Panasonic CONNECT

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 at a distance.

* HD Visual Communications System is abbreviated as HDVC hereafter.

HDVC Main Unit

KX-VC2000
Max. **24** sites *1
- Full HD 1080p image quality
- Dual Network
- Multi-Device

KX-VC1600
Max. **10** sites *1
- Full HD 1080p image quality
- Dual Network
- Multi-Device

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

KX-VC1000
Point to Point
- Full HD 1080p image quality
- Multi-Device
- Expandable up to 4 sites connection *1

HDVC Mobile *1
(HDVC Application)

(Windows/iOS/Android™)

Optional Accessories
Sold separately

HD Communication Cameras

KX-VD170
- 12x Optical zoom
- 10x Digital zoom
- 72.5° Horizontal angle of view

*2

GP-VD131
- 3x Optical zoom
- 4x Digital zoom
- 100° Horizontal angle of view

Omnidirectional Boundary Microphone

KX-VCA001   KX-VCA002

Up to 24 sites Multi-Point Connection *1

HDVC's line-up can cover point to point connections and can connect up to 24 sites. It is available for flexible system configurations to meet customers' needs.

Dual Network Connection for company internal and external network

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

USB Memory Recording

HDVC enables you to record video image and sound of local and remote sites to USB memory without any expensive equipment. Instead, the PC can be used as a playback machine.

Web Conference Support Tools *3 **NEW**

USB Device mode enables the use of HDVC's camera, microphone, and monitor as Web conference PC peripherals. Web Hybrid mode allows users to bridge HDVC conference and Web conference together.

Interoperability with other manufacturer's videoconference units

HDVC supports conventional protocol of H.261/H.263/H.264AVC as well as H.239(H.323) / BFCP (SIP) dual stream which provides a less expensive step-by-step migration method.

Improved Web Console for remote maintenance and control

Web Console makes it easier and more efficient to control HDVC remotely from a web browser. This might be ideal for operations in large conferences / halls.

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*1 Activation keys are required. *2 Ceiling bracket KX-VCZ170 is required for ceiling mount. *3 Optional kit is required. (KX-VCZ501 for USB Device mode, KX-VCZ502 for Web Hybrid mode)

Specifications

Main Unit			KX-VC2000	KX-VC1600	KX-VC1300	KX-VC1000
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		Omnidirectional Boundary Microphone (Digital Interface Type) x 1 (KX-VCA001) Max. 4, Omnidirectional Boundary Microphone (Analogue Interface Type) x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug[*4] x 1 (ø3.5 mm), RCA (Stereo) x 1			Omnidirectional Boundary 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])
Unauthorized Incoming Call Security			Identification Number / Terminal Verification (HDVC, HDVC Mobile) / Whitelist			
Content Sharing			PC (RGB/HDMI), Sub video camera (HDMI sub)			
USB Host Mode (USB Memory)			Updating Software Import: Contact List / Profile[*7] / Configuration Data / Encryption Data / Startup screen / Multicast Tree List Export: Contact List / Profile[*7] / Configuration Data / Encryption Data / Multicast Tree List Recording (Audio and Video)			
USB Device Mode (PC Peripheral)[*8]			USB Audio Class 1.0 / USB Video Class 1.0			
WEB Hybrid Mode[*8]			USB Audio Class 1.0			
Network Protocol			TCP/IPv4, TCP/IPv6[*9], UDP/IPv4, UDP/IPv6[*9], DHCP, DNS, HTTP, HTTPS, TELNET, SNMP, 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 is required. *7 Available for KX-VC1000 after KX-VCS314 expansion has been enabled.
*8 Optional kit is required. *9 Some functions are not supported by IPv6.
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