AV-HS450

Specifications	Video format	HD	1080/59.94i, 1080/50i, 1080/23.98PsF*1, 1080/24PsF*1, 720/59.94p, 720/50p
		SD	480/59.94i, 576/50i
	Video processing		Y:Cb:Cr, 4:2:2 10 bit (8 bit for FMEM) RGB, 4:4:4 8 bit
	M/E		1 M/E
	Video Input	Standard	16 SDI inputs (IN 1 to 16)
		Optional	Maximum of 4 inputs (IN A1, A2, B1, B2)
	Reference input		Black burst or tri sync signal input (with loop through) x 1*2
	Video output	Vertical frequency	60 Hz 1080/50p, 1080/59.94p
	Reference output	Gen-lock mode	Loop through x 1
		Internal sync	black burst signal x 2
	BKGD	Wipe/DVE pattern	Wipe x 12, Squeeze x 11, Slide x 8, 3D x 12, 2ch squeeze x 4, 2ch slide x 4, 2ch 3D x 4
		Transition type	Cut, Mix, Wipe (including DVE)
		Image	Image effect: PGM/A, PST/B BUS Effect: Mosaic, Defocus, Mono color, Paint
	KEYER	Number of keys	1
		Key type	Linear key, Luminance key, Chroma key, Full key
		Transition type	Cut, Mix, Wipe (including DVE)
		Wipe/DVE pattern	Wipe x 12, Squeeze x 11, Slide x 9, 3D x 12
	DSK	Number of keys	2
		Key type	Linear key, Luminance key
		Transition type	Mix
	PinP	Number of PinP	2
		Transition type	Mix

AUX BUS		AUX Bus 1-4 *4 *5
Input Function	Frame Synchronizer	IN 1 to 16 *6
	Freeze	IN 1 to 16 *6
	Up-converter	IN 13 to 16 *6
	Color collector	IN 9 to 16
Output Function	Multi Viewer	2 systems Labels, Tally indication, Split-screen (the screen may be split into 4, 9, 10 and 16 sections) *9
	Other function	OSD (PVW and several MULTI outputs), phase adjustment, chroma key sample marker, down converter (SDI output board only)
Frame memory		4 channels
Memory function		Shot memory, BKGD/Wipe memory, PinP memory, Camera memory *10
Interface	PANEL	RJ45,100 Mbps x 1 (to connect to the control panel)
	EDITOR	D-sub 9 pin x 1, RS-422 (GVG protocol compatible)
	COM	D-sub 9 pin x 1, pan-tilt system control
	TALLY/GPI	D-sub 50 pin x 1 (8 IN and 31 OUT may be set)
	LAN	RJ45,100 Mbps / 10 Mbps x 1
Power supply/Power consumption		AC 220 V to 240 V, 50 Hz/60 Hz 120 W
Operating temperature		0 °C to +40 °C
Operating humidity		10 % to 90 % (no condensation)
Dimensions (W x H x D)		(2RU) 482 mm x 88 mm x 471 mm (excluding protrusions)
Weight		Approx. 9.8 kg (without options/excluding accessories) Approx. 10.3 kg (with full options/excluding accessories)

Note	*1 1080/23.98PsF and 24PsF are not compatible with optional boards AV-HS04 M1, M2, M3, M4, M5, M6 and M7.
	*2 Compatible with the same field frequencies of the system format. 1080/23.98PsF format is compatible with black burst (SMPTE318M-compliant) with 10F-ID, or tri-level sync signal.
	*3 Analog output not supported.
	*4 AUX BUS1 is compatible with MIX transition.
	*5 May be routed through the SDI embedded audio input.
	*6 Specifications for IN A1, A2, B1, and B2 depend on the specs of the mounted optional equipment.
	*7 Specifications for IN 5 to IN 8 depend on the specs of the mounted optional equipment.
	*8 Option [HD analog component]: IN 1 to 5 may also be used.
	*9 Maximum 20 channels may be simultaneously displayed on 2 screens.
	*10 May store and recall up to 10 presets (per camera) with current Panasonic pan-tilt systems.