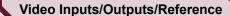
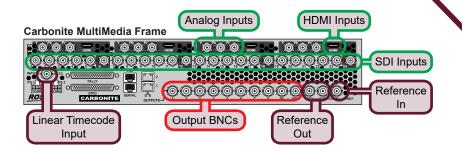
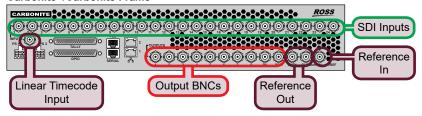
Caution: Before you set up and operate your switcher, see the "Important Safety Instructions" in your Setup manual.

Switcher Specifications





Carbonite+/Carbonite Frame

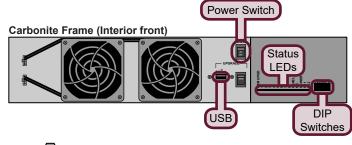


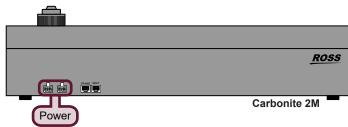
Note: If you purchased the 16 input variant of Carbonite (116 or 216), only the first 16 Input BNCs on the back of the frame can be used.

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, and 24.

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

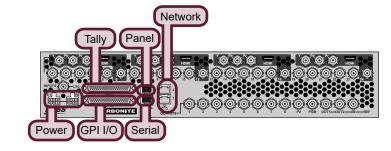
Power Switch, USB Port, and Diagnostics





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	

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	(unused)
19	GPI I/O 19		

Tally Common (2-6, 20-25) 20 Tally 18 21 Tally 19 Tally 1 22 Tally 20 23 Tally 21 Tally 3 Tally 4 24 Tally 22 Tally 5 25 Tally 23 Tally 6 26 Tally 24 27 Tally 25 Tally 7 Tally 8 Tally 26 28 10 Tally 9 29 Tally 27 Tally 10 Tally 28 Tally 11 31 non (7-12, 26-30) 13 Tally 12 32 Tally 29 33 Tally 13 Tally 30 Tally 14 16 Tally 32 Tally 15 Tally 33

37

Tally 34

Tally

(female DB37)

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.

Tally 17

19 Common (13-18, 32-37)

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)

_	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			

lally	Rauny	
Input Voltage:	24VAC (rms) / 40VDC	
Maximum Current:	120mA	
Impedance:	< 15 ohms	
Temperature		
Operating: 0 - 40°C (32 - 104°F		

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

Frame Power Consumption		
Carbonite	90W 7.5A 12V	
Carbonite+	110W 9.2A 12V	
Carbonite MM	125W 10.4A 12V	

	Wei	ghts
_	Carbonite 10	7lb (3.2kg)
	Carbonite 1-A	13lb (5.9kg)
	Carbonite 1M	15lb (6.8kg)
	Carbonite 2	20lb (9.1kg)
_	Carbonite 2M	24lb (10.9kg)
,	Carbonite 2S	26lb (11.8kg)
/	Carbonite 2X	29lb (13.2kg)
<u> </u>	Carbonite 3S	37lb (16.8kg)
	Carbonite 3X	41lb (18.6kg)
	Carbonite	17lb (7.7kg)
	Carbonite+	18lb (8.2kg)
	Carbonite MM	19lb (8.6kg)

Panel Power Consumption				
Carbonite 10	24W	2.0A	12V	
Carbonite 1-A	30W	2.5A	12V	
Carbonite 1M	30W	2.5A	12V	
Carbonite 2	42W	3.5A	12V	
Carbonite 2M	50W	4.2A	12V	
Carbonite 2S	54W	4.5A	12V	
Carbonite 2X	66W	5.5A	12V	
Carbonite 3S	66W	5.5A	12V	
Carbonite 3X	84W	7.0A	12V	

Video Input Specifications			
>100m @ 1.5 Gb/s			
>300m @ 270 Mb/s (5°-40°C)			
75 ohm, terminating			
SMPTE 259M/292M serial digital (non-looping)			
HDMI 1.4 High Speed HDMI Cable (Max 10m			
Levels — 1V peak-to-peak, nomina			
Standard Definition — analog black			
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
)	Overshoot	< 10%
	HD Mode	10-bit SMPTE-292M serial digital



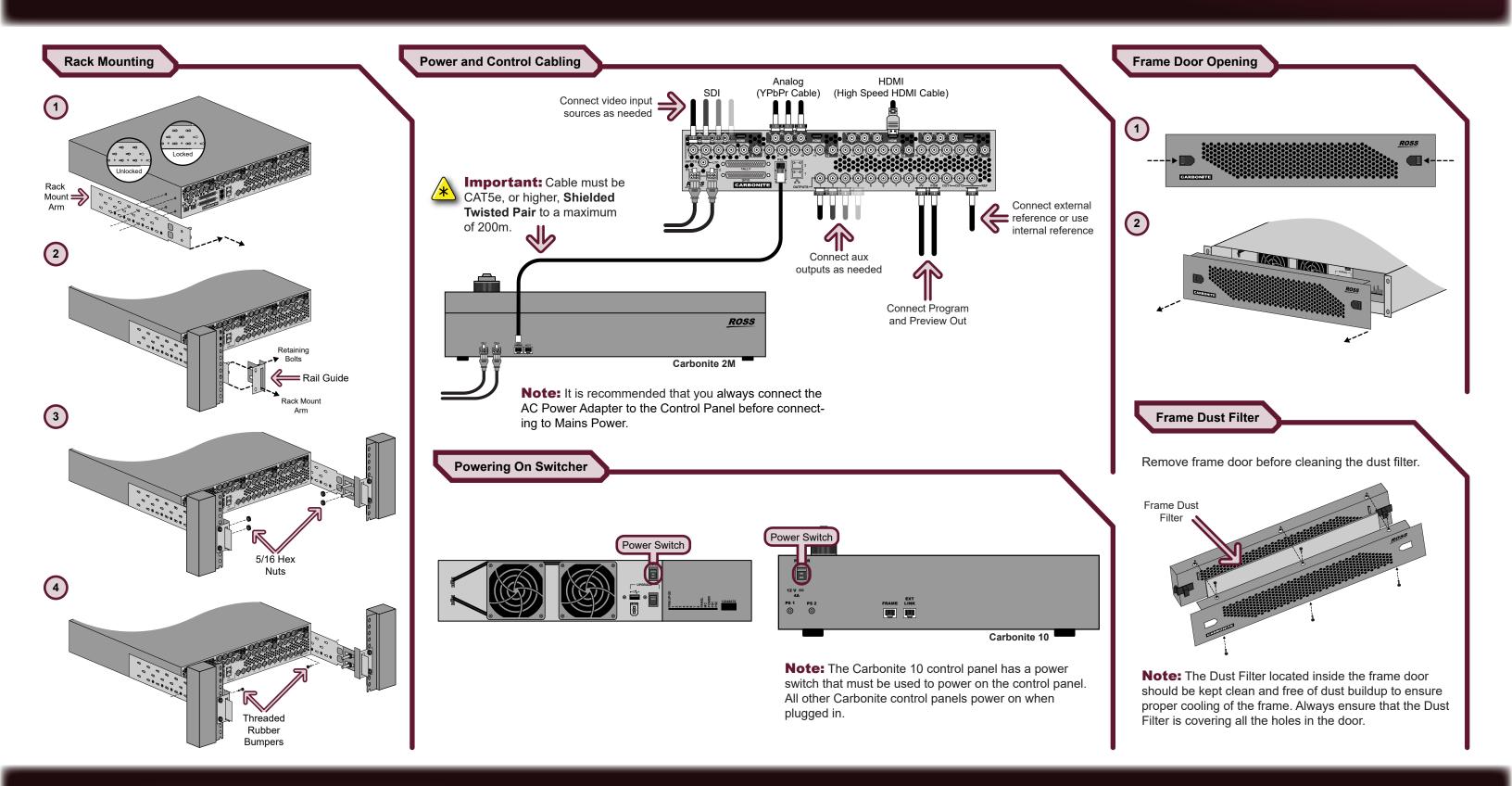


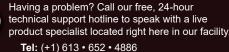


-20 - 85°C (-4 - 185°F)

Caution: Before you set up and operate your switcher, see the "Important Safety Instructions" in your Setup manual.

Frame Installation and Cabling





Email: techsupport@rossvideo.com

