



**Affordable multi-point HD Video conferencing system connecting up to 10 sites Dual Network Multi Device Triple Monitor**

## **KX-VC1600**

The KX-VC1600 HDVC System can connect up to 10 sites without requiring network equipment. It can connect via intranet/VPN or Internet, thus enabling multi-site videoconferencing with a client or with people in distant locations via mobile devices. The HDVC System incorporates Panasonic's high-quality image and sound technologies cultivated in the development of various AV products over the years.

### **Key Features**

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Multi-site videoconference with up to 10 locations

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Dual Network. Connect via intranet/VPN and Internet simultaneously, inside and outside your company.

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Multiple devices supported (PC, Android and iOS) and compatible with other video conference systems

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Smooth 2-way conversation with Broadband Stereo Full Duplex Audio and unique Echo Canceller technology

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Clear communication signal with high quality video Full-HD 1080/60p

<b>Communication Protocol</b>	SIP, H.323
<b>Video Compression Method</b>	H.261 (mainstream only), H.263, H263+, H.263++ (reception only), H.264 High Profile, H.264 Baseline Profile
<b>Audio Compression Method</b>	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
<b>Remote Camera Control</b>	H.224, H.281 (Zoom/Pan/Tilt/Presets)
<b>Dual Stream (Method)</b>	H.239 (H.323), BFCP (SIP)
<b>Dual Stream (No. of Displays)</b>	2 displays
<b>Dual Stream(Supported Resolution and Frame Rate)</b>	Main: Maximum 1080p 30 frames/sec. Sub: 1080p 30 frames/sec.
<b>Encryption</b>	SRTP (AES 128-bit), H.235 (AES 128-bit)
<b>Other</b>	H.460.18, H.460.19
<b>Communication Bandwidth</b>	256 kbps - 18 Mbps
<b>Video Compatible Resolution</b>	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
<b>Video Frame Rate</b>	Maximum 60 frames/sec. (When using H.264 1080p)
<b>Video Screen Display</b>	Full screen, Picture in Picture, Picture with Picture, Side by Side
<b>Audio</b>	Echo Canceller, Auto Gain Control, Stationary Noise Reduction, Lip Sync, Equalizer, Mic Mute
<b>Input/Output Terminals (Video Input Camera)</b>	HDMI Main x 1, HDMI Sub x 1 Input Resolution: 1280 x 720p, 1920 x 1080i, 1920 x 1080p
<b>Input/Output Terminals (Video Input PC)</b>	RGB x 1 (Mini D-sub 15pin), HDMI x 1 *2 Input Resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full HD *2:HDCP is not supported.
<b>Input/Output Terminals (Video Output)</b>	HDMI x 2 Supported output resolutions: 1920 x 1080i, 1920 x 1080p RCA x 1 (Component) HDMI x 1 (For own site/recording video)
<b>Input/Output Terminals (Audio Input)</b>	Boundary Microphone (Digital Interface Type) x 1 (KX-VCA001) (Up to 4) Boundary Microphone (Analogue Interface Type) x 1 (KX-VCA002) (Up to 1) Stereo mini-plug *3 x 1 ( $\varnothing$ 3.5 mm) RCA x 1 (Stereo) *3:For 3-conductor stereo mini-plugs only.
<b>Input/Output Terminals (Audio Outputs)</b>	HDMI *4 Stereo mini-plug *3 x 1 ( $\varnothing$ 3.5 mm) RCA x 1 (Stereo) *3:For 3-conductor stereo mini-plugs only. *4:Simultaneous voice audio output for HDMI1/HDMI2 is not supported.
<b>Input/Output Terminals (Network)</b>	RJ45 x 2 (100BASE-TX Full Duplex)
<b>Input/Output Terminals (External Controller)</b>	RS-232C x 1 (Also used for maintenance)
<b>Input/Output Terminals (Other)</b>	USB 2.0 x 1, Camera Control terminal x 1 (Not used)
<b>No. of Simultaneous Connections</b>	6 (Expandable to 10)
<b>Contents Sharing</b>	PC (RGB/HDMI), Sub video camera (HDMI Sub)
<b>USB Memory Device</b>	Updating Software Import: Contact List/Profile *5 /Configuration Data/Encryption Data/ Startup screen/Multicast Tree List Export: Contact List/Profile *5 /Configuration Data/Encryption Data/ Multicast Tree List
<b>Network Protocol</b>	TCP/IPV4, TCP/IPV6 *6, UDP/IPV4, UDP/IPV6 *6, DHCP, DNS, HTTP, HTTPS, TELNET, NTP *6 Some features are not supported when using IPV6.
<b>Network Functions</b>	Packet resending (ARQ), Forward Error Correction (FEC), Adaptive Rate Control (ARC), Reorder, Packet Shaping, Arbitrary port setting, NAT support, encryption, IP Precedence/DiffServ support
<b>External Control</b>	Control via web browser/HTTP CGI, TELNET, RS-232C

<b>Connection Mode</b>	IP mode, NAT Traversal mode, IP / NAT Traversal Mode
<b>Dimensions (W x D x H)</b>	Approx. 320 mm x approx. 230 mm x approx. 61 mm (excluding projecting parts) (approx. 12 in x approx. 9 in x approx. 2.4 in)
<b>Weight</b>	Approx. 2.0 kg (approx. 4.4 lb)
<b>Power Input</b>	AC 100 – 240 V, 50/60 Hz up to 1.4 A
<b>Power Consumption</b>	Maximum: 45 W, In standby: 0.6 W
<b>DC Power Input</b>	DC 24 V, 2.5 A
<b>Operating Temperature</b>	0 °C – 40 °C (32 °F – 104 °F)
<b>Operating Humidity</b>	10 %–90 % (non-condensing)