Panasonic
BUSINESS

HD Visual Communications System
KX-VC2000/ KX-VC1600/ KX-VC1300/ KX-VC1000
New Product Introduction

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 Omnidirectional Microphone,
HDMI cable sold separately.

Max. 24 sites

KX-VC2000 NEW

- Full HD 1080p image quality
- Expandable up to 24 sites connection with an activation key (sold separately)

Max. 10 sites

KX-VC1600

- Full HD 1080p image quality
- Expandable up to 10 sites connection with an activation key (sold separately)

Built-in 4 sites

KX-VC1300

- Full HD 1080p image quality

Point to Point

KX-VC1000 NEW

- Full HD 1080p image quality
- Expandable up to 4 sites connection with an activation key (sold separately)
  (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 Omnidirectional Microphone

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 network 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™. Packet losses for the HDVC System and HDVC Mobile are 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* supports Dual Monitors only.

*An activation key must be purchased.

Interoperability with other manufacturers' videoconference units

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

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

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 24 Mbps	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			
		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*1 Supported output resolutions: 1920 x 1080i, 1920 x 1080p	
	Audio Input		Boundary Omnidirectional Microphone (Digital Interface Type) x 1 (KX-VCA001) Max. 4, Boundary Omnidirectional Microphone (Analogue Interface Type) x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*4 x 1 (ø3.5 mm) RCA (Stereo) x 1			Boundary Omnidirectional Microphone (Analogue Interface Type) x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug*4 x 1 (ø3.5 mm), RCA (Stereo) x 1
	Audio Output		HDMI*5, Stereo mini-plug*4 x 1 (ø3.5 mm), RCA x 1 (Stereo)			
	Network		RJ45 x 2 (1000BASE-T/100BASE-TX Full Duplex)	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*6 (Max.) /16 (Default)	10*6 (Max.) /6 (Default)	4 (Default)	Point to point (Expandable to 4*6)
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			Approx. 320 x 270 x 61	Approx. 320 x 230 x 61		
Weight			Approx. 3.4 kg	Approx. 2.0 kg		
Power Input			AC 100-240 V, -1.0 A, 50/60 Hz	AC 100-240 V,-1.4A, 50/60 Hz		
Power Consumption			Max.: approx. 73 W, Standby: 0.6 W	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			DC 24 V, 3.0 A	DC 24 V, 2.5 A		
Operating Temperature			0 °C to 40 °C			
Operating Humidity			10 % to 90 % (non-condensing)			

*When connected to a different brand's device or MCU (Multi-point Control Unit), connection conditions vary depending on the specifications of their devices or MCUs.

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

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HD Visual Communications System:
http://panasonic.net/psn/products/hdvc/

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