PIP-500

5-Video Picture-In-Picture Inserter & Quad Splitter

The PIP-500 is a high-performance picture-in-picture inserter for up to 5 signals. The unit can accept and process composite video, s-Video (Y/C) and component video (YUV) signals. The PIP output can display up to 5 images simultaneously, each of which can be individually sized and positioned. The PIP-500 also has an additional quad output mode which displays four inputs in four equal sized images.

FEATURES

- **Multi-Format** - Each input can be either composite video, s−Video or component video.
- **Picture-in-Picture Options** - All inputs can be displayed simultaneously, variable window sizing (1:1, 1:4, 1:9 or 1:16 each input), variable window positioning, freeze frame capability, optional window border, and text labeling available for all inputs.
- **Dedicated Quad Output Mode** - 4 quarter−screen images displayed simultaneously for both s−Video and composite video outputs.
- **Multi-Standard Operation** - PAL, SECAM & NTSC compatible inputs. Although not a full standards converter, a PAL image can be mixed with NTSC images and the output can be either PAL or NTSC.
- **Digital Comb Filter** - Adaptive comb filters for composite video inputs.
- **Built-in ProcAmp** - Brightness, contrast, and saturation for each input.
- **Memory Locations** - Store 2 PIP presets for quick recall.
- **High Resolution** - Full 10−bit digital processing.
- **Flexible Control Options** - Front panel (with LCD and on−screen displays) and RS−232 (Windows®−based Kramer control software is included).
- **Worldwide Power Supply** - 100−240V AC.
- **Standard 19" Rack Mount Size** - 2U.

TECHNICAL SPECIFICATIONS

INPUT:	5 sets of inputs, each set with 1 composite video 1Vpp/75Ω on a BNC connector, 1 s−Video 1Vpp, 0.3Vpp/75Ω on a 4−pin connector, and 1 component video 1Vpp, 0.7Vpp, 0.7Vpp/75Ω on 3 BNC connectors.
OUTPUT:	PIP: 1 composite video 1Vpp/75Ω on a BNC connector, 1 s−Video 1Vpp, 0.3Vpp/75Ω on a 4−pin connector, component video 1Vpp, 0.7Vpp, 0.7Vpp/75Ω on BNC connectors. Quad: 4 quarter screen images: 1 composite video 1Vpp/75Ω on a BNC connector & 1 s−Video 1Vpp, 0.3Vpp/75Ω on a 4−pin connector.
DIGITAL RESOLUTION:	10 bit.
VIDEO BANDWIDTH:	0.5dB to 5MHz.
SIGNAL TO NOISE RATIO:	60dB.
K-FACTOR:	0.5%.
DIFFERENTIAL PHASE:	1%.
DIFFERENTIAL GAIN:	1%.
LUMA NON-LINEARITY:	1%.
CHROMA/LUMA DELAY:	<15ns.
YC SEPARATION:	Adaptive 4−line digital comb filters.
MEMORY:	Non−volatile memory for storage of 2 setups.
CONTROL:	Front−panel and RS−232: PIP size, position and layer priority; motion detection sensitivity (option); video ProcAmp functions; video zoom; freeze.
INDICATORS:	Multi−character display on the front panel.
DIMENSIONS:	19" x 7" x 2U W, D, H, rack mountable.
POWER CONSUMPTION:	Universal, 100−240V AC, 50/60Hz.
INCLUDED ACCESSORIES:	Power cord, null−modem adapter, and Windows®−based Kramer control software.