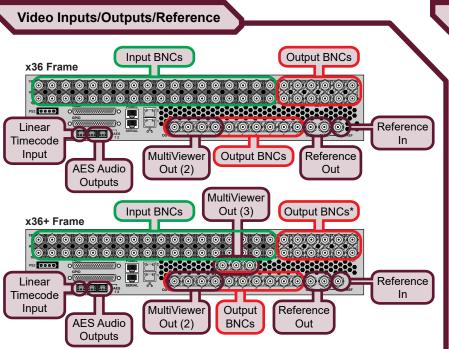
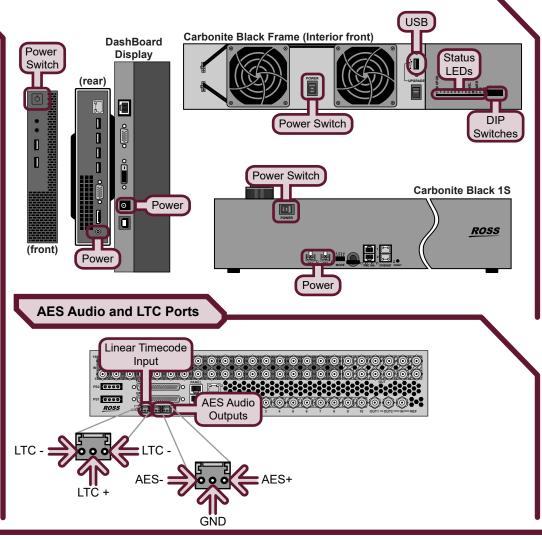
Power Switch, USB Port, and Diagnostics

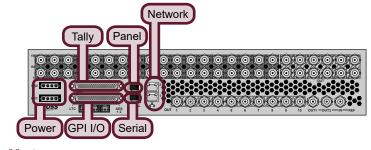
Switcher Specifications



- The number of available input and output BNCs depends on the frame you ordered.
- The 2 base MultiViewers are assigned to outputs 1 and 2, but can be re-assigned to outputs 3 and 4, respectively.
- The 3 additional MultiViewers on the x36+ frame are fixed to outputs MV3-5.
- Only Media-Store audio can be output on the AES audio outputs. Audio is not embedded in the MultiViewer output.
- Output BNCs* 11-22 on the x36+ frame have dedicated format converters and color correctors for each BNC.



Frame Ports and Pinouts



Note: The Panel port is used to connect to the Carbonite control panels.

| GPI I/O (female DB37) | Pin | Signal | 1 | GPI I/O 1 | 20 | GPI I/O 20 | 2 | GPI I/O 21 | 3 | GPI I/O 3 | 22 | GPI I/O 23 | 4 | GPI I/O 4 | 23 | GPI I/O 24 | GPI I/O 5 | 24 | GPI I/O 24 | GPI I/O 6 | GPI I/O

GPI I/O 6 GPI I/O 7 GPI I/O 25 26 GPI I/O 8 27 GPI I/O 26 GPI I/O 9 28 GPI I/O 27 GPI I/O 10 GPI I/O 28 GPI I/O 11 30 12 GPI I/O 12 Ground 13 GPI I/O 13 32 GPI I/O 30 GPI I/O 14 33 15 GPI I/O 15 GPI I/O 32 34 16 GPI I/O 16 35 GPI I/O 33 17 GPI I/O 17 36 GPI I/O 34 18 GPI I/O 18 37

19 GPI I/O 19

Tally (female DB37) **Pin** 20 Pin Tally Tally Common (2-6, 20-25) Tally 18 Tally 1 Tally 19 Tally 2 22 Tally 20 23 Tally 3 Tally 21 Tally 4 Tally 22 Tally 5 25 Tally 23 Tally 6 Tally 24 Tally 7 27 Tally 25 Tally 8 Tally 26 29 Tally 9 Tally 27 Tally 28 non (7-12, 26-30) 31 Tally 11 13 Tally 12 Tally 29 Tally 13 33 Tally 30 Tally 14 Tally 31 Tally 15 Tally 32 Tally 33 17 Tally 16 18 Tally 17 Tally 34 19 Common (13-18, 32-37)

Serial

(female RJ-45)

RS-422

Tx+

Tx-

Rx+

n/c

n/c

Rx-

Ground

Ground

6

Note: The tally pin must be connected to the proper common to complete the circuit. For example, tally 6 on pin 7 must be connected to the common on pin 31.

Specifications

Notes:

SDI Input Formats	
480i 59.94Hz	
576i 50Hz	
720p 59.94Hz	
720p 50Hz	
1080i 59.94Hz	
1080i 50Hz	
1080pSF 23.98Hz	
1080pSF 25Hz	
1080pSF 29.97Hz	
1080p 29.97Hz	
1080p 50Hz Level A	
1080p 59.94Hz Level A	

Default Values		
Frame IP (LAN1)	192.168.0.123	
Frame IP (LAN2)	0.0.0.0	
FTP User name	user	
FTP Password	password	
·		

Tally	Rating
Input Voltage:	24VAC (rms) / 40VD0
Maximum Current:	120mA
Impedance:	< 15 ohms

Impedance:	< 15 ohms
	Temperature
Operating:	0 - 40°C (32 - 104°F)
Storage:	-20 - 85°C (-4 - 185°F)

Power Consumption		
CB9	24W 2.0A 12V	
CB1	25W 2.1A 12V	
CB1S	30W 2.5A 12V	
CB2	35W 2.9A 12V	
CB2S	45W 3.8A 12V	
CB3S	65W 5.4A 12V	
CB3X	80W 6.7A 12V	
x36 Frame	120W 2.5A 48V	
x36+ Frame	180W 3.75A 48V	
x36+12G Frm	206W 4.3A 48V	

Input Voltages		
Panel/Frame	100 - 120V~	
	220 - 240V~	
	47-63Hz	

Video Input Specifications	
Equalization	>100m at 1.5 Gb/s
(using Belden 1694 cable)	>300m at 270 Mb/s (5°-40°C)
Impedance	75 ohm, terminating
Video Inputs, SDI	SMPTE 259M/292M serial digital (non-looping)
Reference Inputs (non-terminating, looping)	Standard Definition — analog black High Definition — tri-level sync

Video Output Specifications		
Return Loss	< -23dB at 1.5GHz	
	< -18dB at 3GHz	
Rise and Fall Time	800ps +/- 10% (SD)	
	240ps +/- 10% (HD)	
Signal Level	800mV +/- 10%	
DC Offset	0 Volts	
Overshoot	< 10%	
HD Mode	10-bit SMPTE-292M serial digital	

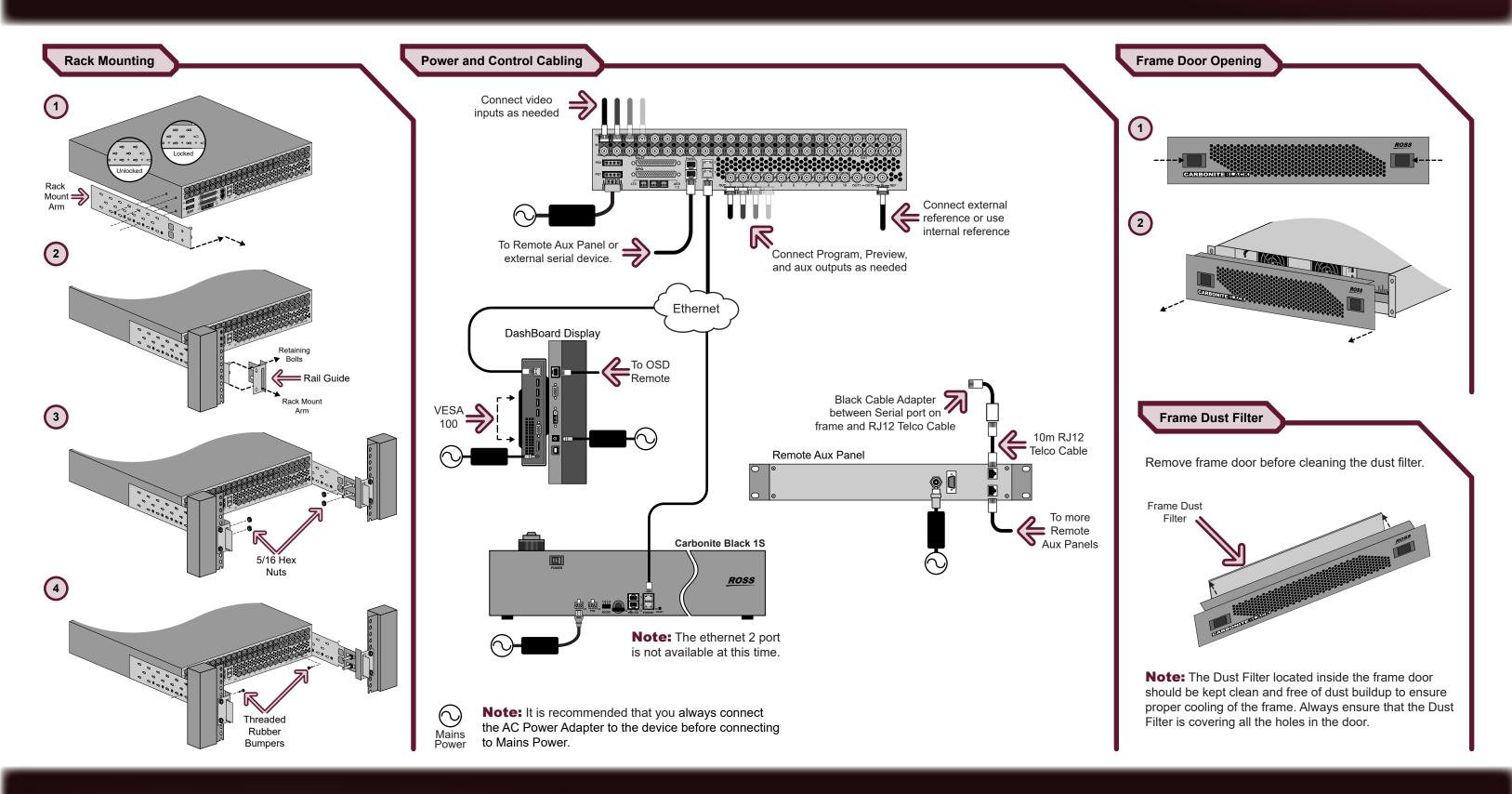
AES Output	Specifications
Audio Depth	24-bit in HD 20-bit in SD
Channels	1 Stereo Pair
File Format	Multi-Channel Waveform Audio File
Impedance	110 Ohms, differential
Min/Max Output Voltage Swing	1.5/6V peak-to-peak
Rise and Fall Times	20ns (typical)
Sample Rate	48kHz
Synchronization	Locked to Video







Frame Installation and Cabling







Email: techsupport@rossvideo.com