

Sierra Pro XL Reverse Matrix™ Routing Switchers

Sierra Video's Sierra Pro XL Reverse Matrix routing switchers provide high-performance RGBHV signal routing for applications that have a small number of inputs (sources) and a larger number of outputs (destinations). Reverse Matrix routing switchers are a perfect fit in classrooms, worship facilities, or hospitality venues such as sports bars.

The Sierra Pro XL Reverse Matrix routing switchers are available as 3-wire or 5-wire routing switchers in 8x16 or 16x32 configurations. Stereo audio options are available for each of these frames.

3-WIRE (RGB) REVERSE MATRIX

Ideal for wideband analog HD signal sources

- HD satellite
- Cable TV HD receiver boxes
- DVD or Blu-ray devices (analog HD)

5-WIRE (RGB+HV) REVERSE MATRIX

Ideal for high bandwidth VGA signals

- Computers
- DVI-A output devices

FEATURES

- Matrix Mapping™ Universal Breakaway Switching
- Video Follow Sync™ Switching
- Room grouping
- Adjustable audio gain and attenuation
- Front panel control interface with LCD display
- RS-232 and IP control



MODEL	FORMAT	INPUTS	OUTPUTS	SIZE	HEIGHT	DESCRIPTION
816V5Sxl	RGB+HV	8	16	6RU	10.5"	8 x 16 five-channel 450MHz @ -3dB wideband video + stereo audio routing switcher
816V5xl	RGB+HV	8	16	6RU	10.5"	8 x 16 five-channel 450MHz at -3dB wideband video routing switcher
816V3Sxl	RGB	8	16	6RU	10.5"	8 x 16 three-channel 450MHz at -3dB wideband video + stereo audio routing switcher
816V3xl	RGB	8	16	6RU	10.5"	8 x 16 three-channel 450MHz at -3dB wideband video routing switcher
1632V5xl	RGB+HV	16	32	9RU	15.75"	16 x 32 five-channel 450MHz at -3dB wideband video routing switcher
1632V3xl	RGB	16	32	9RU	15.75"	16 x 32 three-channel 450MHz at -3dB wideband video routing switcher
3232Sxl	Stereo audio	32	32	4RU	7"	32 x 32 stereo audio routing switcher. Companion unit for 1632 video frame, not stand-alone unit.

Redundant power supply is optional on the 816 Series frame. To order, specify model letter "R" - i.e. 816V5SRxl.

Redundant power supply is standard on the 32 Series frames.

Custom 4-level or 5-level Video optional at additional cost. To order, specify "V4V" or "V5V" option - i.e. 1632V5Vxl.

Sierra Pro XL Reverse Matrix Performance Specifications

WIDEBAND VIDEO

BANDWIDTH 450MHz @ -3dB

VIDEO GAIN Unity

CROSSTALK
-80dB @ 1MHz
-47dB @ 100MHz
-30dB @ 150MHz

SWITCHING SPEED Deterministic

INPUT

VIDEO LEVEL 0.2V to 5V p-p

IMPEDANCE 75 Ohm

RETURN LOSS < -30dB @ 5MHz

CONNECTOR TYPE BNC

OUTPUT

VIDEO LEVEL 0.2V to 5V p-p

IMPEDANCE 75 Ohm

RETURN LOSS < -30dB @ 5MHz

CONNECTOR TYPE BNC

ANALOG STEREO AUDIO

INPUT GAIN ADJUST RANGE +20.5dB to -8dB

OUTPUT GAIN ADJUST RANGE +15dB to -59.5dB and fully off (MUTE)

FREQUENCY RESPONSE 20Hz to 20kHz +/- 0.5dB (typical -3dB @ 120kHz (unity gain)

DYNAMIC RANGE 96dB (20-20kHz unweighted) (unity gain)

CROSSTALK (all inputs hostile) < -80dB @ 1kHz (unity gain) < -60dB @ 10kHz (unity gain)

IM & THD (20 to 20kHz) THD: < 0.025% (20Hz - 20kHz @ +4dBu) (unity gain)
IM: < 0.025 SMPTE-DIN @ +4dBu (unity gain) < 0.01% CCIF @ +16dBu (unity gain)

INPUT

MAX. SOURCE LEVEL +24dBu

IMPEDANCE > 20k

CONNECTOR TYPE 5 pin terminal block for balanced or unbalanced operation

OUTPUT

MAX. SOURCE LEVEL +24dBu balanced +18dBu unbalanced

IMPEDANCE < 50 Ohm

CONNECTOR TYPE 5 pin terminal block for balanced or unbalanced operation

CONTROL

SERIAL General Purpose 9 pin-D, each switchable RS-232 or RS-422 2 on 32x32 models, 1 on all others 9600, 38400, 115200 baud

PROTOCOLS SVS host, simple Kramer, and select others

ETHERNET 10/100 Base-T, full duplex, RJ-45 connector

PROTOCOLS ARP, ICMP, TCP/IP, Telnet, HTTP

WEB SERVER For control

CONTROL PANELS Supports SCP programmable control panels, XY & single bus control panels

GENERAL

RACK UNIT SIZE/FRAME

8 SERIES REVERSE MATRIX 6RU

16 SERIES REVERSE MATRIX 9RU

32 SERIES AUDIO ONLY FRAMES 3RU

DIMENSIONS

8 SERIES REVERSE MATRIX 19" w x 10.5" h x 19" d

16 SERIES REVERSE MATRIX 19" w x 15.75" h x 19" d

32 SERIES AUDIO ONLY FRAMES 19" w x 5.25" h x 19" d

Mounts in standard 19" rack
Depth measurements do not include front panel hardware or rear cabling

POWER 90 VAC->240 VAC 50/60Hz (<150 Watts) auto-detecting

REDUNDANT POWER SUPPLY Optional in 16 Series, standard in 32 Series

STORAGE TEMPERATURE -40° to +150° F

OPERATING TEMPERATURE 30° to 100° F ambient

HUMIDITY 10% to 90% non-condensing

WARRANTY 7 Years



P.O. Box 2462
Grass Valley, CA 95945 USA
Tel: (530) 478-1000
www.sierravideo.com

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