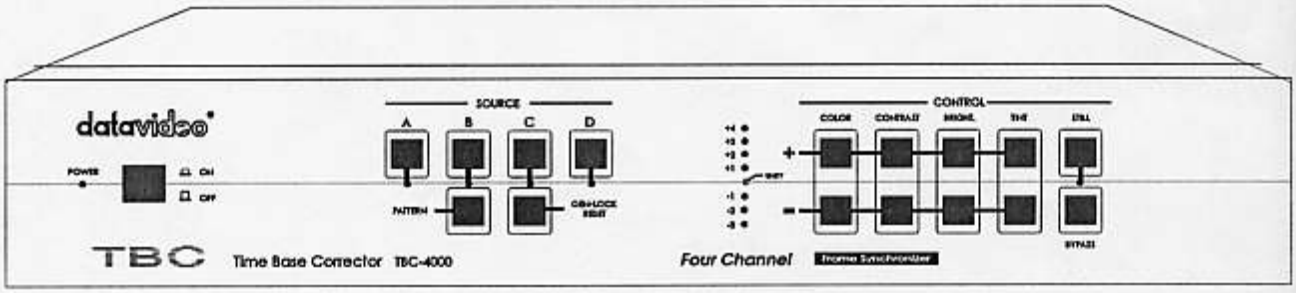
datavideo®

INSTRUCTION MANUAL

FOUR CHANNEL
TIME BASE CORRECTOR TBC-4000



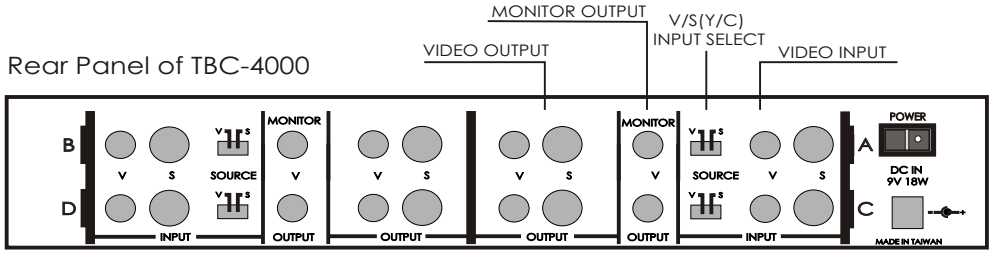
Professional Time Base Corrector (TBC) with broadcast-quality features:

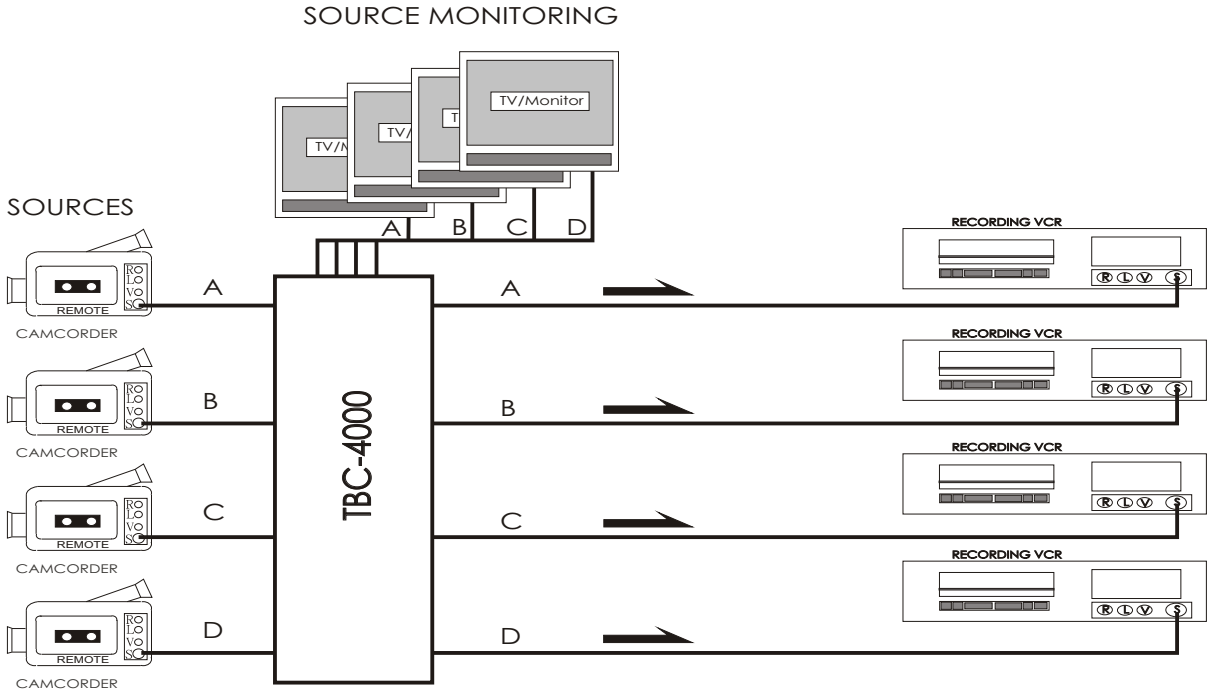
- Four Channel frame synchronization with full frame memory
- Four channel color bar pattern Generator
- Four channel digital color processor
- Wide bandwidth, 8-bit video resolution
- YUV 4 : 2 : 2 sampling rate
- Compatible with VHS, VHS-C, S-VHS, S-VHS-C Video 8, Hi 8 and Digital 8 format

VHS
S VHS
VHS C
S VHS C
Video 8
Hi 8

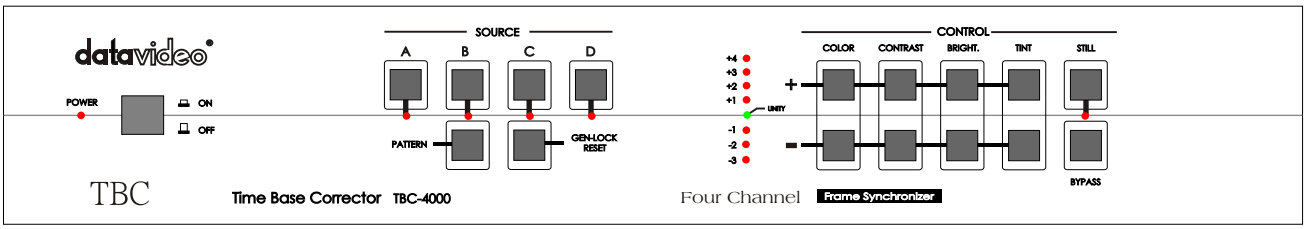
Installation Diagram

Rear Panel of TBC-4000





Front Panel Controls:



1. **POWER ON/OFF SWITCH**
   Turns main power to TBC-4000 on and off.

2. **SOURCE SWITCHES**
   Selects one of four source channels A to D to adjust the level of color, contrast,brightness,etc. The source LED will light up when source is selected.

3. **PATTERN SWITCH**
   The TBC-4000 can generate color bar test pattern on four source channels A to D. To generate a test pattern, press the Pattern key and hold it for 2 seconds. To remove test pattern, press the PATTERN switch again.

4. **GEN-LOCK RESET SWITCH.** If color in the video image appears to be incorrect when you first turn on the TBC-4000's power, press this switch and hold it for 2 seconds to reset Gen-Lock and correct the color.

5. **STILL SWITCH**. Pressing this switch "freezes" the

6. **BYPASS SWITCH** . Pressing this switch bypasses all color processing adjustments made to the source video image.

7. **COLOR SWITCHES** (+ and -) adjust the Chroma level of the source video.

8. **CONTRAST SWITCHES** (+ and -) adjust the Luminance level of the source video.

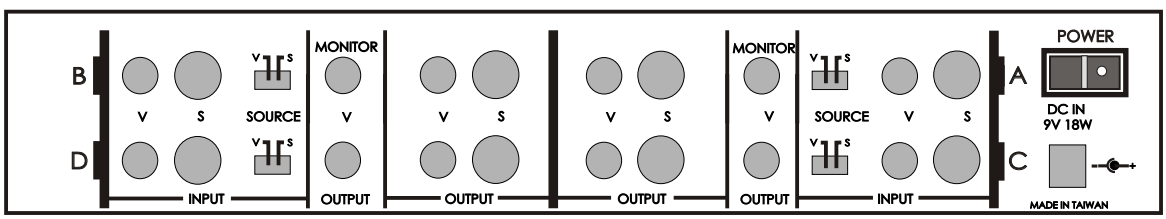
9. **BRIGHTNESS SWITCHES** (+ and -) adjust the Black level of the source video.

10. **TINT SWITCHES** (+ 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 in a few seconds after you have finished making adjustments.

Back Panel Controls:

Rear Panel of TBC-4000



1. Composite video input jacks for Source A to D.

2. S-VHS video input jacks for Source A to D.

3. S-VHS/Composite video input select switches for Source A to D.

4. Source A to D monitor output jacks (for previewing Source A to D).

5. Composite video output jacks for Source A to D.

6. S-VHS video output jacks for Source A to D.

7. DC 9V power input jack.

Specifications:

INPUTS

4 S-VHS Sources A to D	Y/C in: 4--pin 75 ohm DIN connector
4 Composite Sources A to D	1.0 Vp-p 75 ohm RCA connector

OUTPUTS

4 S-VHS Sources A to D	Y/C out 4-pin 75 ohm DIN connector
4 Composite Video Sources A to D	1.0 Vp-p 75 ohm RCA connector
4 Sources A to D 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 (S input)	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	Four channel full frame TBC
Pattern Generator	color bar pattern

GENERAL

Power	DC 9V 18W AC Adaptor (included)
Ambient Temperature	32° - 131° F (0° -55° C)
Ambient Humidity	Less than 90 %
Dimensions	420 (W) x 240 (D) x 60(H) mm
Weight	3.7 Kg
Accessories	RCA/RCA and S-Video/S-Video cables (included)