SP-10D

Multi-Format Analog Video Processor/ProcAmp/TBC/Format & Standards Converter

The SP-10D is a broadcast quality video processor that functions as a ProcAmp, a TBC, a format converter and a standards converter for composite video, s-Video (Y/C), and RGB/component video (YUV or RGBS) video signals. The original and processed images can be viewed simultaneously with the split screen output enabled

FEATURES

Bandwidth - 5MHz (−0.5dB)

Multi-Format Capability - Selected input is simultaneously output as composite video, s−Video, and component video (YUV or RGBS)

Multi-Standard - NTSC 3.58/4.43, PAL−B/D/G/H/I/M/N and SECAM

Standards Conversion - The unit converts any input video standard to any other video standard (NTSC 3.58/4.43, PAL−B/D/G/H/I/M/N, and SECAM)

ProcAmp Features - Contrast, brightness, color, hue, H/V sharpness, level/gain (R, G, B, R−Y, & B−Y)

Built-in Time Base Corrector

Screen Splitter Feature - Simultaneous display of original video and processed video on a single screen (adjustable)

Timing Controls - Video delay, H/V delay, & SCH phase

Switching Synchronization Option - Synchronizes either to external reference or internal genlock sync generator

Looping Sync Input

Selectable Sync Signal Termination

10-Bit Digital Processing

Multiple Memory Locations - Store 15 multiple switches as presets (salvos)

Flexible Control Options - Front panel and RS−232

Front Panel Lockout

Worldwide Power Supply - 100−240V AC

TECHNICAL SPECIFICATIONS

INPUTS:	1 composite video, 1Vpp/75Ω on a BNC connector; 1 Y/C 1Vpp/75Ω (Y), 0.3Vpp/75Ω (C) on a 4−pin connector; 1 component video Y/R−Y/B−Y or RGB/S, 1Vpp/0.7Vpp/0.7Vpp/75Ω (or RGB/S) on BNC connectors; 1 genlock with loop, 75Ω/Hi−Z on BNC connectors
OUTPUTS:	1 composite video, 1Vpp/75Ω on a BNC connector; 1 Y/C 1Vpp/75Ω (Y), 0.3Vpp/75Ω (C) on a 4−pin connector; 1 component video Y/R−Y/B−Y or RGB/S, 1Vpp/0.7Vpp/0.7Vpp/75Ω (or RGB/S) on BNC connectors
VIDEO STANDARDS:	PAL−B/D/G/H/I/M/N, NTSC−3.58/4.43, SECAM
DIGITAL RESOLUTION:	10 bits
BANDWIDTH (−0.5dB):	5MHz
DIFF. GAIN:	1%
DIFF. PHASE:	1Deg
K-FACTOR:	0.4%
S/N RATIO:	60dB
LUMA NON-LINEARITY:	1%
CHROMA/LUMA DELAY:	<15ns
MEMORY:	Non−volatile memory for storing 16 setups
CONTROLS:	Front−panel and RS−232: contrast, brightness, video gain, color, hue, H/V sharpness, SCH phase, delay, H/V shift; R, G, B, R−Y, B−Y level; screen splitter (process to bypass); freeze; panel lock
POWER CONSUMPTION:	Universal, 100−240V AC, 50/60Hz, 27VA
INCLUDED ACCESSORIES:	Power cord, null−modem adapter
Product Dimensions	19" x 7.20 x 1U (43.6cm x 18.30cm x 4.36cm) W, D, H
Product Weight	2.8kg (6.1lbs) approx
Shipping Dimensions	55.00cm x 27.60cm x 10.70cm (21.65" x 10.87" x 4.21") W, D, H
Shipping Weight	3.4kg (7.5lbs) approx

Composite
Video Player

CV

s-Video
Player

Y/C

Betacam
Video Player
(Y, R-Y, B-Y
Source)
or

RGB

Camera
(RGBS
Source)

RGBS

Split Image
Display

CV

s-Video
Display

Y/C

Composite Video
Display

CV

Plasma
Display

RGBHV

Genlock
Source

Next
Genlocked
Unit

RS-232