



**Advanced multi-point HD Video conferencing system, expandable up to a 24-Site Connection. Standard system comes with 16 site connection, this can be expanded to 24 sites with a licence Dual Network Multi Device Triple Monitor**

## **KX-VC2000**

Panasonic KX-VC2000 HD Visual Communication System allows efficient communication and information sharing between up to 24 sites with minimum initial setting costs. The HDVC System incorporates Panasonic's high-quality image and sound technologies.

### **Key Features**

Multi-site videoconference with up to 24 locations.

Easy operation and management: Dual Streaming and triple Monitor support at the hosting site, Optimum screen layout between all participants and presenter's screens, Remote Camera Control.

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

AV-QoS Technology H.264 high-profile codec for high image compression efficiency

Expandability with the purchase of HDVC activation keys and optional accessories ● ALM Multicast (one-way transmission) ● Add 4 sites Connection ● Mobile Control License ● NAT Traversal Cloud Service. Link up signals from Android, iOS and Windows PC ● Peripheral devices: Microphones, cameras.

# KX-VC2000

<https://ap.connect.panasonic.com/p/h/en/products/hdvc/kx-vc2000>

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|---|---|
| <b>Communication Protocol</b>                           | SIP, H.323  |
| <b>Video Compression Method</b>                         | H.261 (Main Stream only), H.263, H.263+, 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: 1MPEG-4 AAC-LD Mono: 1/MPEG-4 AAC-LD Stereo: 2   |
| <b>Remote Camera Contlor</b>                            | H.224, H.281 (Zoom/Pan/Tilt/Preset)   |
| <b>Dual Stream (Method)</b>                             | H.239 (H.323), BFCP (SIP)   |
| <b>Dual Stream (No. of Displays)</b>                    | 3 displays  |
| <b>Dual Stream(Supported Resolution and Frame Rate)</b> | Main: Maximum 1080p 30 frames/sec.<br>Sub: 1080p 30 frames/sec.   |
| <b>Encryption</b>                                       | SRTP (AES 128-bit), H.235 (AES 128-bit)   |
| <b>Other</b>  | H.460   |
| <b>Communication Bandwidth</b>                          | 256 kbps-24 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<br>1024 x 768p, 1280 x 720p, 1280 x 768p, 1280 x 800p, 1920 x 1080p<br>*1 Varies according to device settings and the status of the network.   |
| <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 $\times$ 1, HDMI Sub $\times$ 1<br>Input Resolution: 1280 $\times$ 720p, 1920 $\times$ 1080i, 1920 $\times$ 1080p   |
| <b>Input/Output Terminals (Video Input PC)</b>          | RGB $\times$ 1 (Mini D-sub 15pin), HDMI $\times$ 1*2<br>Input Resolution: VGA, SVGA, XGA, HD, WXGA, SXGA, FWXGA, WXGA+, WXGA++, UXGA, WSXGA+, Full HD<br>*2 HDCP is not supported.  |
| <b>Input/Output Terminals (Video Output)</b>            | HDMI $\times$ 2<br>Supported output resolutions: 1920 $\times$ 1080i, 1920 $\times$ 1080p<br>RCA $\times$ 1 (Component)<br>HDMI $\times$ 1 (For own site/recording video)   |
| <b>Input/Output Terminals (Audio Input)</b>             | Boundary Microphone (Digital Interface Type) $\times$ 1 (KX-VCA001) (Up to 4)<br>Boundary Microphone (Analogue Interface Type) $\times$ 1 (KX-VCA002) (Up to 1)<br>Stereo mini-plug*3 $\times$ 1 ( $\phi$ 3.5 mm)<br>RCA $\times$ 1 (Stereo)<br>*3 For 3-conductor stereo mini-plugs only.                    |
| <b>Input/Output Terminals (Audio Outputs)</b>           | HDMI*4<br>Stereo mini-plug*3 $\times$ 1 ( $\phi$ 3.5 mm)<br>RCA $\times$ 1 (Stereo)<br>*3 For 3-conductor stereo mini-plugs only.<br>*4 Simultaneous voice audio output for HDMI1/HDMI2 is not supported.   |
| <b>Input/Output Terminals (Network)</b>                 | RJ45 $\times$ 2 (1000BASE-TX Full Duplex)   |
| <b>Input/Output Terminals (External Controller)</b>     | RS-232C $\times$ 1 (Also used for maintenance)  |
| <b>Input/Output Terminals (Other)</b>                   | USB 2.0*9 $\times$ 1 (Host Mode, Device Mode), Camera Control terminal $\times$ 1 (Not used)*9 Power supply capacity: 5 V/500 mA  |
| <b>No. of Simultaneous Connections</b>                  | 16 (Expandable to 24)   |
| <b>Contents Sharing</b>                                 | PC (RGB/HDMI), Sub video camera (HDMI Sub)  |
| <b>USB Host Mode (USB Memory Device)</b>                | Updating Software, Import (Contact List/Profile*10 /Configuration Data/Encryption Data/Startup screen/Multicast Tree List), Export (ContactList/Profile *10 /Configuration Data/Encryption Data/Multicast TreeList), Recording<br>*10 Available for the KX-VC1000 after KX-VCS314 expansion has been enabled. |
| <b>USB Device Mode</b>                                  | USB Video Class: Version 1.0<br>USB Audio Class: Version 1.0  |
| <b>Network Protocol</b>                                 | TCP/IPv4, TCP/IPv6 *11, UDP/IPv4, UDP/IPv6 *11, DHCP, DNS, HTTP,HTTPS, TELNET, NTP<br>*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   |

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| <b>Connection Mode</b>        | IP mode, NAT Traversal mode, IP / NAT Traversal Mode  |
| <b>Dimensions (W x H x D)</b> | Approx. 320 mm x approx. x 270 mm x approx. 61 m<br>(excluding projecting parts)<br>(approx. 12 in x approx. 10 in x approx. x2.4 in) |
| <b>Weight</b>                 | Approx. 3.4 kg (approx. 7.5 lb)   |
| <b>Power Input</b>            | AC 100-240 V, 50/60 Hz<br>up to 1.0 A   |
| <b>Power Consumption</b>      | Maximum: 73 W, Instand by: 0.6 W  |
| <b>DC Power Input</b>         | DC 24 V, 3.0 A  |
| <b>Operating Temperature</b>  | 0 °C - 40 °C (32 °F - 104 °F)   |
| <b>Operating Humidity</b>     | 10 % - 90 % (non - condensing)  |