Sierra Pro XL 16x8 RGBHV Router Family
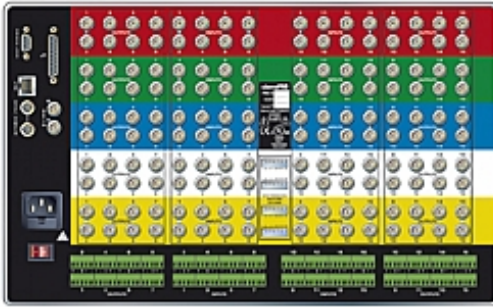16x8 RGBHV Routers

16x8 RGBHV Matrix Switcher with 8 Configurations.

Sierra Pro XL 16x8 RGBHV Router Family

RGB Video Feature

- **High Bandwidth** - 450MHz (-3dB) fully loaded.

- **Very Low Crosstalk** - -80dB @ 1MHz, -47dB @ 100MHz, -30dB @150MHz.

- **Matrix Mapping™ Universal Breakaway Switching** - This unique Sierra Pro XL feature provides independent switching of every level of every R, G, B, H, V, left and right audio input on the routing switcher. You can switch a single level or any combination of levels. For example, you can input a composite video signal on the R level of input one and an s-Video (Y/C) signal on the G and B levels of input one, then switch only the composite video signal on the R level, only the s- Video Y and C signals on the g and B levels, or switch all three levels together.

- **Room Grouping Capability** - Several inputs may be grouped and operated independently of other input groups onthe routing switchers. This allows one routing switcher to be used for multiple "rooms" where the control system for each room will address only the inputs and outputs assigned to that room.

- **Video Follow Sync™ Switching** - The H and V channels of an RGBHV signal are switched in advance of the RGBvideo channels of the signal to provide clean, glitch-free switching between most non-synchronous sources.

- **Qwik Adjust Knob™ Rotary Control Interface** - This user-intuitive knob along with the 80 character LCD display provides quick and convenient setup, adjustment and signal switching.

- **Video Mute Capability.** - Switches to "no source" for blank display.

Sync Features

- **Sync Reporting** - The routing switcher can capture and report the input sync rates for each input signal. Those rates can be read using Sierra Video's TyLinx Pro™ Router Control Software or the Host port protocol.

- **Input Detection** - Reshapes and re-squares the sync to return the output to the correct TTL level.

- **Selectable Termination** - 510 or 75Ω (each input).

- **Genlock Input** - Looping external sync input for vertical interval switching.

Analog Audio Features

- **Audio Type** - Balanced or un-balanced analog stereo on terminal blocks.

- **Input (Level) Adjustment Capability (-8dB to +20.5dB)** - For each input via RS-232, front panel, and TyLinx Pro Router Control Software.

- **Output (Volume) Adjustment Capability (Mute, -59.5dB to +15dB)** - For each input via RS-232, front panel, and TyLinx Pro Router Control Software.

- **No Zipper Effect** - Sierra Pro XL routing switchers employ zero crossover chip technology which eliminates the annoying "zipper sound effect" associated with digital volume controls.

- **Audio Mute Capability.**

- **Crosstalk** - <80dB @1kHz.

Control Features

- **MediaNav™ Network-Enabled Router Control Software via 1RU Mediator** - Optional

- **Local Front Panel Control With 80 Character LCD Readout.**

- **RS-232, RS-485, RS-422 & Ethernet**

- **Optional Remote Control Panels** - Via RS-485.

- **Supports TCP/IP Protocol** - Rear panel RJ-45 connector

- **WEB Browser Control**

- **TyLinx Pro Router Control Software.**

Other Features

- **Optional Control Panels** - Programmable, single bus and XY.

- **Redundant Power Supplies** - On selected Models.

- **UL & CE Approvals**

Sierra Pro XL 16x8 RGBHV Router Family

RGB Video

Bandwidth	450MHz @ -3dB
Video Gain	Unity
Crosstalk	-80dB @ 1MHz -47dB @ 100MHz -30dB @ 150MHz
Switching Speed	Deterministic
Video Level	0.2V to 5Vpp
Impedance	75Ω
Return Loss	<-30dB @5MHz
Connector Type	BNC
Video Level	0.2V to 2.5Vpp
Impedance	75Ω
Return Loss	<-30dB @5MHz
Connector Type	BNC

Stereo Audio

Input Adjust Range	+20.5dB to -8dB
Output 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 (20Hz to 20kHz unweighted) (unity gain)
Crosstalk (All Inputs Hostile)	<-80dB @ 1kHz (Unity Gain) <-60dB @ 10kHz (Unity Gain)
IM & THD (20Hz to 20KHz)	THD: <0.025% (20Hz - 20KHz @ +4dBu) (unity gain) IM: <0.025 SMPTE-DIN @ +4dBu (unity gain) <0.01% CCIF @ +16dBu (unity gain)
Max Source Level	+24dBu
Impedance	20kΩ Differential Mode 10KΩ Single ended Mode
Connector Type	5-pin terminal block for balanced or unbalanced operation
Max. Source Level	+24dBm balanced +18dBu unbalanced
Impedance	100kΩ Differential Mode 50Ω Single ended Mode
Connector Type	5-pin terminal block for balanced or unbalanced operation

Control Features

Local Front Panel Control	80 Character LCD Readout.

Model	Description
V5 Models - 3 Video & 2 Sync Channels	
1608V5-XL	16x8 RGBHV (3 Video/2 Sync Channels) Matrix Switcher. 6RU.
1608V5S-XL	16x8 RGBHV (3 Video/2 Sync Channels) Matrix Switcher. Balanced Stereo Audio. 6RU.
1608V5R-XL	16x8 RGBHV (3 Video/2 Sync Channels) Matrix Switcher. Redundant Power Supply. 6RU.
1608V5SR-XL	16x8 RGBHV (3 Video/2 Sync Channels) Matrix Switcher, Balanced Stereo Audio. Redundant Power Supply. 6RU.
V5V Models - 5 Video Channels	
1608V5V-XL	16x8 RGBHV (5 Video Channels) Matrix Switcher. 6RU.
1608V5VS-XL	16x8 RGBHV (5 Video Channels) Matrix Switcher. Balanced Stereo Audio. 6RU.
1608V5VR-XL	16x8 RGBHV (5 Video Channels) Matrix Switcher. Redundant Power Supply. 6RU.

Sierra Pro XL 16x8 RGBHV Router Family

Control Features

Control Panels	Supports SCP programmable control panels, XY & single bus control panels
Serial	General purpose 9-pin D-sub connectors Switchable RS-232 or RS-422 2 on 32x32 models, 1 on all others 9600, 38400, 115200 baud
Serial Protocols	SVS host, simple Kramer, and select others
RS-485	Mini-XLR for optional control panels
Ethernet	10/100 Base-T, full-duplex, RJ-45 connector
Ethernet Protocols	ARP, ICMP, Telnet, TCP/IP, HTTP
Web Server	For control

General

16x8, 16x16 & 8x16	6U
32x16, 32x32 & 16x32 (Video)	9U
32x16 & 32x32 (Audio)	3U
16x8, 16x16 & 8x16	19" x 18.5" x 10.5" W, D, H
32x16, 32x32 & 16x32 (Video)	19" x 16.5" x 15.5" W, D, H
32x16 & 32x32 (Audio)	19" x 17" x 5.25" W, D, H Mounts in a standard 19" rack Depth measurements do not include front panel hardware or rear cabling
Power	90-240V AC, 50/60Hz (< 150 Watts)
Redundant Power Supply	On selected models.
Storage Temperature	-40° to 150°F
Operating Temperature	30° to 100° ambient
Humidity	10% to 90% non-condensing
Warranty	7 years