

PIP-200xl / PIP-300 / PIP-400 / PIP-500

Multiple Picture-In-Picture Inserter & Quad Splitter



The **PIP-200xl**, **PIP-300**, **PIP-400**, and **PIP-500** are high performance picture-in-picture inserters for up to 2, 3, 4, or 5 signals, respectively. All four models 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 (depending on model) each of which can be individually sized and positioned. The **PIP-400** and **PIP-500** also have 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 (PIP-400 & PIP-500).
- **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 to s-Video conversion.
- **Built-in Proc Amp** - Brightness, contrast, and saturation for each input.

- **Memory Locations** - Store 2 PIP presets which can be quickly recalled.
- **High Resolution** - Full 10 bit digital processing.
- **Flexible Control Options** - Front Panel (with LCD and onscreen displays) and RS-232 (Windows®-based control software is included).
- **Standard 19" Rack Mount Size** - 1U for PIP-200xl & PIP-300 and 2U for PIP-400 & PIP-500.

TECHNICAL SPECIFICATIONS

INPUTS:	2 (PIP-200xl), 3 (PIP-300), 4 (PIP-400) & 5 (PIP-500) sets of inputs, each set with 1 composite video 1Vpp/75Ω on a BNC connector, 1 s-Video 1Vpp, 0.3Vpp/75Ω on a 4p connector, and 1 component video 1Vpp, 0.7Vpp, 0.7Vpp/75Ω on 3 BNC connectors.
OUTPUTS:	PIP: 1 composite video 1Vpp/75Ω on a BNC connector, 1 s-Video 1Vpp, 0.3Vpp/75Ω on a 4p connector, component video 1Vpp, 0.7Vpp, 0.7Vpp/75Ω on BNC connectors. Quad: 4 quarter screen images (PIP-400 & PIP-500): 1 composite video 1Vpp/75Ω on a BNC connector & 1 s-Video 1Vpp, 0.3Vpp/75Ω on a 4p 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.
DIMENSIONS:	19" 1U (PIP-200xl & VP-300) and 19" 2U (PIP-400 & PIP-500).
POWER SOURCE:	Universal, 90-240VAC, 50/60Hz.
ACCESSORIES:	Power cord, Null modem adapter, and Windows®-based control software.

