SP-11D

Multi-Format & Multi-Standard Video Processor

RGBS/YUV | RGBHV | CV | YC | SDI | RS-232

The **SP-11D** is a broadcast quality, video processor that functions as a proc-amp, a TBC, a format converter and a standards converter for composite video, s-Video (Y/C), RGB/component video (YUV or RGBS) and SDI video signals. The original and processed image can be viewed simultaneously with the split screen output enabled.
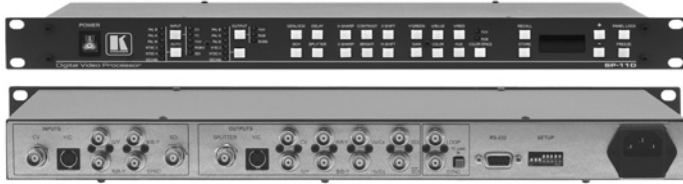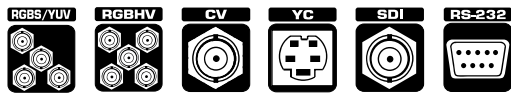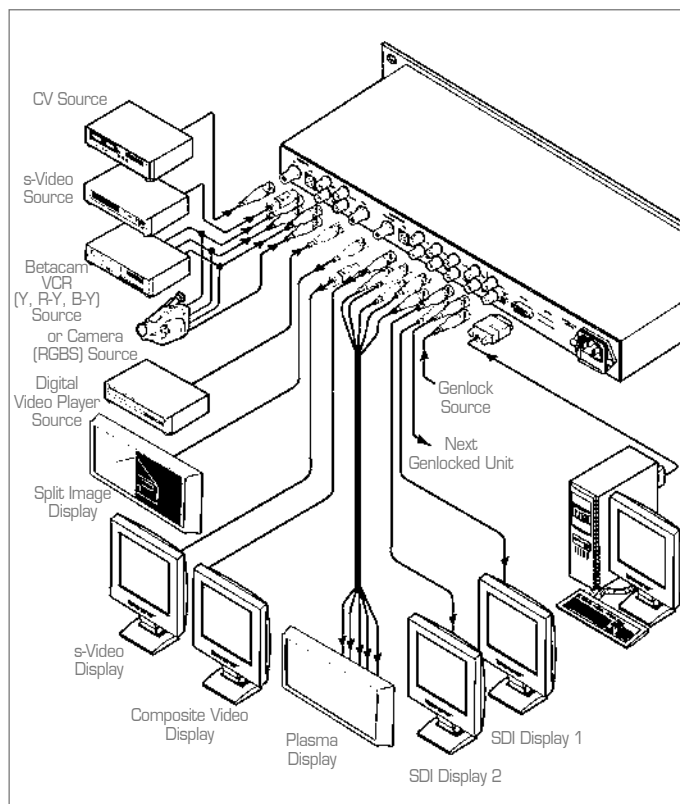
FEATURES

- **Bandwidth** - 5MHz (- 0.5dB).
- **Multi-Format** - Selected input is simultaneously output as composite video, s-Video, component video (YUV or RGBS) and SDI.
- **Mult-Standard** - NTSC (3.58.4.43), PAL (B/D/G/H/I/M/N), & SECAM.
- **Standards Conversion** - Any input format and standard can be converted to any output format and standard.
- **Proc Amp Control** - Contrast, brightness, H/V sharpness, level/gain (R, G, B, R-Y, & B-Y).
- **Time Base Corrector.**
- **Screen Splitter** - Simultaneous display of original video and processed video on a single screen (adjustable).
- **Timing Control** - Video delay, H/V delay, & SCH phase.

- **Switching Synchronization** - Synchronize either to external reference or internal genlock sync generator.
- **Looping Sync Input.**
- **Selectable Sync Signal Termination.**
- **Resolution** - 10-bits.
- **Memory Locations** - Store 15 multiple switches as presets to be recalled and executed when needed.
- **Control** - Front Panel and RS-232.
- **Front Panel Lockout.**
- **Standard 19" Rack Mount Size** - 1U.

TECHNICAL SPECIFICATIONS

CV INPUT/OUTPUT:	1Vpp/75Ω on BNC connectors.
s-VIDEO INPUT/OUTPUTS:	1Vpp/75Ω (Y), 0.3Vpp/75Ω on 4p connectors.
COMPONENT INPUT/OUTPUT:	Y/R-Y/B-Y (1Vpp/0.7Vpp/0.7Vpp)/75Ω (or RGB/S) on BNC connectors.
SDI INPUT/OUTPUT:	SMPTE-259M, ITUR BT.601 on BNC connectors.
GENLOCK INPUT:	Looped 75Ω/Hi-Z on BNC connectors.
VIDEO STANDARDS:	PAL-B/D/G/H/I/M/N, NTSC-3.58/4.43, SECAM.
DIGITAL RESOLUTION:	10 bit.
VIDEO BANDWIDTH:	5MHz (-0.5dB).
SIGNAL TO NOISE RATIO:	60dB.
K-FACTOR:	0.4%.
DIFF. GAIN:	1% Deg.
DIFF. PHASE:	1%.
LUMA NON-LINEARITY:	1%.
CHROMA/LUMA DELAY:	< 15ns.
MEMORY:	Non-volatile memory for storage of 15 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 SOURCE:	Universal, 90-240VAC, 50/60Hz.
DIMENSIONS:	19" 1U, rack-mountable.
WEIGHT:	2.6kg. (5.7lbs.) approx.
ACCESSORIES:	Power cord, Null-modem adapter.

CV Source

s-Video Source

Betacam VCR (Y, R-Y, B-Y) Source or Camera (RGBS) Source

Digital Video Player Source

Split Image Display

Genlock Source

Next Genlocked Unit

s-Video Display

Composite Video Display

Plasma Display

SDI Display 1

SDI Display 2