Panasonic
BUSINESS

Flexible Videoconferences That Meet Your Needs

Quick decision making and extensive information sharing are essential for today's business. Panasonic HD Visual Communication (HDVC*) System supports them with efficient communication in distance.

* HD Visual Communications System is abbreviated as HDVC hereafter.

HDVC Main Unit

HD Communication Camera, Boundary Microphone, HDMI cable sold separately.

Panasonic KX-VC2000 — HD Visual Communication

KX-VC2000 NEW
Max. 24 sites
(To be released 4th quarter CY2016)
- Full HD 1080p image quality
- Expandable up to 24 sites connection with optional licence

KX-VC1600
Max. 10 sites
- Full HD 1080p image quality
- Expandable up to 10 sites connection with optional licence

KX-VC1300
Built-in 4 sites
- Full HD 1080p image quality

KX-VC1000 NEW
Point to Point
(To be released 3rd quarter CY2016)
- Full HD 1080p image quality
- Expandable up to 4 sites connection with optional licence (Point to point model)

HDVC Mobile
(HDVC Application)

(Windows/iOS/Android™)
*iPhone and iPad supported

Optional Accessories*
*Sold separately

HD Communication Cameras

GP-VD151   GP-VD131

Boundary Microphones

KX-VCA001   KX-VCA002

(Due to product development, details are subject to change without notice.)

Up to 24 sites Multi-Point Connection
New HDVC have a Line-up covering point to point connection and up to 24 sites connection. It can be available for flexible system configuration to meet customers' needs.

Dual Network Connection for company internal and external network
HDVC is ready for connecting both internal and external network. No expensive equipment is required to connect external companies. (Dual Network is available on KX-VC2000/ KX-VC1600.)

Multi-Device stress-free conference
HDVC supports Multi-Device of Windows/iOS/Android™. The generation of packet losses for the HDVC System and HDVC Mobile is prevented by the rate control (AV-QoS), and lost packets are restored by the combined use of the forward error correction and automatic repeat request control.

Multi Monitor Capability
HDVC supports multi-monitors to show PC contents, and other party camera image. The KX-VC2000/ KX-VC1600 supports Triple Monitors that enables even third monitor to show own site image. The KX-VC1300/ KX-VC1000* support Dual Monitors only. * Option must be purchased.

Connecting with operating rooms
Real-time videoconferences can be held while viewing images of an ongoing operation on a monitor outside the operating room. This makes it possible to provide advanced treatment methods with some of the participating doctor in location other than the operating room.

3MOS 4K Ultra HD Camera
GP-UH532

Interoperability with other manufacturers' videoconference units
HDVC supports conventional protocol of H.261/H.263/H.264 as well as H.239 dual stream of PC contents and camera image simultaneous display. This provides existing videoconference user step by step less expensive migration.

Specifications

Main Unit		KX-VC2000 [NEW]	KX-VC1600	KX-VC1300	KX-VC1000 [NEW]
Communication Method		SIP, H.323			
Video Compression Method		H.261 (mainstream only), H.263, H263+, H.263++ (reception only), H.264 High Profile, H.264 Baseline Profile			
Audio Compression Method		G.711 µ-law, A-law (3.4 kHz@64 kbps) G.722 (7.0 kHz@64 kbps) G.722.1 (7.0 kHz@32 kbps) G.722.1 Annex C (14.0 kHz@48 kbps/24 kbps) MPEG-4 AAC-LD Mono (7.0 kHz@32 kbps, 14.0 kHz@64 kbps, 22.0 kHz@96 kbps) MPEG-4 AAC-LD Stereo (14.0 kHz@64 kbps, 22.0 kHz@96 kbps)			
	No. of Channels	G.711/G.722/G.722.1/G.722.1 Annex C: 1 MPEG-4 AAC-LD Mono: 1/ MPEG-4 AAC-LD Stereo: 2			
Remote Camera Control		H.224, H.281 (Zoom/Pan/Tilt/Preset)			
Dual Stream	Method	H.239 (H.323), BFCP (SIP)			
	Multi-Monitor	3 displays		2 displays*1	
	No. of Applicable Resolution Frames	Main: Max. 1080p 30 frames/second, Sub: Max. 1080p 30 frames/second			
Encryption		SRTP (AES 128 bit), H.235 (AES 128 bit)			
Other		H.460			
Communication Bandwidth		256 kbps to 18 Mbps			
Video	Compatible Resolutions*2	176 x 144p, 352 x 240p, 352 x 288p, 512 x 288p, 640 x 480p, 704 x 480p, 704 x 576p, 768 x 432p, 800 x 600p, 1024 x 768p, 1280 x 720p, 1280 x 768p, 1280 x 800p, 1920 x 1080p			
	No. of Frames	Max. 60 frames/second (When using H.264 1080p)			
	Screen Display	Full-screen, Picture in Picture, Picture with Picture, Side by Side			
Audio		Echo canceller, Auto gain control, Stationary noise reduction, Lip synch, Equalizer, Mic mute			
I/O Terminals	Video Input — Camera*3	HDMI main x 1, HDMI sub x 1 Input resolution: 1280 x 720p, 1920 x 1080i, 1920 x 1080p			
	Video Input — PC	RGB x 1 (Mini D-sub 15pin), HDMI x 1*3 Input compatible resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full-HD			
	Video Output	HDMI x 2, HDMI x 1 (For own site/recording video) RCA x 1 (Component) Supported output resolutions: 1920 x 1080i, 1920 x 1080p		HDMI x 2*4 Supported output resolutions: 1920 x 1080i, 1920 x 1080p	
	Audio Input	Digital Boundary Microphone x 1 (KX-VCA001) Max. 4, Analogue Boundary Microphone x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*5 x 1 (ø3.5 mm) RCA, (Stereo) x 1		Analogue Boundary Microphone x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*5 x 1 (ø3.5 mm), RCA (Stereo) x 1	
	Audio Output	HDMI*6, Stereo mini-plug*5 x 1 (ø3.5 mm), RCA x 1 (Stereo)			
	Network	RJ45 x 2 (100BASE-TX Full Duplex)		RJ45 x 1 (100BASE-TX Full Duplex)	
	External Control	RS-232C x 1 (Also used for maintenance)			
	Others	USB 2.0 x 1, Camera Control Terminal x 1 (Not used)			
No. of Simultaneous Connection Sites		24 (Max.) /16 (Default)	10 (Max.) /6 (Default)	4 (Default)	Point to point (Up-gradable to 4)
Content Sharing		PC (RGB/HDMI), Sub video camera (HDMI sub)			
USB Memory		Updating Software Import: Setting Address Book / Profile / Structural Data / Encryption Data / Start-up Screen / Delivery Tree List Export: Address Book / Profiles / Structural Data / Encryption Data / Delivery Tree List			
Network Protocol		TCP/IPv4, TCP/IPv6*7, UDP/IPv4, UDP/IPv6*7, DHCP, DNS, HTTP, HTTPS, TELNET, NTP			
Network Functions		Packet resending (ARQ), Forward Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary Port Setting, NAT Compatibility, Encryption, IP Precedence/DiffServ Support			
External Control		Control via web browser/HTTP CGI, TELNET, RS-232C			
Connection Modes		IP mode, NAT Traversal Service, IP/NAT Traversal Service			
Dimensions(width x depth x height) (Unit: mm) *Excluding projecting parts		T.B.D.	Approx. 320 x 230 x 61		
Weight		T.B.D.	Approx. 2.0 kg		
Power Input		T.B.D.	AC 100-240 V,-1.4A, 50/60 Hz		
Power Consumption		T.B.D.	Max.: approx. 45 W, Standby: 0.6 W	Max.: approx. 43 W, Standby: 0.6 W	Max.: approx. 37 W, Standby: 0.6 W
DC Power Input		T.B.D.	DC 24 V, 2.5 A		
Operating Temperature		T.B.D.	0 °C to 40 °C		
Operating Humidity		T.B.D.	10 % to 90 % (non-condensing)		

* When connected to an other brand device or other brand MCU (Multi-point Control Unit), connection conditions vary depending on the specifications of the other brand device or other brand MCU.

*1 KX-VC1000 is necessary an optional license to use.*2 Varies due to the settings of the HDVC System and the network condition. *3 HDCP is not supported. *4 KX-VC1000 is necessary an optional license to use HDMI2. *5 Dedicated 3-pole stereo mini-plug. *6 Audio cannot be output simultaneously to HDMI1/HDMI2. *7 Some functions are not supported by IPv6.

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