

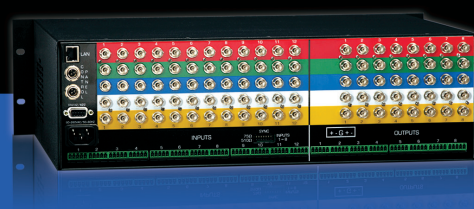


SIERRA VIDEO

Alta Pro™

WIDEBAND ROUTING SWITCHERS

600MHz RGBHV and RGB/Y Pb Pr for the Most Demanding Presentation Facilities



www.sierravideo.com



12x8, 12x4, 8x8, 8x4

WARRANTY

7 years.

ROUTING SWITCHER FEATURES

- **High Bandwidth** - 600MHz (-3dB) fully loaded.
- **Extremely Low Crosstalk** - < -85dB @1MHz.
- **A/V Breakaway Switch Routing** - Video and audio may be switched separately for enhanced performance with projectors and displays.
- **Room Grouping** - Several inputs may be grouped and operated independently of other input groups on the routing switcher. This way one routing switcher is used for multiple "rooms" where the control system for each room addresses 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 RGB video channels of the signal ("AV Mute Delay") to provide clean, glitch-free switching between non-synchronous sources.
- **Front Panel VU Meters** - For setting audio levels and monitoring audio.
- **Color-coded Rear Panel** - Red, green, blue, white and yellow for ease of cable installation.
- **Video Mute Capability** - Switches to "no source" for blank display.

SYNC FEATURES

- **Sync Reporting** - Captures and reports 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. An optional local control panel setting displays any input that does not have a valid sync signal.
- **Input Detection** - 200mv. Re-shapes and re-squares sync to output the correct TTL level.
- **Selectable Termination** - 510 or 75 Ω on inputs 1 to 8.

AUDIO FEATURES


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

- **Input (Level) Adjustment (-8dB to +10dB)** - For each input via RS-232, front panel, and TyLinX Pro Router Control Software. Balances audio levels in systems passing consumer and professional audio levels.
- **Output (Volume) Adjustment (Mute, -59.5dB to +15dB)** - For each input via RS-232, front panel, and TyLinX Pro Router Control Software.
- **Audio Mute Capability.**
- **Crosstalk** - < -89dB @1MHz.
- **LED Bar Graph Display** - For indicating audio signal levels on the front panel meter.

CONTROL FEATURES

- **Dedicated Front Panel Control** - Simple push-button interface on the front panel.
- **Tri-Color LED Buttons** - 28 backlit buttons: 12 input select buttons, 8 output select buttons, and 8 function buttons.
- **Special Setup Functions** - For easy installation.
- **Adjustable Button Brightness** - 8 levels of button light intensity.
- **Remote Control**
 - **RS-232/422.**
 - **RS-485** for optional control panels.
 - **Supports TCP/IP protocol** - rear panel RJ-45 connector.
 - **TyLinX Pro™ Router Control Software and TyLinX Pro Net™ Network-Enabled Router Control Software.**

OTHER FEATURES

- **Expand On Demand™ Instant Field Upgrade** - Allows the routing switcher to be instantly upgraded from Composite/RGB/Y Pb Pr video to full RGBHV video and to increase inputs and outputs, all without any physical modifications to the frame.
- **Energy Savings** - Uses 40% less power than previous generation RGBHV and RGB/Y Pb Pr routing switchers. 
- **Downloadable Firmware Updates.**
- **Certifications** - UL and CE.
- **Control Panels (Optional)** - Programmable, single bus and XY.



ROUTING SWITCHERS

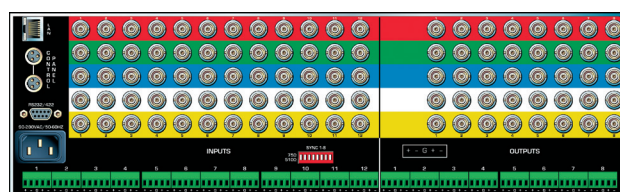
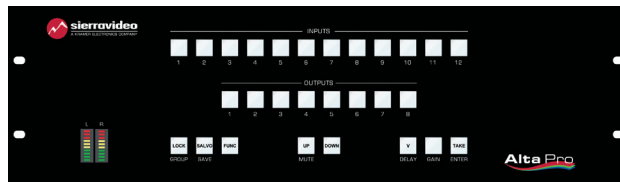
12x8, 12x4, 8x8 and 8x4 RGBHV and RGB/Y Pb Pr Routing Switchers with Balanced Audio

Alta Pro Wideband Routing Switchers pack the most punch of any presentation switcher Sierra Video has ever developed. Alta Pro RGBHV and RGB/Y Pb Pr routing switchers offer the highest-available bandwidth in the industry with extremely low crosstalk and a reduced footprint, while providing a significant reduction in power consumption.

Alta Pro Wideband Routing Switchers employ a single vertically-mounted video board which contains all the signal paths for video routing. Fewer boards means a simpler, and therefore even more reliable, product. These routing switchers are ideal for demanding RGB/Y Pb Pr, RGBHV and analog HD signal routing applications.

Alta Pro is housed in a 3RU (5.25") frame. Its push-button front control panel consists of 28 backlit buttons - 12 input select buttons, 8 output select buttons, and 8 function buttons – and features an LED bar graph display for VU measurements. Alta Pro supports TCP/IP protocol and RS-232 serial control.

The Expand On Demand™ Instant Field Upgrade feature allows you to simply contact the factory to get an instant upgrade to



Alta Pro 1208HB5S

your Alta Pro routing switcher. Upon purchase of the upgrade, Sierra Video provides you with a password that is entered into the routing switcher via the control system, instantly expanding the routing switcher. A frame can be upgraded from Component/RGB/Y Pb Pr video to RGBHV video and/or from a smaller configuration to 8x8, 12x4, or 12x8.

MODEL	FORMAT	INPUTS	OUTPUTS	SIZE	HEIGHT	DESCRIPTION
Alta Pro 1208 Series						
Alta Pro 1208HB5S	RGBHV	12	8	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 1208HB5	RGBHV	12	8	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 1208HB3S	RGB/Y Pb Pr	12	8	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 1208HB3	RGB/Y Pb Pr	12	8	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 1204 Series						
Alta Pro 1204HB5S	RGBHV	12	4	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 1204HB5	RGBHV	12	4	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 1204HB3S	RGB/Y Pb Pr	12	4	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 1204HB3	RGB/Y Pb Pr	12	4	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 88 Series						
Alta Pro 88HB5S	RGBHV	8	8	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 88HB5	RGBHV	8	8	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 88HB3S	RGB/Y Pb Pr	8	8	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 88HB3	RGB/Y Pb Pr	8	8	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 84 Series						
Alta Pro 84HB5S	RGBHV	8	4	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 84HB5	RGBHV	8	4	3RU	5.25"	5-channel wideband video routing switcher (600MHz @ -3dB)
Alta Pro 84HB3S	RGB/Y Pb Pr	8	4	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB) w/ stereo audio
Alta Pro 84HB3	RGB/Y Pb Pr	8	4	3RU	5.25"	3-channel wideband video routing switcher (600MHz @ -3dB)

PERFORMANCE SPECIFICATIONS

WIDEBAND VIDEO

Bandwidth	600MHz @-3dB
Video Gain	Unity
Crosstalk	-85dB @ 1MHz -56dB @ 100MHz -50dB @ 150MHz
Switching Speed	Deterministic field accurate switching during vertical interval

INPUT

Video Level	0.2V to 2.25V p-p with no offset
Impedance	
Video	75 Ω
Sync	510 Ω , switchable
Return Loss	< -11dB
Connector Type	BNC

OUTPUT

Video Level	0.2V to 2.25V p-p
Impedance	75 Ω
Return Loss	<-10dB
Connector Type	BNC

ANALOG STEREO AUDIO

Input Gain Adjust Range	+10dB to full mute
Output Gain Adjust Range	+10dB to full mute
Frequency Response	20Hz to 20kHz +/- 0.5dB
Dynamic Range	>96dB (20Hz to 20kHz)
Crosstalk (all inputs hostile)	< -89dB @1kHz (unity gain)
THD	< 0.025% (20Hz to 20kHz @+4dBu unity gain)
IM	< 0.025% SMPTE-DIN @+4dBu unity gain < 0.01% CCIF @+14dBu unity gain

INPUT

Max. Source Level	+14dBu
Impedance	>20k Ω

Connector Type	5-pin terminal block for balanced or unbalanced operation
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OUTPUT

Max. Source Level	+14dBu +8dBu unbalanced
Impedance	< 50 Ω
Connector Type	5-pin terminal block for balanced or unbalanced operation

CONTROL

Serial	General purpose 9-pin D-sub connector, switchable RS-232 or RS-422 9600, 38400, 115200 baud
Protocols	SVS host, simple Kramer, and select others
Ethernet	10/100BaseT, full-duplex, RJ-45 connector
Protocols	ARP, ICMP, TCP/IP, Telnet, HTTP
Web Server	For control
Control Panels	Supports SCP programmable control panels, XY and single bus control panels

GENERAL

Rack Unit Size/Frame	3RU
Dimensions	19" x 12.5" x 5.25" (W, D, H) Mounts in standard 19" rack Depth measurements do not include front panel hardware or rear cabling
Power Requirement	90-240VAC, 50/60Hz (<150W) auto-detecting
Power Usage	\leq 0.3 amps
Storage Temperature	-40° to +150°F
Operating Temperature	30° to 100°F ambient
Humidity	10% to 90% non-condensing
Warranty	7 years

SIERRA VIDEO HEADQUARTERS

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