Live Switcher Function Comparison

As of April, 2017

		AV-HS6000	AV-HS450	AV-HS410	AW -HS50
BKGD	Wipe	17	12	16	13
	Squeeze	16	11	15	—
	Slide	8	8	8	—
	3D	13	12	12	—
	2ch Squeeze	7	4	—	—
	2ch Slide	8	4	—	—
	2ch 3D	1	4	—	—
	Transition Type	Cut, Mix, Wipe (including DVE), EMEMLINK	Cut, Mix,	Wipe(including DVE)	Cut, Mix, Wipe
	Image	Image effect: PGM/A, PST/B Bus	Effect: Mosaic, Defocus, Mono, Paint	—	
Keyer	Number of Keys	8	1		
	Key Type	Linear key, Luminance key, Chroma key*1, Full key	Linear key, Luminance key, Chroma key, Full key	Linear key, Luminance key, Chroma key, Full key	Linear key, Luminance key, Chroma key*10
	Transition Type	Cut, Mix, Wipe (including DVE)			Mix
	Wipe/DVE Pattern	Wipe x 12, Squeeze x 11, Slide x 9, 3D x 12		Wipe x 16, Squeeze x 16, Slide x 8, 3D x 12	—
USK	Number of Keys	4	—		
	Key Type	Linear key, Luminance key, Full key			
	Transition Type	Cut			
DSK	Number of Keys	4	2	1	—
	Key Type	Linear key, Luminance key			—
	Transition Type	Cut, Mix	Mix		—
P in P	Number of PinP	8*2	2		1
	Transition Type	Wipe (SL/SQ) / Mix	Mix		
AUX Bus		AUX Bus 1 to 16*3	AUX Bus	1 to 4*6	AUX Bus 1
Input Function	Frame Synchronizer	SDI IN 1 to 32, DVI IN1, 2	SDI IN 1 to 16*7	SDI IN 1 to 8 (IN 9 is DVI IN)*7	SDI IN 1 to 4, DVI IN (always-on)
	Freeze	SDI IN 1 to 32, DVI IN1, 2	SDI IN 1 to 16*7	SDI IN 1 to 8 (IN9 is DVI IN)*7	SDI-IN1 to 4, DVI-IN
	Frame Delay	SDI IN 27, 28, 31, 32	—		
	Dot by Dot	SDI IN 1 to 32	SDI IN 1 to 16	SDI IN 1 to 8	SDI IN 1 to 4
	Up-Converter	SDI IN 27, 28, 31, 32	SDI IN 13 to 16*7	SDI IN 5 to 8*7	SDI IN 3 , 4
	Color Corrector	SDI IN 25 to 32	SDI IN 9 to 16	—	
	Video Processing	SDI IN 25 to 32	SDI IN 9 to 16	SDI IN 1 to 8*7	SDI IN1 to 4
Output Function	MultiViewer	4 ch, Labels, Tally indication, Audio level meter, Safety marker, Split-screen (10 Patterns: 4, 5a/5b, 6a/6b, 9, 10a/10b, 12 and 16 sections)	2 ch, Labels, Tally indication, Split-screen (4 Patterns: 4, 9, 10 and 16 sections)*8	1 ch, Labels, Tally indication, Audio level meter, Safety marker Split-screen (9 Patterns: 4, 5a/5b, 6a/6b, 9, 10a/10b and 16 sections)	1 ch*11, Labels, Tally indication, Audio level meter, Split-screen (8 Patterns: 4, 5a/5b, 6a/6b, 9 and 10a/10b sections)
	Down-Converter	SDI OUT 14, 16	SDI output	board(Option) only	—
	Color Corrector	SDI OUT 13 to 16	—		
	Other Function	Phase adjustment, Chroma key sample marker	OSD (PVW and several MULTI outputs), Phase adjustment, Chroma key sample marker	Phase adjustment, Chroma key sample marker	OSD [Single Screen Display: SDI-OUT 2,DVI-OUT (unshown on SDI-OUT 1)], Chroma key sample marker, Audio Level Meter: SDI embedded audio (group1/ 1 ch, 2 ch)
Memory Function	Frame Memory	—	4 channels (save to flash memory on mainframe; data retained even when power off)	—	2 channels*12 (save to 1 internal flash memory; data retained even when power off)
	Video Memory	Still (still images): 4 systems (save to volatile memory on mainframe; data erased when power off)*4 Clip (movie clips): 4 systems (save to volatile memory on mainframe; data erased when power off)*4	—	2 systems: still images and movie clips (save to flash memory; data retained when power off)	—
	Shot Memory	Register 81 shots (effect dissolve function)	Register 10 shots	(effect dissolve function)	—
	Event Memory	Register 64 events in 81 memories	—	Register 10 memories	—
	Macro Memory	Register 81 memories (can remember a total of 3,000 procedure operations)	—		
	BKGD/Wipe Memory	—	Register 10 memories	—	Register 4 memories
	P in P Memory	—	Register 10 memories	—	Register 4 memories (effect dissolve function)
	Camera Memory	—	Register 10 memories *9	—	
	Key Preset	Register 4 presets for 1 keyer	—		
Other Function	Project Management Function	(Save/retrieve current settings and memory data as batch file)	—		
	Plug-in Function	(Register plug-in software created with SDK to add functions/ external interface function)	—		—
	Redundant Power Supply	(Redundant power model for mainframe and control panel)		—	
	Multiple Panel Connection	(1 mainpanel, 2 subpanels)*5	—		
	Web Browser Function	(Menu operations from local PC)*5	—		

*1: Chroma keying only available on the Key 1 bus; additions possible by installing the optional AV-SFU60G.
*2: Dual use with keyer; Rotation available only on Key 1 and Key 2 buses.
*3: Mix transition available on Aux 1-4 buses.
*4: Data in volatile memory can be exported and saved on the internal mainframe storage (optional), an SD memory card or LAN port-connected PC.
*5: The subcontrol panel and local PC connects to the mainframe LAN port.
*6: Mix transition available on Aux 1 buses.
*7: Specifications for IN A1, A2, B1, and B2 depend on the specs of the mounted optional equipment.
*8: Maximum 20 channels may be simultaneously displayed on two screens.
*9: May store and recall up to 10 presets (per camera) with current Panasonic pan-tilt systems.
*10: May also be used for DSK applications by changing the key layer.
*11: OSD, MV frames, Labels, Tally indications, Audio Level Meters, and Camera setting information are not shown on SDI-OUT 1.
*12: OSD, MV frames, Labels, Tally indications, Audio Level Meters, and Camera setting information for MultiViewer Display are not stored in the Frame Memory.