

PRODUCT MATRIX



CARBONITE Ultra

CARBONITE Ultra⁶⁰



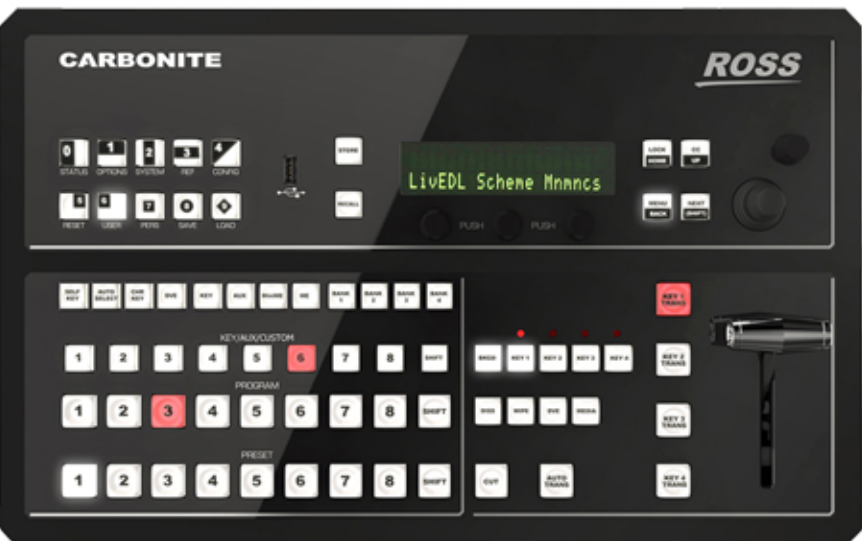
GRAPHITE



Ultrix CARBONITE



CARBONITE BACK SOLO



PHYSICAL												
<div>ROSS</div>	CARBONITE <div>SOLO</div>				GRAPHITE			CARBONITE <div>Ultra</div>	CARBONITE <div>Ultra⁶⁰</div>	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO I3	CBF I13	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
Separate Rack Frame & Panel	✗	✓	✗	✓	✓	✓	N/A	✓	✓	✓	✓	✓
Rack Frame Height (RU)	✗	1	✗	1	4	14.63" (371.5 mm)	N/A	1	3	2	5	12
Rack Frame Width	16.20" (411.50 mm)	18.98" (482.10 mm)	16.20" (411.50 mm)	18.98" (482.10 mm)	16.00" (430.00 mm)	17.09" (434.00 mm)	N/A	18.98" (482.10 mm)	17.5" (444.5 mm)	17.50" (444.5 mm)	17.50" (444.5 mm)	17.50" (444.5 mm)
Rack Frame Depth	10.60" (255.50 mm)	10.00" (254.00 mm)	10.60" (255.50 mm)	10.00" (254.00 mm)	23.30" (592.00 mm)	9.05" (230.00 mm)	N/A	10.00" (254.00 mm)	17.5" (444.5 mm)	7.90" (200.66 mm)	7.90" (200.66 mm)	7.90" (200.66 mm)
Rack Frame Weight	10.00 lbs. (4.54 kg.)	8.00 lbs. (3.63 kg.)	11.00 lbs. (4.99 kg.)	9.00 lbs. (4.08 kg.)	62.00 lbs. (28.12 kg.)	42.00 lbs. (19.05 kg.)	N/A	13.00 lbs. (5.90 kg.)	20.00 lbs (9.07 kg.)	12.00 lbs. (5.44 kg.) Blade (approx.) 3 lbs. (1.36 kg.) Ultripower: 10.6 lbs. (4.83 kg.)	14.00 lbs. (6.35 kg.) Blade (approx.) 3 lbs. (1.36 kg.) Ultripower: 10.6 lbs. (4.83 kg.)	76.00 lbs. (34.47 kg.) Blade (approx.) 3 lbs. (1.36 kg.) Ultripower: 10.6 lbs. (4.83 kg.)
Maximum SDPE Blades per Chassis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	4	16
Power Consumption	57W 4.75A 12VDC	66W 5.50A 12VDC	45W 3.75A 12VDC	48W 4.00A 12VDC	520W 4.70A 120V	185W 1.5A 120V	N/A	114W 7.6A 15VDC		See Note		
Input Power	100 - 120 V, 220 - 240V, 47 - 63 Hz, 1.6 A						N/A	100 - 120 V, 220 - 240V, 47 - 63 Hz, 1.6 A		See Note		
NOTE: Power requirements and consumption dependent on I/O and SDPE blade complement.												
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.										

PORTS												
<div>ROSS</div>	CARBONITE <div>SOLO</div>				GRAPHITE			CARBONITE <div>Ultra</div>	CARBONITE <div>Ultra 60</div>	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO I3	CBF I13	GRAPHITE 2 (1 Carbonite, 1 Windows)	GRAPHITE PPC 2 (1 Carbonite, 1 Windows)	GRAPHITE CPC N/A	CARBONITE ULTRA 1	CARBONITE ULTRA 60 1	FR2 Blades & Chassis	FR5 Blades & Chassis	FR12 Blades & Chassis
Ethernet Port (Frame)	1	1	1	1	2 (1 Carbonite, 1 Windows)	2 (1 Carbonite, 1 Windows)	N/A	1	1	Blades & Chassis	Blades & Chassis	Blades & Chassis
Tally	16	16	16	16	16 ¹	16 ¹	N/A	24	24	24 per SDPE blade	24 per SDPE blade	24 per SDPE blade
GPI/O	24	24	24	24	24 ¹	24 ¹	N/A	24	24	24 per SDPE blade	24 per SDPE blade	24 per SDPE blade
Serial Ports (Frame)	1	1	1	1	✗	✗	N/A	✗	✗	1	1	1
LTC Input	✗	✗	✗	✗	✓	✓	N/A	✓	✓	1	1	1
AES Input	✗	✗	✗	✗	✓ ¹	✓	N/A	✗	✗	✗	✗	✗
AES Output	✓	✓	✓	✓	✓	✓	N/A	✓	✗	2	2	2
Reference Input	1	1	1	1	1	1	N/A	1	1	1 ³	2 ³	2 ³
Reference Loop	✗	✗	✗	✗	✗	✗	N/A	1 ²	1 ²	1 ³	2 ³	2 ³
Independent Reference Output	✗	✗	✗	✗	✗	✗	N/A	1	1	✗	✗	✗
					¹ On Audio Breakout Module			² Using Reference Output.		³ On Ultrix frame.		
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SUPPORTED VIDEO STANDARDS													
ROSS		CARBONITE 3744K SOLO				GRAPHITE			CARBONITE Ultra	CARBONITE Ultra 60	Ultrix CARBONITE		
		SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
										NOTE: Support for SD & UHD formats available late 2023			
SD	480i /59.94	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
	576i /50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
HD 720p	720p /50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	720p /59.94	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HD pSF	1080 pSF /23.98	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080 pSF /24	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
	1080 pSF /25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080 pSF /29.97	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080 pSF /30	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
HD 1080i	1080i /25	✗	✗	✗	✗	✗	✗		✓	✓	✓	✓	✓
	1080i /29.97	✗	✗	✗	✗	✗	✗		✓	✓	✓	✓	✓
	1080i /30	✗	✗	✗	✗	✗	✗		✓	✓	✓	✓	✓
	1080i /50	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
	1080i /59.94	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
HD 1080p	1080p /23.98	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
	1080p /24	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
	1080p /25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080p /29.97	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080p /30	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
	1080p /50 (Level A)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080p /59.94 (Level A)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1080p /60	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
UHD 2160p	2160p /23.98	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /24	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /25	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /29.97	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /30	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /50	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /59.94	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	2160p /60	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	Single-Link 12G	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
	Quad-Link 25I, 3G Level A	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
LEGEND:	✓ = Supported ✗ = Unsupported		Specifications subject to change without notice.										

SDI/HDMI/MADI INPUTS & OUTPUTS														
<div>ROSS</div>	CARBONITE SOLO				GRAPHITE			CARBONITE Ultra	CARBONITE Ultra 60	Ultrix CARBONITE				
	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12		
									NOTE: Support for SD & UHD formats available late 2023					
	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD/UHD	SD/HD/UHD	HD/UHD	HD/UHD	HD/UHD		
SDI Inputs	6	6	12	12	4, 8 or 12	4, 8 or 12	✗	24	Up to 60	NOTE: Figures below represent Ultrix Carbonite SDI Inputs <i>and</i> Outputs				
SDI Outputs	5	5	5	5	6	6	✗	14	Up to 25					
SDI Inputs/Outputs										1 SDPE + 3 HDX-IO		1 SDPE + 3 HDX-IO		
										58 ¹		274 ¹		
										2 SDPE + 2 HDX-IO		2 SDPE + 2 HDX-IO	2 SDPE + 2 HDX-IO	
										40 ¹		256 ¹		
											3 SDPE + 6 HDX-IO		3 SDPE + 6 HDX-IO	3 SDPE + 13 HDX-IO
											110 ¹		238 ¹	
											4 SDPE + 5 HDX-IO		4 SDPE + 5 HDX-IO	4 SDPE + 12 HDX-IO
											92 ¹		220 ¹	
													5 SDPE + 11 HDX-IO	
													202 ¹	
													6 SDPE + 10 HDX-IO	
													184 ¹	
													7 SDPE + 9 HDX-IO	
													166 ¹	
													8 SDPE + 8 HDX-IO	
													148 ¹	
													9 SDPE + 7 HDX-IO	
													130 ¹	
													10 SDPE + 6 HDX-IO	
													112 ¹	
													11 SDPE + 5 HDX-IO	
													94 ¹	
													12 SDPE + 4 HDX-IO	
													76 ¹	
													13 SDPE + 3 HDX-IO	
		58 ¹												
		14 SDPE + 2 HDX-IO												
		40 ¹												
		15 SDPE + 1 HDX-IO												
		22 ¹												
HDMI Inputs/Outputs	3	3	1	1	1	1	✗	✗	✗	✓ ²	✓ ²	✓ ²		
NDI Inputs/Outputs	✗	✗	✗	✗	✗	✗	8, 12, or 18	✗	✗	✗	✗	✗		
MADI Audio Inputs/Outputs	✗	✗	✗	✗	✗	✗	✗	✗	64	Ultrix	Ultrix	Ultrix		
										¹ Assumes available slots are fully populated with HDX-IO boards, Aux Ports are populated with SDI SFP modules, and dedicated SDPE inputs are fully populated. Note: Each SDPE blade = one (1) Carbonite switcher which can access the router I/O matrix in groups of up to eighteen (18). An additional four (4) SDI inputs and outputs are directly available on the SDPE blade. Mixed I/O board complement will result in different matrix sizes. Contact Ross Video for more details.				
										² Via optional SFP HDMI Aux ports. HDMI input/output count dependent on number of populated SFP cages. Contact Ross Video for more details.				
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IP INPUTS & OUTPUTS																												
ROSS	CARBONITE ST-2110 SOLO				GRAPHITE			CARBONITE Ultra	CARBONITE Ultra60	Ultrix CARBONITE																		
	SOLO	CBF 109	SOLO I3	CBF I13	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2			FR5			FR12												
									NOTE: Support for SD & UHD formats available late 2023	NOTE: Figures below represent Ultrix Carbonite ST-2110 Inputs and Outputs																		
	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD	SD/HD/UHD	SD/HD/UHD	HD	UHD	UHD	HD	UHD	UHD	HD	UHD	UHD										
SDI Inputs/Outputs	✗	✗	✗	✗	✗	✗	✗	✗	✗	1 SDPE	1 SDPE	1 SDPE	1 SDPE	1 SDPE	1 SDPE	1 SDPE	1 SDPE	1 SDPE										
										2 IP-I/O/IPX-I/O	2 IP-I/O	2 IPX-I/O	8 IP-I/O/IPX-I/O	8 IP-I/O	8 IPX-I/O	15 IP-I/O/IPX-I/O	15 IP-I/O	15 IPX-I/O										
										2022-6	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7						
										32 + 32 ¹	8 + 8 ¹	16 ¹	16 ¹	127 + 127 ¹	32 + 32 ¹	64 ¹	64 ¹	240 + 240 ¹	60 + 60 ¹	120 ¹	120 ¹							
										2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE	2 SDPE						
										11 IP-I/O/IPX-I/O	11 P-I/O	1 IPX-I/O	7 IP-I/O/IPX-I/O	7 IP-I/O	7 IPX-I/O	14 IP-I/O/IPX-I/O	14 IP-I/O	14 IPX-I/O										
										2022-6	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7						
										16 + 16 ¹	4 + 4 ¹	8 ¹	8 ¹	111 + 111 ¹	28 + 28 ¹	56 ¹	56 ¹	224 + 224 ¹	56 + 56 ¹	112 ¹	112 ¹							
										3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE	3 SDPE						
										6 IP-I/O/IPX-I/O	6 IP-I/O	6 IPX-I/O	13 IP-I/O/IPX-I/O	13 IP-I/O	13 IPX-I/O	2022-6	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7						
										95 + 95 ¹	24 + 24 ¹	48 ¹	48 ¹	208 + 208 ¹	52 + 52 ¹	104 ¹	104 ¹	4 SDPE	4 SDPE	4 SDPE	4 SDPE	4 SDPE						
										5 IP-I/O/IPX-I/O	5 IP-I/O	5 IPX-I/O	12 IP-I/O/IPX-I/O	12 IP-I/O	12 IPX-I/O	2022-6	2022-6	2022-7	2022-6	2022-7	2022-6	2022-7						
										79 + 79 ¹	20 + 20 ¹	40 ¹	40 ¹	192 + 192 ¹	48 + 48 ¹	96 ¹	96 ¹	5 SDPE	5 SDPE	5 SDPE	11 IP-I/O/IPX-I/O	11 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		176 + 176 ¹	44 + 44 ¹	88 ¹	88 ¹	88 ¹						
																		6 SDPE	6 SDPE	6 SDPE	6 SDPE	6 SDPE						
																		10 IP-I/O/IPX-I/O	10 IP-I/O	10 IPX-I/O	2022-6	2022-6						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		160 + 160 ¹	40 + 40 ¹	80 ¹	80 ¹	80 ¹						
																		7 SDPE	7 SDPE	7 SDPE	7 SDPE	7 SDPE						
																		9 IP-I/O/IPX-I/O	9 IP-I/O	9 IPX-I/O	2022-6	2022-6						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		144 + 144 ¹	36 + 36 ¹	72 ¹	72 ¹	72 ¹						
																		8 SDPE	8 SDPE	8 SDPE	8 SDPE	8 SDPE						
																		8 IP-I/O/IPX-I/O	8 IP-I/O	8 IPX-I/O	2022-6	2022-6						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		128 + 128 ¹	32 + 32 ¹	64 ¹	64 ¹	64 ¹						
																		9 SDPE	9 SDPE	9 SDPE	9 SDPE	9 SDPE						
																		7 IP-I/O/IPX-I/O	7 IP-I/O	7 IP-I/O	2022-6	2022-6						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		112 + 112 ¹	28 + 28 ¹	56 ¹	56 ¹	56 ¹						
																		10 SDPE	10 SDPE	10 SDPE	6 IP-I/O/IPX-I/O	6 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		96 + 96 ¹	24 + 24 ¹	48 ¹	48 ¹	48 ¹						
																		11 SDPE	11 SDPE	11 SDPE	5 IP-I/O/IPX-I/O	5 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		80 + 80 ¹	20 + 20 ¹	40 ¹	40 ¹	40 ¹						
																		12 SDPE	12 SDPE	12 SDPE	4 IP-I/O/IPX-I/O	4 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		64 + 64 ¹	16 + 16 ¹	32 ¹	32 ¹	32 ¹						
																		13 SDPE	13 SDPE	13 SDPE	3 IP-I/O/IPX-I/O	3 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		48 + 48 ¹	12 + 12 ¹	24 ¹	24 ¹	24 ¹						
																		14 SDPE	14 SDPE	14 SDPE	2 IP-I/O/IPX-I/O	2 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		32 + 32 ¹	8 + 8 ¹	16 ¹	16 ¹	16 ¹						
																		15 SDPE	15 SDPE	15 SDPE	1 IP-I/O/IPX-I/O	1 IP-I/O						
																		2022-6	2022-6	2022-7	2022-6	2022-7						
																		16 + 16 ¹	4 + 4 ¹	8 ¹	8 ¹	8 ¹						
																				¹ Assumes available slots are fully populated with IP-I/O or IPX-I/O boards. FR2 frame also contains one fixed SDI I/O board which can provide up to an additional eighteen (18) SDI inputs. Note: Each SDPE blade = one (1) Carbonite switcher which can access the router I/O matrix in groups of up to eighteen (18). An additional four (4) SDI inputs and outputs are directly available on the SDPE blade. Mixed I/O board complement will result in different matrix sizes. Contact Ross Video for more details.								
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FRAME FEATURES (SD/HD)												
<div>ROSS</div>	CARBONITE SOLO				GRAPHITE			CARBONITE Ultra	CARBONITE Ultra 60	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
									NOTE: Support for SD & UHD formats available late 2023			
ME Banks	1	1	1	1	1 or 2	1 or 2	3	1, 2 or 3 (4-Keyer Mode) 2 (6-Keyer Mode) ¹	3	1, 2 or 3 per SDPE Blade	1, 2 or 3 per SDPE Blade	1, 2 or 3 per SDPE Blade
MiniME Banks	2 (Gen 1) ²	2 (Gen 1) ²	2 (Gen 1) ²	2 (Gen 1) ²	4 (Gen 1) ²	4 (Gen 1) ²	✗	4 (Gen 2) ³	4 (Gen 2) ³	4 (Gen 2) ³ per SDPE Blade (1 or 2 ME modes only) ⁴	4 (Gen 2) ³ per SDPE Blade (1 or 2 ME modes only) ⁴	4 (Gen 2) ³ per SDPE Blade (1 or 2 ME modes only) ⁴
Keyers per ME	5 (4 Full Keyers + 1 Transition Keyer)	5 (4 Full Keyers + 1 Transition Keyer)	5 (4 Full Keyers + 1 Transition Keyer)	5 (4 Full Keyers + 1 Transition Keyer)	5 (4 Full Keyers + 1 Transition Keyer)	5 (4 Full Keyers + 1 Transition Keyer)	6 (Full Keyers)	5 (4 Full Keyers + 1 Transition Keyer) (4-Keyer Mode) 7 (6 Full Keyers + 1 Transition Keyer) (6-Keyer Mode) ¹	7 (6 Full Keyers + 1 Transition Keyer)	7 (6 Full Keyers + 1 Transition Keyer)	7 (6 Full Keyers + 1 Transition Keyer)	7 (6 Full Keyers + 1 Transition Keyer)
Keyers per MiniME	2	2	2	2	2	2	✗	2	2	2 (1 or 2 ME modes only) ⁴	2 (1 or 2 ME modes only) ⁴	2 (1 or 2 ME modes only) ⁴
2D DVEs	2	2	2	2	4	4	18	8	12	12	12	12
DVE Border Y-Perspective	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
UltraChrome Chroma Keyers	1	1	1	1	2	2	✗	4	4	4	4	4
UltraScene Advanced Compositing Engine	✗	✗	✗	✗	✗	✗	✗	4 pairs	4 pairs	4 pairs	4 pairs	4 pairs
Sequencer	✗	✗	✗	✗	✗	✗	✗	5	5	5	5	5
Portrait Rotation Mode	✗	✗	✗	✗	✗	✗	✗	3 Outputs	Up to 15	✗	✗	✗
Input FSFC	6	6	6	6	6	6	✗	Up to 24	Up to 60	Up to 22	Up to 22	Up to 22
Input Colour Correctors/ Proc Amps	✗	✗	✗	✗	✗	✗	✗	Up to 24	Up to 60	Up to 22	Up to 22	Up to 22
Input SDR <=> HDR Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 24	Up to 60	Up to 22	Up to 22	Up to 22
Input Rec 709 <=> Rec 2020 Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 24	Up to 60	Up to 22	Up to 22	Up to 22
Output FC	✗	✗	✗	✗	✗	✗	✗	Up to 10	Up to 10	✗	✗	✗
Output SDR <=> HDR Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 10	Up to 20	✗	✗	✗
Output Rec 709 <=> Rec 2020 Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 10	Up to 20	✗	✗	✗
I/O MultiViewers	✗	✗	✗	✗	✗	✗	✗	Up to 2	Up to 5	Ultriscape (Up to 3 per HDB/SFP or 2 per IP blade)	Ultriscape (Up to 3 per HDB/SFP or 2 per IP blade)	Ultriscape (Up to 3 per HDB/SFP or 2 per IP blade)
Production MultiViewers	1	1	1	1	2	2	1	Up to 2	1	2	2	2
MultiViewer Timers	✗	✗	✗	✗	5	5	✗	✓	✓	Ultriscape	Ultriscape	Ultriscape
MediaStores	4 x video or 2 x video/key	4 x video or 2 x video/key	4 x video or 2 x video/key	4 x video or 2 x video/key	4 x video or 2 x video/key	4 x video or 2 x video/key	✗	4 x video or video/key	6 x video or video/key	4 x video or video/key	4 x video or video/key	4 x video or video/key
Audio MediaStore	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	✗	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2
MediaStore RAM Capacity	8GB (Shared)	8GB (Shared)	8GB (Shared)	8GB (Shared)	2GB (Shared)	2GB (Shared)	N/A	8GB (Shared)	12GB (Shared)	8GB (Shared)	8GB (Shared)	8GB (Shared)
USB Media Player	✓	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓
Internal SSD Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1TB (800GB User-accessible)	N/A	N/A	N/A
¹ 6-Keyer Mode requires CUF-ADD-ME3 License. Contact Ross Video for more details												
² Gen 1 MiniME Banks provide one (1) DVE Keyer and one (1) full-function keyer												
³ Gen 2 MiniME Banks provide two (2) full-function keyers												
⁴ MiniMEs not available in 3 ME mode												
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.										







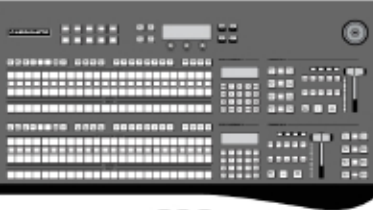






FRAME FEATURES (SD/HD)												
<div>ROSS</div>	CARBONITE <div>SOLO</div>				GRAPHITE			CARBONITE <div>Ultra</div>	CARBONITE <div>Ultra 60</div>	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
									NOTE: Support for SD & UHD formats available late 2023			
Audio Mixer	✗	✗	✗	✗	✓	✓	✓	✓	✓	Ultrimix	Ultrimix	Ultrimix
Audio Aux Mix Reentry	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✗	✗
Multiple AFV Source Triggers	✗	✗	✗	✗	✓	✓	✓	✓	✓	✗	✗	✗
Memory/Custom Control Export	✗	✗	✗	✗	✓ ⁵	✓ ⁵	✗	✓ ⁵	✓ ⁵	✓ ⁵	✓ ⁵	✓ ⁵
Dual GPI Events	✗	✗	✗	✗	✓	✓	✗	✓	✓	✓	✓	✓
Frame Simulator (DashBoard)	✗	✗	✗	✗	✓	✓	✗	✓	✓	✓	✓	✓
Ross Platform Manager (RPM) Support	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
XPression LivCCG	✓	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓
XPression Prime	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗	✗
⁵ Export function supported for Graphite, Carbonite Ultra, Carbonite Ultra 60, and Ultrix Carbonite only												
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.										

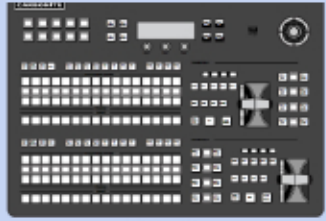
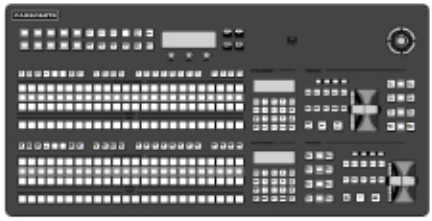
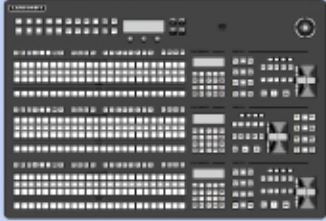
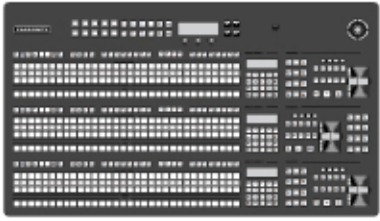

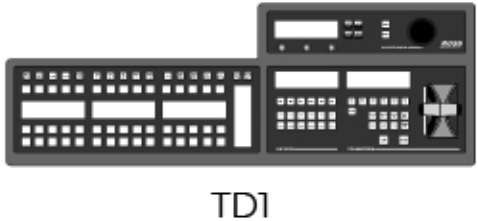
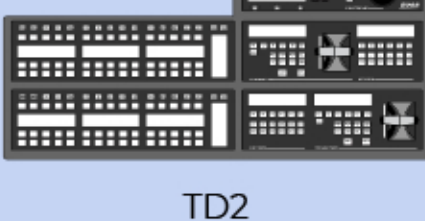
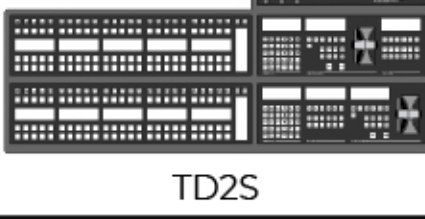
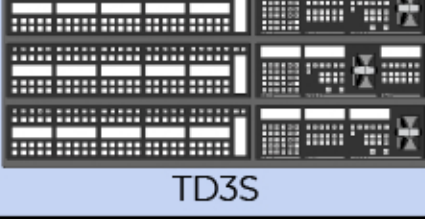
FRAME FEATURES (UHD)												
<div>ROSS</div>	CARBONITE <div>SOLO</div>				GRAPHITE			CARBONITE <div>Ultra</div>	CARBONITE <div>Ultra 60</div>	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
									NOTE: Support for SD & UHD formats available late 2023			
ME Banks	✗	✗	✗	✗	✗	✗	✗	1 or 2	Up to 3	1 or 2 per SDPE Blade	1 or 2 per SDPE Blade	1 or 2 per SDPE Blade
MiniME Banks	✗	✗	✗	✗	✗	✗	✗	2 (Gen 2) ¹	2 (Gen 2) ¹	2 (Gen 2) ¹ per SDPE Blade	2 (Gen 2) ¹ per SDPE Blade	2 (Gen 2) ¹ per SDPE Blade
Keyers per ME	✗	✗	✗	✗	✗	✗	✗	5 (4 Full Keyers + 1 Transition Keyer)	5 (4 Full Keyers + 1 Transition Keyer)	7 (6 Full Keyers + 1 Transition Keyer)	7 (6 Full Keyers + 1 Transition Keyer)	7 (6 Full Keyers + 1 Transition Keyer)
Keyers per MiniME	✗	✗	✗	✗	✗	✗	✗	2	2	2	2	2
2D DVEs	✗	✗	✗	✗	✗	✗	✗	4	6	6	6	6
DVE Border Y-Perspective	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
UltraChrome Chroma Keyers	✗	✗	✗	✗	✗	✗	✗	2	2	2	2	2
UltraScene Advanced Compositing Engine	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Sequencer	✗	✗	✗	✗	✗	✗	✗	5	5	5	5	5
Portrait Rotation Mode	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Input FSFC	✗	✗	✗	✗	✗	✗	✗	Up to 7	Up to 40	Up to 4	Up to 4	Up to 4
Input Colour Correctors/ Proc Amps	✗	✗	✗	✗	✗	✗	✗	Up to 8	Up to 20	Up to 4	Up to 4	Up to 4
Input SDR <=> HDR Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 8	Up to 20	Up to 4	Up to 4	Up to 4
Input Rec 709 <=> Rec 2020 Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 8	Up to 20	Up to 4	Up to 4	Up to 4
Output FC	✗	✗	✗	✗	✗	✗	✗	Up to 4	Up to 20	✗	✗	✗
Output SDR <=> HDR Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 4	Up to 20	✗	✗	✗
Output Rec 709 <=> Rec 2020 Conversion	✗	✗	✗	✗	✗	✗	✗	Up to 4	Up to 20	✗	✗	✗
I/O MultiViewers	✗	✗	✗	✗	✗	✗	✗	Up to 1	Up to 5	Ultriscape (Up to 3 per HDB/SFP or 2 per IP blade)	Ultriscape (Up to 3 per HDB/SFP or 2 per IP blade)	Ultriscape (Up to 3 per HDB/SFP or 2 per IP blade)
Production MultiViewers	✗	✗	✗	✗	✗	✗	✗	1	1	1	1	1
MultiViewer Timers	✗	✗	✗	✗	✗	✗	✗	✓	✓	Ultriscape	Ultriscape	Ultriscape
¹ Gen 2 MiniME Banks provide two (2) full-function keyers												
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.										

FRAME FEATURES (UHD)												
<div>ROSS</div>	CARBONITE B7A4K4 SOLO				GRAPHITE			CARBONITE Ultra	CARBONITE Ultra60	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
									NOTE: Support for SD & UHD formats available late 2023			
MediaStores	✗	✗	✗	✗	✗	✗	✗	2 x video or video/key	6 x video or video/key	4 x video or video/key	4 x video or video/key	4 x video or video/key
Audio MediaStore	✗	✗	✗	✗	✗	✗	✗	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2	MediaStore 1 & 2
MediaStore RAM Capacity	8GB (Shared)	8GB (Shared)	8GB (Shared)	8GB (Shared)	2GB (Shared)	2GB (Shared)	N/A	8GB (Shared)	12GB (Shared)	8GB (Shared)	8GB (Shared)	8GB (Shared)
USB Media Player	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Internal SSD Capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1TB (800GB User-accessible)	N/A	N/A	N/A
Audio Mixer	✗	✗	✗	✗	✗	✗	✗	✓	✓	Ultrimix	Ultrimix	Ultrimix
Audio Aux Mix Re-Entry	✗	✗	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗
Multiple AFV Source Triggers	✗	✗	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗
Memory/Custom Control Export	✗	✗	✗	✗	✗ ⁵	✗	✗	✓ ^{2,2}	✓ ²	✓ ²	✓ ²	✓ ²
Dual GPI Events	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
Frame Simulator (DashBoard)	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
Ross Platform Manager (RPM) Support	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
XPression LivcCG	✓	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓
XPression Prime	✗	✗	✗	✗	✓	✓	✓	✗	✗	✗	✗	✗
² Export function supported for Graphite, Carbonite Ultra, Carbonite Ultra 60, and Ultrix Carbonite only												
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.										

SUPPORTED PROTOCOLS												
<div>ROSS</div>	CARBONITE B7A4K4 SOLO				GRAPHITE			CARBONITE Ultra	CARBONITE Ultra60	Ultrix CARBONITE		
	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	CARBONITE ULTRA	CARBONITE ULTRA 60	FR2	FR5	FR12
INBOUND												
RossTalk	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OverDrive / Caprica	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TSL 3.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TSL 5.0	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
GVG 100/110	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
CVG 200, 4000	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
OUTBOUND												
AMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RossTalk	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TSL 3.1	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
TSL 5.0	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
Ross CamBot	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Visca (Serial)	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
Canon BU series	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
PBUS II	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓
VDCP	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.										

	XPRESSION GRAPHITE FEATURES					RAVE AUDIO FEATURES				
<div>ROSS</div>	XPression Graphite				XPression Clips		RAVE			
	Prime	Studio Single	Studio Dual	Studio Flex		ALL MODELS		GRAPHITE	GRAPHITE PPC	
Scene/Template Designer	✓	✓	✓	✓	Dedicated Playback Server Channels	2	Stereo Faders	48	48	
Playout Sequencer	✓	✓	✓	✓	Dedicated Ingest Server Channels	1	Fader Volume	-∞db to + 20db	-∞db to + 20db	
2D/3D Fonts	✓	✓	✓	✓	Crash Record	✓	Pre/Post-Fade Meters	✓	✓	
Arabic, Asian & Scripted Font Support	✓	✓	✓	✓	Still Video Input Grabber	✓	Pre/Post-Fade Peak Indicators	✓	✓	
3D Primitives	✓	✓	✓	✓	Single-Channel Transitions	✓	Per-Channel EQ & Clip Indicators	✓	✓	
3D Model Support	✗	✓	✓	✓	Clip Trimming	✓	Per Channel Mute, Solo, & Pre-Fade Listen (PFL)	✓	✓	
Template Video Clip Support	✓	✓	✓	✓	Subclipping	✓	Per Channel Mute, Solo, & PFL Clear	✓	✓	
Project Video Format Conversion	✓	✓	✓	✓	Clip Database Management	✓	Per Channel EQ Control	4-band (high-shelf, dual midrange, low-shelf)	4-band (high-shelf, dual midrange, low-shelf)	
Animation Timeline	✓	✓	✓	✓	Preview/Program Operation	✓	Per Channel Compression/Limiting (Assignable pre- or post-EQ)	Variable Threshold, Compression, Attack, Release & Makeup parameters	Variable Threshold, Compression, Attack, Release & Makeup parameters	
Graphical Keyframe Editor	✓	✓	✓	✓	AMP Control	✓	Per Channel Noise Gate Controls	Variable Threshold, Depth, Reduction, Attack, Hold & Release parameters	Variable Threshold, Depth, Reduction, Attack, Hold & Release parameters	
Continuous Animations	✓	✓	✓	✓			Per Channel Ducking Controls	Variable Threshold, Depth, Mix Reduction, Attack, Hold & Release parameters	Variable Threshold, Depth, Mix Reduction, Attack, Hold & Release parameters	
Stagger Animations	✓	✓	✓	✓			Per Channel Talkback Controls	Variable Threshold, Depth, Mix Reduction, Attack, Hold & Release parameters	Variable Threshold, Depth, Mix Reduction, Attack, Hold & Release parameters	
Transition Logic	✗	✓	✓	✓			Per Channel Audio Follow Video mode (AFV)	✓	✓	
Visual Logic	✓	✓	✓	✓			Multiple AFV Triggers per Channel	✓	✓	
XPrccsion Video Codec License	✓	✓	✓	✓			Aux Mixers	12	12	
XPrccsion Video Coder Application	✓	✓	✓	✓			Audio Aux Mix Reentry	✓	✓	
.NET Based Scripting	✗	✓	✓	✓			Per Channel Balance Controls (Stereo Inputs)	✓	✓	
.NET / COM Automation API	✗	✓	✓	✓			Per Channel Pan Controls (Mono Inputs)	✓	✓	
Virtual Cameras	✓	✓	✓	✓			Mono Mode	Duplication of Mono channel (L or R) to create L-L / R-R channel pair	Duplication of Mono channel (L or R) to create L-L / R-R channel pair	
Live Input Shader (Apply Live Video to Surfaces)	✓	✓	✓	✓			Maximum Embedded Audio Input Channels	16 per SDI Input	16 per SDI Input	
Render To AVI Output	✓	✓	✓	✓			Maximum Embedded Audio Output Channels	16 per SDI Output	16 per SDI Output	
Export Template to Image/Video File	✓	✓	✓	✓			16-Channel Sample Rate Converters	Available on SDI inputs 1 - 6	Available on SDI inputs 1 - 6	
Maximum Video Input Channels	1	1	2	4			DashBoard Control	✓	✓	
Maximum Video Preview Channels	0	1	2	2			External MIDI Control	Behringer X-Touch Mini, Compact or compatible	Behringer X-Touch Mini, Compact or compatible	
Virtual Preview Channels (up next & look-ahead)	2 Per Channel	2 Per Channel	2 Per Channel	2 Per Channel			NOTE: RAVE Audio optional for Graphite, Carbonite Ultra, and Carbonite Ultra 60 only.			
Maximum Output Channels (fill + key)	1	1	2	4						
Output Format Set by Switcher	✓	✓	✓	✓						
Maximum Embedded Audio Channels	16	16	16	16						
AES Audio	✓	✓	✓	✓						
Video Bypass (Hardware Failure & Software Watchdog)	✓ ¹	✓ ¹	✓ ¹	✓ ¹						
GPI Contact Closure	✓ ¹	✓ ¹	✓ ¹	✓ ¹						
Keyboard/GPI Mapping	✓	✓	✓	✓						
Custom Keyboard Support	✓	✓	✓	✓						
Multi-Channel Editions Available	✓	✓	✓	✓						
Advanced Workflow Tools Available	✓	✓	✓	✓						
NOTE: Some XPression features optional. Please contact Ross Video for complete details.										
¹ Graphite & Graphite PPC only.										
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.								

PANEL COMPATIBILITY													
<div>ROSS</div>	DIMENSIONS	CARBONITE	CARBONITE BLACK SOLO				GRAPHITE			CARBONITE BLACK	CARBONITE Ultra	CARBONITE Ultra 60	Ultrix CARBONITE
	W x H	ALL MODELS	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	ALL MODELS	CARBONITE ULTRA	CARBONITE ULTRA 60	ALL MODELS
<div>C10 (CPS-1012)</div>	15.85 x 10.77 (in.) 402.59 x 273.56 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✗	✗	✗
<div>C1 (CPS-1016)</div>	21.70 x 10.76 (in.) 551.18 x 273.30 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✗	✗	✗
<div>CIA</div>	24.70 x 12.49 (in.) 627.4 x 317.2 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>CIM</div>	29.77 x 12.48 (in.) 756.16 x 317.1 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>C2</div>	24.71 x 18.24 (in.) 627.6 x 463.2 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>C2M</div>	29.77 x 18.23 (in.) 756.16 x 462.99 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>C2S</div>	33.74 x 18.25 (in.) 857.1 x 463.6 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>C2X</div>	39.48 x 18.25 (in.) 1002.7 x 463.6 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>C3S</div>	33.75 x 24.13 (in.) 857.1 x 613.0 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>C3X</div>	39.48 x 24.13 (in.) 1002.7 x 612.9 (mm)	✓	✗	✓ ^{1, 2}	✗	✓ ^{1, 2}	✓ ¹	✓ ¹	✗	✓	✓ ¹	✓ ¹	✓ ¹
<div>CB9</div>	16.20 x 10.06 (in.) 411.48 x 255.52 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓ ³	✓	✓	✓
<div>CB1</div>	23.42 x 10.72 (in.) 594.9 x 272.3 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
<div>CB1S</div>	32.51 x 10.72 (in.) 825.8 x 272.3 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
NOTE: Frame - Panel connection uses Ethernet protocol unless otherwise noted													
¹ Requires CarboNet Serial - Ethernet Adaptor. Contact Ross Video for details.													
² Requires v. 2.0 or higher software. Contact Ross Video for details.													
³ Requires v. 13.0 or higher software. Contact Ross Video for details.													
LEGEND: ✓ = Supported ✗ = Unsupported		Specifications subject to change without notice.											

PANEL COMPATIBILITY													
<div>ROSS</div>	DIMENSIONS	CARBONITE	CARBONITE BLACK SOLO				GRAPHITE			CARBONITE BLACK	CARBONITE Ultra	CARBONITE Ultra 60	Ultrix CARBONITE
	W x H	ALL MODELS	SOLO	CBF 109	SOLO 13	CBF 113	GRAPHITE	GRAPHITE PPC	GRAPHITE CPC	ALL MODELS	CARBONITE ULTRA	CARBONITE ULTRA 60	ALL MODELS
<div> CB2</div>	23.42 x 16.24 (in.) 594.9 x 412.6 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
<div> CB2S</div>	32.51 x 16.24 (in.) 825.8 x 412.6 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
<div> CB3S</div>	32.51 x 21.76 (in.) 825.7 x 552.8 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
<div> CB3X</div>	38.19 x 21.76 (in.) 970.0 x 552.8 (mm)	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
<div> TD1C</div>	17.50 x 12.91 (in.) 444.5 x 327.91 (mm)	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
<div> TD1</div>	28.29 x 10.08 (in.) 718.6 x 256.0 (mm)	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
<div> TD2</div>	28.29 x 16.31 (in.) 718.6 x 414.4 (mm)	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
<div> TD2S</div>	41.00 x 16.31 (in.) 1041.4 x 414.4 (mm)	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
<div> TD3S</div>	41.00 x 22.55 (in.) 1041.4 x 572.6 (mm)	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
NOTE: Frame - Panel connection uses Ethernet protocol unless otherwise noted													
LEGEND:	✓ = Supported ✗ = Unsupported	Specifications subject to change without notice.											