

Specifications

Main Unit	KX-VC600	KX-VC300
Video	Video Codec	
	ITU-T H.264 high profile	
	ITU-T H.264 baseline profile (For connection to MCUs and non-Panasonic videoconference systems)	
	Compatible Resolutions	
Audio	Camera Input Resolution	
	1920 x 1080p ** / 1920 x 1080i ** / 1280 x 720p / 1280 x 540p / 960 x 540p / 704 x 480p / 352 x 240p	
	PC Input Resolutions	
	VGA, SVGA, XGA, HD, WXGA	
Transmission	Audio Codec	
	MPEG-4 AAC LD, G.722, G.722.1/G.722.1 AnnexC	
	No. of Channels	
	MPEG-4 AAC LD: 2 G.722, G.722.1, G.722.1 Annex C: 1	
External Interface	Bitrate	
	MPEG-4 AAC LD: 32 kbit/s (Monaural only), 64 kbit/s, 96 kbit/s (per channel) G.722: 64 kbit/s G.722.1: 32 kbit/s G.722.1 Annex C: 48 kbit/s	
	Sound Processing Function	
	Stereo Echo Canceller	
Maximum Conference Points	Microphone	
	Digital Boundary Microphone KX-VCA001(Option) Analogue Boundary Microphone KX-VCA002(Option)	
	Analogue Boundary Microphone port x 1, Digital Boundary Microphone port x 1, RCA (Stereo) x 1, Stereo mini-plug (Headset) x 1	
	Analogue Boundary Microphone port x 1, RCA (Stereo) x 1, Stereo mini-plug (Headset) x 1	
Dimensions (width x depth x height)	Communication Protocol	
	SIP, H.323	
	QoS	
	AV QoS Call Control (wired and wireless)	
Weight	Encrypted Transmission	
	AES	
	Video Inputs	
	HDMI (Camera) x 2, RGB (PC) x 1 (Switchable 3 inputs)	
Power Input	Video Output	
	HDMI x 1, RCA (Component) x 1	
	DC Power Input	
	DC 16 V, 2.5 A	
DC Power Input	Power Consumption	
	Maximum: approx. 39 W	
	Operating Temperature	
	0 °C to 40 °C	
Power Consumption	Operating Humidity	
	10 % to 90 % (non-condensing)	
	Network	
	RJ45 port x 1	

Options

Boundary Microphone	KX-VCA001	KX-VCA002
Maximum Pickup Range	Approx. 4 m(radius), 360°	Approx. 2 m(radius), 300°
Pickup Method	Stereo / Monaural **	Stereo / Monaural **
Microphone Unit	Unidirectional ECM microphone parts x 4	Unidirectional ECM microphone parts x 2
Number of Connections	Maximum 4 microphones	Maximum 1 microphone
Maximum Input Sound Pressure	110 dBspl	
Number of Terminals for Microphone Connection	2	1
Dimensions	Approx. 120 mm(diameter) x 25 mm	Approx. 75 mm(diameter) x 32 mm
Cable Length	Approx. 8.5 m	Approx. 7 m
Power Input	Supplied from main unit via proprietary cable	
Weight	Approx. 280 g	Approx. 80 g
Operating Temperature	0 °C to 40 °C	
Operating Humidity	10 % to 90 % (non-condensing)	

HD Communication Camera	GP-VD150	GP-VD130	AW-VC2
Effective Pixels	1920 x 1080		
Pan / Tilt	Pan: ±100°, Tilt: ±30°	Pan: ±100°, Tilt: ±20°	(Manual) Pan: ±180°, Tilt: ±20° (Electronic) Pan: ±23°, Tilt: ±14°**
Zoom (optical/digital)	12x / 10x	3x / 4x	No optical zoom / i.Zoom 2x**7, Digital zoom 4x
Horizontal Angle of View	Maximum 56°(Wide)	Maximum 85°(Wide)	Maximum 95°(Wide)
Presets	9 positions		
Connection Cable	HDMI		
Dimensions (width x depth x height)	Approx. 150 mm x approx. 148 mm x approx. 177 mm	Approx. 133 mm x approx. 127 mm x approx. 139 mm	Approx. 80 mm x approx. 138 mm x approx. 117 mm
Weight	Approx. 1.2 kg	Approx. 0.8 kg	Approx. 0.25 kg
Power Consumption	Power supply voltage: 12 VDC±10% (with AC adaptor attached) Consumption current: 1.0 A	Power supply voltage: 16 VDC±10% (with AC adaptor attached) Consumption current: 0.6 A	Power supply voltage: 5 VDC±10% (with AC adaptor attached) Consumption current: 0.8 A
Operating Temperature	0 °C to 40 °C		
Operating Humidity	10 % to 90 % (non-condensing)		

Extension Cable for the Digital Boundary Microphone	KX-VCAEX01
Dimensions (diameter x length)	7 mm(cable outer diameter) x 20 m
Weight	1.28 kg
Operating Temperature	0 °C to 40 °C
Operating Humidity	10 % to 90 % (non-condensing)

- *1 The optional Activation Key Card lets you upgrade the maximum resolution of the KX-VC300 system to 1080p/i.
 *2 Some restrictions apply when 3 or 4 locations are connected. For details, please consult with your local dealer.
 When connecting to non-Panasonic videoconference systems, connection is limited to 2 locations.
 *3 The KX-VC300 also allows connection of 3 or 4 locations when it is on the receiving end of a call.
 The optional Activation Key Card lets you expand the KX-VC300's maximum conference points to up to 4 locations.
 *4 If either of the following conditions is met, the output sent to the other party will be stereo; otherwise, monaural:
 • The bandwidth is higher than approximately 1.8 Mbps in a 2-party videoconference call with the HD Visual Communications Unit using SIP.
 • The MIC position is set manually to "Center stereo", or the MIC position is set automatically with a Digital Boundary Microphone connected to the unit and no Analogue Boundary Microphone connected to the unit at the same time.
 *5 If either of the following conditions is met, the output sent to the other party will be stereo; otherwise, monaural:
 • The bandwidth is higher than approximately 1.8 Mbps in a 2-party videoconference call with the HD Visual Communications Unit using SIP.
 • Digital Boundary Microphones and an Analogue Boundary Microphone are not being used together.
 *6 With i.Zoom 2x.
 *7 i.Zoom function maintains high-definition picture quality.

Trademarks and registered trademarks

- Android is a trademark of Google Inc.
- Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.
- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Important

- Safety Precaution: carefully read the operating instructions and installation manual before using this product.

- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.

DISTRIBUTED BY :

Panasonic

HD Visual Communications System: <http://panasonic.net/psn/products/hdvc/index.html>

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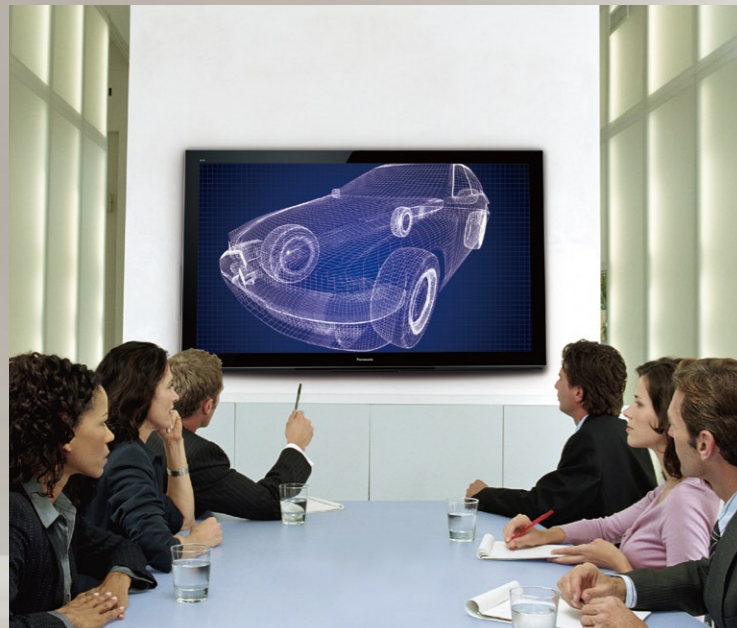


So Real, So Simple



Distance Is No Longer a Barrier

Our HD Visual Communications System makes it possible to communicate and collaborate with colleagues and industry experts wherever they happen to be.



Manufacturing

By connecting development, production and sales departments, and collaborating with true-to-life ambience from remote sites, you can reduce travelling times and costs while enhancing cooperation between your company and your partner companies.



Healthcare

Providing medical advice and training for young doctors in rural hospitals from specialists in city hospitals can be done very smoothly. By linking sub cameras and sharing PC screens, even highly technical exchanges, such as viewing X-rays, can be conducted with ease.



Education

Connecting classrooms, research labs, other departments and even other schools makes it easy to share knowledge. This lets you respond to demands for reducing the travelling time between campuses, solving the shortage of specialised instructors, and diversifying after-school lessons for elementary education.




And more...

The high-quality HD Visual Communications System enables zero-distance communication for operations at construction sites and financial institutions, music rehearsals, retail businesses, storage inventory management, public services, and various other business situations.

Select a Model to Suit Your Application and Scale

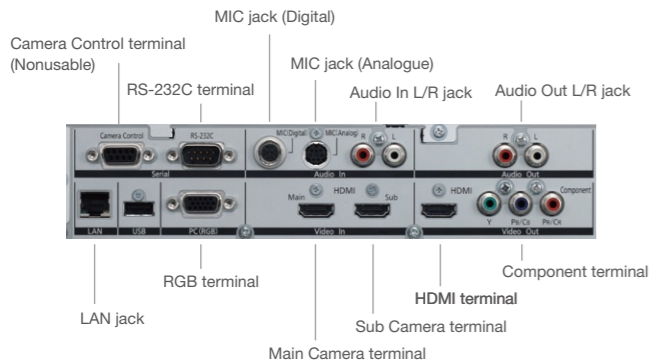
4-site Connection Compatible Model with Full-HD Image Quality




KX-VC600 (Remote control included. Boundary Microphone sold separately.)

- Up to 4 site connection
- Real time Full-HD 1080p/i video quality
- High quality audio and smooth 2-way stereo conversation
- Convenient sub-camera and PC connection for real-time collaboration
- Easy, user-friendly operation
- Stable connection with Panasonic's AV-QoS
- Wireless Communication
- NAT/FW Traversal

[Rear Panel View]



Entry Model with 2-Site Connection

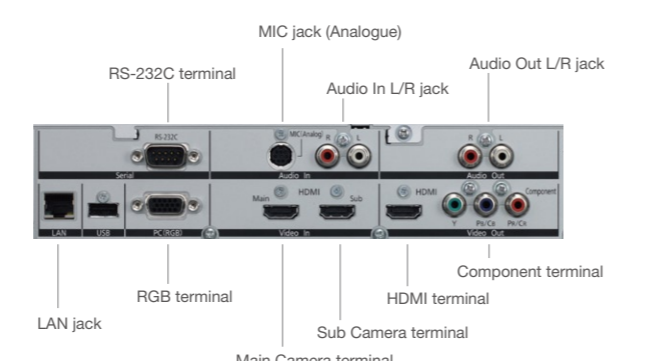


KX-VC300 (Remote control included. Boundary Microphone sold separately.)

- 2 site connection* (expandable up to 4 with option)
- Real time HD 720p video quality (expandable to 1080p/i with option)
- High quality audio and smooth 2-way stereo conversation
- Convenient sub-camera and PC connection for real-time collaboration
- Easy, user-friendly operation
- Stable connection with Panasonic's AV-QoS
- Wireless Communication
- NAT/FW Traversal

* The KX-VC300 also allows connection of 3 or 4 locations when it is on the receiving end of a call.

[Rear Panel View]



Function Comparison List

	Maximum Conference Points	Image Resolution	Other-brand Device Connection*1	MCU Interoperability*2	Computer Connection	Sub Camera Connection	Digital Boundary Microphone (KX-VCA001)	Analogue Boundary Microphone (KX-VCA002)
KX-VC600	4	Full HD 1080p/i	Yes	Yes	Yes	Yes	Yes (1-4 unit)	Yes (1 unit)
KX-VC300	2 ³	HD 720p ⁴	Yes	Yes	Yes	Yes	No	Yes (1 unit)

*1 Please ask your nearest dealer about other-brand devices that can be connected.
 *2 Please ask your nearest dealer about MCUs that can be connected.
 *3 The KX-VC300 also allows connection of 3 or 4 locations when it is on the receiving end of a call.
 The optional Activation Key Card lets you expand the KX-VC300's maximum conference points to up to 4 locations.
 *4 The optional Activation Key Card lets you upgrade the maximum resolution of the KX-VC300 system to 1080p/i.

Optional Accessories*

HD Communication Camera GP-VD150

A PTZ camera with 12x optical zoom for medium- to large-scale meeting rooms.



GP-VD130

A PTZ camera with wide-angle lens and compact body for medium-scale meeting rooms.



AW-VC2

A fixed(digital PTZ) camera with magnifier function and wide-angle lens for small-scale meeting rooms. Ceiling mounting is also possible.



Camera Security Adaptor KX-VCZ001

A theft prevention accessory for full-HD camcorder



Digital Boundary Microphone KX-VCA001

A high-grade microphone with a direction recognition function that detects the direction that voices are coming from.



Analogue Boundary Microphone KX-VCA002

A compact, economical and high-grade stereo microphone.

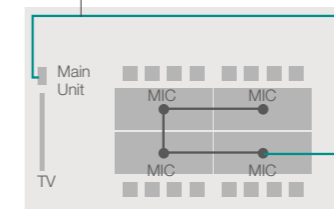


Extension Cable for the Digital Boundary Microphone KX-VCAEX01

This extension cable makes it possible to set up in places that cannot be reached by the cable that comes with the Digital Boundary Microphone.



Connect the main unit and first microphone.



Optional Software*

HDVC-MPCS (HDVC Multi-Point Connection Software)

HD Visual Communications Units can be increased to a maximum of 16 videoconference sites. Increases can be made from 8 to 12 sites, and from 12 to 16 sites.

• It is not possible to increase 6-site systems.



Related Products*

Full-HD Camcorder



Professional Video Camera



Full-HD Plasma/LCD Display



• HDMI cables are required for connection to the camera, TV, etc.

TV Stand Installation Examples



*Sold separately

Panasonic Technology Lets You Achieve Real Collaboration

High Image Quality

Full-HD* 1080p images are produced at an IP rate of approximately 1.5 Mbps. This makes visual communication with distant people as easy and comfortable as watching Full-HD programmes on TV. Even changes in the facial expressions of each person are distinctly relayed, and text from documents can be clearly read.

*The KX-VC300 displays 720p images.



SD
Conventional Videoconference Systems



Full HD
Even changes in the facial expressions, body language, hand gestures and fast movements of each person are smoothly reproduced.

Panasonic's Image Quality Technology

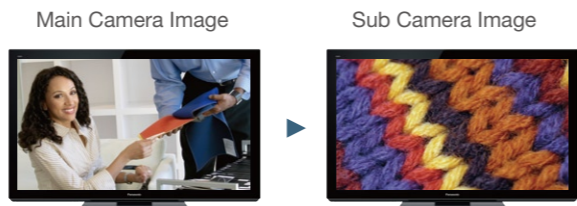
The Uniphier® system LSI, which is a digital home electronics platform, achieves realistic images that clearly portray the facial expressions and body language of each person.



* Uniphier® is a registered trademark of Panasonic Corporation.

Close-up Views with a Sub Camera

Use a sub camera to display close-up views of detailed parts that are difficult to see with the naked eye.



High Sound Quality

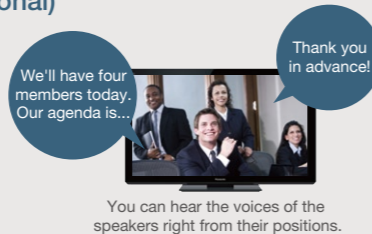
Full-duplex audio in broadband stereo allows high-quality sound to fill the room with clarity. A unique Echo Canceller prevents echoes and howling, and there are hardly any delays or interruptions even when two people speak at the same time. You enjoy smooth, natural conversations, just as if you were all in the same room.



There is hardly any interruption even when two people speak at the same time or when conversations overlap.

High-Performance Digital Boundary Microphone (Optional)

With four built-in microphones, the Digital Boundary Microphone features a direction recognition function that reflects the direction and position of the speaker's voice to the listener's side speakers.

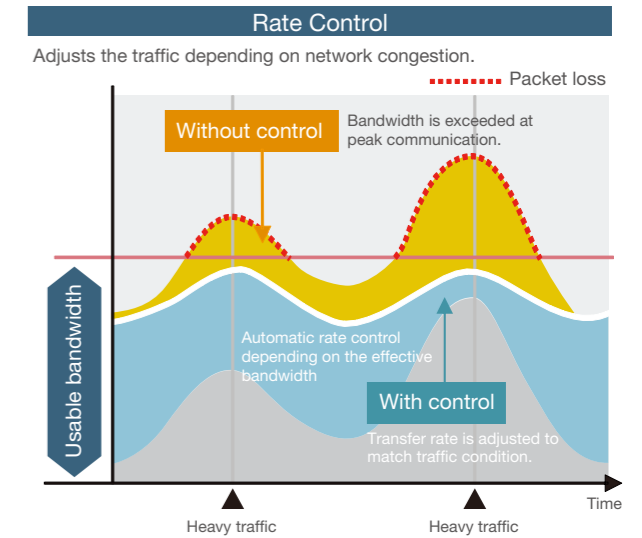
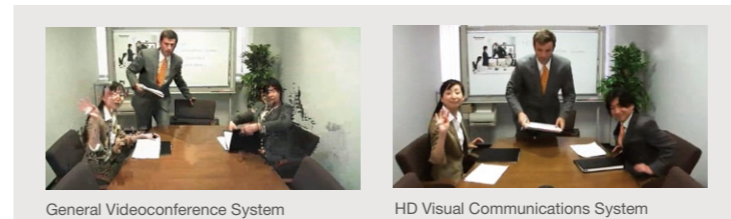


*The Digital Boundary Microphone is compatible with the KX-VC600.

Stable Connection

The generation of packet losses is prevented by a rate control function, and lost packets are restored by the combined use of Forward Error Correction (FEC) and Automatic Repeat reQuest (ARQ). Image disruptions and audio interruptions are suppressed for both intranet and Internet connections to ensure stable connection.

Comparison with a congested network connection.



Wireless Communication

Connection is possible with a wireless router (Wi-Fi®, WiMAX), so the HD Visual Communications Unit can be taken to wherever the user is. This also keeps the wiring at the videoconference site simple. Wireless support AV-QoS ensures a stable connection even during wireless connection. This expands the areas of use to include videoconferences in places other than meeting rooms like factories and showrooms that are not equipped with LAN cables.

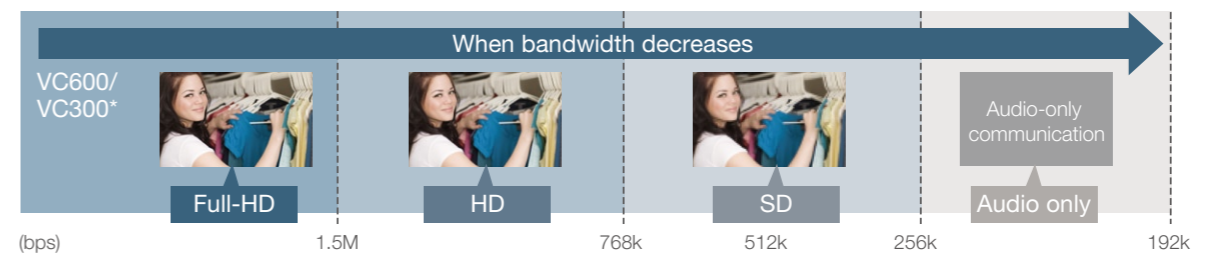
*Wi-Fi is a registered trademark of Wi-Fi Alliance®.



Low Bandwidth Communication Supported

The HD Visual Communications System enables communication at low bandwidths by adjusting to the network status. Video and audio communication at 256 kbps/site minimum, and audio-only communication at 192 kbps/site minimum are possible.*

* For 2-site communication. Actual communication varies depending on the network status and settings.

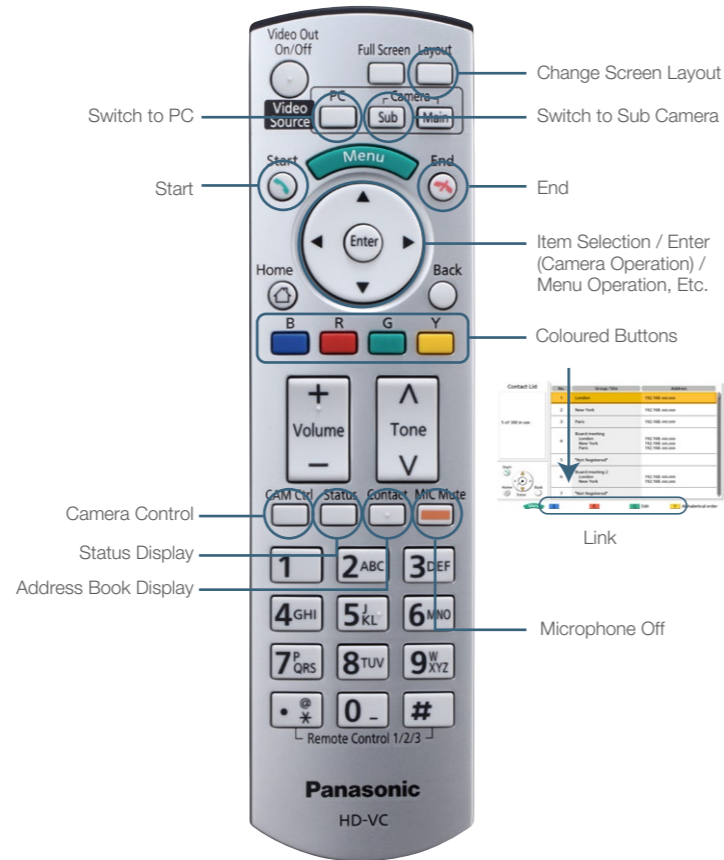
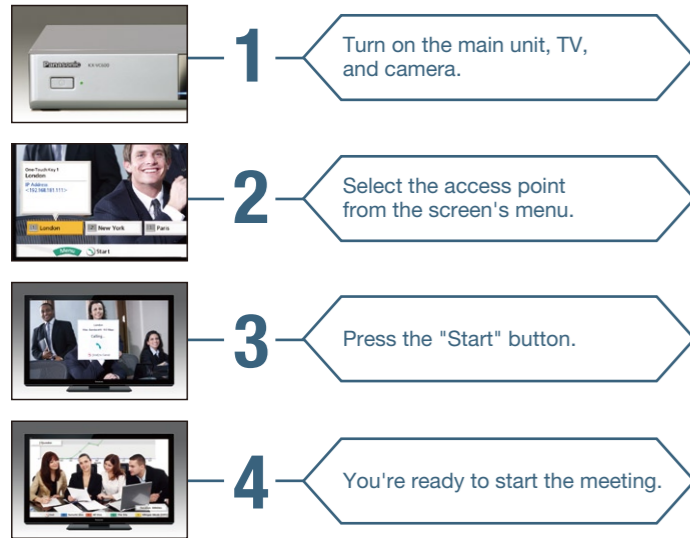


* The optional Activation Key Card lets you upgrade the maximum resolution of the KX-VC300 system to 1080p/i.

Panasonic Technology Lets You Achieve Real Collaboration

Easy Operation

Most operations can be handled using the remote control, so you can operate the system as if you were watching TV. Switching screen displays and switching between a PC and sub camera can be done easily with the click of a button. Large characters, buttons, easy-to-see displays, and colour combinations are designed for easy operation.



Commonly used functions can be easily operated by using allocated buttons.

Changeable Screen Layouts

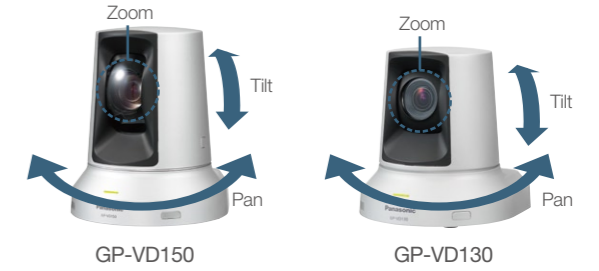
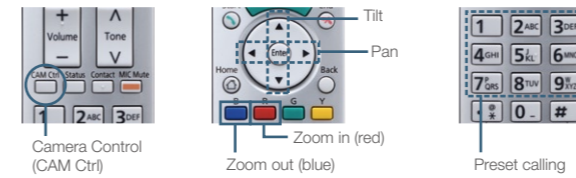
Even when 4 sites are connected, the screen layouts can be flexibly changed to enable smooth remote conferencing. Changing the screen layout is done with a one-touch button on the included remote control, so it is easy even for someone doing it the very first time.



Camera Control

When an HD Communication Camera is connected, the HD Visual Communications System remote can be used to control pan, tilt, zoom and preset recall* operations for both your camera and the camera at another party's site.

* Up to nine shooting positions and zoom sizes can be set and shifted by a single touch of the remote control during communication. Preset registration is possible only for your own site (and not during communication).



- The HD Visual Communications System used at all communicating sites must be Version 2.3 or later in order to enable camera control during communication.
- Ceiling mounting is not possible for the GP-VD150 / GP-VD130.

Magnifier Function

You can enlarge a selected part of the image and display it in any of the four screen corners. This improves the quality of communication by letting you see the facial expression of the person you are speaking with. (This function can be used only with the AW-VC2.)



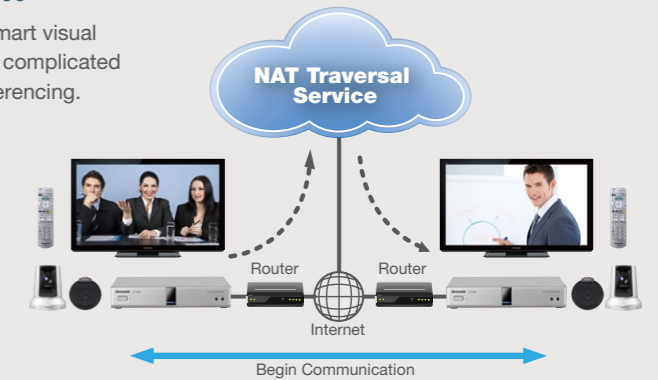
NAT Traversal Service - Easy to Connect Cloud Service

This is a cloud service that uses dedicated Panasonic servers. It provides smart visual communication without having to use ordinary leased lines, and without the complicated router settings that leased lines require. It's the easy way to start videoconferencing.

- No complicated router settings needed.
- Access a 7-digit terminal ID number with the same ease as dialling a phone number.
- Connect securely with encrypted communication, using the Internet.

* Actual use requires the separate purchase of the KX-VCS701 (for 1 year of use) or KX-VCS703 (for 3 years of use) Activation Key Card for the NAT Traversal Service.
 * Connection using this service is only possible between Panasonic HD Visual Communications Systems. Please ask your nearest dealer for details of this service.
 * Please use a router that has been approved by Panasonic for use with this service.
 * Availability varies depending on the country and region.
 * Legal regulations prevent the supply of this service to China.

For detailed information, please access the following URL. http://panasonic.net/psn/products/hdvc/nat_traversal/index.html



Plus+ HDVC Mobile

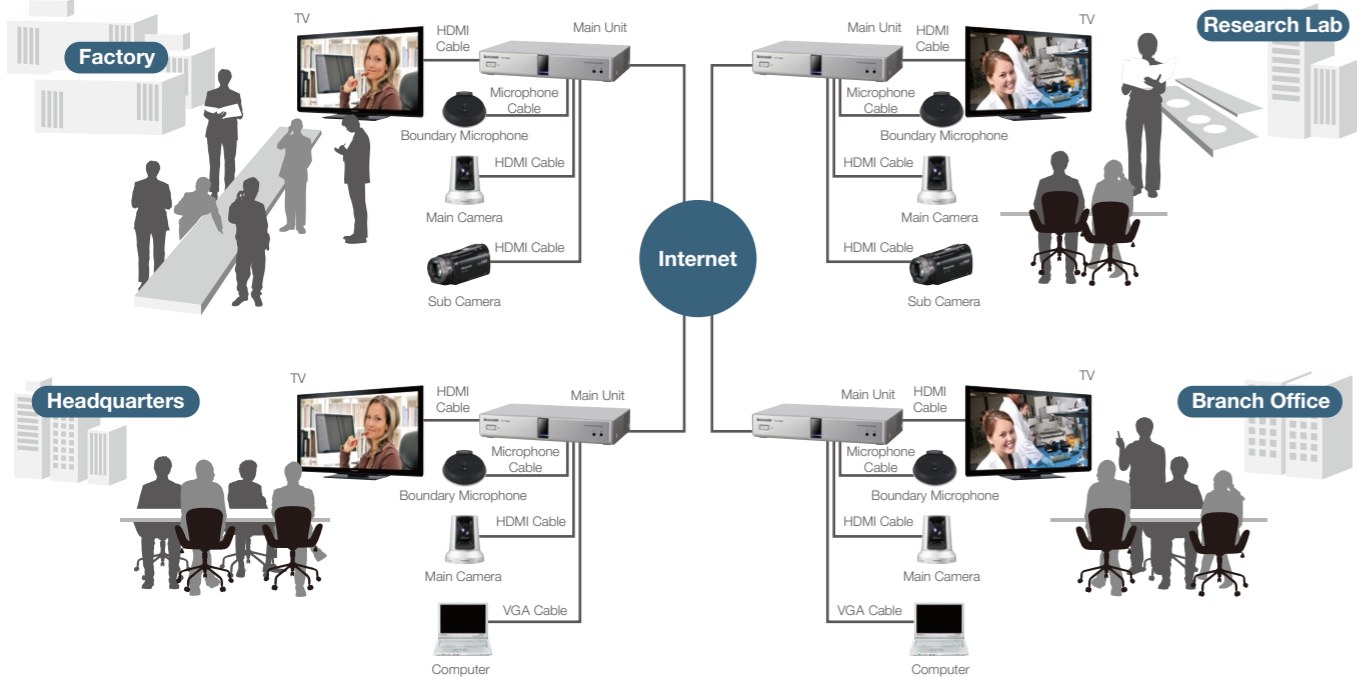
HDVC Mobile, an Android application, will connect an Android terminal to the HD Visual Communications System on a 1:1 basis over a Wi-Fi® network. This lets you participate in videoconferences from your office or on the go.

* Actual use requires the separate purchase of the KX-VCS751X (for 1 year of use) or KX-VCS753X (for 3 years of use) 5 Mobile Activation Keys for the HDVC Mobile.
 * Android is a registered trademark of Google Inc.
 * Wi-Fi is a registered trademark of Wi-Fi Alliance®.



System Configuration Example

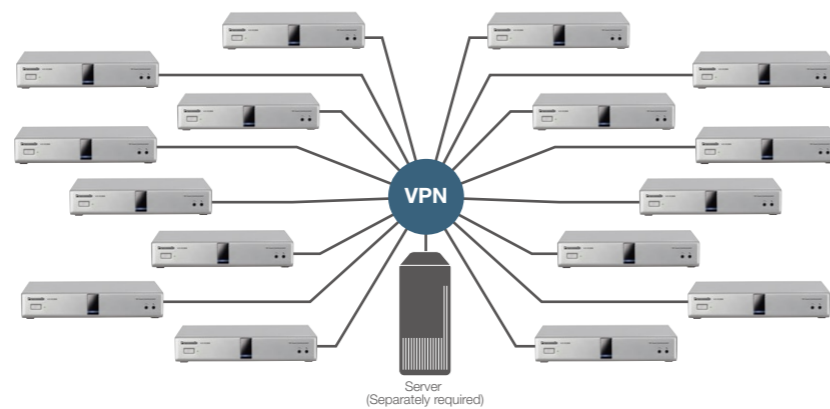
4-Site Connection This remote conference system lets you hold meetings to share detailed product checks and data.



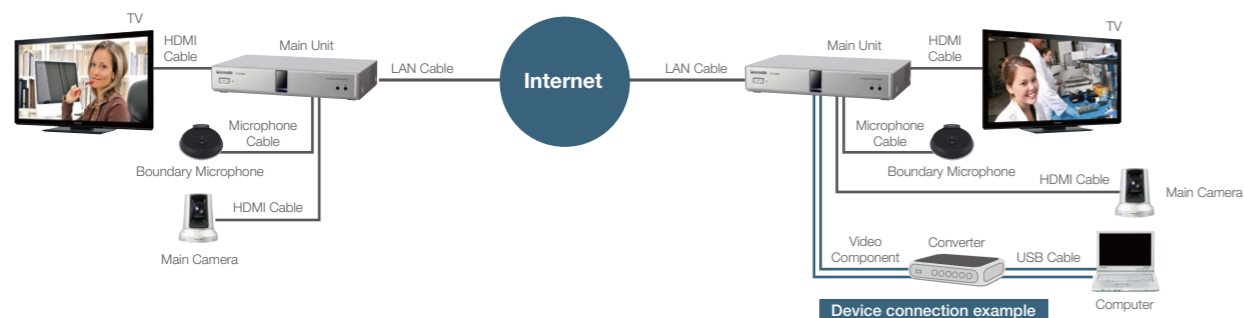
*The KX-VC300 allows connection of up to 4 locations when it is on the receiving end of a call with the KX-VC600 set as the base unit.

HDVC-MPCS Up to 16 site (HDVC Multi-Point Connection Software)

The connection of HD Visual Communications Units can be increased to a maximum of 16 videoconference sites.

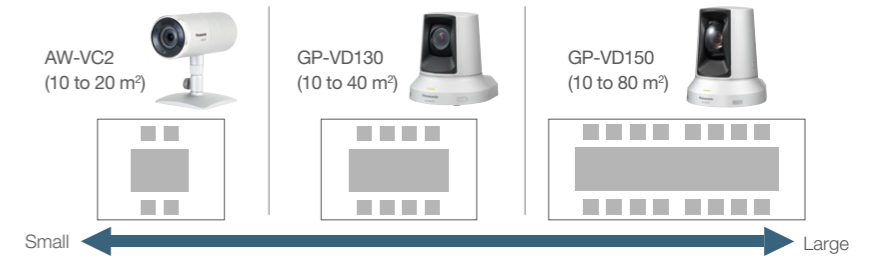


Recording Capability The images and sounds of the meeting can be recorded for later review.

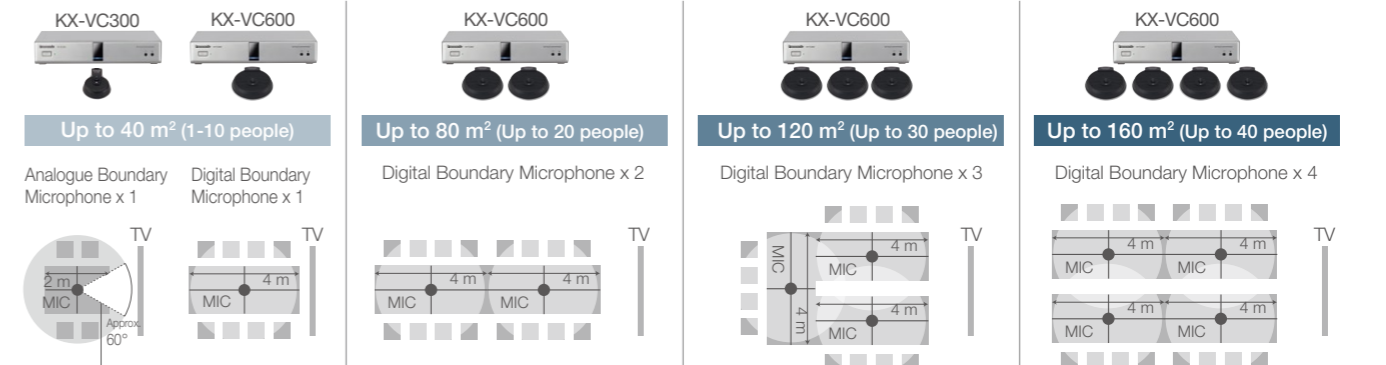


Recommended Room Size for HD Communication Cameras

Select the HD Communication Camera that matches the size of the room in which the HD Visual Communications Unit will be used.



Microphone and Pick-up Capacity You can configure flexible systems that match the number of connection locations and the sizes of the rooms.



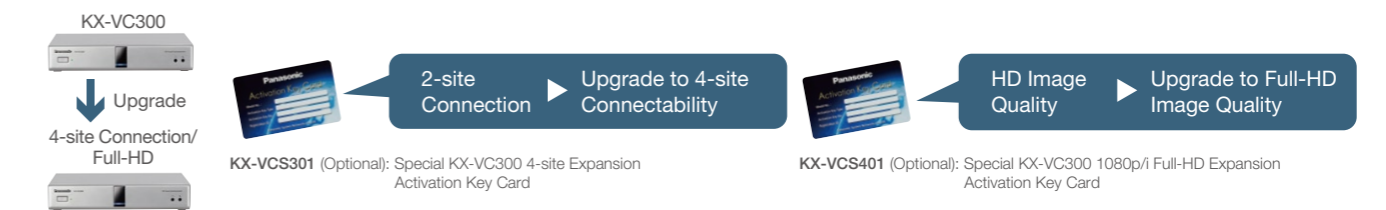
*The Analogue Boundary Microphone exceeds the sound-collecting range at an angle of about 60° on the connector side.

*This diagram is intended only as a layout example. It is not meant to show the maximum number of people that can be covered. *This is the pick-up capacity when using the Digital/Analogue Boundary Microphone. The capacity varies when using another microphone.

Function Expansion

Purchasing the optional Activation Key Card lets you flexibly expand functions based on your needs.

Applicable Model



Applicable Models

