

datavideo

**Product
Specifications
2018/2019**










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Model	OBV-3200	OBV-2850	MS-3200	MS-2850
				
	12 Input HD OB Van Studio	8 to 12 Input OB Van Studio	12 Input Flyaway Studio	8 to 12 Input Flyaway Studio
Configuration				
Digital Video Switcher	SE-3200	SE-2850-8/12	SE-3200	SE-2850-8/12
17.3" Rack Mount LCD	TLM-170LM x1, TLM-170VM x1	TLM-170LR x2	TLM-170VM x1	TLM-170LM x1
HD/SD SDI Recorder	HDR-90 x1	HDR-70 x1	HDR-90 x1	HDR-70 x1
Intercom/Tally System	ITC-300	ITC-100 w/4 Belt Pack	ITC-300	ITC-100 w/4 Belt pack
SDI Vector Scope	TLM-170V included	VSM-100	TLM-170V included	VSM-100 (MS-2850B/D)
Audio Delay Mixer	AD-200	AD-200	AD-200	AD-100M (MS-2850A/B) AD-200 (MS-2850C/D)
Power Distributor (8-way)	PD-2A	PD-2A	PD-2A	PD-2A
Return Video (8-CH CV)	----	----	RP-64	RP-64 (MS-2850B/D)
Camera Control System	CCU-200	CCU-100 x1, MCU-200 x1 (OBV-2850-CCU)	----	----
Camera Power Distributor	----	PD-6A (OBV-2850CCU)	----	PD-6A (MS-2850B/D)
H.264 Video Streaming Server	NVS-25	NVS-25	----	----
Network Media Player	----	----	----	----
HD/SD SDI Amplifier	----	VP-445 x1, VP-633 x3	----	VP-445 (MS-2850B/D)
Rack System Integration	17RU Mobile Rack Table 110 x 100 x 111 cm	27RU Mobile Rack System x 2 * Asia: 25RU Mobile Rack System (x 2)	8RU Flight Case	8RU Flight Case
Weight	118KG	85KG	65KG	65KG
Options				
SDI Vector Scope	----	----	----	----
Return Video (8-CH CV)	----	----	----	----
Camera Power Distributor	----	----	----	----
Camera Power Regulator	----	DDC-4012H (9-30V to DC12V)	----	----
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Return Video LCD (CV)	----	----	----	----
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SDI/CV/ITC/Cat-5 cable	----	----	----	----
SDI/ITC Cable	----	CB-46/47 (30/50m)	----	CB-46/47 (30/50m)
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100m SDI Repeater	----	VP-634	VP-633 / VP-634	VP-633 / VP-634



Model	GO 1200 Studio	GO 650 Studio	GO 500 Studio	GO KMU-100 Studio
				
	6 Input HD Studio	4 Input HD Studio	4 Input Mixed Resolution Studio	Virtual Multicam Studio
Video Standard	HD	HD	HD & SD	4K & HD
Video Format	1080i 50/59.94/60Hz 720p 50/59.94/60Hz	1080i 50/59.94/60Hz 720p 50/59.94/60Hz	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz 480i 59.94Hz	3840x2160p 23.98/24/25/29.97/30/50/59.94/60. 1080p 23.98/24/25/29.97/30 1080i 50/59.94/60 1080PsF 23.98/24/25/29.97/30 720p 50/59.94/60
Video Processing	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB: 4:4:4	HDMI: YUV 4:4:4 10 bit, RGB: 4:4:4	SDI: 4:2:2 HDMI: 4:2:0/4:2:2
Video Input	4x HD-SDI 2x HDMI	2x HD-SDI 2x HDMI	4x HDMI	2 sets of SDI Input: each set of 4x SDI 1x 3Gb/s or 12Gb/s SD/HD/4K. Supports single link 4:2:2 3x 3Gb/s SD/HD/4K. Supports single link, dual link, and quad link 4:2:2 2x HDMI Input: each of HDMI support for Ultra HD 4K 60p in 4:2:0/4:2:2
Video Output	1x HDMI	1x HDMI	3x HDMI	2 sets of SDI output: each set of 4x SDI 1x 3Gb/s or 12Gb/s SD/HD/4K. Supports single link 4:2:2 3x 3Gb/s SD/HD/4K. Supports single link, dual link, and quad link 4:2:2
Audio Input	2x Balanced XLR	1 x Stereo RCA (L/R) 2 x Mono Microphone De-embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) 2 x Mono Microphone De-embedded Digital Audio (2 CH)	SDI: 16 Ch embedded in HD/4K. 8 Ch embedded in SD HDMI: 8 Ch embedded in SD, HD and Ultra HD 4K
Audio Output	N/A	1 x Stereo RCA (L/R) 1 x Stereo headphone (Mini Jack with volume control) Embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) 1 x Stereo headphone (Mini Jack with volume control) Embedded Digital Audio (2 CH)	SDI: 16 Ch embedded in HD/4K. 8 Ch embedded in SD. HDMI: 8 Ch embedded in SD, HD and Ultra HD 4K
Embedded Audio Support	Embedded 2-CH audio output from XLR input	Embedded 2-CH digital/analogue audio	Embedded 2-CH digital/analogue audio	SDI: 16 Ch embedded in HD/4K. 8 Ch embedded in SD. HDMI: 8 Ch embedded in SD, HD and Ultra HD 4K
Chroma Key	2	2	----	----
USK	2x USK support Chroma Key & Linear/ Luma Key	1x USK support Chroma Key & Linear/ Luma Key	Luma Key	----
DSK	2x DSK support Luma Key & Linear key (Key / Fill)	1 (Logo)	----	----
Picture in Picture	1	1	1	----
Logo Insertion	----	1	----	----
Still Store	500	500	----	----
Effects	FTB, Cut, 32 Wipe with border	FTB, Cut, 32 Wipe with border	FTB, Cut, Wipe with border	----
Tally Output	1x D-sub 15pin, dual color	1x D-sub 15pin, dual color	1x D-sub 15pin, dual color	----
Built-in Audio Mixer	----	Yes	Yes	----
Streaming Encode	H.264 Main 3.0/3.1/High4.0	H.264 Main 3.0/3.1/High4.0	H.264 Main 3.0/3.1/High4.0	H.264 Baseline/Main/High
Streaming Video Bitrate	800Kbps~6Mbp	800Kbps~6Mbp	800Kbps~6Mbp	100Kbps~20Mbps
Streaming Video Rate Mode	CBR/VBR	CBR/VBR	CBR/VBR	VBR
Streaming Audio Mode	Stereo/Mono	Stereo/Mono	Stereo/Mono	Stereo
Streaming Audio Bitrate	Stereo: 64~384Kbps, Mono: 32~192Kbps	Stereo: 64~384Kbps, Mono: 32~192Kbps	Stereo: 64~384Kbps, Mono: 32~192Kbps	32~256Kbps
Streaming Recording File Format	H.264	H.264	H.264	H.264
Streaming Storage	USB	USB	USB	USB x2, SD card x1
Recording Storage Medium	USB	USB	USB	USB x2, SD card x1
Estimated Record Time (min per 10GB)	SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps)	SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps)	SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps)	Record Only Mode: 100kbps ~ 30Mbps Stream Only Mode: 100kbps ~ 20Mbps Rec+Stream Mode: 30Mbps
How to Retrieve Recorded Content	Removable Hard Drive, transfer data via USB 2.0	Removable Hard Drive, transfer data via USB 2.0	Removable Hard Drive, transfer data via USB 2.0	
Recording Storage File System	NTFS	NTFS	NTFS	USB supports for NTFS and FAT32 file system SD card supports NTFS file system
Recorded File Format	MP4 (H.264+ AAC)	MP4 (H.264+ AAC)	MP4 (H.264+ AAC)	MOV, MP4
Audio Input	---	---	---	3x XLR(2 for Line-in, 1 for Mic-in), 2x RCA
Audio Output	---	---	---	2x XLR, 2x Unbalanced RCA
Audio Indicator	---	---	---	SMT LCD
Audio Delay	---	---	---	Up to 700ms
Weight	22kg	16kg	16kg	
Power	DC 12V, 83W	DC 12V, 83W	DC 12V, 60W	DC 12V, 60W



Model	HS-3200	HS-2850	HS-2200
			
	12 Input HD Mobile Studio	8 to 12 Input HD/SD Mobile Studio	6 Input HD/SD Mobile Studio
Video Standard	Full HD	HD & SD	HD & SD
Video Format	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz	3G/HD/SD input: 1080i 50/59.94/60Hz 1080p 25/30/59.94/60Hz HD Output: 1080p 25/29/30Hz 1080i 50/59.94/60Hz SD: 576i 50Hz, 480i 59.94Hz	1080i 50/59.94/60Hz 720p 50/59.94/60 Hz 576i 50Hz, 480i 59.94Hz
Input Rutable / Crosspoint	All 12, repeatable	All 12, repeatable	All 6, repeatable
Video Input	8x SDI 4x HDMI	Standard: 8x SDI, 2x HDMI, Max: 12x SDI, 3x HDMI	6x HD-SDI 2x HDMI (on CH5 & 6)
Computer Graphic Interface	4 via HDMI	Max 3 via HDMI	2 via HDMI
Down-converted Output	----	3x SDI	----
Video Output	5x SDI assignable: PGM, PVW, PGM Clean & multiview, Input 1-12 4x HDMI (3x PGM + 1x assignable)	3x SDI assignable: PGM, PVW, AUX & Clean Out 1x HDMI assignable: PGM & multi-view	5x SDI Outputs assignable: AUX 1-4, PGM, PVW, PGM Clean or multi-view 1x HDMI assignable: PGM or multi-view
Audio Input	4x Balanced XLR	4x Balanced XLR	4x Balanced XLR
Audio Output	2x Balanced XLR	2x Balanced XLR	2x Balanced XLR
Embedded Audio Support	Input up to 16 channels, Output 4 channels	Input up to 16 channels, Output 4 channels	Input up to 16 channels, Output 4 channels
Audio Delay Calibration	Up to 16 frames	Up to 8 frames	----
A+V Switching	Yes	Yes	Yes
USK	4	----	----
DSK	2x DSK support Lumakey & Linear key (Key / Fill)	2x DSK support Lumakey & Linear key (Key / Fill)	1x DSK support Lumakey & Linear key (Key / Fill)
Picture in Picture	8 (4x PIP, 4x Flex Source)	2	2
Logo Insertion	2	2 (or 1 logo + 1 clock)	2 (or 1 logo + 1 clock)
Built-in Audio Mixer	----	----	----
Built-in Monitor Display	17.3" HD TFT LED back-lit, 1920x1080 pix	17.3" HD TFT LED back-lit, 1600x900 pix	17.3" HD TFT LED back-lit, 1600x900 pix
Built-in Intercom & Tally	----	8 channels (4 belt-packs incl.)	8 channels (4 belt-packs incl.)
Streaming Video Encode	H.264 / AVC, Main/ High Profile Configurable Bit-rate up to 10Mbps	----	----
Streaming Audio Encode	AAC-LC, Configurable bit rate range from 32Kbps to 384Kbps Sample rate: 48KHz, 16bit	----	----
Streaming Protocol	TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP (Publish)	----	----
Streaming Control	Web browser UI for configuration and control Socket commands	----	----
Recording File System	FAT, exFAT, NTFS	----	----
Recording File Format	MP4	----	----
Recording Setting Control	Web UI for system configuration and control	----	----
Dimension (LxWxH)	455 x 355 x 134 mm	455 x 355 x 134 mm	455 x 355 x 134 mm
Weight	8.5 Kg, Reinforce Plastic Case	8.5 Kg, Reinforce Plastic Case	7.5 Kg, Reinforce Plastic Case
Options		CB- 22H/23H/46/47	





Model	HS-1600T	HS-1500T	HS-1300
			
	4 Input HDBaseT Mobile Studio	4 Input HDBaseT Mobile Studio	6 Input HD Mobile Studio
Video Standard	HD & SD	HD & SD	HD
Video Format	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz , 576i/p 50Hz , 480i/p 59.94Hz	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz , 576i/p 50Hz , 480i/p 59.94Hz	1080i 50/59.94/60Hz 720p 50/59.94/60Hz
Input Routable / Crosspoint	----	----	All 6, repeatable
Video Input	3 x HDBaseT 1 x HDMI	3 x HDBaseT 1 x HDMI	4x HD-SDI 2x HDMI
Computer Graphic Interface	1 via HDMI	1 via HDMI	2 via HDMI
Down-converted Output	Yes	Yes	----
Video Output	3x HDMI PGM 1x STREAM (RJ-45)	3x HDMI PGM	3x HDMI + 2x SDI assignable: AUX 1-6, PGM, PVW, PGM Clean or multiview
Audio Input	2x Balanced XLR , 1x Stereo RCA (L/R) , De-embedded Digital Audio	2x Balanced XLR , 1x Stereo RCA (L/R) , De-embedded Digital Audio	2x Balanced XLR
Audio Output	1x Stereo headphone	1x Stereo headphone	1x Stereo headphone
Embedded Audio Support	2 ch Audio embedded	2 ch Audio embedded	2 ch Audio embedded
Audio Delay Calibration	----	----	----
A+V Switching	----	----	----
USK	1x USK support Lumakey	1x USK support Lumakey	2x USK support Chromakey
DSK	----	----	2x DSK support Lumakey & Linear key (Key / Fill)
Picture in Picture	1	1	1
Logo Insertion	----	----	----
Built-in Audio Mixer	Yes	Yes	selectable audio follow video master gain control
Built-in Monitor Display	17.3" HD TFT LED backlit, 1920x1080 pix	17.3" HD TFT LED backlit, 1920x1080 pix	17.3" HD TFT LED backlit, 1600x900 pix
Built-in Intercom & Tally	----	----	----
Streaming Video Encode	H.264 / AVC, Main/ High Profile Configurable Bit-rate up to 10Mbps	----	H.264 / AVC, Main/ High Profile Configurable Bit-rate up to 10Mbps
Streaming Audio Encode	AAC-LC Configurable bit rate range from 32Kbps to 384Kbps Sample rate: 48KHz, 16bit	----	AAC-LC Configurable bit rate range from 32Kbps to 384Kbps Sample rate: 48KHz, 16bit
Streaming Protocol	TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP (Publish)	----	TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP (Publish)
Streaming Control	Web browser UI for configuration and control Socket commands	----	Web browser UI for configuration and control Socket commands
Recording File System	FAT, exFAT, NTFS	----	FAT, exFAT, NTFS
Recording File Format	MP4	----	MP4
Recording Setting Control	Web UI for system configuration and control	----	Web UI for system configuration and control
Dimension (LxWxH)	455 x 355 x 134 mm	455 x 355 x 134 mm	455 x 355 x 134 mm
Weight	7.8 Kg, Reinforce Plastic Case	7.5 Kg, Reinforce Plastic Case	7.4 Kg, Reinforce Plastic Case
Options			

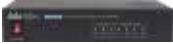







Model	SE-3200	SE-2850	SE-2200
			
	12 Input HD Switcher	8 to 12 Input HD/SD Switcher	6 Input HD/SD Switcher
Video Standard	Full HD	HD & SD	HD & SD
Video Format	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz	3G/HD/SD input: 1080i 50/59.94/60Hz 1080p 25/30/59.94/60Hz HD Output: 1080p 25/29/30Hz 1080i 50/59.94/60Hz SD: 576i 50Hz, 480i 59.94Hz	1080i 50/59.94/60Hz 720p 50/59.94/60 Hz 576i 50Hz, 480i 59.94Hz
Video Processing	SDI: 4:2:2 HDMI: YUV 4:2:2, RGB: 4:4:4	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4
Input Routable / Crosspoint	All 12, repeatable	All 12, repeatable	All 6, repeatable
Video Input	8x SDI 4x HDMI	Standard: 8x SDI, 2x HDMI Max: 12x SDI, 3x HDMI	6x HD-SDI 2x HDMI (on CH5 & 6)
Mix HD & SD Source	----	Yes	----
Computer Graphic Interface	4 via HDMI	Max 3 via HDMI	2 via HDMI
Video Output	6x SDI Outputs assignable: PGM, PVW, PGM Clean & multi-view, Input 1-12 3x HDMI assignable: PGM & multi-view	4x SDI assignable: PGM, PVW, AUX & Clean Out 2x HDMI assignable: PGM & multi-view	6x SDI Outputs assignable: AUX 1-4, PGM, PVW, PGM Clean & multi-view 2x HDMI assignable: PGM or multi-view
Down-converted Output	----	Yes, 4x SDI (CH1-CH4)	----
Built-in Multi-view Monitoring Out	HDMI	2x HDMI	2x HDMI
Audio Input	4x Balanced XLR	4x Balanced XLR	4x Balanced XLR
Audio Output	2x Balanced XLR	2x Balanced XLR	2x Balanced XLR
Embedded Audio Support	Embedded 4-CH audio output	Input up to 16 channels, Output 4 channels	Input up to 16 channels, Output 4 channels
Audio Delay Calibration	up to 16 fields or 8 frames per channel	Up to 8 frames per channel (*SDI input audio only)	----
A+V Switching	Yes	Yes	Yes
ChromaKey	4	----	----
Title Creator	----	Yes	Yes
USK	4x USK support ChromaKey & Linear/ Luma Key	----	----
DSK	2x DSK support Lumakey & Linear key (Key / Fill)	2x DSK support Lumakey & Linear key (Key / Fill)	1x DSK support Lumakey & Linear key (Key / Fill)
Picture in Picture	8 (4x PIP, 4x Flex Source)	2	2
Logo Insertion	2	2 (or 1 logo + 1 clock)	2 (or 1 logo + 1 clock)
Still Store	500	12	6
Effects	DVE, FTB, Cut, 32 Wipe with border	FTB, Cut, 8 Wipe with border	FTB, Cut, 8 Wipe with border
Transition Preview	Full transitions preview	PiP & DSK	PiP & DSK
Sync / Reference In/Out	Built-in Genlock Support external sync with loop thru	Built-in Genlock Support external sync with loop thru	Built-in Genlock (internal)
Tally Output	1x D-sub 25pin, dual color	1x D-sub 25pin, dual color	1x D-sub 25pin, dual color
PC Remote Control	Via Ethernet (free Window software) or RS-422 / RS-232	Via Ethernet (free Window software) or RS-422	Via Ethernet (free Window software) or RS-422 / RS-232
Built-in Audio Mixer	----	----	----
Special Features	4 User Memory Preset Free Virtual Set and Stinger transition included	4-CH SD downconvert output Built in TC-200 CG system Selectable SMPTE/EBU Audio level	6x 6 Matrix seamless switch Built in TC-200 CG interface
Chassis	2 units, rack-mount mainframe	2 units, 2RU rack-mount mainframe	2 units, 2RU rack-mount mainframe
Power	DC 12V 69W	DC 12V 44W	DC 12V 32W
Options		CB-60/ 61/ 62 (30m/50m/100m)	




Model	SE-1200MU	SE-650	SE-500HD	SE-500MU
				
	6 Input HD Switcher	4 Input HD Switcher	4 Input Mixed Resolution Switcher	4 Input Mixed Resolution Switcher
Video Standard	HD	HD	Full HD & SD	Full HD & SD
Video Format	1080i 50/59.94/60Hz 720p 50/59.94/60Hz	1080i 50/59.94/60Hz 720p 50/59.94/60Hz	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz 480i 59.94Hz	1080p 50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz 480i 59.94Hz
Video Processing	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4	HDMI: YUV 4:4:4 10 bit, RGB: 4:4:4	HDMI: YUV 4:4:4 10 bit, RGB: 4:4:4
Input Routable / Crosspoint	All 6, repeatable	All 4, repeatable	----	----
Video Input	4x HD-SDI 2x HDMI (RGB/YUV, 1080i/1080p/720p)	2xHD-SDI 2xHDMI	4x HDMI	4x HDMI
Mix HD & SD Source	----	----	Yes	Yes
Computer Graphic Interface	2 via HDMI	2 via HDMI	4 via HDMI	4 via HDMI
Video Output	2x HD-SDI & 2x HDMI assignable: PGM(w/DSK 1&2), PGM(w/DSK 1),PGM Clean, PVW(w/o DSK), multi-view, Input 1-6	2 x HDMI (1 is MV, 1 is Assignable) 1 x HD-SDI (Assignable)	2 x HDMI (1 is MV, 1 is PGM)	2 x HDMI (1 is MV, 1 is PGM)
Down-converted Output	----	----	Yes	Yes
Built-in Multi-view Monitoring Out	HDMI & Ethernet (MJPEG)	HDMI	HDMI	HDMI
Audio Input	2x Balanced XLR De-embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) 2 x Mono Microphone De-embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) 2 x Mono Microphone De-embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) 2 x Mono Microphone De-embedded Digital Audio (2 CH)
Audio Output	Embedded digital audio (2 CH)	1 x Stereo RCA (L/R) 1 x Stereo headphone (Mini Jack with volume control) Embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) 1 x Stereo headphone (Mini Jack with volume control) Embedded Digital Audio (2 CH)	1 x Stereo RCA (L/R) Embedded Digital Audio (2 CH)
Embedded Audio Support	Embedded 2-CH audio output from XLR input or embedded audio input	Embedded 2-CH digital/analogue audio	Embedded 2-CH digital/analogue audio	Embedded 2-CH digital/analogue audio
Audio Delay Calibration	----	----	----	----
A+V Switching	Yes	Yes	Yes	Yes
ChromaKey	2	2	----	----
Title Creator	----	----	----	----
USK	2x USK support Chroma Key & Linear/ Luma Key	1x USK support Chroma Key & Linear/ Luma Key	LumaKey	LumaKey
DSK	2x DSK support LumaKey & Linear key (Key / Fill)	----	----	----
Picture in Picture	1	1	1	1
Logo Insertion	----	1	----	----
Still Store	500	500	----	----
Effects	FTB, Cut, 32 Wipe with border	FTB, Cut, 32 Wipe with border	FTB, Cut, Wipe with border	FTB, Cut, Wipe with border
Transition Preview	Full transitions preview	Full transitions preview	----	----
Sync / Reference In/Out	Built-in Genlock (internal)	Built-in Genlock (internal)	Built-in Genlock (internal)	Built-in Genlock (internal)
Tally Output	1x D-sub 15pin, dual color	1x D-sub 15pin, dual color	1x D-sub 15pin, dual color	1x D-sub 15pin, dual color
PC Remote Control	Via Ethernet (free Window software) or RS-232	----	----	Yes, via Ethernet or RS-232
Built-in Audio Mixer	----	Yes	Yes	----
Special Features	Motion JPEG Multi-view streaming(120 memory preset, BGD Transition on/off option) Free Virtual Set and Stinger transition included	Free Virtual Set and Stinger transition included	Mixed Video Format	Support Apple iOS, Apple Mac, Android Control Built-in video scaler for mixed resolution inputs
Chassis	2 units, 1RU rack-mount mainframe	Unibody	Unibody	1RU Rackmountable
Power	DC 12V 19W	DC 12V 29W	DC 12V 29W	DC 12V 20W
Options			CB-60/ 61/ 62 (30m/50m/100m)	

Model	KMU-100	KMU-50
		
	2 Input 4K Virtual Multicamera Processor	1 Input 4K Virtual Multicamera Processor
Video Input	2 sets of SDI Input: each set of 4x SDI 1 x 3Gb/s or 12Gb/s SD/HD/4K. Supports single link 4:2:2 3 x 3Gb/s SD/HD/4K. Supports single link, dual link, and quad link 4:2:2 2 x HDMI Input: each of HDMI support for Ultra HD 4K 60p in 4:2:0/4:2:2	HDMI 2.0 x1
Supported Video Input Resolution	3840x2160p 23.98/24/25/29.97/30/50/59.94/60 1080p 23.98/24/25/29.97/30 1080i 50/59.94/60 1080PsF 23.98/24/25/29.97/30 720p 50/59.94/60	3840 x 2160p 50/59.94/60 (4:2:0 10bits) 3840 x 2160p 25/29.97/30/50/59.94/60 (4:4:4 8bits) 1080p 50/59.94/60
Video Output	2 sets of SDI output: each set of 4x SDI 1 x 3Gb/s or 12Gb/s SD/HD/4K. Supports single link 4:2:2 3 x 3Gb/s SD/HD/4K. Supports single link, dual link, and quad link 4:2:2	HDMI 1.4 x4
Support Video Output Resolution	1080p 25/29.97/30/50/59.94/60 1080i 50/59.94/60 720p 50/59.94/60 625/50i PAL, 525/59.94i NTSC	1080p 50/59.94/60 1080i 50/59.94/60 720p 50/59.94/60
Multiview Out	HDMI 1.4 x2	HDMI 1.4 x1
Multiview Mode	Preview, Motion, Quad	Preview, Motion
Audio Input	SDI: 16 Ch embedded in HD/4K. 8 Ch embedded in SD HDMI: 8 Ch embedded in SD, HD and Ultra HD 4K	HDMI embedded audio
Audio Output	SDI: 16 Ch embedded in HD/4K. 8 Ch embedded in SD. HDMI: 8 Ch embedded in SD, HD and Ultra HD 4K	HDMI embedded audio
Audio Sampling	Television standard sample rate of 48 kHz at 24-bit	8CH PCM, LPCM 2CH
Reference Input	Blackburst, Tri-level	----
Control Interface	Ethernet RJ45 for control, configuration and updates RS-232 x 1 input for controlling configuration RS-422 x 1 input with external keyboard support GPIO x1	RS-422 for external controller
Controller	RMC-185/RMC-185+	RMC-185/RMC-500
Power Supply	DC 12V 5A	DC 12V 2A




Model	TLM-170P/PM/PR	TLM-170L/LM/LR
		
	17.3" HD/SD Monitor	17.3" HD/SD Monitor
Screen	17.3" LED Backlit	17.3" LED Backlit
Chassis	Tabletop (170P) 1RU Pull-Out (170PM) 7RU Rack Mount (170PR)	Tabletop (170L) 1RU Pull-Out (170LM) 7RU Rack Mount (170LR)
Resolution	1920x1080	1920x1080
Viewing Angle	(H) +80/-80° (V) +60/-80°	(H) +70/-70° (V) +60/-60°
Luminance/Contrast	400cd/m ² 600:1	300cd/m ² 400:1
Video Inputs	1x 3G/HD/SD-SDI 2x HDMI 1x HD/SD-YUV 2x Composite Video	1x 3G/HD/SD-SDI 2x HDMI
Loop Through	1x 3G/HD/SD-SDI 1x Composite Video	1x 3G/HD/SD-SDI
Supported Input Resolutions	1080p (23.98/24/25/30/50/59.95/60Hz), 1080i (50/59.94/60Hz) 720p (50/59.94/60Hz) 480i (NTSC), 576i (PAL)	1080p (23.98/24SF/24/25/29.97/30/50/59.95/60Hz) 1080i (50/59.94/60Hz) 720p (50/59.94/60Hz) 480i (NTSC), 576i (PAL)
Aspect Ratio	16:9, 4:3	16:9, 4:3
Tally LED	Live (Red) Cued (Green)	Live (Red) Cued (Green)
Audio In/Out	Embedded Audio on SDI and HDMI 3 x Mono RCA Inputs Stereo Speakers	Embedded Audio on SDI and HDMI
Special Features	3G-SDI Support, Picture-in-Picture, Blue Only, Audio Level Indicator, Safe Frame, Pixel Zoom up to 8x, Network IP Remote, SDI Time Code Display	3G-SDI Support, Blue Only, Safe Frame, Pixel Zoom up to 8x
Power	DC 12V, 30W	DC 12V, 16W





Model	TLM-700K	TLM-700HD	TLM-430	TLM-102
				
	7" 4K Monitor	7" HD/SD Monitor	4.3" Look-Back Monitor	Dual 10" Monitors
Screen	7" TFT LCD	7" LED Backlit	4.3" TFT LCD	Dual 10" LCD
Chassis	Camera Mount	Camera Mount	Camera Mount	4RU Rack Mount
Resolution	1920x1200	800x480	480x272	1280x800
Viewing Angle	(H) +85/-85° (V) +85/-85°	(H) +70/-70° (V) +50/-70°	(H) +70/-70° (V) +50/-70°	(H) +85/-85° (V) +85/-85°
Luminance/Contrast	450cd/m ² 1000:1	300cd/m ² 500:1	500cd/m ² 500:1	300cd/m ² 800:1
Video Inputs	1x HDMI (1.4b), HDCP 1.4	1x HD/SD-SDI 1x HD/SD-YUV 1x HDMI 1x Composite Video	2x Composite Video	2x 3G/HD/SD-SDI 2x HDMI
Loop Through	1x HDMI (1.4b)	----	----	2x 3G/HD/SD-SDI 2x HDMI
Supported Input Resolutions	4096x2160p (24Hz), 3840x2160p (23/24/25/29/30Hz) 2048x1080p (50/59.94/60Hz) 1080p (23.98/24/25/29.97/30/50/59.94/60Hz) 1080i (50/59.94/60Hz) 720p (23.98/24/25/29.97/30/50/59.94/60Hz) 576i (50Hz), 576p (50Hz) 480i (59.94/60Hz), 480p (59.94/60Hz)	1080i (50/60Hz) 720p (50/60 Hz) 480i (NTSC) 576i (PAL)	480i (NTSC) 576i (PAL)	1080p (23.98/24/25/29.97/30/50/59.94/60Hz) 1080i (50/59.94/60Hz) 720p (23.98/24/25/29.97/30/50/59.94/60Hz) 480i (NTSC), 576i(PAL)
Aspect Ratio	16:9	16:9, 15:9, 4:3	16:9, 4:3	16:9, 4:3
Tally LED	----	Live (Red) Cued (Amber)	Live (Red) Cued (Green)	Live (Red) Cued (Green)
Audio In/Out	Embedded Audio (48KHz sampling) Analog Stereo (Phone Jack), Speaker x1 (2W)	Embedded Audio on SDI and HDMI Audio Level Indicator, 1x Stereo Headphone Jack	----	Embedded Audio on SDI and HDMI Headphone Jack
Special Features	Focus assist (peaking), False Color, Histogram, Exposure, Pixel to Pixel Zoom, Underscan, Check Field (blue-only mode, monochrome mode)	Blue Only, Safe Frame, SDI Time Code Display, Audio Level Indicator, Safe Frame, Image Flip, Can powered by batteries (Not Included)	Can be powered by DC adaptor, Sony batteries or D-TAP. TLM-43LB Camera look back system (with RMC-200 and control cable)	time code, waveform, vector scope & audio level meter , peaking, zoom, pix to pix, underscan, SDI, HDMI cross conversion
Power	DC 12V, 12W	DC 12V, 8W	DC 12V, 4W	DC 12V, 28W



Model	DAC-45	DAC-70	DAC-60
	 	  	  
Conversion	4K Up Down Cross Converter VGA/HDMI/SDI to 4K HDMI/3G-SDI Multi-format Up/Down/Cross	Up Down Cross Converter VGA/HDMI/SDI to HDMI/SDI Multi-format Up/Down/Cross	SDI to VGA Converter 3G/HD/SD-SDI to VGA
Video Inputs	1x VGA, 1x HDMI, 1x HD/SD-SDI 1x Reference Input	Sel.: 1x VGA, 1x HDMI, 1x 3G/HD/SD-SDI	1x 3G/HD/SD-SDI
Loop Through	----	Yes	Yes
Video Outputs	1x SDI, 1x HDMI	2x 3G/HD/SD-SDI with embedded Audio 1x HDMI	1x VGA
Audio Inputs	2x RCA(Unbalanced Audio L/R), 2x SDI/HDMI Audio embedded	2x RCA (Stereo Pair), 2x SDI/ HDMI Audio embedded	----
Audio Outputs	SDI embedded audio up to 8CH, 48KHz, PCM audio HDMI embedded audio up to 8CH, 48KHz, PCM audio	SDI embedded audio up to 8CH, 48KHz, PCM audio HDMI embedded audio up to 8CH, 48KHz, PCM audio	----
Supported Video Input Formats	2160p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080psf(23.98/24/25/29.97/30Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 576p, 576i, 525i, 480p, 480i, 1920x1080(60Hz), 1280x720(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1024x768(60Hz), 800x600 (60Hz)	1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080psf(23.98/24/25/29.97/30Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 576p, 576i, 525i, 480p, 480i, 1920x1080(60Hz), 1280x720(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1024x768(60Hz), 800x600 (60Hz)	1080p (23.98/24/25/29.97/ 30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)
Output Resolutions	2160p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080psf(23.98/24/25/29.97/30Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 576p, 576i, 525i, 480p, 480i	1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 525i	1920x1200 (60Hz), 1920x1080(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1280x800 (60Hz), 1024x768 (60Hz), 800x600 (60Hz)
Equalizer	Yes	Yes	Yes
Reclock	Yes	Yes	Yes
SDI Cable Drive	Yes	Yes	Yes
Power	DC 12V, 9.4W	DC 12V, 6W	DC 12V, 3.6W
Remarks	<ul style="list-style-type: none"> - Heavy duty design, robust metal casing - Low power consumption (30 ~ 50% less than regular converters) - Low heat dissipation, ideal for long hour operation in normal ventilated environment - Supports wide range of 3G video formats including 1080p 50/59.94/60Hz (DAC-8P/9P/50S/60/70) - Supports YUV and RGB color space (DAC-8P/9P/70) - Can be rackmounted using optional RMK-2 2RU Rackmount Kit - Can be used with DAC accessories: MB-4 DAC Series Battery Holder, and MB-5 DAC Series Tripod Mount 		



Model	DAC-50S	DAC-9P	DAC-8P
			
Conversion	HD-SDI to Analogue Converter 3G/HD/SD-SDI to Analog Down Converter	HDMI to SDI Converter HDMI to 3G/HD/SD-SDI	SDI to HDMI Converter 3G/ HD/SD-SDI to HDMI
Video Inputs	1x 3G/HD/SD-SDI	1x HDMI	1x 3G/HD/SD-SDI
Loop Through	Yes	----	1
Video Outputs	YUV + Composite or Y/C + 2x Composite	2x 3G/HD/SD-SDI with embedded Audio	1x HDMI with embedded Audio
Audio Inputs	1x SDI Audio embedded	2x HDMI Audio embedded	2x RCA (Stereo Pair) 2x SDI Audio embedded
Audio Outputs	2x RCA (Stereo Pair)	2x SDI Audio embedded	2x HDMI Audio embedded
Supported Video Input Formats	1080p (50/59.94Hz) , 1080i (50/59.94Hz), 720p (50/59.94Hz), 576i, 480i	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)
Output Resolutions	576i, 480i	Automatically matches the SD, HD and 3G HDMI video input	Automatically matches the SD, HD and 3G SDI video input
Equalizer	Yes	----	Yes
Reclock	Yes	----	Yes
SDI Cable Drive	----	Yes	Yes
Power	DC 12V, 6W	DC 12V, 5W	DC 12V, 4W
Remarks	<ul style="list-style-type: none"> - Heavy duty design, robust metal casing - Low power consumption (30 ~ 50% less than regular converters) - Low heat dissipation, ideal for long hour operation in normal ventilated environment - Support wide range of 3G video formats including 1080p 50/59.94/60Hz (DAC-8P/9P/50S/60/70) - Support YUV and RGB color space (DAC-8P/9P/70) - Can be rackmounted using optional RMK-2 2RU Rackmount Kit - Can be used with DAC accessories: MB-4 DAC Series Battery Holder, and MB-5 DAC Series Tripod Mount 		




Model	VP-840	VP-597	VP-445
			
Video Input/Output	1x4 4K HDMI Splitter Input: 1 x HDMI Output: 4 x HDMI	2x6 3G-SDI Splitter Input: 2 x BNC Output: 6 x BNC	1x4 HD-SDI Splitter Input: 1 x BNC Output: 4 x BNC
Video Format	4096x2160p 60/59.94/50/30/29.97/25/24/23.98 3840x2160p 60/59.94/50/30/29.97/25/24/23.98 1080p 60/59.94/50/30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50 480p, 576p, 480i, 576i	1080p 60/59.94/50/29.97/23.98 1080i 60/59.94/50 720p 60/59.94/50 525i, 625i	1080i 60/59.94/50 720p 60/59.94/50 525i, 625i
Audio Format	DTS-HD Master Audio, Dolby TrueHD, Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM	Support SDI embedded audio Up to 8 channels, 48KHz, PCM audio	Support SDI embedded audio
Power	12V / 6W	12V / 2.8W	12V / 1.6W


Model	PTC-200	PTC-150/ PTC-150W	PTC-150T/ PTC-150TW	PTC-140T
				
	4K Pan/Tilt/Zoom Camera	1080P Pan/Tilt/Zoom Camera	1080P HDBaseT Pan/Tilt/Zoom Camera	1080P Pan/Tilt/Zoom Camera
Video Format	2160p 29.97/25 1080p 59.94/50 1080i 59.94/50 720p 59.94/50	1080p 59.94/50/29.97/25 Hz 1080i 59.94/50 Hz 720p 59.94/50 Hz 480i, 576i (on CVBS)	1080p 59.94/50/29.97/25 Hz 1080i 59.94/50 Hz 720p 59.94/50 Hz 480i, 576i (on CVBS)	1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/50/30/25/59.94/29.97
Image Sensor	1/2.3" type Exmor R CMOS	1/2.8" type progressive scan CMOS sensor	1/2.8" type progressive scan CMOS sensor	1/2.8 inch high quality HD CMOS sensor
Effective Pixels (approx.)	8.93 Mega pixels	2.14 Mega pixels	2.14 Mega pixels	2.07 Mega pixels
S/N Ratio	----	50dB	50dB	>55dB
Min. Illumination	50%, High Sensitivity Mode: Color: 0.75 lx (F1.8, AGC on, 1/30 sec) 50%, Normal Mode: Color: 3 lx (F1.8, AGC on, 1/30 sec)	Color : 0.4 lx B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain: High)	Color : 0.4 lx B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain: High)	0.5Lux (F1.8, AGC ON)
Electronic Shutter	1/25 (1/30), 1/50 (1/60), 1/75(1/90), 1/100, 1/120 (1/125), 1/150(1/180), 1/215(1/250), 1/300(1/350), 1/425(1/500), 1/600(1/725), 1/1000, 1/1250(1/1500) sec	1/25 (1/30), 1/50 (1/60), 1/75(1/90), 1/100, 1/120 (1/125), 1/150(1/180), 1/215(1/250), 1/300(1/350), 1/425(1/500), 1/600(1/725), 1/1000, 1/1250(1/1500) sec	1/25 (1/30), 1/50 (1/60), 1/75(1/90), 1/100, 1/120 (1/125), 1/150(1/180), 1/215(1/250), 1/300(1/350), 1/425(1/500), 1/600(1/725), 1/1000, 1/1250(1/1500) sec	Auto/Manual
Zoom Ratio	12x Optical Zoom	30x Optical Zoom	30x Optical Zoom	20x Optical Zoom, 10x Digital Zoom
Gamma Control	Off / Normal / Standard Mode 1-4	Off / Normal / Standard Mode 1-4	Off / Normal / Standard Mode 1-4	Off/Normal
Iris Control	Auto / Manual	Auto / Manual	Auto / Manual	Auto/Manual
Digital Noise Reductions	Yes	Yes	Yes	Yes
On-Screen Display (OSD)	English	English	English	English, Simplified Chinese
White Balance	Auto, Indoor, Outdoor, Sodium Vapor Lamp, One-push, Manual	AWB, MWB, One push WB, Outdoor, Indoor, Fluorescent	AWB, MWB, One push WB, wOutdoor, Indoor, Fluorescent	Auto, Manual, One Push, 3000K, 4000K, 5000K, 6500K
AGC / Gain Control	Auto/Manual (0 dB to 33 dB) Max. Gain Limit (9 dB to 33 dB)	Auto / Manual Max. Gain Limit	Auto / Manual Max. Gain Limit	Auto/Manual
Mirror / Flip Image	Yes	Yes	Yes	Yes
Focus Mode	Auto (Sensitivity: normal, low), One-push AF, Manual, Zoom Trigger AF	Auto / Manual	Auto / Manual	Auto / Manual
Panning/Tilting Range	Pan: 270°, Tilt: +90° to -17°	Pan: 270°, Tilt: +90° to -20°	Pan: 270°, Tilt: +90° to -20°	Pan: 340°, Tilt: +90° to -30°
Panning/Tilting Speed	Manual: 1~150°/Sec Swing: 1~150°/Sec	Manual: 1~150°/Sec Swing: 1~150°/Sec	Manual: 1~150°/Sec Swing: 1~150°/Sec	Pan: 0.1~60°/sec Tilt: 0.1~30°/sec
Preset	50 Position	50 Position	50 Position	255 Position
Focal Length	f = 3.9 mm (wide) to 46.8 mm (tele)	f=4.3 mm (WIDE) to 129 mm (TELE) F1.6 to F4.7	f=4.3 mm (WIDE) to 129 mm (TELE) F1.6 to F4.7	f = 5.2 (wide) to 98 (tele) mm F1.6 to F3.5
Field of View (Horizontal, Wide)	Approx. 70.7° (WIDE END) / 6.4° (TELE END)	Approx. 63.7° (WIDE END) / 2.3° (TELE END)	Approx. 63.7° (WIDE END) / 2.3° (TELE END)	Approx. 54.7° (WIDE END) / 3.3° (TELE END)
Image Compensation	Day & Night Function	Day & Night function	Day & Night function	Backlight Compensation
Video Output	HDMI x1 3G-SDI x1	3G-SDI x 1 HDMI x 1 CVBS x 1	HDMI (V1.3) x 1 3G-SDI x 1 CVBS x 1 HDBaseT x 1 to PTC-150T Receiver Box	HDBaseT (PoE) x1 RJ-45 x1
Audio Input	----	----	----	Line In (IP Stream Output)
Tally LED	Dual color (Red, Green)	Dual color (Red, Green)	Dual color (Red, Green)	Dual color (Red, Green)
Filter	----	M52.0 x 0.75 Thread with UV Protection	M52.0 x 0.75 Thread with UV Protection	M52.0 x 0.75 Thread with UV Protection
Protocol	VISCA, DVIP	VISCA, DVIP	VISCA, DVIP	VISCA, DVIP
Remote Control Interface and Transmit Distance	RS-422: Transmit up to 1000m DVIP (RJ45): 100m	RS-422: Transmit up to 1000m DVIP (RJ45): 100m	RS-422: Transmit up to 1000m HDBaseT (RJ-45)/ DVIP on Receiver Box: Transmit up to 100m	RS-232 Lan (RJ-45)
F/W Update	USB	USB	USB	Ethernet
IR Control	Yes	Yes	Yes	Yes
Camera Control Unit	RMC-180/RMC-300	RMC-180/RMC-300	RMC-180/RMC-300	HS-1500T/HS-1600T/RMC-300
Size of Screw Hole for Tripod	1/4-20 UNC	1/4-20 UNC	1/4-20 UNC	1/4-20 UNC
Options	WM-1	WM-1	WM-1	WM-1
Color	Dark blue	Dark Blue/White	Dark Blue/White	Dark Blue/White


Model	BC-200	BC-80	BC-50	Model	NH-100
					
	4K Camera	1080P Camera	1080P Camera with Streaming Encoder		NightHawk Camera
Video Format	2160p 29.97/25 1080p 59.94/50 1080i 59.94/50 720p 59.94/50	1080p 59.94/50/29.97/25 1080i 59.94/50 720p 59.94/50	1080p 60/50/30/25 1080i 60/50 720p 60/50	Video Format	1080p 59.94/50/29.97/25/24 1080i 59.94/50
Image Sensor	1/2.3" type Exmor R CMOS	1/2.8" type progressive scan CMOS sensor	1/2.7" progressive scan CMOS sensor	Image Sensor	4/3" CMOS
Effective Pixels (approx.)	8.93 Mega pixels	2.14 Mega pixels	2.07 Mega pixels	Effective Pixels (approx.)	20.89 Mega pixel
S/N Ratio	----	50 dB	55 dB	S/N Ratio	60 dB
Min. Illumination	50%, High Sensitivity Mode: Color: 0.75 lx (F1.8, AGC on, 1/30 sec) 50%, Normal Mode: Color: 3 lx (F1.8, AGC on, 1/30 sec)	Color : 0.4 lx B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain: High)	0.05 Lux @ (F1.8, AGC ON)	Min. Illumination	0.1Lux
Electronic Shutter	1/25 (1/30), 1/50 (1/60), 1/75 (1/90), 1/100, 1/120 (1/125), 1/150 (1/180), 1/215 (1/250), 1/300 (1/350), 1/425 (1/500), 1/600 (1/725), 1/1000, 1/1250 (1/1500) sec	1/25 (1/30), 1/50 (1/60), 1/75 (1/90), 1/100, 1/120 (1/125), 1/150 (1/180), 1/215 (1/250), 1/300 (1/350), 1/425 (1/500), 1/600 (1/725), 1/1000, 1/1250 (1/1500) sec	1/30 ~ 1/10000 sec	Electronic Shutter	1/25 (1/24, 1/30), 1/50 (1/48, 1/60), 1/75 (1/72, 1/90), 1/100 (1/96, 1/120), 1/125 (1/120, 1/150), 1/150 (1/144, 1/180), 1/200 (1/168, 1/210), 1/500 (1/480, 1/600), 1/1000 (1/960, 1/1200), 1/2000 (1/1920, 1/2400), 1/4000 (1/3840, 1/4800), 1/8000 (1/7200, 1/9000) sec
Zoom Ratio	12x Optical Zoom	30x Optical Zoom	20x Optical zoom, 16x Digital zoom	Zoom Ratio	Depends on Lens
Gamma Control	Off / Normal / Standard Mode 1-4	Off / Normal / Standard Mode 1-4	Yes	Gamma Control	Dynamic Adjustment
Iris Control	Auto / Manual	Auto / Manual	Auto / Manual	Iris Control	Manual
Digital Noise Reductions	Yes	Yes	2D & 3D	Digital Noise Reductions	3D Noise Reduction
On-Screen Display (OSD)	English	English	English, Simplified Chinese, Traditional Chinese	On-Screen Display (OSD)	Simplified Chinese/English (control app)
White Balance	Auto, Indoor, Outdoor, Sodium Vapor Lamp, One-push, Manual	AWB, MWB, One push WB, Outdoor, Indoor, Fluorescent	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K_1, 6500K_2, 6500K_3, One Push, Manual	White Balance	AWB, One-Push, Lock, MWB
AGC / Gain Control	Auto/Manual (0 dB to 33 dB) Max. Gain Limit (9 dB to 33 dB)	Auto / Manual (0 to 28 step) Max. Gain Limit (6 to 28 step)	Auto / Manual (0 to 28 step) Max. Gain Limit (6 to 28 step)	AGC / Gain Control	Auto(AGC) / Manual Max. Gain Limit
Mirror / Flip Image	Yes	Yes	Yes	Mirror / Flip Image	----
Focus Mode	Auto (Sensitivity: normal, low), One-push AF, Manual, Zoom Trigger AF	Auto / Manual	Auto / Manual	Focus Mode	App control(push-auto/manual), Lens control
Panning/Tilting Range	----	----	----	Panning/Tilting Range	----
Panning/Tilting Speed	----	----	----	Panning/Tilting Speed	----
Preset	10 Position	10 Position	----	Preset	----
Focal Length	f = 3.9 mm (wide) to 46.8 mm (tele)	f=4.3 mm (WIDE) to 129 mm (TELE) F1.6 to F4.7	----	Focal Length	Depends on Lens
Field of View (Horizontal, Wide)	Approx. 70.7° (WIDE END) / 6.4° (TELE END)	Approx. 63.7° (WIDE END) / 2.3° (TELE END)	Approx. 63.7° (WIDE END) / 2.3° (TELE END)	Field of View (Horizontal, Wide)	Depends on Lens
Image Compensation	Day & Night Function	Day & Night function	Day & Night function	Image Compensation	Auto
Video Output	HDMI x 2	HDMI (V1.3) x 1 3G-SDI x 1	3G/HD-SDI x1	Video Output	SDI x2 HDMI x1
Audio Input	----	----	----	Audio Input	Support Dual XLR Mic in Embedded with video output
Tally LED	Dual color (Red, Green)	Dual color (Red, Green)	Dual color (Red, Green)	Tally LED	Dual color (Red, Green)
Filter	----	M52.0 x 0.75 Thread with UV Protection	M52.0 x 0.75 Thread with UV Protection	Filter	----
Protocol	VISCA / DVIP Protocol	VISCA / DVIP Protocol	VISCA, Pelco-D, Pelco-C	Protocol	DVIP
Remote Control Interface and Transmit Distance	RS-422: Transmit up to 1000m DVIP (RJ45): 100m	RS-422: Transmit up to 1000m DVIP (RJ45): 100m	RS-485: Transmit up to 1000m	Remote Control Interface and Transmit Distance	RS-232: 12m RS-422: Transmit up to 1000m DVIP (RJ-45): 100m Wifi: 5m USB(OTG): 0.5m
F/W Update	USB	USB	Ethernet	F/W Update	Control app(Wifi)
IR Control	Yes	Yes	----	IR Control	----
Camera Control Unit	RMC-180	RMC-180	----	Camera Control Unit	Android / iOS phone
Size of Screw Hole for Tripod	Use hot shoe mount	Use hot shoe mount	Use hot shoe mount	Size of Screw Hole for Tripod	1/4-20 UNC
Options	PTR-10	PTR-10	PTR-10	Options	PTR-10
Color	Dark blue	Dark blue	Dark blue	Color	Dark blue


Model	HBT-10	HBT-11
		
	HDBaseT Transmitter Box	HDBaseT Receiver Box
Video/Audio Input	HDMI x1	HDBaseT RJ-45 x1
Video/Audio Output	HDBaseT RJ-45 x1	HDMI x1
DVIP	RJ-45 x1(output)	RJ-45 x1(input)
RS-422/ RS-232	Phoenix terminal. Pitch 3.50mm	
Power	DC OUT: DC 12V	DC IN: DC 48V
Dimension	131.8 x 85 x 45.2mm	
HDBaseT Distance	Up to 100m by Cat.6 cable	


Model	RMC-300C	RMC-180
		
	Multi Camera Controller	PTZ Camera Controller
Maximum Camera Control	24	4
Present Position	14 for each camera	4 for each camera
Control Protocol	Datavideo DVIP	Sony VISCA
Connection to Cameras	Over Ethernet	Point to Point


Model	MCU-100P/200P	MCU-100S/200S	MCU-100J/200J
			
	Multi-camera Control Unit-Panasonic	Multi-camera Control Unit-Sony	Multi-camera Control Unit-JVC
Support Functions	Record and Playback Camera User memory functions Camera OSD Menu Navigation Shutter speed and degree functions Iris adjustment AWB & ABB functions White Balance A, B and Preset functions Camera Knee & Bars functions Camera Gain adjustment RGB / R & B gain and Master Pedestal controls	Record and Playback Camera User memory functions Camera OSD Menu Navigation Shutter adjustment Iris adjustment AWB & ABB functions White Balance A, B and Preset functions Knee & Bars functions Gain adjustment RGB / R & B gain and Master Pedestal controls	Record and Record Review Control of Camera User memory Control of Shutter / Focus / Zoom function Iris adjustment AWB & ABB functions White Balance A, B and Preset functions Knee & Bars functions Camera Gain adjustment Assign function RGB / R & B gain and Master Pedestal controls
Camera Side Adapter	AD-1P	AD-1S	AD-1J
Camera Controlled Qty	4	4	4
CAM Remote Interface	10 Pin remote connector	8 Pin remote connector	PS/2 Multicore & LANC
Composition Monitoring to View the Camera's own LCD/ OSD menus	YES	YES	----
Compatible Camera Models	AG-HPX255, AG-HPX300, AG-HPX301, AG-HPX302, AG-HPX304, AG-HPX370, AG-HPX370P, AG-HPX371, AG-HPX372, AG-HPX500, AG-HPX502, AG-HPX600, AG-HPX600P, AJ-HDX900, AJ-HPX2700, AJ-HPX2700G, AJ-HPX3000, AJ-HPX2000, AG-HPX380, AG-HPX3100, AJ-PX800G, AJ-PX500, AG-HPX393	PMW EX3, PMW EX350, PMW 300K2, PMW 350K, PMW 320, PMW 400, PDW-510, PDW-510P, PMW F5, PDW-F55, HDW-F900R, HDW-790P, HDW-750P, PMW-300, PMW-F3, PMW-350, HDW-730S, HDW-F900R	GY-HM750, GY-HM890U, GY-HM850U, GY-HM650U, GY-HM600U, GY-LS300CHU
Connection Distance	300m	300m	300m


Model	RMC-230
	
	MCU Iris/Shutter Control Box
Input/Output Connection	RJ-45 x 2
Power Jack	DC IN x 1 Power Cascade x 1
F/W Upgrade	USB x 1
Display	7-segment Display and LED
Power	DC 12V
Environmental Conditions	Operating temperature: 0~50°C Storage temperature: -10~60°C
Weight	0.6kg





Model	CCU-100J/P/S
	
	Camera Control Unit
Camera Input	17 Pin Jack x 4
Video Input	Composite: BNC x 1
Video Output	HD/SD-SDI: BNC x 4 Composite: BNC x 5
Control Port	RJ-45 x 4 XLR 5 Pin x 4
Power Transmission	XLR 4 Pin male x 4
Power Requirements	DC 12V
Dimension	440 x 243.3 x 49mm




Model	AD-2
	
	CCU-100 Transmission Adaptor
Camera Output	17 Pin Jack x 1
Video Input	HD/SD-SDI: BNC x 1
MIC / Headset	XLR 5 Pin female x 1 3.5mm Jack x 1
Monitor Output Port	10 Pin Jack x 1 (SDI out, Tally, Power, Look Back, View Finder)
Control Port	3.5mm Jack x 1 Volume Control x 1 Camera Remote Control Call Button x 1 External Tally Socket
FW Upgrade	mini USB x 1
Power Switch	Off /8.4V/12V/16.8V
Power Output	Power to Camera (8.4V/12V/16.8V)
Dimension	175.5 x 126 x 85.2mm



Model	TWP-10
	
	4K Video Wall Processor 2x2
Input Resolution	3840x2160p 50/59.94/60 (4:4:4 8bits) 3840x2160p 50/59.94/60 (4:2:2 10bits) 3840x2160p 50/59.94/60 (4:2:0 10bits) 3840x2160p 23.98/24/25/29.97/30 1920x1080p 23.98/24/25/29.97/30/50/59.94/60 1920x1080i 50/59.94/60 1280x720p 50/59.94/60
Output Resolution	1920x1080p 23.98/24/25/29.97/30/50/59.94/60 1920x1080i 50/59.94/60 1280x720p 50/59.94/60 720x576p 50 720x480p 60
Video Input	1x HDMI
Video Output	4x HDMI
Audio Input	Embedded Digital Audio (2 CH)
Audio Output	1x Stereo RCA (L/R)
Control Interface	Mini-USB type A, RJ-45 port
Software Upgrade	Mini-USB type A
Power	12V 18W






Model	HDR-10
	
	Instant Replay
Video Standard	HD
Video Format	1080p 50/59.94/60 (3G support Level A signal only) 1080i 50/59.94/60 720p 50/59.94/60
Supported Video Input Signal	1x SDI
Monitoring / Playback Output	2x SDI
Analog Audio Input / Output	----
Embedded Audio	SDI Input
Storage Medium	Internal 4GB Buffer / SSD
Estimated Record Time (min per 10GB)	----
Recording Media	Removable Hard Drive / SSD
Storage File System	NTFS (read only)
Recorded File Format	MOV
Video Recording Bit Rate / Color Sampling	Uncompressed 10-bit 4:2:2
Audio Recording Format	Uncompressed PCM
Time Code In / Out	Via embedded SDI only
External Sync / Genlock	LISN(Local Interconnect Synchronous Network)
Power Failure Protection	----
Chassis	Rack-mountable with RMK-2 2U Rackmount Kit


Model	RMC-400
	
	Replay Controller
Connection	4 x mini USB
Control	T-Bar Jog/Shuttle Dialer Control Buttons GPI (Pulse Trigger)
Software Update	USB Type A


Model	HRS-30	HDR-80/90	HDR-60/70	HDR-1
				
	Fieldside Hand Carry Recorder	ProRes Video Recorder	HD/SD Digital Video Recorder	H.264 USB Recorder
Video Standard	HD & SD	HD & SD	HD & SD	HD & SD
Video Format	1080p 23.97/24Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz, 480i 59.94Hz	1080p 23.97/24/25/29.97/30/50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz	1080P 23.97/24Hz 1080i 50/59.94/60Hz 720P 50/59.94/60Hz 567i 50Hz, 480i 59.94Hz	1080p 25/30 1080i 50/60 720p 50/60 480i/480p/576i/576p
Supported Video Input Signal	1x SDI	1x SDI 1x HDMI	1x SDI	1x HDMI
Monitoring / Playback Output	1x SDI (input loop thru) 1x HDMI, 1x SDI (Out)	1x SDI, 1x SDI Loop Out 1x HDMI	1x SDI (Input Loop Thru) 1x HDMI, 1x SDI (Out)	1x HDMI
Analog Audio Input / Output	N/A (input) 3.5Ø phone jack (output)	2x Balanced XLR (Stereo pair) 2x Balanced XLR (Stereo pair)	2x Balanced mini XLR (Stereo pair)(HDR-60) 2x Balanced XLR (Stereo pair) (HDR-70)	----
Embedded Audio	SDI Input / Output (8CH) HDMI Output (2CH)	SDI Input / Output (8CH) HDMI Input / Output (2CH)	Both In & Out (8-CH on SDI & HDMI)	2ch pcm
Storage Medium	SSD: 120GB / 256GB / 512GB / 1TB	2.5" SSD, USB Flash Drive, SD Card	2.5" Hard Drive / SSD*, Max capacity 1TB	USB Flash Drive
Estimated Record Time (min per 10GB)	SD: 22min (50Mbps) ~ 75min (8Mbps) HD: 10min (125Mbps) ~ 68min (10Mbps)	SD: 90 (Proxy), 39 (LT), 27 (Standard), 18 (HQ) HD: 27 (Proxy), 11.5 (LT), 8 (Standard), 5.5 (HQ) 3G: 13 (Proxy), 6 (LT), 4 (Standard), 2.5 (HQ)	SD: 19min (50Mbps) ~ 70min (8Mbps) HD: 8min (125Mbps) ~ 62min (10Mbps)	SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps)
Recording Media	Removable Hard Drive / SSD	Removable SSD,USB, SD Card	Removable Hard Drive / SSD	Removable Hard Drive / SSD
Storage File System	NTFS	exFAT	NTFS	NTFS
Recorded File Format	MXF OP1A, MOV	QuickTime .MOV	MXF OP1A, MOV	MP4 (H.264+ AAC) YUV 4:2:0 / 12bit
Video Recording Bit Rate / Color Sampling	MPEG2 Long GOP HD: 1. 10Mbps 4:2:0 1440x1080/1280x720, 2. 25Mbps 4:2:0 1440x1080/1280x720, 3. 35Mbps 4:2:2 1920x1080/1280x720, 4. 50Mbps 4:2:2 1920x1080/1280x720, 5. 65Mbps 4:2:2 1920x1080/1280x720, 6. 120Mbps 4:2:2 1920x1080/1280x720, MPEG2 Long GOP SD 1. 8Mbps 4:2:0 720x480/720x576 (to be F/W upgrade) 2. 15Mbps 4:2:2 720x480/720x576 3. 30Mbps 4:2:2 720x480/720x576 4. 50Mbps 4:2:2 720x480/720x576 MPEG2 I-Frame Only HD 1. 80Mbps 4:2:2 1920x1080/1280x720 2. 100Mbps 4:2:2 1920x1080/1280x720 3. 125Mbps 4:2:2 1920x1080/1280x720 MPEG2 I-Frame Only SD 1. 25Mbps 4:2:2 720x480/720x576 2. 50Mbps 4:2:2 720x480/720x576	ProRes HQ 4:2:2 ProRes Standard 4:2:2 ProRes LT 4:2:2 ProRes Proxy 4:2:2	MPEG2 Long GOP HD: 1. 10Mbps 4:2:0 1440x1080/1280x720, 2. 25Mbps 4:2:0 1440x1080/1280x720, 3. 35Mbps 4:2:2 1920x1080/1280x720, 4. 50Mbps 4:2:2 1920x1080/1280x720, 5. 65Mbps 4:2:2 1920x1080/1280x720, 6. 120Mbps 4:2:2 1920x1080/1280x720, MPEG2 Long GOP SD 1. 8Mbps 4:2:0 720x480/720x576 2. 15Mbps 4:2:2 720x480/720x576 3. 30Mbps 4:2:2 720x480/720x576 4. 50Mbps 4:2:2 720x480/720x576 MPEG2 I-Frame Only HD 1. 80Mbps 4:2:2 1920x1080/1280x720 2. 100Mbps 4:2:2 1920x1080/1280x720 3. 125Mbps 4:2:2 1920x1080/1280x720 MPEG2 I-Frame Only SD 1. 25Mbps 4:2:2 720x480/720x576 2. 50Mbps 4:2:2 720x480/720x576	3~20Mbps selectable: 1080P 20M/18M/15Mbps 720P 20M/15M/10Mbps 1080i 15M/12M/10Mbps 480P/i 7.5M/5Mbps/3Mbps
Audio Recording Format	Uncompressed PCM	Uncompressed PCM Sampling rate 48KHz 24bit	Uncompressed PCM Sampling rate 48KHz 24bit	AAC 2CH, but not support audio rec only
Time Code In / Out	Yes	Yes	Yes	----
External Sync / Genlock	Black Burst & Tri-level w/loop thru	Black Burst & Tri-level with loop thru	Black Burst & Tri-level with loop thru	----
Power Failure Protection	Content saved up to last second before power failure	----	Content saved up to last 3 seconds or less before power failure	Yes
Chassis	Desktop	Desktop (HDR-80) 1RU rack-mountable (HDR-90)	Desktop (HDR-60) 1RU 19" rack-mountable (HDR-70)	1RU/ Half-rack



Model	NVS-40	NVS-30	NVS-25
			
	4 Channel Streaming Encoder/ Recorder	H.264 Video Encoder-HDMI	H.264 Video Encoder-SDI/HDMI/CVBS
Video Input	HDMI x4 (Channel 1 SDI/HDMI selectable)	HDMI x1	HDMI x1 SDI x1 CVBS x1
Supported Video Input Resolution	1080p 60/59.94/50 1080p 30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50 480i 59.94, 576i 50	1080p 60/59.94/50/30/29.97/25/24/23.98 1080i 29.97/25 720p 60/59.94/50	1080p 50/59.94/60 (record/output at 25/30p) 1080i 50/59.94/60 720p 50/59.94/60 576i, 480i
Video Output	HDMI 1.4x1 SDI loopthrough x1	HDMI x1	N/A
Audio Input	RCA L/R x1 XLR x2	HDMI embedded audio 3.5mm phonejack x1	RCA L/R x1 XLR x2
Encode	H.264/AVC High Profile Level 4.1	H.264 Baseline/Main/High	H.264 Main 3.0/3.1/High4.0
Video Bitrate	Each Channel Rec + Stream 30Mbps	100Kbps~20Mbps Rec+Stream:30Mbps	800Kbps~6Mbps (The same bitrate for recording and streaming)
Video Rate Mode	CBR/VBR	VBR	CBR/VBR
Audio Mode	Stereo/Mono	Stereo	Stereo/Mono
Audio Bitrate	AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K	32~256Kbps	Stereo: 64~384Kbps Mono: 32~192Kbps
Streaming Protocols	TS over UDP unicast & multicast, RTSP over HTTP/TCP/UDP, RTMP (Publish), HLS	TS over TCP/UDP, Unicast & Multicast RTSP over HTTP/TCP/UDP (RTSP Elementary Stream), RTMP(Publish)	HLS, RTSP over HTTP/TCP/UDP, RTMP (Local, Publish)
Recording File Format	MP4, MOV	MP4, MOV	MP4, Transport Stream
Storage	HDD x1	USB x2 SD card x1	USB x1
Power Supply	DC 12V 16W	DC 5V 15W	DC 12V 7.2W


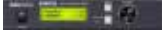

Model	NVD-35	NVD-30
		
	SDI IP Video Decoder	HDMI IP Video Decoder
Audio/Video Input	Stream Input · RTSP over UDP (Unicast / Multicast) · RTSP over TCP · RTSP over HTTP · MPEG-TS over UDP · RTMP over TCP · UDP raw (Unicast/Multicast) · HLS over HTTP · MPEG-TS over TCP Pull · Video sharing websites	Stream Input · RTSP over UDP (Unicast / Multicast) · RTSP over TCP · RTSP over HTTP · MPEG-TS over UDP · RTMP over TCP · UDP raw (Unicast/Multicast) · HLS over HTTP · MPEG-TS over TCP Pull · Video sharing websites
Audio Output	2 x RCA(L/R), SDI embedded audio	2 x RCA(L/R), HDMI embedded audio
Video Output	Composite (analogue), SDI (digital)	Composite (analogue), HDMI (digital)
Network Feature	1x RJ-45 Female (10/100M Ethernet) DHCP/Static IP	1x RJ-45 Female (10/100M Ethernet) DHCP/Static IP
Supported Video Resolution	1080p 60/59.94/30/29.97/25/24 1080i 60/59.94/50 720p 60/59.94/50 576i 50 (PAL) 480i 60 (NTSC)	1080p 60/59.94/30/29.97/25/24 1080i 60/59.94/50 720p 60/59.94/50 576i 50 (PAL) 480i 60 (NTSC)
Control	Web browser UI for configuration and control. TCP/IP Socket commands	Web browser UI for configuration and control. TCP/IP Socket commands
Update	Automatic firmware upgrade	Automatic firmware upgrade
Power	Input AC 100~240V Switching Adaptor, Output DC 12V / 1A	Input AC 100~240V Switching Adaptor, Output DC 12V / 0.5 A
Environmental Conditions	Operating temperature: 0~50°C, Storage temperature: -10~60°C	Operating temperature: 0~50°C, Storage temperature: -10~60°C


Model	ITC-100	ITC-200E	
			
	Intercom System	Intercom Expansion Unit	
Power	12V / 8W	12V / 22W	
Tally	2 x 15 Pin DSub Sockets for Tally A and B	2 x 15 Pin Sub female Sockets for Tally A and Tally B	
MIC / Headset	3.5 mm Stereo Jack Socket for Headphone / Microphone combination. Headset Impedance 8-600 Ohms 100 mW(min)	----	
Headphone	¼" (6.3mm) Stereo Headphone Socket Headset Impedance 8-600 Ohms 100 mW (min)	----	
Light Socket (DC 12 V)	3 PIN XLR Connector PIN 2: 12V PIN 3: GND Light Power Consumption: 12 V / 100 mA (MAX.)	----	
Microphone	3 PIN XLR / ¼" (6.3mm) Jack Microphone Socket Switchable Condenser / Dynamic Input Microphone Level -67 dB	----	
Frequency Response	550-3.6 kHz, < +/- 3dB	550-3.6KHz, < +/-3dB	
THD	< 3%	< 3%	
S/N	> 50dB	> 50dB	
Built-in Speaker	70mm x 30mm 32 Ohm 3 Watts	----	
Operating Range	Up to 200 meters between base station and slave	Up to 200 meters between base station and slave	
Operating Temp. Range	5~45 °C	5~45 °C	
Model	TVS-2000A	TVS-1200A	TVS-1000A
			
Tracking/Trackless	2 Input 3G-SDI Tracking Virtual Studio 3D Tracking & Trackless	2 Input 3G-SDI Trackless Virtual Studio 2D Trackless	1 Input HDMI Trackless Virtual Studio 2D Trackless
Video Input	3G-SDI x 2 + AUX-HDMI x 1	3G-SDI x 2 + AUX-HDMI x 1	HDMI x 1 + AUX-HDMI x 1
Video Output	3G-SDI x 2 + AUX-HDMI x 1	3G-SDI x 2 + AUX-HDMI x 1	HDMI x 1 + AUX-HDMI x 1
Video Input/Output Format	1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50	1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50	1080p 30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50
Audio Input	Mini Phone Jack x 2 HDMI audio embedded x 1 SDI audio embedded x 2	Mini Phone Jack x 2 HDMI audio embedded x 1 SDI audio embedded x 2	Mini Phone Jack x 2 HDMI audio embedded x 2
Operation Monitor	DP x2, HDMI x2, DVI x1 (Choose 3 from 5)	DP x1, HDMI x1, DVI x2 (Choose 3 from 4)	DP x2, HDMI x1, DVI x1 (Choose 3 from 4)
Tally	Yes	Yes	----
Downstream Key	2	2	2
Media	2(DDR)	2(DDR)	2(DDR)
Virtual Studio	30	200 & Unlimited download from datavideovirtualset.com	200 & Unlimited download from datavideovirtualset.com
Still Picture	2	2	2
Still Text	2	2	2
Keyer	Chromakey / Luminance key x 2	Chromakey/ Luminance key x 2	Chromakey/ Luminance key
Recording	H.264 / MPEG-2	H.264 / MPEG-2	H.264 / MPEG-2
Live Streaming Protocols	TS HTTP/ TS RTP/ TS UDP TS RTSP/ FLV HTTP/ FLV RTMP	TS HTTP/ TS RTP/ TS UDP TS RTSP/ FLV HTTP/ FLV RTMP	TS HTTP/ TS RTP/ TS UDP TS RTSP/ FLV HTTP/ FLV RTMP
Hard Disk Capacity	1TB+240G SSD	1TB+240G SSD	1TB


Model	VGB-500
	
Pro Presentation System	
Video Format	1080p 25/30/50/59.94/60 1080i 50/59.94/60 720p 50/59.94/60 576i, 480i
Video Input	1 x SD/HD/3G-SDI 2 x HDMI
Video output	1 x SD/HD/3G-SDI 2 x HDMI
Chromakey Control	PC to the RJ-45
Audio Input	1 x Microphone Input · XLR connector 2 x unbalanced stereo audio/RCA/phone sockets
Audio Signal Spec.	Bandwidth: 20~20KHz<+/-3dB S/N Ratio>70dB T.H.D<0.1%
Audio Signal Delay Time	10~700ms (1 frame PAL=40ms, 1 frame NTSC= 33.333' ms)
Foot Switch Input	1 x 3 pin mini XLR
Streaming Output	1 x RJ-45 (10/100M Ethernet)
Streaming Video Encoding	H.264/AVC, Main/High profile Configurable Bit-rate up to 10Mbps
Streaming Audio Encoding	AAC 16bit 48KHz Mono/Stereo Configurable Bit-rate from 32Kbps to 384Kbps
Streaming Video Resolution	1080p 60/59.94/50/30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50 576i 50, 480i 59.94
Streaming Protocols	TS over TCP/UDP Unicast & Multicast RTSP over HTTP/TCP/UDP (RTSP Elementary Stream) RTMP(Publish)
Recorded Video Format	1080p 50/60 1080i 50/60 720p 50/60 480i/480p/576i/576p
Recorded Audio Format	AAC 16bit 48KHz 128Kbps Stereo
Recorded File Format	MP4 (H.264+ AAC)
Recording Storage File System	NTFS



Model	DVK-300HD
	
HD/SD Chromakey	
Video Standard	3G/HD/SD
Video Format	1080p (25/30/50/59.94/60 Hz), 1080i (50/59.94/60 Hz), 720p (50/59.94/60 Hz), 480i (NTSC), 576i (PAL), Autodetect
Foreground Inputs	1x 3G/HD/SD-SDI, 1x HDMI (1.4)
Background Inputs	1x 3G/HD/SD-SDI, 1x DVI-I
Loop Through	N/A
Output	2x 3G/HD/SD-SDI, 1x HDMI
Keying Options	Chromakey Green / Blue, Lumakey
Key Mask / Spill Correction / Edge Correction	Yes
Color Processor	Foreground: Brightness, Contrast, Saturation, Ambient Intensity
Noise Reduction	Yes
User Preset	4
GPI In / Out	N/A
Controlled Via	Ethernet/ RS-232
Chassis	1RU 19" Rack-mount Design

Model	VS-100	VS-150
		
Portable Vectorscope		Desktop Vectorscope
Video Inputs	1x HD/SD-SDI	1x HD/SD-SDI
Video Outputs	1x HDMI	1x HDMI
Loop Through	1x HD/SD-SDI	1x HD/SD-SDI
Audio Inputs	Embedded Audio through SDI interface	
Audio Outputs	1x 2-Channel 3.5mm stereo phone jack	
Input Resolutions	1080p 24/25/30Hz, 1080i 50/59.97/60Hz, 720p 25/29.97/30/50/59.97/60Hz, 576i, 480i	



Model	AD-200	AD-100M	AM-100
			
	Audio Delay Box with Level Adjustment	Audio Delay Box	Audio Mixer
Audio Input	6x XLR, 2x RCA	3x XLR (2 for Line-in, 1 for Mic-in), 2x RCA	6x XLR (4 for Line-in/Mic-in adjustable)
Audio Output	4x XLR, 2x RCA, 1x 3.5mm	2x XLR, 2x Unbalanced RCA	2x XLR
Audio Indicator	1.77" Color OLED	SMT LCD	Audio Level LED
Audio Delay	Up to 3 Seconds	Up to 700ms	----
Special Feature	Audio Delay and Mix, delay by channel	----	Tally Signal Output, A+V
Chassis	2 units, rack-mount mainframe	Rack-mountable with RMK-1 Rackmount Kit	Rack-mountable with RMK-1 Rackmount Kit
Power	DC 12V 19W (front) / DC 12V 16W (rear)	DC 12V 18W	DC 12V 30W



Model	BAC-03	
		
	Balanced/Unbalanced Audio Converter	
	UNBAL to BAL Output	BAL to UNBAL Output
Input Level	-10dBv nominal	0dBm to +8dBm nominal
Input Imped	50K ohm	50K ohm
Gain	+4 to +20dB	-20dB to +18dB
Output Level	0 to +8dBm nom, +22dBm max	-10dBv nom, +20dBv max
Output Load	600 ohms or higher, balanced	600 ohms or higher, unbalanced
Freq Response	DC to 25kHz, +/-0.5dB	DC to 25kHz, +/-0.5dB
Noise Level	80dB below nom output level	80dB below nom output level
Distortion	<0.01% at any frequency	<0.01% at any frequency
Power Input	DC 12V, 200mA	




Model	DAC-80
	
	Audio Isolation Transformer
Impedance	600Ω +/- 10% (Input & output)
Bandwidth Frequency	20Hz ~20KHz ±0.5dB
THD: 1 KHz	< 0.015% @ +4dBu; 20Hz: 0.05% @ +4dBu
Insertion loss	<0.5dB
Turns Ratio	1:1
Input	2 XLR Audio Input Channels
Output	2 XLR Audio Output Channels
Dimensions	85mm x 45.2mm x 111.5mm (W x H x D)


Model	DAC-90	DAC-91
		
	SDI Audio De-embedder	SDI Audio Embedder
SDI Video Input	3G/HD/SD-SDI x 1	3G/HD/SD-SDI x 1
SDI Video Output	3G/HD/SD-SDI x 1 (Re-clocked Loop through)	3G/HD/SD-SDI x 2
Analog Audio Input	----	Mini XLR (balanced) x 2 ,RCA (unbalanced) x 2 * Mini XLR1 & RCA1 mixed to CH1 * Mini XLR2 & RCA2 mixed to CH2
Analog Audio Output	Mini XLR (Balanced) x 4	----
Indicator	Power LED x 1 Audio Level LED : 4 rows	Power LED x 1 Audio Level LED : 2 rows
Updates and Configuration	Mini USB x 1	Mini USB x 1
Audio Format Selection	SMPTE, EBU	SMPTE, EBU
Gain	----	Yes





Model	TP-150	TP-300	TP-500	TP-650
				
	Teleprompter System dedicated to PTZ cameras	Tablet Prompter	DSLR Prompter	Large Screen Prompter Kit for ENG Cameras
Device Used	Apple iPads Android Tablets	Apple iPads Android Tablets	Apple iPads Android Tablets	Apple iPads Android Tablets
Camera-Mount Interface	PTZ Prompter Frame	Prompter Frame	Adjustable Camera Plate	Prompter Rail
Smartphone / Tablet Size	Min. Tablet Width: 145mm Max. Tablet Width: 265mm	Min. Tablet Width: 110mm Max. Tablet Width: 220mm	Min. Tablet Width: 110mm Max. Tablet Width: 220mm	Min. Tablet Width: 145mm Max. Tablet Width: 265mm
Multi-language Support		Device dependent including Arabic and Asian languages such as Chinese, Japanese, Korean, Hindi, Tamil and more		
Hood Dimension / Prompter Size	Not applicable - No hood supplied Below lens prompting only	Width: 250mm Height: 160mm Depth: 240mm	Width: 265mm Height: 160mm Depth: 120mm	Width: 415mm Height: 290mm Depth: 750mm
Remote Control		Universal Bluetooth Wireless Remote Included (with USB cable adapter for charging purposes)		
Net Weight	0.78 Kg	1.82 Kg	1.28 Kg	3.28 Kg

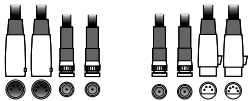
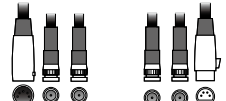
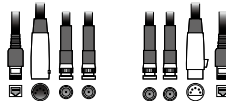
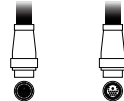
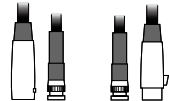
Model	CG-500	CG-350
		
	HD/SD Graphic & Character Generator	HD/SD Character Generator Software
SD Resolution	●	●
HD Resolution	●	●
Manual Playout Control	●	●
Playlists	●	●
Animated Logo / Sequence	●	●
Scheduling	●	●
Dynamic Data Integration	●	●
Database Integration	●	●
Live 3D Graphics	●	●
Fast Graphics Rendering	●	●
Template-based	●	●
Media Library	●	●
Keyframe Control	●	●
Capture Video Frame	●	●
Recommended Video Card for Both Internal / External key	Datavideo TC-200 Decklink 4K Extreme	Datavideo TC-200 Decklink 4K Extreme

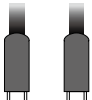
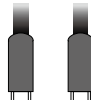
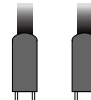
Model	TC-200	TC-100
		
	SDI Title Creator	HDMI Title Creator
Video Input	HDMI x 1 HD-SDI x 1	HDMI x 2
Video Output	HD-SDI x 1 LAN port x 1	HDMI x 2
Input Format	1080i 50/59/60 720p 50/59/60 576i 50 480i 59	1080p 50/59.94/60 1080i 50/59.94/60 720p 50/59.94/60
Control	By Dip Switch/PC	By Dip Switch/PC
F/W Upgrade	Ethernet (RJ-45)	Ethernet (RJ-45)
Power	12V	7-15V

Model	PD-2A	PD-4A	PD-6
			
	Power Center	Redundant Power Center	Camera Power Center
AC input	100~240 VAC (50Hz or 60Hz) AC input outlet: One AC input with Power Switch	100~240 VAC (50Hz or 60Hz) AC input outlet: Two AC inputs & Two Power Switches	100~240 VAC (50Hz or 60Hz) AC input outlet: One AC input with Power Switch
DC Backup Input	One DC 12V/32A supports non-regulated DC 12V output	One DC 12V/25A supports non-regulated DC 12V output	----
DC Outputs	8 12V±5%, 3A XLR DC Female Jack x4 12V±5%, 5A XLR DC Female Jack x2 12V±5%, 10A XLR DC Female Jack x2	5 12V±5%, 5A XLR DC Female Jack x3 12V±5%, 10A XLR DC Female Jack x1 (share of two XLR DC Jack)	8 30W:12V(2.5A), 14.4V(2A), 24V(1.25A), 48V(0.6A) 60W:12V(5A), 14.4V(4A), 24V(2.5A), 48V(1.25A) PIN 1:GND PIN 2:DC OUT PIN3/4:NC
Max. Power Rating	400W	360W	360W
DC Overload	DC overload protection, auto-recovery fuses on each DC output terminal	DC overload protection, auto-recovery fuses on each DC output terminal	Protection type: Recovery automatically after fault condition is removed
AC Overload	non-recovery fuse on the AC input outlet	non-recovery fuse on the AC input outlet	non-recovery fuse on the AC input outlet
LED Indicator	8 DC output LED indicators	Green LED: Unit under working condition Red twinkle: AC Input failed 1~4 XLR DC outputs LED indicator	LED Color Indicator: Red:48V, Weak Red:24V, Green:14.4V, Blue:12V
Power source Input Select AUTO/AC	Selectable of Auto/AC input switch	Selectable of Auto/AC input switch	----

DDC-4012H		
		
		DC to DC 12/7.2V 4.0A Converter
Input	Voltage Range Efficiency(Typ.)	15V~50V DC UP TO 85%
Output	DC Voltage	7.2V / 8.4V / 12V
	Voltage Tolerance	±3%
	Rated Current	4 A
	Current Range	0~4 A
	Rated Power	48W
Protection	Ripple & Noise(Max)	<400mV
	Over Load	105%~150% rated output power Protection type: Recovery automatically after fault condition is removed
Connector	DC Input (4Pin XLR Male)	PIN 1:GND, PIN 2: DC IN, PIN3/4: NC
	DC Output(4Pin XLR Female)	PIN 1:GND, PIN 2/3:NC, PIN4: DC OUT
	DC Output (5.5Mm DC Jack)	Center: DC OUT , Shell: GND
Environment	Working Temp	0°C to 40°C (32°F to 102°F)
	Working Humidity	10% to 90% (non condensing)
	Storage Temp.humidy	-40°C to +85°C, 10~95% RH
Others	Dimension	115 mm x 50 mm x 35 mm (L x W x H)
	Weight	Approx. 0.3 kg/ 0.66 lbs
	Cable	UL 2464 ,18AWG, L=1M
	Slide Switch	Selected 7.2V or 12V output
	LED Lamp	RED:DC out 12V, Green: DC out 7.2V, Orange: DC out 8.4V

Model	VP-781	VP-737	VP-633/634	VP-605H
				
	HD/SD-SDI and Intercom Repeater Box	Composite Signal Repeater	100m SDI repeater	All In One Cable Extender
Video and Signal	Input: HD/SD-SDI, Talkback,Tally Output: HD/SD-SDI, Talkback,Tally	Transmitter: CV Input (BNC), DC Input, CAT 5 Output (RJ-45) Receiver: CV Output (BNC), CAT 5 Input (RJ-45)	Input: HD-SDI/SD-SDI Output: HD-SDI/SD-SDI	Input: HD/SD-SDI, CV, Talkback, Tally, DC in Output: HD/SD-SDI, CV, Talkback, Tally, DC out
Standard	SD: SMPTE 259M HD: SMPTE 292M	SD: SMPTE 259M	SD: SMPTE 259M HD: SMPTE 292M	SD: SMPTE 259M HD: SMPTE 292M
Video Format	SD: 576i PAL, 480i NTSC HD: 1080p 24/25/30 1080i 50/59.94/60 720p 50/59.94/60	625i PAL, 525i NTSC	SD: 480i, 576i HD: 720p 50/59.94/60 1080i 50/59.94/60 1080p 24/25/30	SD: 480i, 576i HD: 720p 50/59.94/60 1080i 50/59.94/60 1080p 24/25/30
Audio	SDI Embedded Audio	----	SDI Embedded Audio	SDI Embedded Audio
Power	----	DC 12V	DC 12V~25V (VP-633 only)	DC 25V~48V

Model	CB-22H/ 23H	CB-24	CB-30/ 31	CB-43/44/45	CB-46/ 47
					
	HD/SD 4-in-1 Cable (HD-SDI/ITC/CV/DC Power)	SD 100m 3-in-1 Cable (SDI/ITC/CVBS)	HD/SD 4-in-1 Cable for Multi-Camera Control (HD-SDI/ITC/CV/Cat-5)	All in One Cable for CCU	HD/SD 30m 2-in-1 Cable (HD-SDI/ITC)
Interface	1 x 4-pin XLR power cable (pin1+/pin2-) 1 x 5-pin XLR ITC/Tally cable 1 x 75Ω BNC for HD/SD-SDI video 1 x 75Ω BNC for CV return video	1 x 5-pin XLR ITC/Tally cable 1 x 75Ω BNC for SD-SDI video 1 x 75Ω BNC for CV return video	1 x 5-pin XLR ITC/Tally cable 1 x 75Ω BNC for HD/SD SDI video 1 x 75Ω BNC for CV return video 1 x CAT-5 cable for Camera control	1 x 17-pin cable	1 x 75Ω BNC for HD/SD-SDI video (3 C2V) 1 x 5-pin XLR ITC/Tally cable
Length	CB-22H: 30m CB-23H: 50m	100m	CB-30: 30m CB-31: 50m	CB-43: 30m CB-44: 50m CB-45: 80m	CB-46: 30m CB-47: 50m
Repeater	VP-605H	VP-605H	VP-633 and VP-634	---	VP-633,VP-634 and VP-781
Applications	Intercom & Tally DC Power 12~48V Up to 1080i video transmission (HD/ SD-SDI) Return video for Look Back monitor Datavideo OBV or Mobile Studio	Intercom & Tally DC Power 12~48V Up to 1080i video transmission (SD- SDI) Return video for Look Back monitor Datavideo OBV or Mobile Studio	EFM Multi-camera Operation Mobile Video Studio Up to 1080i video transmission (HD/ SD-SDI)	Intercom & Tally Up to 1080i video transmission (HD/ SD-SDI) Return video for Look Back monitor MCU Control, Power, View Finder Designed for CCU-100 and AD-2 system Outside Broadcast Video Studio VAN	Intercom & Tally Up to 1080i video transmission (HD/ SD-SDI) Range of Datavideo Mobile or Portable Video Studio

Model	CB-60	CB-61	CB-62
			
	HDMI Active Optical Cable - 30m	HDMI Active Optical Cable - 50m	HDMI Active Optical Cable - 100m
Length	30m	50m	100m
Interface	HDMI type A pluggable – HDMI type A pluggable	HDMI type A pluggable – HDMI type A pluggable	HDMI type A pluggable – HDMI type A pluggable
Speed	Support 4K@60Hz UHD display	Support 4K@60Hz UHD display	Support 4K@60Hz UHD display
Power	No external power needed	No external power needed	No external power needed
Power Consumption	250mW	250mW	250mW
Cable Diameter	3.0 x 5.0mm	3.0 x 5.0mm	3.0 x 5.0mm
Bend Radius	20mm	20mm	20mm
Operating Temp	0 ~ 55 °C	0 ~ 55 °C	0 ~ 55 °C
Storage Temp	-20 ~ 80 °C	-20 ~ 80 °C	-20 ~ 80 °C

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