

Notes:

• IN1 loops to OUT1 and IN3 loops to OUT3 in bypass mode when the switcher sub-system is not running. (Cable length depends on the equipment you are using.)

HD-BNC

- MultiViewer outputs are only available on OUT5 and 6.
- · HDMI audio is not supported.
- HDMI output formats are the same as the switcher is operating in. No format conversion is applied to the output except for the MultiViewer that can be 1080p.
- The ethernet port on the right at the back of the server has be set to the default IP address for XPression. The other port is set to DHCP.
- The Switcher USB port is connected to the switcher sub-system and not available to the Windows OS.

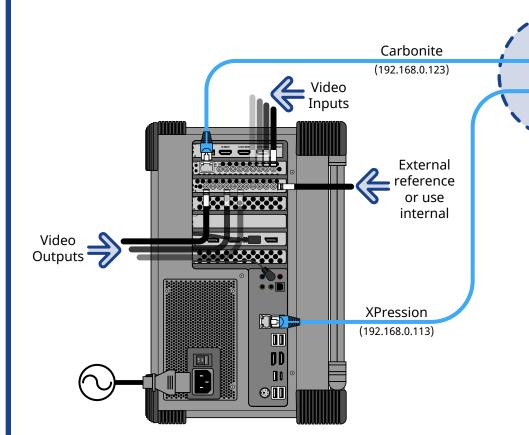
-20 - 60°C (-4 - 140°F)

Power and Control Cabling

Note: If you direct connect XPression to Carbonite, you must run DashBoard on the XPression server and you cannot connect a separate control panel to Carbonite.

Direct Connect XPression and Carbonite Ethernet Ports
OR

Connect to External Network Switch



To Control Panel

To DashBoard

Network

To Connect to the Switcher from DashBoard

- Click File > New > Manual Connection.
- **2.** In the **IP Address** field, enter the IP address of Carbonite, not the IP address of XPression.
- 3. Click Detect Settings.
- 4. Click **Finish**.

Specifications

Video 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 25Hz		
1080p 29.97Hz		
1080p 50Hz Level A		
1080p 59.94Hz Level A		

Default Values			
Switcher IP	192.168.0.123		
XPression IP	192.168.0.113		
FTP User name	user		
FTP Password	password		
Tally Rating			
Input Voltage:	24VAC (rms) / 40VDC		

Temp	erature	
Impedance:	< 15 ohms	
Maximum Current:	120mA	
iriput voitage.	24VAC (1111S) / 40VDC	

Storage:

Power Consumption			
PC	185W	1.54A	120V
Audio Bre	akout 45W	3.75A	12V

_		>300m @ 270 Mb/s (5°-40°C)
Input Voltages	Impedance	75 ohm, terminating
100 - 120V~ 220 - 240V~	Video Inputs, SDI	SMPTE 259M/292M (non-looping)
47-63Hz	Video Inputs, HDMI	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	Ref Inputs (75 ohm,	SD — analog black

Equalization

Mains

Video Input Specifications

(Belden 1694 cable) >100m @ 1.5 Gb/s

>50m @ 3Gb/s

Video Output Specifications			
Return Loss	>15dB 5Mb/s to 1.5Gb/s		
(w/o bypass)	>10dB 1.5Gb/s to 3Gb/s		
Return Loss	>13dB 5Mb/s to 1.5Gb/s		
(w/ bypass)	>10dB 1.5Gb/s to 3Gb/s		
Rise & Fall Time	800ps +/- 10% (SD)		
	240ps +/- 10% (HD)		
Signal Level	800mV +/- 10%		
DC Offset	0 Volts		
Overshoot	< 10%		
SDI HD Mode	10-bit SMPTE-292M		
HDMI	HDMI 1.4		
	High Speed Cable		
	riigii speca cabie		

Note: It is recommended that you always connect the AC

Power Cord to the device before connecting to Mains Power.

_	Analog Audio Ing	out Specifications
s	Input Impedance	XLR: 2K ohm
5		¼" Jack: 10K ohm
s	Maximum Level	+24dBu
5	Frequency Response	±0.3dB (22Hz to
		20kHz @ Fs = 48kHz)
	Signal to Noise Ratio	-95dB
	"A" weighting	-98dB
	CCITT weighting	-107dB
	THD	>93dB or <0.002%
	Amplitude Linearity	<0.8dB @ -100dBFS
	Crosstalk	-014B

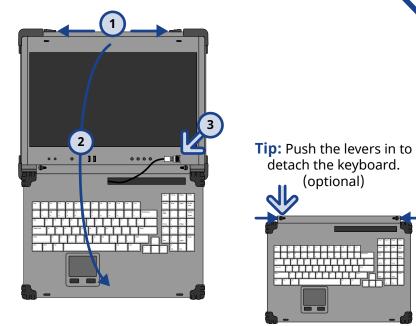
Maximum Level	+24dBu
Frequency Response	±0.4dB (22Hz to
	20kHz @ Fs = 48kHz)
Signal to Noise Ratio	-103dB
THD	>93dB
Amplitude Linearity	<0.3dB @ -100dBFS
Crosstalk	-106dB (20Hz to
	20kHz)





GRAPHITE PPC

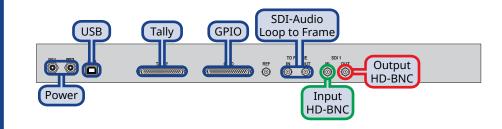






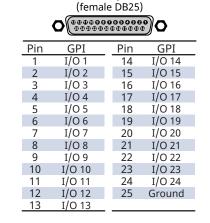
Audio Breakout Module (ABM)





(female DB25)				
Pin	Tally	Pin	Tally	
1	1	14	14	
2 3 4 5	2	15	15	
3	3	16	16	
4	4	17	17	
5	5	18	18	
6	6	19	19	
7	7	20	20	
8	8	21	21	
9	9	22	22	
10	10	23	23	
11	11	24	24	
12	12	25	Common	

Tally

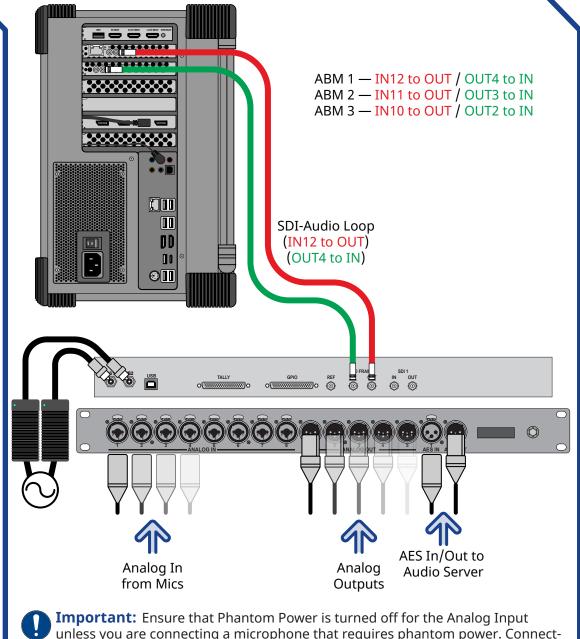


GPI I/O

Notes:

- All digital audio must be reference locked (timed) to the same reference that the switcher subsystem is using. This includes both SDI embedded audio and AES audio inputs on the 1RU Audio Breakout Module.
- The SDI-Audio Loop HD-BNCs are for passing embedded audio to and from the audio mixer.
- The SDI1 In and Out HD-BNCs replace the HD-BNCs on the server that are used by the Audio Breakout Unit.
- The REF input is not available at this time.

Power and Cabling



Important: Ensure that Phantom Power is turned off for the Analog Input unless you are connecting a microphone that requires phantom power. Connecting the line out from an audio device to the analog input with phantom power on could damage the audio device and/or the 1RU Audio Breakout Module. For added safety, a TRS phone connecter should be used for line in audio sources.



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



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

