

16x16 SDI Digital Video Matrix Switcher

VS-1616SDI

2

VIDEO AND AUDIO SWITCHERS, MATRIX SWITCHERS AND CONTROLLERS

The Kramer VS-1616SDI is an adjustment-free, 16x16 matrix switcher for SDI (serial digital) video signals. It is a true matrix allowing any input to be routed to any or all outputs simultaneously. It provides automatic equalization for losses on a 75-ohm co-axial cable, and reclocks each output to provide 16 low-jitter serial digital outputs. Video standard recognition is automatic, and the VS-1616SDI switches during the vertical interval.

The VS-1616SDI accepts either analog or serial video as the external source for its vertical trigger. Alternately, any input can be assigned as the sync source. The VS-1616SDI may be controlled via the front-panel touch switches, via the serial RS-232 and RS-485 ports (with either hexadecimal or ASCII

codes), and via external dry-contact pushbuttons. The user-friendly LCD display makes operation even easier, and 16 preset memory locations are provided for quick access to the most often used configurations. The unit includes Windows™ based control software. The VS-1616SDI can be configured into a Kramer multi-signal switcher system including analog video, digital and analog audio, and RS-422 control switchers. When integrated in a system, all units switch in true audio-follow-video mode.



TECHNICAL SPECIFICATIONS

INPUTS:	16 SMPTE-259M Serial Video, 75 Ω on BNC connectors.
OUTPUTS:	16 reclocked SMPTE-259M Serial Video, 75 Ω on BNC connectors.
REFERENCE INPUT:	Analog loop through on BNC connectors, 75 Ω /Hi-Z, switchable SMPTE-259M serial video (option).
SWITCHING:	Vertical interval.
RESOLUTION:	8 or 10-bits, automatic.
SUPPORTED STANDARDS:	143Mb/s (4fsc NTSC). 177Mb/s (4fsc PAL). 270Mb/s (4:2:2 Component). 360Mb/s (4:2:2 Widescreen).
EQUALIZATION:	Automatic up to 300m, (Belden 8281 cable, 270Mb/s).
JITTER:	<300ps at 270Mb/s, 10Hz.
OVERSHOOT:	<5%.
OUTPUT LEVEL:	800mV, +/- 5%
CONTROL:	38 selector switches; RS-232, RS-485, IR remote, dry keyboard extension.
DIMENSIONS:	19-inch (W), 7-inch (D) 2U (H) rack-mountable.
POWER SOURCE:	230 VAC, 50/60 Hz, (115VAC, U.S.A.) 10VA.
WEIGHT:	3.5 kg (7.8 lbs.) approx.
ACCESSORIES:	Power cord, Null modem adapter, Windows 95/98/NT/2000™ Kramer control software.

TYPICAL APPLICATIONS

- Video broadcast studios for on-air switching and signal routing. acceptors.
- Video production facilities, for connecting various sources to