IPv4/6 Audio 2-Way Type Indoor Network Camera

KX-HCM110







See There

When You Can't Be There™

Keep an Eye on Several Places at Once

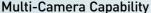
Ever worry about your shop or office when you're away? Then it's time you looked into a Panasonic Network Camera. This powerful system gives you an easy, economical way to monitor places from a remote location, using a PC or cell phone.*1 UPnP compatibility makes set-up easy too. And since you can actually see what's going on, you can grasp the situation more accurately and increase your work efficiency.

*1 Cell phone displays still images only.









Check the images from three sets of four cameras, and converse with one camera site.

Additionally, the camera can display a maximum of 12 cameras on a page in static image.







A Host of Functions to Meet a Range of Monitoring Needs



Panasonic Is the Total Monitoring Solution



PARKING LOTS

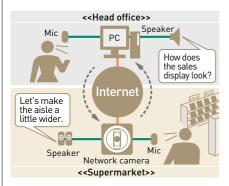


Give instructions as you watch.

Audio 2-Way Communication*2

You can talk to an employee about a product display or direct a worker through a difficult step in a project while watching on-screen. With both audio and video on your side, you can communicate smoothly, clearly and

*2 The audio feature does not work on cell phones. The talk button and listen button cannot be used simultaneously. Depending on traffic and the network environment, the audio may be delayed or may break up.



Store images and check them later. **Buffered Images**

The camera's internal memory can store up to 675 images*3. You can save images taken using the timer or alarm setting, and check them later to see who came and went, and at what time - information that can help you keep track of customer or employee activity.

*3 At 160 x 120 resolution and favor motion quality

Number of Buffered Images

Resolution	Favor Clarity	Standard	Favor Motion	
640 x 480 (pixels)	About 40	About 60	About 100	
320 x 240 (pixels)			About 250	
160 x 120 (pixels)			About 675	

Check even small details in a large area. Pan, Tilt and 10x Digital Zoom Functions*4

The camera can pan 120° horizontally and tilt 65° vertically. Using the network, you can monitor distant locations and cover a wider area than with conventional cameras. And using the 10x zoom – controlled by simple mouse operation - you can see images close up

*4 This feature is not available when vie

Pan and Tilt Movement





Zoom Function



Stay informed and monitor unusual movements.

Motion Detection Function & Image Transfer Mode

The Motion Detection function gives you a sure, efficient way to keep tabs on activity. When the camera detects movement, it shoots a still image, stores it temporarily in internal memory, and sends a copy to you by e-mail*5 or FTP transfer. You can set the camera to snap a shot whenever someone walks by. for example, or at preset times.

*5 When the e-mail function is used to transfer images or messages, e-mail transmission may not be possible in some cases due to the mail server authentication system [SMTP authentication, etc.] used by your Internet service provider.

See clearly even in dim lighting. Color Night View Mode*6

The camera automatically adjusts its brightness to the light level in the area being monitored. You can see images even in places illuminated by only the small auxiliary light of a fluorescent lamp*7. This lets you keep a careful watch over shadowy objects and in dimly lit places that are ordinarily difficult to monitor.



- *6 The image tends to blur more than that in standard mode when viewing a moving subject in low light or when using the pan or tilt function. When viewing a dark subject in color night view mode, spots of white or colored light may appear in the image.
- *7 Minimum brightness is 1 lux.

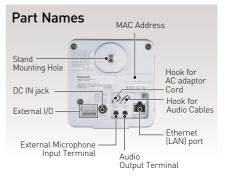
[OTHER FEATURES]

Dynamic DNS Service Support

You can monitor camera images from a remote location over the Internet, even without a static global IP address. Panasonic's free DDNS service also lets you select your own domain name*8 (for example, bob.viewnetcam.com). See www.viewnetcam.com for details.



*8 If another user has selected the name you would like, the name will be



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Specifications [KX-HCM110]							
Server		Audio*3		Terminal			
Video Compression	JPEG (3 Levels)	Audio Communication	2-way Half Duplex	Interface	10Base-T/100Base-TX Ethernet RJ-45 connector x 1		
Video Resolution	640 x 480, 320 x 240 (default), 160 x 120	Audio Bandwidth	300 Hz - 3.4 KHz	External Microphone Input	Ø 3.5 mm Mini Jack		
Buffered Image *1	About 125 frames (320 x 240) with time display	Audio Play Method	Play with ActiveX	Audio Output	Ø 3.5 mm Stereo Mini Jack (But output is mono.)		
Frame rate *2	Max. 12 frames/second (640 x 480)	Input Encoding Method	Encoding with ActiveX	External I/0	External Sensor Input x 2		
	Max. 30 frames/second (320 x 240 or 160 x 120)	Audio Input	Built-in Microphone or External		External Sensor Output x 1		
Supported Protocols	IPv4/IPv6 Dual-Stack	Microphone Input Terminal General					
	IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP,	Audio Output	Audio Line Output Terminal for External Speaker	Indicator Display	Power/Network Communication/Camera		
	DNS,ARP, ICMP, POP3, NTP, IPsec, UPnP	Camera		1	operation/Ethernet link		
IPv6	IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, IPsec	Pan/Tilt Angle	Pan: -60° to +60°, Tilt: -45°to +20°	Dimension (HWD)	About 100 mm (3.94 inches) x About 100 mm		
		Number of Pixels	1/4-inch CMOS Sensor 320,000 pixels		(3.94 inches) x About 73.5 mm (2.89 inches)		
IPsec Feature	ESP Encryption, ESP Authentication	Illumination	5 - 100,000 lx	Weight	275g (0.61 lb.) (Only the unit)		
	Transport mode/ Tunnel mode		[1 - 100,000 lx in Color Night View Mode]	Power Supply	AC adaptor: Input 120 V AC, 60 Hz		
	IKE (Internet Key Exchange)	White Balance	Auto/Manual/Hold		Output 12 V DC, 750 mA		
IKE (Internet Key Exchange)	Pre-Shared Key	Focus	Fixed 0.5 m (20 inches)-Infinity		Consumption: About 2.5W (5.5 W during pan/tilt scan)		
Cipher Algorithm	DES-CBC, 3DES-CBC, AES-CBC	Caliber Ratio (F No.)	F2.8	Temperature	Operation: 0°C (+32°F) to +40°C (+104°F)		
Message-Digest Algorithm	HMAC-MD5, HMAC-SHA-1	Horizontal Viewing Angle	43°		Storage: 0°C (+32°F) to +50°C (+122°F)		
Message Transfer Condition	Alarm, Timer or Motion Detection	Exposure	Auto	Humidity	Operation: 20 % - 80 % (No Condensation)		
Image Transfer Method	SMTP, FTP				Storage: 20 % - 90 % (No Condensation)		

^{*1} The maximum number of frames changes depending on the image quality and what object you buffer. *2 Frame rate may slow down depending on the network environment, the PC performance, the image quality, enabling IPsec, or what object you sew. *3 Connect it to an amplifier or an external speaker with a built-in amplifier.



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