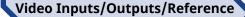
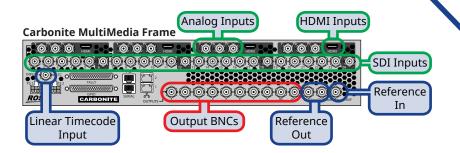
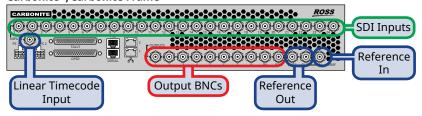
Switcher Specifications





Carbonite+/Carbonite Frame

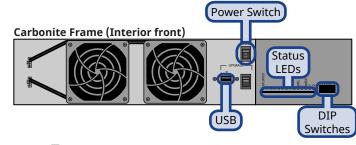


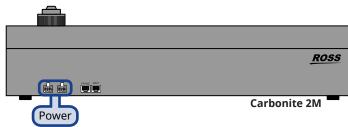
Note: If you purchased the 16 input variant of Carbonite (116 or 216), only the first 16 Input BNCs on the back of the frame can be used.

Note: Only one of Analog Input 1, HDMI 1, and SDI Input BNC 6 can be used at the same time. The same applies to Input BNCs 12, 18,

Note: MultiViewers can be assigned to any assignable output, or to PV.

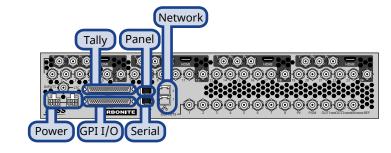
Power Switch, USB Port, and Diagnostics





Note: The Carbonite 10 control panel has a power switch to power it on, or off. The other Carbonite control panels power on automatically when the power supply is plugged in.

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	

(female DB37) Signal GPI I/O 1 20 GPI I/O 20 2 GPI I/O 2 21 GPI I/O 21 22 GPI I/O 22 GPI I/O 3 GPI I/O 4 23 GPI I/O 23 GPI I/O 5 24 GPI I/O 24 GPI I/O 6 25 Ground GPI I/O 7 26 GPI I/O 25 8 GPI I/O 8 27 GPI I/O 26 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 (unused)

19 GPI I/O 19

GPI I/O

(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)		

Tally

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

HDMI Input Formats		
VGA	640×480 (4:3)	
SVGA	800×600 (4:3)	
XGA	1024×769 (4:3)	
SXGA	1280×1024 (5:4)	
720p	1280×720 (16:9)	
1080i	1920×1080 (16:9)	
1080p	1920×1080 (16:9)	
	-	

Input Formats	SDI Input Format
640×480 (4:3)	480i 59.94Hz
800×600 (4:3)	576i 50Hz
1024×769 (4:3)	720p 59.94Hz
1280×1024 (5:4)	720p 50Hz
1280×720 (16:9)	1080i 59.94Hz
1920×1080 (16:9)	1080i 50Hz
1920×1080 (16:9)	1080pSF 23.98Hz
	1080pSF 25Hz
	1080pSF 29.97Hz
	1080p 29.97Hz
	1080p 50Hz Level A
	1080p 59.94Hz Leve

Input Formats	ретац	uit vaiues
l80i 59.94Hz	Frame IP (LAN1)	192.168.0.12
576i 50Hz	Frame IP (LAN2)	0.0.0.0
20p 59.94Hz	FTP User name	user
720p 50Hz	FTP Password	password
080i 59.94Hz	Talls	y Rating
1080i 50Hz		
	Input Voltage:	24VAC (rms) / 40
80pSF 23.98Hz	Maximum Current	
080pSF 25Hz		
	Impedance:	< 15 ohms
80pSF 29.97Hz	`	
080p 29.97Hz	Tem	perature
0p 50Hz Level A	Operating:	0 - 40°C (32 - 104°
59.94Hz Level A	Storage:	-20 - 85°C (-4 - 185
		•

It Values	Inp
192.168.0.123	Panel/Frame
0.0.0.0	
user	
password	Frame Po
Rating	Carbonite
24VAC (rms) / 40VDC	Carbonite+
120mA	Carbonite M
< 15 ohms	
erature	
0 - 40°C (32 - 104°F)	
00 0506 (4 40505)	

Input	Voltages	Wei	ghts
nel/Frame <i>1</i>	100 - 120V~	Carbonite 10	7lb (
2	220 - 240V~	Carbonite 1-A	13lb
	47-63Hz	Carbonite 1M	15lb
ramo Bowe	er Consumption	Carbonite 2	20lb
		Carbonite 2M	24lb (
bonite	90W 7.5A 12V	Carbonite 2S	26lb (
bonite+	110W 9.2A 12V	Carbonite 2X	29lb (
bonite MM	125W 10.4A 12V	Carbonite 3S	37lb (
		Carbonite 3X	41lb (
		Carbonite	17lb
		Carbonite+	18lb
		Carbonite MM	10lh

We	ights	Panel Powe	r Consumption
Carbonite 10	7lb (3.2kg)	Carbonite 10	24W 2.0A 12
Carbonite 1-A	13lb (5.9kg)	Carbonite 1-A	30W 2.5A 12
Carbonite 1M	15lb (6.8kg)	Carbonite 1M	30W 2.5A 12
Carbonite 2	20lb (9.1kg)	Carbonite 2	42W 3.5A 12
Carbonite 2M	24lb (10.9kg)	Carbonite 2M	50W 4.2A 12
Carbonite 2S	26lb (11.8kg)	Carbonite 2S	54W 4.5A 12
Carbonite 2X	29lb (13.2kg)	Carbonite 2X	66W 5.5A 12
Carbonite 3S	37lb (16.8kg)	Carbonite 3S	66W 5.5A 12
Carbonite 3X	41lb (18.6kg)	Carbonite 3X	84W 7.0A 12
Carbonite	17lb (7.7kg)		
^arhonite+	18lh (8.2kg)		

	Video Input Specifications		
	Equalization	>100m @ 1.5 Gb/s	
	(using Belden 1694 cable)	>300m @ 270 Mb/s (5°-40°C)	
	Impedance	75 ohm, terminating	
	Video Inputs, SDI	SMPTE 259M/292M serial digital (non-looping)	
	Video Inputs, HDMI	HDMI 1.4 High Speed HDMI Cable (Max 10m)	
	Video Inputs, Analog	Levels — 1V peak-to-peak, nominal	
_	Reference Inputs	Standard Definition — analog black	
	(non-terminating, looping)	High Definition — tri-level sync	

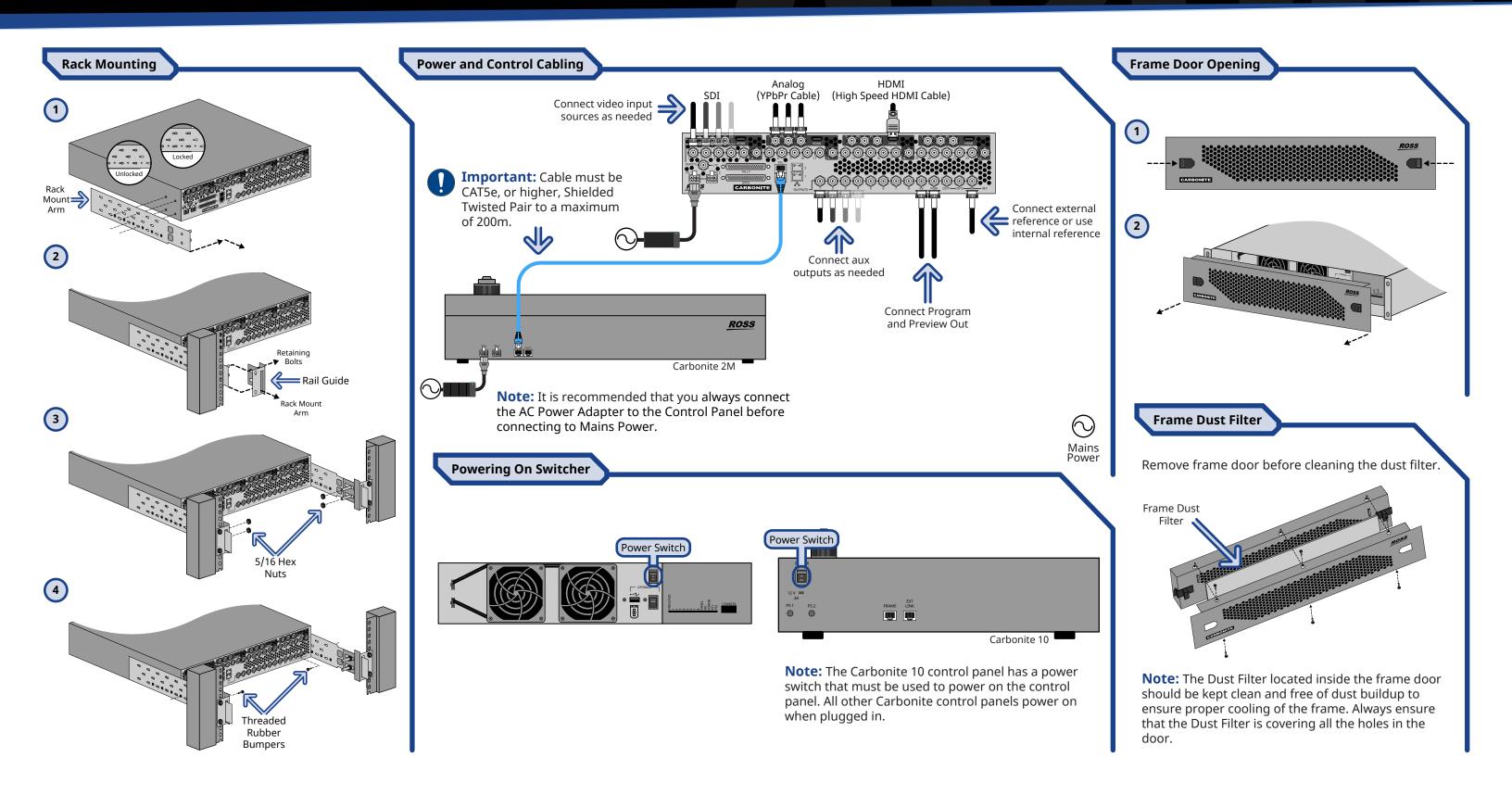
	Video Output Specifications		
	Return Loss	< -23dB @ 1.5GHz	
		< -18dB @ 3GHz	
	Rise and Fall Time	800ps +/- 10% (SD)	
		240ps +/- 10% (HD)	
	Signal Level	800mV +/- 10%	
	DC Offset	0 Volts	
n)	Overshoot	< 10%	
al	HD Mode	10-bit SMPTE-292M serial digital	
-1.			







Frame Installation and Cabling







Email: techsupport@rossvideo.com

