88V3Sxl
8x8 YUV Matrix Switcher with Balanced Stereo Audio
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 on the 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 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

- Local Front Panel Control With 80 Character LCD Readout.
- RS-232/422.
- RS-485 - For optional remote control panels.
- Supports TCP/IP Protocol - Rear panel RJ-45 connector
- WEB Browser Control
- TyLinx Pro Router Control Software and TyLinx Pro Net™ Net work-Enabled Router Control Software.

Other Features

- Optional Control Panels - Programmable, single bus and XY.
- Redundant Power Supplies - Optional in 16 x 16, 16 x 8, and 8 x 16 models Standard in 32 x 32, 32 x 16, and 16 x 32 models
- UL & CE Approvals
- Downloadable Firmware Updates
88V3SxI

TECHNICAL SPECIFICATIONS

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.
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

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<thead>
<tr>
<th>8x4, 8x8, 12x4 &amp; 12x8</th>
<th>3U</th>
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<tbody>
<tr>
<td>16x8, 16x16 &amp; 8x16</td>
<td>6U</td>
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<tr>
<td>32x16, 32x32 &amp; 16x16</td>
<td>9U</td>
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<td>(Video)</td>
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<tr>
<td>32x16 &amp; 32x32 (Audio)</td>
<td>3U</td>
</tr>
<tr>
<td>8x4, 8x8, 12x4 &amp; 12x8</td>
<td>19” x 11” x 5.25” W, D, H</td>
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<tr>
<td>16x8, 16x16 &amp; 8x16</td>
<td>19” x 18.5” x 10.5” W, D, H</td>
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<tr>
<td>32x16, 32x32 &amp; 16x16</td>
<td>19” x 16.5” x 15.5” W, D, H</td>
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<tr>
<td>(Video)</td>
<td></td>
</tr>
<tr>
<td>32x16 &amp; 32x32 (Audio)</td>
<td>19” x 17” x 5.25” W, D, H M</td>
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<tr>
<td>Mounts in a standard 19” rack Depth measurements do not include front panel hardware or rear cabling</td>
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Power

90-240V AC, 50/60Hz (< 150 Watts)

Redundant Power Supply

Optional in 16x16, 16x8 & 8x16 Standard in 32x32, 32x16 & 16 x 32 models

Storage Temperature

-40° to 150°F

Operating Temperature

30° to 100° ambient

Humidity

10% to 90% non-condensing

Warranty

7 years