



AV-HS410

General	Power Requirement		AC 100 V to 240 V, 50 Hz/60 Hz, 88 W
	Operating Temperature		0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity		10 % to 90 % (no condensation)
	Dimensions (W x H x D)		440 mm x 158 mm x 361 mm (17-5/16 inches x 6-7/32 inches x 14-7/32 inches) (excluding protrusions)
	Weight		Approx. 6.2 kg (13.669 lb) (without options/excluding accessories) Approx. 6.6 kg (14.550 lb) e (with full options/excluding accessories)
	Video Format	HD:	1080/59.94i, 1080/50i, 1080/24PsF*2, 1080/23.98PsF*2, 720/59.94p, 720/50p
		SD:	480/59.94i, 576/50i
	Video Processing		Y:CB:CR 4:2:2, 10 bit (8 bit for video memory) /RGB 4:4:4, 8 bit
	ME		1ME
	Video Input*	Standard SDI:	BNC x 8 (IN 1 to 8) (Up-convert support with IN 5 to 8) HD (SMPTE292M)/SD (SMPTE259M) standard, 0.8 V [p-p] ±10 % (75 Ω)
		Standard DVI-D:	1 line, DVI-D x 1 (Analog input signals are not supported)
		Optional:	Maximum of 4 inputs (IN A1, A2, B1, B2) (Up to 2 optional boards may be inserted into the 2 input/output optional slots)
	Video Output*3	Standard SDI:	5 lines, BNC x 6 (OUT 1 to 5 x each, 2 output distribution for OUT 1) HD (SMPTE292M)/SD (SMPTE259M) standard, 0.8 V [p-p] ±10 % (75 Ω)
Standard DVI-D:		1 line, DVI-D x 1 (Analog output signals are not supported)	
Optional:		Maximum of 4 outputs (OUT A1, A2, B1, B2) (Up to 2 optional boards may be inserted into the 2 input/ output optional slots)	
Reference Input/Output		<p>GENLOCK mode: Black burst or Tri-level Sync input signals (with loop-through)</p> <p>Internal sync mode: Black burst output signals x 2</p> <ul style="list-style-type: none"> • Same field frequencies as those of the system formats supported. • With the 1080/24PsF format, only GENLOCK mode supported. • With the 1080/23.98PsF format, black burst with 10F-ID 	

			(SMPTE318M standard met) or TRI signals supported.	
	Audio Input/Output		—	
Interface	PANEL/MAINFRAME		—	
	EDITOR		DD-sub 9 pin x 1, RS-422	
	COM		D-sub 9 pin x 1, RS-422	
	TALLY/GPI		D-sub15 pin x 2 (IN 8, OUT 19, ALARM OUT 1)	
	LAN		RJ45, 10 BASE-T/100 BASE-TX	
Removable Media	SD Memory Card	Capacity: Maximum 32 GB (SDHC Memory Card compatible) Still image file/movie clip file/shot memory/event memory: Loading/saving, Setup data: backup		
Standard Accessories			CD-ROM (Operating instructions/DVI input level adjustment file), Power cable (2 m (6.6 feet) long)	
Function	BKGD	Wipe/DVE Pattern	Wipe x 16, Squeeze x 16, Slide x 8, 3D x 12	
		Transition Type	Cut, Mix, Wipe (including DVE)	
		Image	—	
	KEYER	Number of Keys	1	
		Key Type	Linear key, Luminance key, Chroma key, Full key*8	
		Transition Type	Cut, Mix, Wipe (including DVE)	
		Wipe/DVE Pattern	Wipe x 16, Squeeze x 16, Slide x 8, 3D x 12	
	DSK	Number of Keys	1	
		Key Type	Linear key, Luminance key	
		Transition Type	Mix	
	P in P	Number of PinP	2	
		Transition Type	Mix	
	AUX BUS			AUX Bus 1 to 4*4
	Input	Frame Synchronizer	IN 1 to 9 (IN 9 is always-on)*5	

Function	Freeze	IN 1 to 9*5
	Up-Converter	IN5 to 8*5
	Color Corrector	—
	Video Processing	IN1 to 8*
Output Function	MultiViewer	1 system, Labels, Tally indication, Split-screen (9 Patterns: 4, 5a/5b, 6a/6b, 9, 10a/10b and 16 sections)
	Other Function	Phase adjustment, Chroma key sample marker, Down converter (SDI output board only)
Frame Memory		—
Video Memory		2 systems: still images and movie clips (The data for the images stored in the frame memories can be retained even when the power is turned off by saving it in the flash memory*9 area which is incorporated inside the unit.)
Memory Function		Shot memory, Event memory, Effect dissolve function
NOTE		<p>*1: 1080/24PsF and 23.98PsF are not compatible with optional boards AV-HS04 M1, M2, M3, M4, M5, M6, M7, M7D and M8.</p> <p>*2: 1080/24PsF and 23.98PsF are not compatible with optional boards AV-HS04 M1, M2, M3, M4, M5, M6 and M7.</p> <p>*3: For information on input/output signals, see page 10, "Input Formats."</p> <p>*4: AUX BUS 1 is compatible with MIX transition.</p> <p>*5: Specifications for IN A1, A2, B1, and B2 depend on the specs of the mounted optional equipment.</p> <p>*6: Maximum 20 channels may be simultaneously displayed on two screens.</p> <p>*7: May store and recall up to 10 presets (per camera) with current Panasonic pan-tilt systems.</p> <p>*8: May also be used for DSK applications by changing the key layer.</p> <p>*9: Plans call for supporting this function in the future.</p> <p>*10: OSD, MV frames, Labels, Tally indications, Audio Level Meters, and Camera setting information are not shown on SDI-OUT 1.</p> <p>*11: OSD, MV frames, Labels, Tally indications, Audio Level Meters, and Camera setting information for MultiViewer Display are not stored in the Frame Memory.</p>