Panasonic

BUSINESS

HD Visual Communications System
KX-VC1600
KX-VC1300
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.

Enhanced Model

NEW **KX-VC1600**

Built-in 6 sites MCU
Full HD 1080p image quality
Expandable up to 10 sites connection with optional license
(HD Communication Camera, Boundary Microphone, HDMI cable sold separately.)
*Optionally expandable for up to 10-site connection

Basic Model

NEW **KX-VC1300**

Built-in 4 sites MCU
Full HD 1080p image quality
(HD Communication Camera, Boundary Microphone, HDMI cable sold separately.)

NEW **HDVC Mobile**
(HDVC Application)

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

Built-in Multi-Point connection : up to 10 sites

Our HDVC by itself can support maximum 10 sites multi-point connection. KX-VC1600 supports 10 sites multi-point connection with optional license. KX-VC1300 supports 4 sites multi-point connection only.

Dual Network Connection for company internal and external network

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

Multi-Device Capability

Our HDVC supports Multi-Device of Windows/iOS/Android. This Multi-Device capability provides you of anytime anywhere communication.

Multi Monitor Capability

Our HDVC supports multi-monitors to show PC contents, and other party camera image. The KX-VC1600 supports even third monitor to show own site image. Only KX-VC1600 supports Triple monitors. The KX-VC1300 supports Dual monitors only.

Improved Interoperability with other manufacturers videoconference units

Our HDVC now 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 stem less expensive migration.

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.)

Connecting with operating rooms

3MOS 4K Ultra HD Camera
GP-UH532

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 doctors in locations other than the operating room.

Specifications

KX-VC1600/ KX-VC1300

Main Unit			KX-VC1600	KX-VC1300
Terminal Method			SIP, H.323	
Image 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
	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[*1]		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[*2]	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[*2] 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 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[*3] (x 1(ø3.5 mm) RCA (Stereo) x 1	
	Audio Output		HDMI[*4], Stereo mini-plug[*3] 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			6 (Expandable to 10)	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[*5], UDP/IPv4, UDP/IPv6[*5], 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, TELENET, RS-232C	
Connection Modes			IP mode, NAT Traversal Service, IP/NAT Traversal Service	
Dimensions (width x depth x height)			Approx. 320 mm x approx. 230 mm x approx. 61 mm (excluding projecting parts)	
Weight			Approx. 2.0 kg	
Power Input			AC 100-240 V,-1.4A, 50/60 Hz	
Power Consumption			Maximum: approx. 45 W, Standby: 0.6 W	Maximum: approx. 43 W, Standby: 0.6 W
DC Power Input			DC 24 V, 2.5 A	
Operating Temperature			0 °C to 40 °C	
Operating Humidity			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 Varies due to the settings of the HDVC System and the network condition. *2 HDCP is not supported.*3 Dedicated 3-pole stereo mini-plug.
*4 Audio cannot be output simultaneously to HDMI1/HDMI2. *5 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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