



## SP-12HD

Multi-Format Analog & HD-SDI Video Processor/ProcAmp/TBC/Format Converter



The SP-12HD is a broadcast-quality video processor that functions as a ProcAmp, TBC and format converter for composite video, s-Video (Y/C), component video (YUV) and HD-SDI video signals. The original and processed images can be viewed simultaneously with the split screen output enabled.

### FEATURES

- **Bandwidth** - 0.5dB to 5MHz (SDTV), to 10MHz (EDTV), to 30MHz (HDTV) fully loaded.
- **HDTV Compatible.**
- **Multi-Format Capability** - Selected standard definition input is simultaneously output as composite video, s-Video, component video (YUV or Y/R-Y/B-Y) and SDI or selected high definition input is simultaneously output as component video (YUV or Y/R-Y/B-Y) and HD-SDI.
- **Multi-Standard** - PAL-B/M/N, NTSC-3.58.4.43, SECAM & SD/HD (analog & digital).
- **ProcAmp Control** - Contrast, brightness, H/V sharpness, level/gain and full range of color control in YUV & RGB color spaces.
- **Time Base Corrector.**
- **Screen Splitter** - Simultaneous display of original video and processed video on a single screen in composite and YUV (for an SD source) or YUV (for an HD source).
- **Timing Control** - H & V chroma delay.
- **Resolution** - 10 bits.
- **Memory Locations** - Stores 16 multiple switches as presets.
- **Control** - Front panel and RS-232.
- **Front Panel Lockout.**
- **Worldwide Power Supply** - 100-240V AC.
- **Standard 19" Rack Mount Size** - 1U, rack "ears" included.



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### TECHNICAL SPECIFICATIONS

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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: Y/R-Y/B-Y (1Vpp/0.7Vpp/0.7Vpp)/75Ω on BNC connectors; 1 SDI: SMPTE-259M, SMPTE-292M, SMPTE-344M, ITU-R BT.601 on a BNC connector.
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: Y/R-Y/B-Y (1Vpp/0.7Vpp/0.7Vpp)/75Ω on BNC connectors; 2 SDI: SMPTE-259M, SMPTE-292M, SMPTE-344M, ITU-R BT.601 on BNC connectors.
BANDWIDTH:	0.5dB to 5MHz (SDTV), to 10MHz (EDTV), to 30MHz (HDTV), fully loaded.
S/N RATIO:	60dB.
INPUT VIDEO STANDARDS:	CVBS (SDTV): PAL-B/D/G/H/I/M/N, NTSC-3.58/4.43, SECAM; EDTV: 480p/60, 576p/50; HDTV: 720p/50, 720p/59.94, 720p/60, 1080i/50, 1080i/59.94, 1080i/60, 1080p/23.98, 1080p/24, 1080p/25, 1080p/29.97, 1080p/30, 1080psf/23.98, 1080psf/24, 1080psf/25, 1080psf/29.97 and 1080psf/30.
OUTPUT VIDEO STANDARDS:	Same as input standard with these exceptions: for a CVBS input signal, the output standard can be only PAL-B or NTSC-3.58 depending on input frame rate; for EDTV or HDTV input signals, the CVBS output signal is not available.
DIGITAL RESOLUTION:	10 bits.
LUMA NON-LINEARITY:	1%.
CHROMA / LUMA DELAY:	<15ns.
CONTROLS:	Front-panel and RS-232: contrast, brightness, video gain, color, hue, H/V sharpness, H/V chroma-luma shift; R-Y, B-Y level; screen splitter (process to bypass); panel lock.
INDICATORS:	Multi-character display on the front panel.
POWER SOURCE:	Universal, 100-240V AC, 50/60Hz, 22VA max.
DIMENSIONS:	19" x 7" x 1U W, D, H, rack mountable.
WEIGHT:	2.6kg (5.7lbs) approx.
ACCESSORIES:	Power cord, null-modem adapter, rack "ears".