COMPONENT TBC/SYNCHRONIZER

- Betacam/MII Component Video Inputs & Outputs
- Y/C Inputs & Outputs
- **Digital Recursive Noise Reduction**
- Single & Dual Channel Configurations
- 3-Line Adaptive Comb Filter
- Component 4:2:2 Processing
- **Optional RGB I/O**
- Film Mode Strobe Effect

The DPS-290 Component Transcoding TBC/Synchronizer is perfect for all tape formats, including U-Matic, U-Matic-SP, VHS, S-VHS, and Hi-8. Available in sin-gle and dual channel configurations, the DPS-290 provides composite (NTSC), Y/C (S-Video) and component (Betacam/MII) inputs and outputs. Because all outputs are active simultaneously, the DPS-290 also functions as a transcoder, making it particularly well suited for inter-format editing and duplication applications.

A three line adaptive comb filter decoder provides wide bandwidth com-posite video performance, making the DPS-290 equally useful for synchronizing camera and satellite feeds or for decoding composite video sources into component, Y/C signals or RGB signals. Designed for use in mission critical applications, a composite video bypass relay



SPECIFICATIONS Composite Video Input

(NTSC) 1 Vp-p

Y/C Input (S-Video)

Y Input 1 Vp-p

C Input 286 mVp-p burst level

Component Analog Video Inputs

Betacam CAV

714 mVp-p 75 Ohm Y Signal

R-Y, B-Y (Pr, Pb) Signals 700 mVp-p 75 Ohm

MII CAV 714 mVp-p 75 Ohm

Y Signal

R-Y, B-Y (Pr, Pb) Signals 486 mVp-p 75 Ohm

Ref. Video Input 1 Vp-p (loop or 75 Ohm) D.O.C. Input

Composite Video Output

(NTSC) 1 Vp-p

Y/C Output (S-Video)

Y Output 1 Vp-p

C Output 286 mVp-p burst level

Component Analog Video Outputs

Betacam CAV

Y Signal 714 mVp-p 75 Ohm R-Y, B-Y (Pr, Pb) Signals 700 mVp-p 75 Ohm

MII CAV

714 mVp-p 75 Ohm Y Signal R-Y, B-Y (Pr, Pb) Signals 486 mVp-p 75 Ohm Advanced Sync Output 2 Vp-p, 32 Lines Adv TTL or Contact Closure GPI Freeze Trigger



instantly routes input and output signals together in the event of power loss or system failure.

Standard features include digital recursive chrominance/luminance noise reduc-tion, 3-dimensional RF dropout compensation and red/blue color balance controls.

Special effects include freeze frame, freeze field, variable strobe and film mode strobe. Front panel controls and a back-lit LCD status display provide easy access to all proc amp and configuration functions including CAV output levels, vertical blanking width, Y/C horizontal delay, Y/C vertical delay and DNR modes. A 10-event scene memory permits all front panel settings to instantly be stored or recalled.

Remote Control Port RS-232 (9,600/38,400 BPS)

Performance Specifications

Bandwidth (all modes) 0-5.5 MHz (+0.5/-3 dB)

Signal-to-Noise

(component modes) 58 dB Differential Phase < 2° < 2% Differential Gain 1% K Factor (all modes) Residual Time <15 nS Base Error Correction Window Infinite

Proc Amp Controls

Video Level $\pm 3 dB$ Black Level ± 20 IRE Chroma Leve 6 dB ± 45° Hue Phase Horizontal Position ± 1µs

Color Balance Controls

R-Y Shift ± 20% B-Y Shift $\pm 20\%$

Timing Controls

Genlock Coarse ± 4 µs

Genlock Fine ± 360°

Y/C Horizontal Delay -560 nS to + 490 nS Y/C Vertical Delay ± 1/-2 Lines

Power Requirements

100 - 240 VAC Input Voltage Input Power (max.) 70 Watts

Physical Characteristics

Dimensions 17" x 1.75" x 20" (WHD) (43.2 cm x 4.4 cm x 50.8 cm)

Weight 13.25 lbs (6 kg)

0-40°C (32 to 104 degrees F) Operating Environ. Spec. Temperature 10-40 °C (50 to 104 degrees F) Storage Temperature -40-75°C (-40 to 167 degrees F)



ORDERING INFORMATION

DPS-290 Single Channel Component TBC/Synchronizer
DPS-290D Dual Channel Component TBC/Synchronizer
RGB-290 RGB I/O Option for DPS-290

RC-2000 8-Channel Desktop Remote Control Unit RC-2001 Multi-Channel Remote Control Unit

DPS-RS-L Rack Slide Kit

DPS-RS-EXT Rack Slide Extensions for Racks > 25" Deep

TBC/SYNCHRONIZER

DPS-235/235D

- Composite & S-Video Inputs & Outputs
- Single & Dual Channel Configurations
- 3-Line Adaptive Comb Filter
- Component 4:2:2 Processing
- Compatible With RC-2000/RC-2001 Remotes
- Film Mode Strobe Effect
- Compatible with DPS Personal Series Control Software
- GPI Freeze Trigger
- Advanced Sync Output

The DPS-235 TBC/Synchronizer is an ideal general purpose TBC/Synchronizer. Perfect for all tape formats, the unit is avail-able in both single and dual channel configurations. Because the DPS-235 employs a three-line adaptive comb filter Y/C separator, the unit can also be used effectively as a video synchronizer without any loss of high frequency picture detail.

Front panel controls provide easy access to all proc amp and configuration functions including wide/narrow vertical blanking, genlock termination, Y/C vertical delay, Y/C horizontal delay and comb filter mode

selection. Red and blue color balance controls make it easy to adjust for color balance errors. A three event scene memory enables all front panel settings to be instantly stored or recalled. Special effects include freeze frame, freeze field (1-3 selectable), variable strobe and film mode strobe which provides an ersatz film look by simulating 24 FPS (3:2 pull down) video.

The DPS-235 is compatible with the DPS RC-2000 and RC-2001 multi-channel remote controls as well as with DPS Personal Series TBC control software.

SPECIFICATIONS Specifications and designs are subject to change without notice

Video Inputs

NTSC Video Input 1Vp-p

S-Video Input

Y Input 1Vp-p C Input 286 mV

Ref. Video Input Loop or 75 Ohm, 1Vp-p GPI Freeze Trigger TTL or Contact Closure

Video Outputs

NTSC Video Output 1Vp-p

S-Video Output

Y Output 1Vp-p

C Output 286 mVp-p burst level

Advanced Sync O/P 2Vp-p

Bandwidth

S-Video mode 5.5 MHz NTSC mode >5.0 MHz

Performance

Signal-to-Noise

(S-Video mode) >58 dB Differential Phase <2° Differential Gain <2% K Factor (All Modes) 1% Residual TB Error <15 nS Correction Window Infinite

Serial Data Input RS-232 Levels, 9,600/31,250 BPS

Proc Amp Controls

 $\begin{array}{lll} \mbox{Video Level} & \pm \ 3 \ \mbox{dB} \\ \mbox{Black Level} & \pm \ 20 \ \mbox{IRE} \\ \mbox{Chroma Level} & -40 \ \mbox{to} \ +6 \ \mbox{dB} \\ \mbox{Hue Phase} & \pm \ 45^{\circ} \end{array}$

Timing Controls

Genlock Coarse $\pm 4 \mu S$ Genlock Fine $\pm 360^{\circ}$

Y/C Horizontal Delay Y/C Vertical Delay Horizontal Position +1/-2 Lines $\pm 1 \mu S$

Power Requirements

Input Voltage 100-240 VAC Input Power (Max.) 40 Watts

Physical Characteristics

Dimensions 17"x 1.75" x 16" (WHD) (43.2cm x 4.4cm x 40.6 cm)

Operating Environment 0 - 40 °C (32 to 104°F) Spec. Temperature 10 - 40° C (50 to 104°F) Storage Temp. -40 - 75 °C (-40 to 167 °F)

ORDERING INFORMATION

DPS-235 TBC/Sychronizer

DPS-235D Dual Channel TBC/Sychronizer
VT2600WB Second Channel Option for DPS-235

DPS-RS-S Rack Slide Kit

DPS-RS-EXT Rack Slide Extensions for Racks > 25" Deep