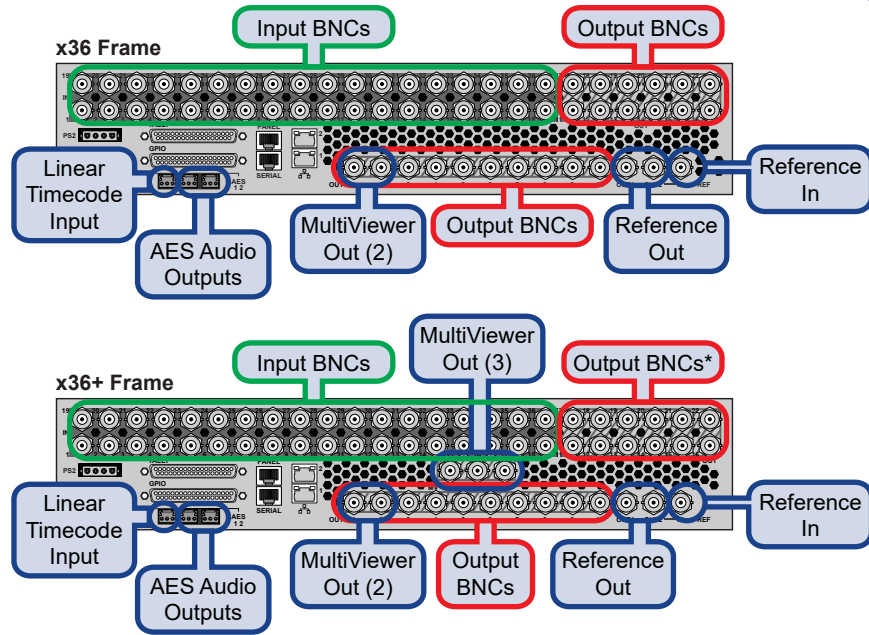


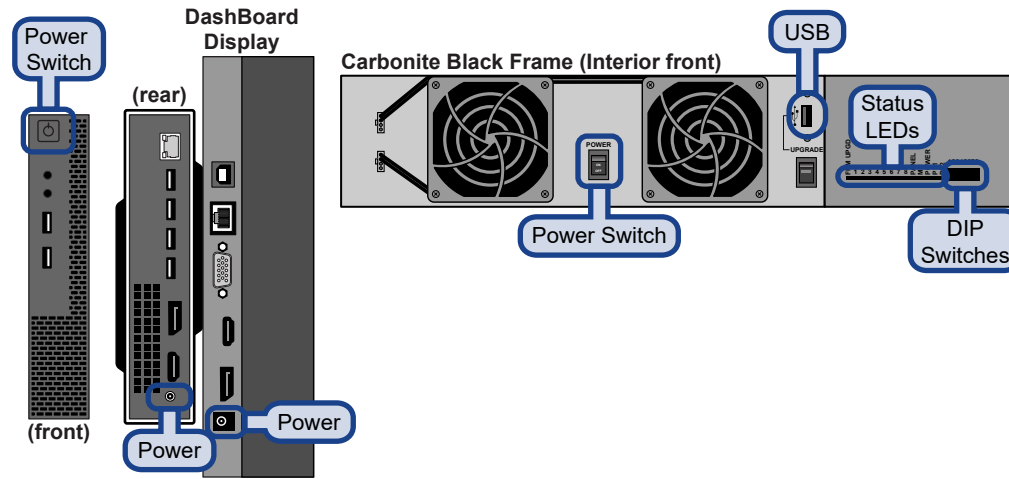
Video Inputs/Outputs/Reference



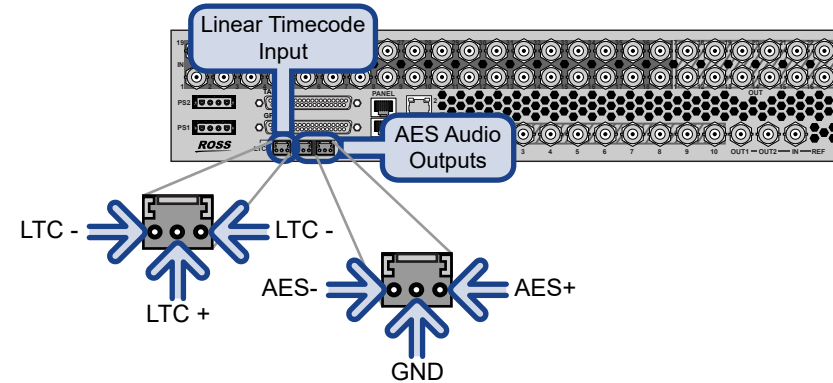
Notes:

- The number of available input and output BNCs depends on the frame you ordered.
- The 2 base MultiViewers are fixed to outputs 1 and 2, 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.

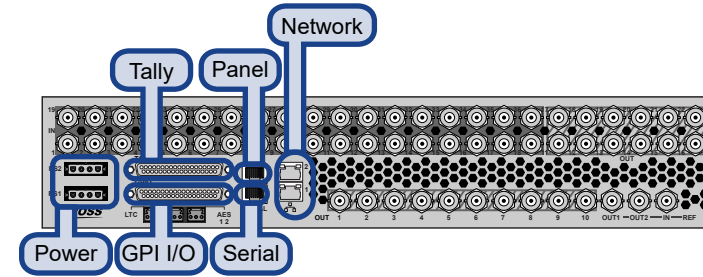
Power Switch, USB Port, and Diagnostics



AES Audio and LTC Ports



Frame Ports and Pinouts



Serial (female RJ-45)

Pin	RS-422
1	Tx+
2	Tx-
3	Rx+
4	n/c
5	n/c
6	Rx-
7	Ground
8	Ground

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

GPI I/O (female DB37)

Pin	Signal	Pin	Signal
1	GPI I/O 1	20	GPI I/O 20
2	GPI I/O 2	21	GPI I/O 21
3	GPI I/O 3	22	GPI I/O 22
4	GPI I/O 4	23	GPI I/O 23
5	GPI I/O 5	24	GPI I/O 24
6	GPI I/O 6	25	Ground
7	GPI I/O 7	26	GPI I/O 25
8	GPI I/O 8	27	GPI I/O 26
9	GPI I/O 9	28	GPI I/O 27
10	GPI I/O 10	29	GPI I/O 28
11	GPI I/O 11	30	GPI I/O 29
12	GPI I/O 12	31	Ground
13	GPI I/O 13	32	GPI I/O 30
14	GPI I/O 14	33	GPI I/O 31
15	GPI I/O 15	34	GPI I/O 32
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	Tally	Pin	Tally
1	Common (2-6, 20-25)	20	Tally 18
2	Tally 1	21	Tally 19
3	Tally 2	22	Tally 20
4	Tally 3	23	Tally 21
5	Tally 4	24	Tally 22
6	Tally 5	25	Tally 23
7	Tally 6	26	Tally 24
8	Tally 7	27	Tally 25
9	Tally 8	28	Tally 26
10	Tally 9	29	Tally 27
11	Tally 10	30	Tally 28
12	Tally 11	31	Common (7-12, 26-30)
13	Tally 12	32	Tally 29
14	Tally 13	33	Tally 30
15	Tally 14	34	Tally 31
16	Tally 15	35	Tally 32
17	Tally 16	36	Tally 33
18	Tally 17	37	Tally 34
19	Common (13-18, 32-37)		

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

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) / 40VDC
Maximum Current:	120mA
Impedance:	< 15 ohms
Temperature	
Operating:	0 - 40°C (32 - 104°F)
Storage:	-20 - 85°C (-4 - 185°F)

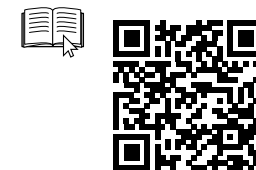
Power Consumption	
CB9	24W 2.0A 12V
CB1	25W 2.1A 12V
CB1S	30W 2.5A 12V
CB2	35W 2.9A 12V
CB2S	45W 3.8A 12V
CB3S	65W 5.4A 12V
CB3X	80W 6.7A 12V
x36 Frame	120W 2.5A 48V
x36+ Frame	180W 3.75A 48V
x36+12G Frm	206W 4.3A 48V

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

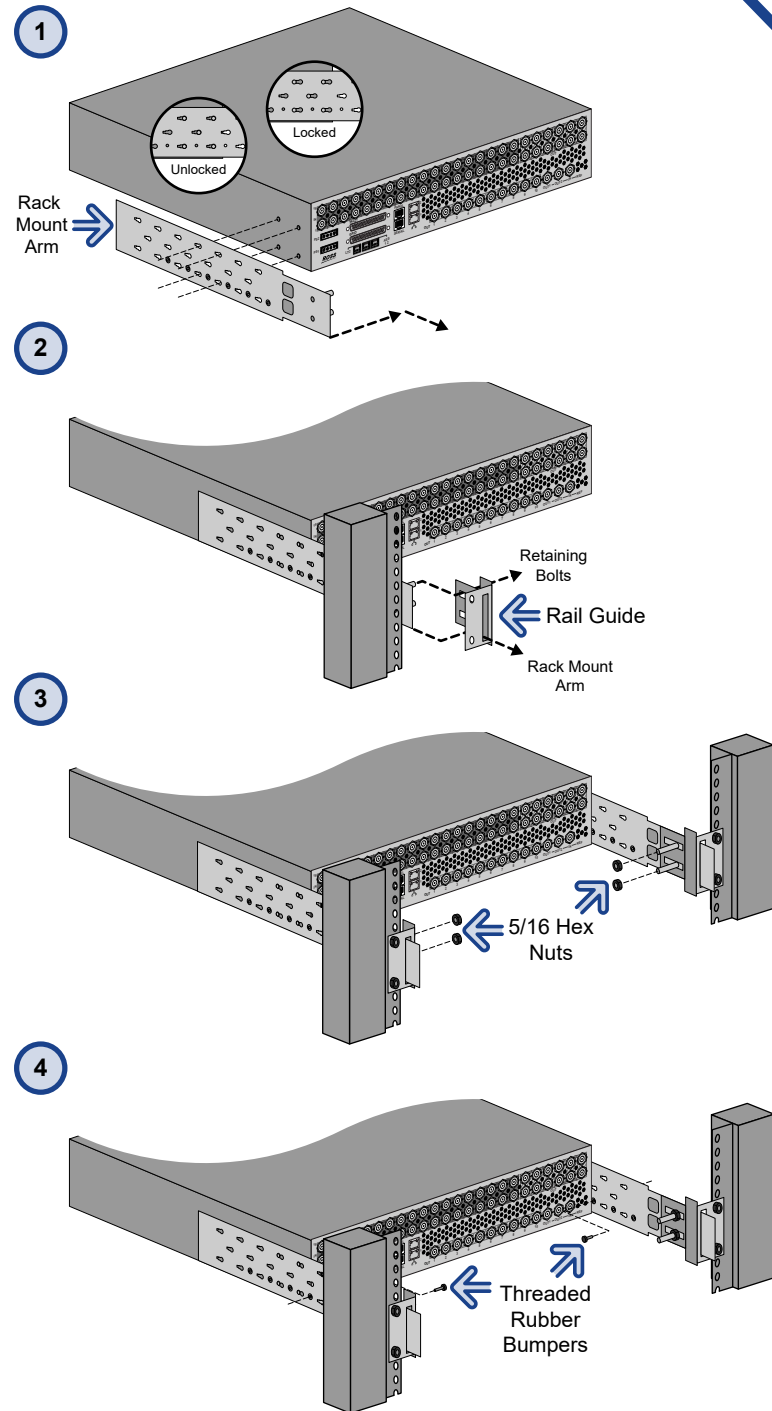
Video Input Specifications	
Equalization	>100m at 1.5 Gb/s (using Belden 1694 cable)
Impedance	>300m at 270 Mb/s (5°-40°C)
Video Inputs, SDI	75 ohm, terminating
Reference Inputs (non-terminating, looping)	SMPTE 259M/292M serial digital (non-looping)
	Standard Definition — analog black
	High Definition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

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

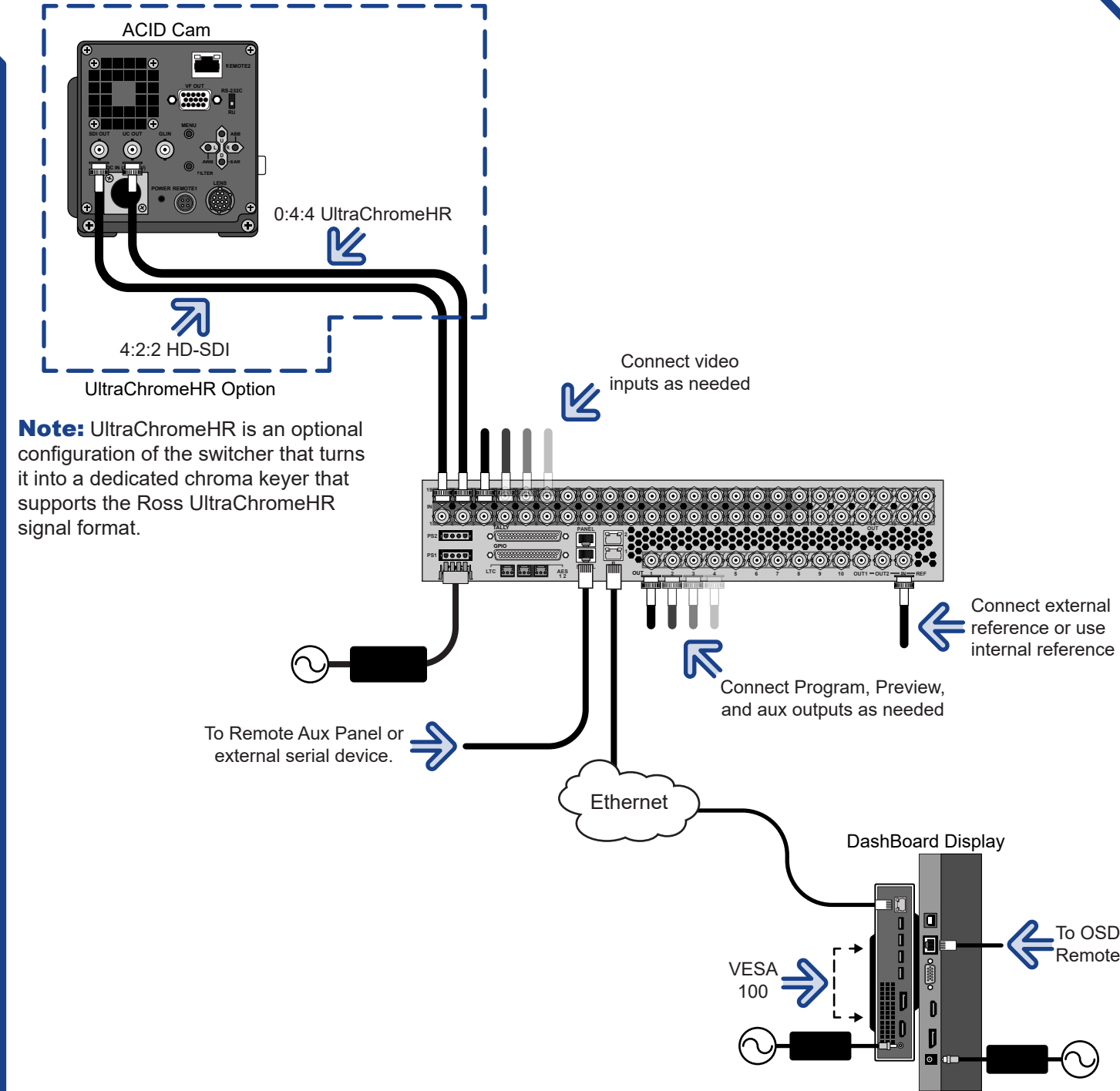
AES Output Specifications	
Audio Depth	24-bit in HD
Channels	20-bit in SD
File Format	1 Stereo Pair
Impedance	Multi-Channel Waveform
Min/Max Output Voltage	Audio File
Swing	110 Ohms, differential
Rise and Fall Times	1.5/6V peak-to-peak
Sample Rate	20ns (typical)
Synchronization	48kHz
	Locked to Video



Rack Mounting

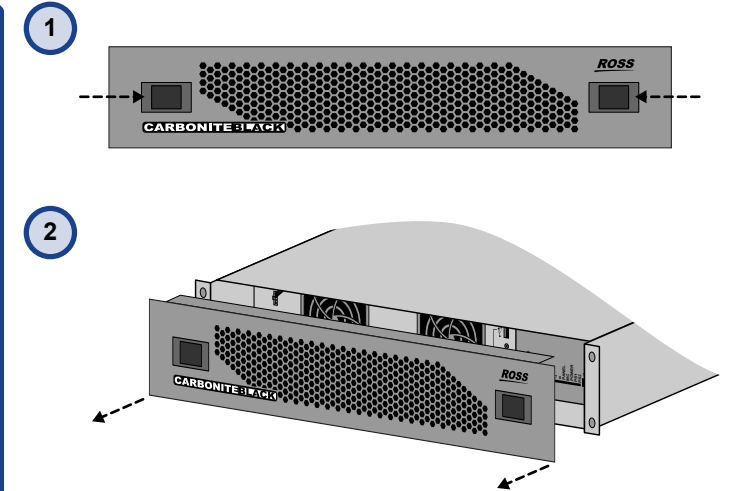


Power and Control Cabling



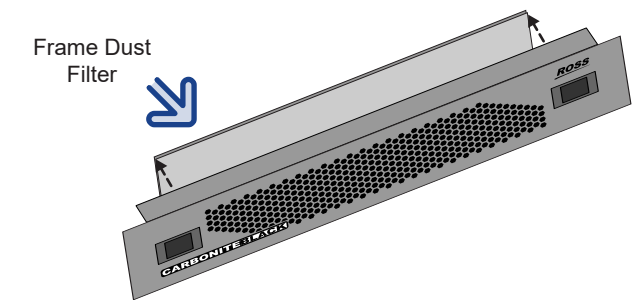
Note: It is recommended that you always connect the AC Power Adapter to the device before connecting to Mains Power.

Frame Door Opening



Frame Dust Filter

Remove frame door before cleaning the dust filter.



Note: The Dust Filter located inside the frame door should be kept clean and free of dust buildup to ensure proper cooling of the frame. Always ensure that the Dust Filter is covering all the holes in the door.

Having a problem? Call our free, 24-hour technical support hotline to speak with a live product specialist located right here in our facility.

Tel: (+1) 613 • 652 • 4886
Email: techsupport@rossvideo.com