



**Panasonic**  
ideas for life



**Taking your meetings to the next level is how we're engineering a better world.**



## REAL-TIME COLLABORATION IN STUNNING HD

A Panasonic HD Visual Communications System lets you simulate and reap the benefits of face-to-face interaction without the exorbitant costs and carbon footprint associated with business travel.

With HDVC you can closely inspect a CAD drawing of a newly milled machine part by your factory, observe delicate vascular surgery from across the country or train your global sales force—just as if you were physically present. You'll experience crystal-clear HD video combined with full-duplex sound that lets you capture the nuances of facial expression, tone of voice and body language—crucial towards developing a level of trust and rapport otherwise afforded only by a meeting in person.

## 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 color combinations are designed for easy operation.



**1** Turn on the main unit, TV, and camera



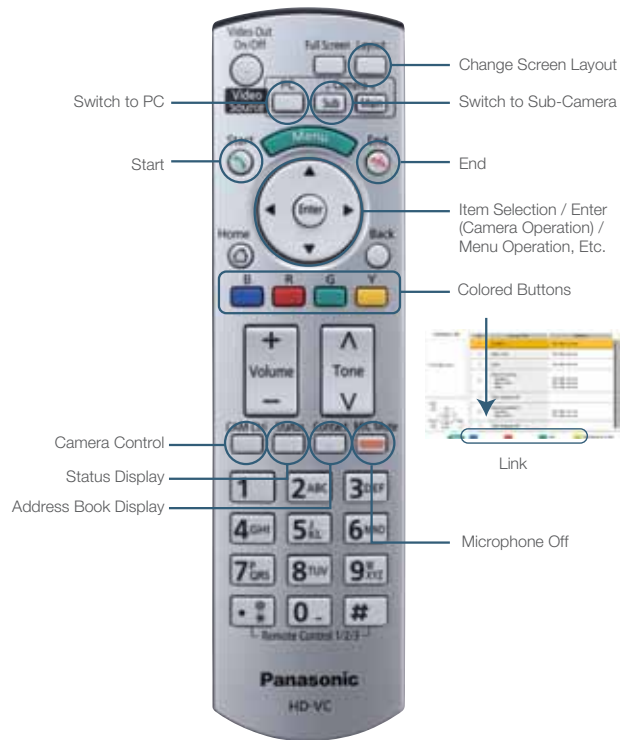
**2** Select the access point from the screen's menu



**3** Press the "Start" button



**4** You're ready to start the meeting



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

### 1080i Full HD Video

As a premier developer of HD video technologies, Panasonic delivers a dazzling level of realism that bridges oceans by seamlessly bringing your clients and associates together into the same room.

### 360° HD Audio

360° Full-Duplex Audio (KX-VCA001) combined with our Echo Canceller feature ensures clear voices and lets parties on both sides of the conference talk at once—just as you would in a face-to-face meeting.

### Stable Connection/Low Bandwidth Support

Our unique AV QoS technology helps prevent image and sound disruptions on both intranet and Internet connections with only 1.5Mbps required for Full HD (1080p) audio and video transmission.

## Wireless Communication

Connection is possible with a wireless router (Wi-Fi), so the HD Visual Communications unit can be taken to wherever the user is. This also keeps the wiring at the customer 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.



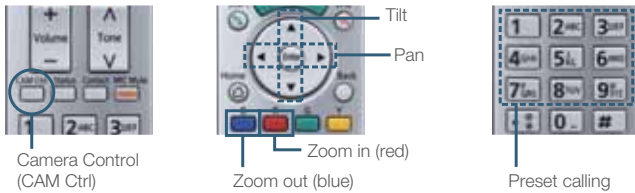
## Computer/Sub-Camera Connection

Connect a PC or sub-camera, and show the other party your computer screen or second camera images—perfect for adding slideshows, movies or other images to the meeting.

## 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.

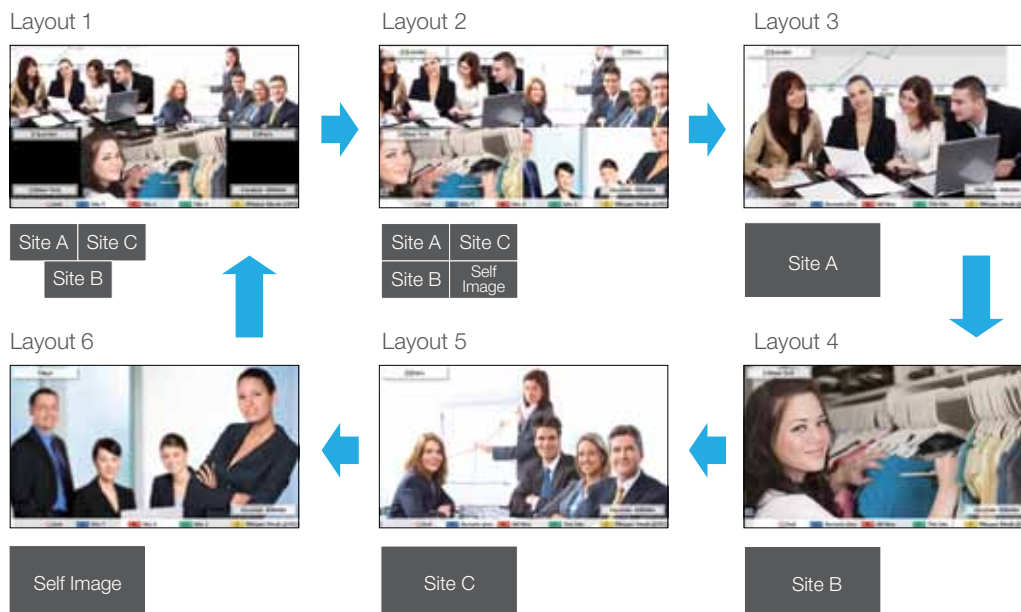
*\* Up to nine shooting positions and zoom sizes can be set and shifted by a single touch of the remote control during communication. Preset registration is possible only for your own site (and not during communication).*



- 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.

## Changeable Screen Layouts

Even when four 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.



## INDUSTRY APPLICATIONS



### Human Resources

Reign in recruitment costs while still reaping the benefits of crucial face-to-face interviews. HDVC delivers all the benefits of a meeting in person—facial expressions, body language, demeanor and other nuances are conveyed—but without the cost and time associated with travel. This not only allows the applicant pool to be widened, but also shortens the hiring timeline.



### Training

Corporate training sessions no longer have to entail flying in personnel from far-flung regional offices. Sales managers and other professionals can conduct detailed training sessions with satellite offices. New employee orientations can be conducted remotely without sacrificing the robust, personal interaction necessary for an effective meeting. Onerous travel expenses are rerouted to the bottom line while wasted travel time is eliminated.



### Education

Experts and prominent lecturers who would otherwise be unavailable due to time and travel constraints can now be brought into the “virtual classroom.” Students at satellite college campuses can attend lectures by top professors stationed at the main campus. Notes on a blackboard and other visual aids are seen clearly while crisp HD audio ensures no question goes unheard.



### Manufacturing

Engineers who would otherwise travel to factories to inspect machinery or collaborate on new product designs can now get a detailed look at blueprints or finely machined parts, demonstrate assembly methods or conduct quality control seminars without leaving the home office.



### Medical

Students can participate in interactive training sessions with experts a continent away. 360° Full-Duplex Audio means participants on both sides of the conference are clearly heard. Physicians can consult with one another in real time across continents and provide diagnostic assistance by getting a detailed look at x-rays, charts or patients themselves, saving time and money.

## SELECT A MODEL TO SUIT YOUR APPLICATION AND SCALE



### KX-VC600/KX-VC300

#### 4-site\* Connection Compatible Model with Full HD Image Quality

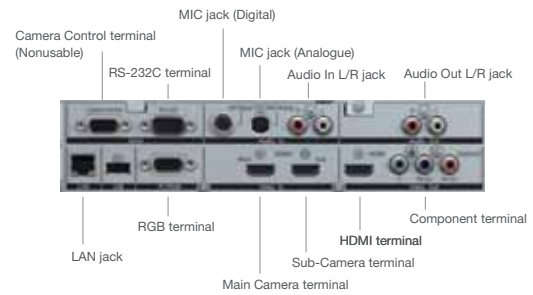
(Remote control included. Boundary Microphone sold separately.)

- 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

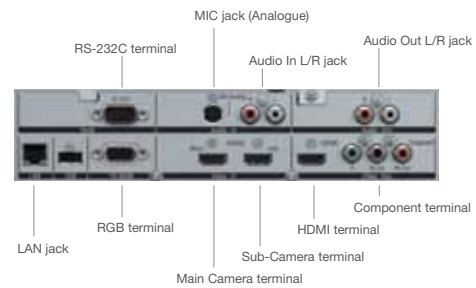
\*The KX-VC300 also allows connection of 3 or 4 locations when it is on the receiving end of a call.

### REAR PANEL VIEW

#### KX-VC600

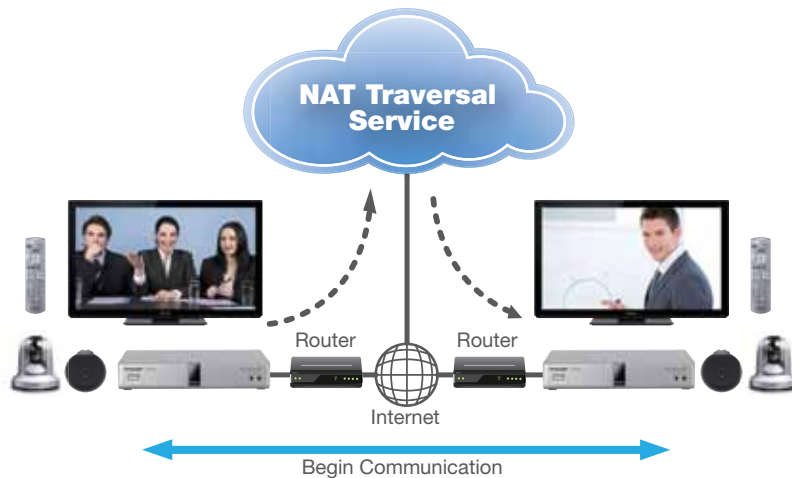


#### KX-VC300



## 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 get you started with videoconferencing.



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

\*\*Actual use requires the separate purchase of the KX-VCS701 (for one year of use) or KX-VCS703 (for three 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.



## 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	1920 x 1080p / 1920 x 1080i / 1280 x 720p / 1280 x 540p / 960 x 540p / 704 x 480p / 352 x 240p		
	Camera Input Resolution	1920 x 1080i		
	PC Input Resolutions	VGA, SVGA, XGA, HD, WXGA		
AUDIO	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		
	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	Stereo Echo Canceller		
	Microphone	Digital Boundary Microphone KX-VCA001 (Option) Analog Boundary Microphone KX-VCA002 (Option)	Analog Boundary Microphone KX-VCA002 (Option)	
TRANSMISSION	Communication Protocol	SIP, H.323		
	QoS	AV QoS Call Control (wired and wireless)		
	Encrypted Transmission	AES		
Maximum Conference Points		4 <sup>1</sup>	2 <sup>2</sup>	
EXTERNAL INTERFACE	Video Inputs	HDMI (Camera) x 2, RGB (PC) x 1 (Switchable 3 inputs)		
	Video Output	HDMI x 1, RCA (Component) x 1		
	Audio Input	Analog Boundary Microphone port x 1, Digital Boundary Microphone port x 1, RCA (Stereo) x 1, Stereo mini-plug (Headset) x 1	Analog Boundary Microphone port x 1, RCA (Stereo) x 1, Stereo mini-plug (Headset) x 1	
	Audio Output	(RCA Stereo) x 1 (Audio output to display is via HDMI), Stereo mini-plug (Headset) x 1		
	Network	RJ45 port x 1		
Dimensions (width x depth x height)		Approx. 12 in. x 9 in. x 2.4 in.		
Weight		Approx. 4.4 lb.		
Power Input		AC 100-240 V, 1.2-0.6 A, 50/60 Hz		
DC Power Input		DC 16 V, 2.5 A		
Power Consumption		Maximum: approx. 39 W	Maximum: approx. 23 W	
Operating Temperature		32°F to 104°C		
Operating Humidity		10% to 90% (non-condensing)		

## Options

BOUNDARY MICROPHONE	KX-VCA001	KX-VCA002
Maximum Pickup Range	Approx. 9.8 ft. (radius), 360°	Approx. 6.5 ft. (radius), 300°
Pickup Method	Stereo / Monaural <sup>3</sup>	Stereo / Monaural <sup>4</sup>
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. 4.7 in. (diameter) x 0.9 in.	Approx. 2.9 in. (diameter) x 1.25 in.
Cable Length	Approx. 28 ft.	Approx. 23 ft.
Power Input	Supplied from main unit via proprietary cable	
Weight	Approx. 0.6 lb.	Approx. 0.2 lb.
Operating Temperature	32°F to 104°F	
Operating Humidity	10% to 90% (non-condensing)	

HD COMMUNICATION CAMERA	GP-VD100
Effective Pixels	1920 x 1080
Pan / Tilt	Pan: ±100°, Tilt: ±30°
Zoom (optical / digital)	12x / 10x
Horizontal Angle of View	Maximum 56° (Horizontal)
Presets	9 Positions
Connection Cable	HDMI
Dimensions (width x depth x height)	Approx. 6.3 in. x approx. 6.53 in. x approx. 7 in.
Weight	Approx. 3.08 lb.
Power Consumption	Power supply voltage: 12 VDC±10% (with AC adapter attached) Consumption current: 1.0 A
Operating Temperature	32°F to 104°F
Operating Humidity	10% to 90% (non-condensing)

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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 Analog Boundary Microphone connected to the unit at the same time.

<sup>4</sup> 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 Analog Boundary Microphone are not being used together.

- 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.

### Important

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

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