

Sierra Pro XL™

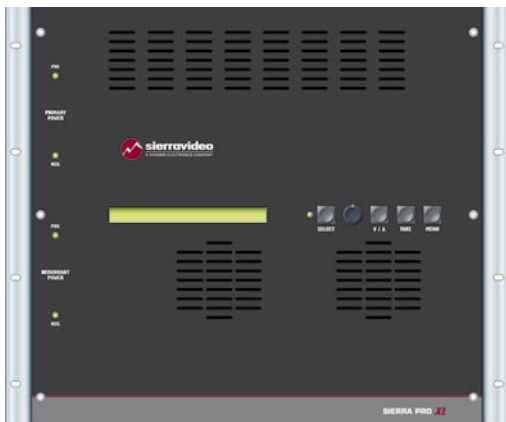
- PREMIERE ROUTING SWITCHER FOR PROFESSIONAL VIDEO ENVIRONMENTS
- WIDEBAND VIDEO & STEREO AUDIO
- RGBHV, RGBS, COMPONENT VIDEO & S-VIDEO



Sierra Pro XL

Wideband Routing Switchers for Professional Presentation Environments

Sierra Video's premiere line of high bandwidth routing switchers provides top-of-the-line performance in the most demanding presentation environments. With 450MHz bandwidth in 8 Series to 32 Series models, and with 500MHz bandwidth in 64 Series models, incredibly flat response, Matrix Mapping and IP connectivity, Sierra Pro XL routing switchers are an outstanding combination of value and performance.



Matrix Sizes

INPUTS	OUTPUTS									
8x	4	8	16							
12x	4	8								
16x		8	16	32						
32x				16	32					
32x 40x 48x 56x 64x						32	40	48	56	64

FORMATS

Each frame size can be ordered as a 5-channel (RGBHV) system or a 3-channel (RGB) system with or without balanced stereo audio, or it can be ordered with high bandwidth video boards in place of the H and V boards so that video can be input into all channels (or levels) of the routing switcher.

Video Features

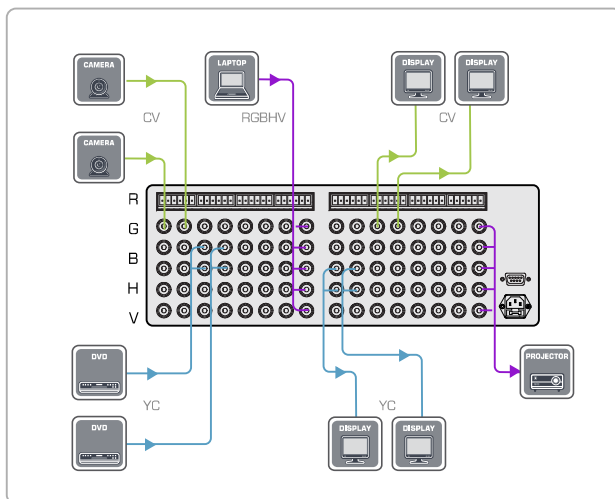
High Bandwidth – 450MHz @ -3dB fully loaded in 8 Series to 32 Series models. 500MHz @ -3dB fully loaded in 64 Series models. Proven flat response at high bandwidths provides optimal performance.

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

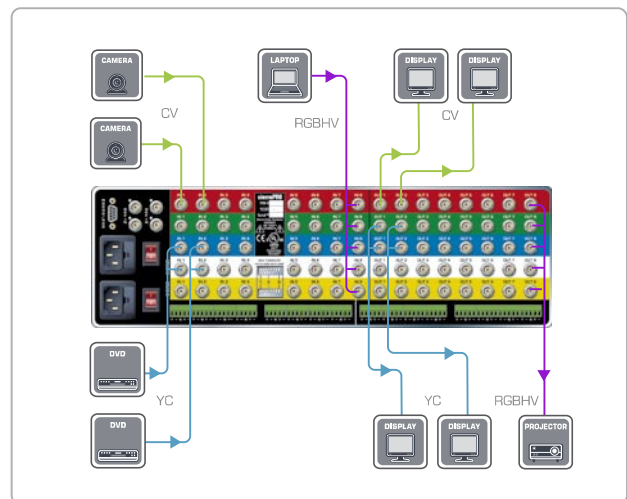
Room Grouping Capability - Several inputs may be grouped and operated independently of other input groups on the routers. This allows one router to be used for multiple "rooms" where the control system for each room will address only the inputs and outputs assigned to that room.

Matrix Mapping™ Universal Breakaway Switching

Find more real estate without a costly upgrade



Competitive Models



Sierra Pro XL Models

Sierra Video's Matrix Mapping Universal Breakaway Switching allows switching of every level of every input of the router independently. Switch a single level or any combination of levels of the R, G, B, H, V, left audio and right audio levels of any input. For example, 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 and switch only the composite video signal on the R level, switch only the s-Video Y and C signals on the G and B levels, or switch all three levels together.

Sync Features

Sync Reporting - Through the front panel or RS-232, the routing switcher can capture and report the input sync rates for each input signal.

Input Detection - 200mV. Re-shapes and re-squares sync to output correct TTL level.

Selectable Termination - 510 or 75 Ohm (each input).

Genlock Input - Looping internal sync input for vertical interval switching.

Audio Features

Audio Type - Balanced or unbalanced stereo on terminal blocks.

Input (Level) Adjustment Capability - - 8dB to + 20.5dB.

Output (Volume) Adjustment Capability - Mute, - 59.5dB to + 15dB.

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 (unity gain), < - 60dB @ 10kHz (unity gain).

Dynamic Range - 96dB (20-20kHz unweighted) (unity gain).

Comprehensive Control Options

IP (Ethernet Control) - Via standard TCP/IP socket connection, Mac or PC.

Front Panel Control - Local control with 80 character LCD readout in 8 Series through 32 Series frames, XY push button control in 64 Series frames.

RS-232 & RS-422.

RS-485 For Optional Control Panels.

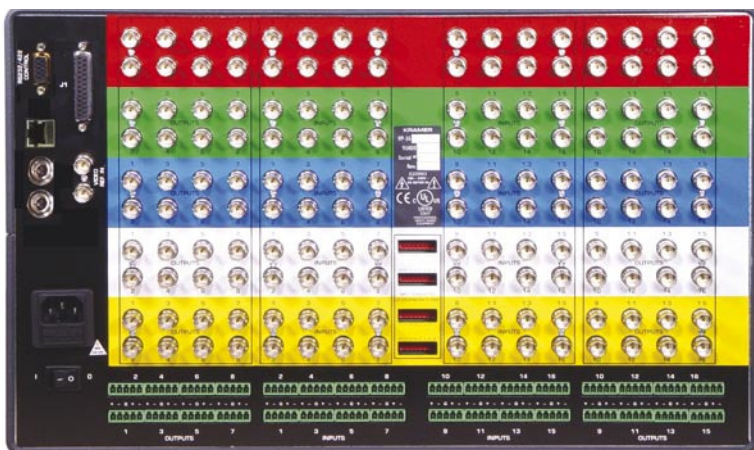
TyLinX Pro™ and TyLinX Pro Net™ Router Control Software - Advanced, customizable GUI control interface.

Remote Control Panels - Programmable, Single Bus, and XY panels optional.

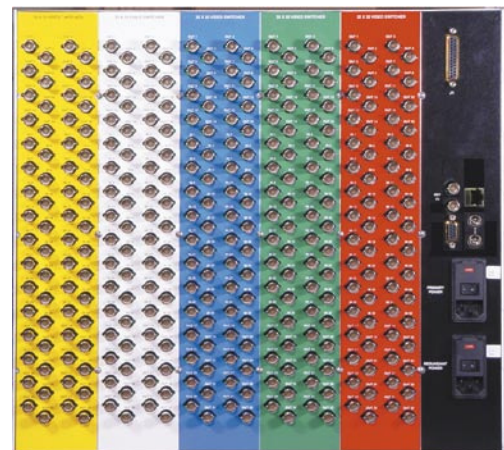
Redundant Power Supply

Optional in 8x16, 16x8 and 16x16 models.

Standard on 16x32, 32x16, 32x32 and all 64 Series models.



Sierra Pro 1616V55xl

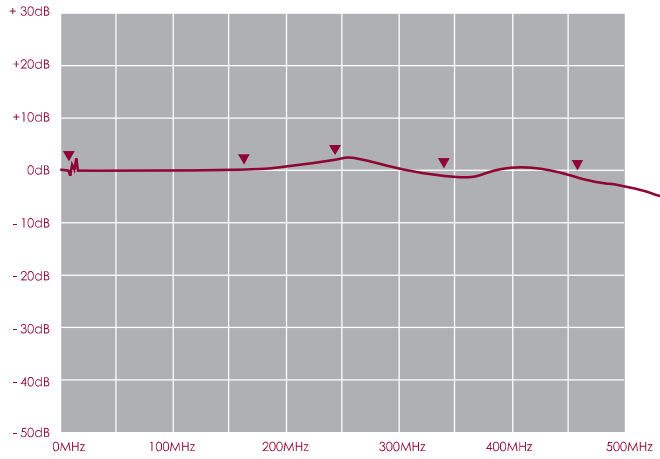


Sierra Pro 3232V5xl

MODEL	FORMAT	INPUTS	OUTPUTS	SIZE	HEIGHT	DESCRIPTION
84V3xl	RGB	8	4	3RU	5.25"	8x4 3-channel wideband video ▪ 450MHz ▪ IP Control
84V3Sxl	RGB	8	4	3RU	5.25"	8x4 3-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control
84V5xl	RGB + HV	8	4	3RU	5.25"	8x4 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control
84V5Sxl	RGB + HV	8	4	3RU	5.25"	8x4 3-channel wideband video, 2 sync channels + stereo audio ▪ 450MHz ▪ IP Control
84V5Vxl	5-level video	8	4	3RU	5.25"	8x4 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control
84V5VSxl	5-level video		4	3RU	5.25"	8x4 Custom format 5-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control
88V3xl	RGB	8	8	3RU	5.25"	8x8 3-channel wideband video ▪ 450MHz ▪ IP Control
88V3Sxl	RGB	8	8	3RU	5.25"	8x8 3-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control
88V5xl	RGB + HV	8	8	3RU	5.25"	8x8 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control
88V5Sxl	RGB + HV	8	8	3RU	5.25"	8x8 3-channel wideband video, 2 sync channels + stereo audio ▪ 450MHz ▪ IP Control
88V5Vxl	5-level video	8	8	3RU	5.25"	8x8 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control
88V5VSxl	5-level video	8	8	3RU	5.25"	8x8 Custom format 5-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control
816V3xl	RGB	8	16	6RU	10.5"	8 x 16 three-channel wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
816V3Sxl	RGB	8	16	6RU	10.5"	8 x 16 three-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
816V5xl	RGB + HV	8	16	6RU	10.5"	8 x 16 three-channel wideband video, two sync channels ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
816V5Sxl	RGB + HV	8	16	6RU	10.5"	8 x 16 three-channel wideband video, two sync channels + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
816V5Vxl	5-level video	8	16	6RU	10.5"	8 x 16 Custom Format five-channel (no sync) wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
816V5VSxl	5-level video	8	16	6RU	10.5"	8 x 16 Custom Format five-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1204V3xl	RGB	12	4	3RU	5.25"	12x4 3-channel wideband video ▪ 450MHz ▪ IP Control
1204V3Sxl	RGB	12	4	3RU	5.25"	12x4 3-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control
1204V5xl	RGB + HV	12	4	3RU	5.25"	12x4 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control
1204V5Sxl	RGB + HV	12	4	3RU	5.25"	12x4 3-channel wideband video, 2 sync channels + stereo audio ▪ 450MHz ▪ IP Control
1204V5Vxl	5-level video	12	4	3RU	5.25"	12x4 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control
1204V5VSxl	5-level video	12	4	3RU	5.25"	12x4 Custom format 5-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control
1208V3xl	RGB	12	8	3RU	5.25"	12x8 3-channel wideband video ▪ 450MHz ▪ IP Control
1208V3Sxl	RGB	12	8	3RU	5.25"	12x8 3-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control
1208V5xl	RGB + HV	12	8	3RU	5.25"	12x8 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control
1208V5Sxl	RGB + HV	12	8	3RU	5.25"	12x8 3-channel wideband video, 2 sync channels + stereo audio ▪ 450MHz ▪ IP Control
1208V5Vxl	5-level video	12	8	3RU	5.25"	12x8 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control
1208V5VSxl	5-level video	12	8	3RU	5.25"	12x8 Custom format 5-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control

MODEL	FORMAT	INPUTS		SIZE	HEIGHT	DESCRIPTION
1608V3xl	RGB	16	8	6RU	10.5"	16x8 3-channel wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1608V3Sxl	RGB	16	8	6RU	10.5"	16x8 3-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1608V5xl	RGB + HV	16	8	6RU	10.5"	16x8 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1608V5Sxl	RGB + HV	16	8	6RU	10.5"	16x8 3-channel wideband video, 2 sync channels + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1608V5Vxl	5-level video	16	8	6RU	10.5"	16x8 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1608V5VSxl	5-level video	16	8	6RU	10.5"	16x8 Custom format 5-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1616V3xl	RGB	16	16	6RU	10.5"	16x16 3-channel wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1616V3Sxl	RGB	16	16	6RU	10.5"	16x16 3-channel wideband video + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1616V5xl	RGB + HV	16	16	6RU	10.5"	16x16 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1616V5Sxl	RGB + HV	16	16	6RU	10.5"	16x16 3-channel wideband video, 2 sync channels + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1616V5Vxl	5-level video	16	16	6RU	10.5"	16x16 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1616V5VSxl	5-level video	16	16	6RU	10.5"	16x16 Custom format 5-channel (no sync) wideband video + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply optional
1632Sxl	Stereo Audio	16	32	4RU	7"	16 x 32 stereo audio ▪ IP Control ▪ Redundant power supply standard
1632V3xl	RGB	16	32	9RU	15.75"	16 x 32 three-channel wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
1632V5xl	RGB + HV	16	32	9RU	15.75"	16 x 32 three channels wideband video, two sync channels + stereo audio ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
1632V5Vxl	5-level video	16	32	9RU	15.75"	16 x 32 Custom Format five-channel (no sync) wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
3216Sxl	Stereo Audio	32	16	4RU	7"	32x16 stereo audio. Companion units for 3216 video frames, not stand-alone units. ▪ IP Control ▪ Redundant power supply standard
3216V3xl	RGB	32	16	9RU	15.75"	32x16 3-channel wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
3216V5xl	RGB + HV	32	16	9RU	15.75"	32x16 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
3216V5Vxl	5-level video	32	16	9RU	15.75"	32x16 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
3232Sxl	Stereo Audio	32	32	4RU	7"	32x32 stereo audio. Companion units for 3216 video frames, not stand-alone units. ▪ IP Control ▪ Redundant power supply standard
3232V3xl	RGB	32	32	9RU	15.75"	32x32 3-channel wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
3232V5xl	RGB + HV	32	32	9RU	15.75"	32x32 3-channel wideband video, 2 sync channels ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
3232V5Vxl	5-level video	32	32	9RU	15.75"	32x32 Custom format 5-channel (no sync) wideband video ▪ 450MHz ▪ IP Control ▪ Redundant power supply standard
6464S	Stereo Audio	Up to 64	Up to 64	5RU	8.75"	Up to 64 x 64 stereo audio ▪ IP Control ▪ Redundant power supply standard
6464V3xl	RGB	Up to 64	Up to 64	20RU	35"	Up to 64 x 64 three-channel wideband video ▪ 500MHz ▪ IP Control ▪ Redundant power supply standard
6464V5xl	RGB + HV	Up to 64	Up to 64	20RU	35"	Up to 64 x 64 three-channel wideband video, two sync channels ▪ 500MHz ▪ IP Control ▪ Redundant power supply standard
6464V5Vxl	5-level video	Up to 64	Up to 64	20RU	35"	Up to 64 x 64 Custom Format five-channel (no sync) wideband video ▪ 500MHz ▪ IP Control ▪ Redundant power supply standard

INCREDIBLY FLAT RESPONSE PERFORMANCE



Typical Response Curve for a Sierra Pro XL Routing Switcher, Fully Loaded

Wideband Video

BANDWIDTH	8 Series to 32 Series	450MHz @ -3dB
	64 Series	500MHz @ -3dB
VIDEO GAIN	Unity	
CROSSTALK	- 80dB @ 1MHz	
	- 47dB @ 100MHz	
	- 30dB @ 150MHz	
SWITCHING SPEED	Deterministic	
INPUT		
VIDEO LEVEL	8 Series to 32 Series	0.2V to 5V p-p
	64 Series	0.3V to 2.5V p-p
IMPEDANCE	75 Ohm	
RETURN LOSS	< - 30dB @ 5MHz	
CONNECTOR TYPE	BNC	
OUTPUT		
VIDEO LEVEL	0.2V to 5Vp-p	
IMPEDANCE	75 Ohm	
RETURN LOSS	< - 30dB @ 5MHz	
CONNECTOR TYPE	BNC	

