



## 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



Max.  
**24**  
sites  
\*1

#### KX-VC2000

- Full HD 1080p image quality
- Dual Network
- Multi-Device

Max.  
**10**  
sites  
\*1

#### KX-VC1600

- Full HD 1080p image quality
- Dual Network
- Multi-Device

#### HDVC Mobile\*1 (HDVC Application)

(Windows/iOS/Android™)



Built-in  
**4**  
sites

#### KX-VC1300

- Full HD 1080p image quality
- Multi-Device

Point  
to  
Point

#### KX-VC1000

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

#### 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 **NEW**

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.

#### PC Peripheral Option for Skype for Business\*3 **NEW**

HDVC enables you to use HDVC's high quality microphone and camera as PC peripherals, and as a microphone and camera for Skype calls.

#### 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.

#### Optional Accessories

Sold separately

#### HD Communication Cameras

##### KX-VD170 **NEW**

- 12x Optical zoom
- 10x Digital zoom
- 72.5° Horizontal angle of view (optical zoom)



##### GP-VD151

- 12x Optical zoom
- 10x Digital zoom
- 56.3° Horizontal angle of view (optical zoom)



##### GP-VD131

- 3x Optical zoom
- 4x Digital zoom
- 85° Horizontal angle of view (optical zoom)



#### Boundary Omnidirectional Microphone



KX-VCA001



KX-VCA002

# 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 $\mu$ -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 <sup>1</sup>	
	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 <sup>2</sup>	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 <sup>3</sup>	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 <sup>3</sup> 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 <sup>1</sup> 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 <sup>4</sup> x 1 ( $\phi$ 3.5 mm), RCA (Stereo) x 1			Boundary Omnidirectional Microphone (Analogue Interface Type) x 1 (KX-VCA002) Max. 1, HDMI, Stereo mini-plug <sup>4</sup> x 1 ( $\phi$ 3.5 mm), RCA (Stereo) x 1
Audio Output		HDMI <sup>5</sup> , Stereo mini-plug <sup>4</sup> x 1 ( $\phi$ 3.5 mm), RCA x 1 (Stereo)			
Network		RJ45 x 2 (100BASE-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 <sup>6</sup> (Max.) / 16 (Default)	10 <sup>6</sup> (Max.) / 6 (Default)	4 (Default)	Point to point (Expandable to 4 <sup>6</sup> )
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 <sup>7</sup> / Configuration Data / Encryption Data / Startup screen / Multicast Tree List Export: Contact List / Profile <sup>7</sup> / Configuration Data / Encryption Data / Multicast Tree List Recording (Audio and Video)			
USB Device Mode (PC Peripheral) <sup>8</sup>		USB Audio Class 1.0 / USB Video Class 1.0			
Network Protocol		TCP/IPv4, TCP/IPv6 <sup>9</sup> , UDP/IPv4, UDP/IPv6 <sup>9</sup> , 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 Available for KX-VC1000 after KX-VCS314 expansion has been enabled. \*8 PC Peripheral kit must be purchased. \*9 Some functions are not supported by IPv6.

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