

In this group of products, KRAMER ELECTRONICS offers some very useful accessories for the video professional.

Video Tester.

A new, unique, patented, indispensable tool for the video professional. By just pressing one touch switch it will trace missing signals, distinguish between good and jittery (VCR sourced) signals, and identify the presence of good signals. Whenever a video signal is missing, because of bad connections, cable breaks or faulty sources, the **Video TESTER** is all you need.

Video-Audio Combiner and Separator.

The **VM-11AV** *Video-Audio Combiner* sends a color video signal and a stereo audio signal using only one standard coax cable in real time. The **VM-11AV** maintains the bandwidth of an industrial color video signal, and the output signal may be viewed and recorded as a normal video signal. By using the KRAMER **VM-11AV** together with the **VM-12AV** (*Video-Audio Separator*), the audio-stereo signal may be recovered, so audio signals may be sent in a *hidden* mode, to be recovered only by a **VM-12AV**.

Optic Ground Isolator.

The KRAMER **OC-1N** is a high quality *Video Isolator*, designed for broadcast and industrial studio applications. In distinction to commercially available machines, which are based on non-linear transformers, with poor frequency response, the **OC-1N** is designed around a state-of-the-art active optoisolator device with high linearity and very wide frequency response. The **OC-1N** allows the user to select which **GROUND** will become floating - input, output, both or none, using rear panel switches.

RS-232 Interface.

The KRAMER **RS-232** add-on *Control Module* allows our Vertical Interval Switchers to be computer controlled and monitored. The **RS-232 Module** consists of an add-on card and software program providing instantaneous switching between all input devices through a simply-operated program running on a standard MS-DOS or WINDOWS (TM) personal computer.

Picture-in-Picture Inserter.

The KRAMER **PIP-100** is a *Picture in Picture Video Inserter* designed for studio and other applications for monitoring and special effects generation. The position of the inserted picture is user controlled, as is the border color of the inserted image. A special feature of the **PIP-100** is the ability to insert an *NTSC* image into a *PAL* background and vice versa.

Universal 12V Power Supply.

The Kramer **50P** is a Universal Power Supply for all *50*, *55*, *VM-3* and some of the *TP* series machines, replacing up to six wall transformers and providing *clean* DC voltage for all machines.

The **50P** is housed in a small enclosure, matching the enclosure size of the *50* and *55* series machines.

Miscellaneous Products:

Model	Inputs	Outputs	Function	Remarks
VIDEO TESTER	1 x CV	2 x LEDs	Video signal tester	A hand held, beeper sized, patented video signal tester for easy and fast troubleshooting.
VM-11AV	1 x CV 2 x Audio	MIX BNC	Video-Audio Combiner	A Video - Audio Stereo Combiner for routing 3 signals on one coax cable.
VM-12AV	MIX BNC	1 x CV 2 x Audio	Video-Audio Separator	A Video - Audio Stereo separator for routing 3 signals on one coax cable.
VM-25	1 x CV	1 x CV	Video Coder	A Coder for Video copy protection.
OC-1N	1 x CV	1 x CV	Ground Isolator	A Video Optic Ground Isolator for ground problem elimination, in a compact enclosure.
VSI-232	N / A	PC	RS-232 Interface	A module inserted in KRAMER switchers for RS-232 interfacing.
PIP-100	CV-Y/C	Y/C-CV	Picture-in-Picture	A Multistandard Picture-in-Picture Inserter, 19 inch rack mountable.
50P	MAINS	6 x 12V	Power Supply	A six output DC power supply for 50, 55, VM-3 and TP series.

GLOSSARY

DA: Distribution Amplifier.
CV: Composite Video.
AV: Audio (stereo) + Composite Video.
Y/C: s-VHS.
YUV: Component Video.
RGBS: Red, Green, Blue, and Sync.
SDI: Serial Digital Interface.
Cs: Composite Sync.
Hs: Horizontal Sync.
Vs: Vertical Sync.
G+S: Green + Sync.
Mic: Microphone