**Panasonic** ideas for life



**PoE Type Network Camera** Indoor use BB-HCM511 Outdoor use BB-HCM531 \*AC adaptor is sold separately.

See There When You Can't Be There™





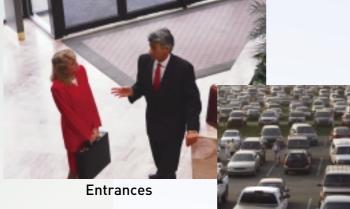
# See from Anywhere with a Variety of Monitoring Environments

By sending images in both MPEG-4 and JPEG formats, these cameras let you monitor with a variety of environments - a PC in the office, a cell phone around town, or a TV in a waiting room. Their PoE\*1 capability allows them to be installed in places where it is difficult to provide power, like near an entranceway or elevator, or in a factory or warehouse. The BB-HCM531 can also be used outdoors<sup>\*2</sup> to further expand its range of application. Using a network resolves many of the limitations that exist for installing and using conventional analogue cameras, to greatly expand your business opportunities through Zero Distance Management\*3.

\*1 PoE (Power over Ethernet) supplies power through an Ethernet cable. An optional AC adaptor can also be used.

- \*2 For details, see the information on the splash-resistant body on the back of this page.
- \*3 For details, see the bottom of this page.





Stores

Parking lots

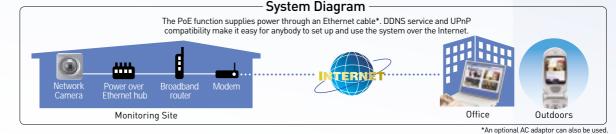




Constructions



Zero Distance Management i business style made possible by Panasonic network cameras. It allows safe, smooth, economical business management that is totally free from conventional distance and time limitations.



## **Achieving Zero Distance Management** with a Variety of Functions



## Capture

## **Motion Detection Function**

This function detects changes by reacting to a camera threshold or sensitivity that is set in advance on the PC. Captured images can also be stored temporarily in the camera<sup>\*1</sup> or sent to you by e-mail\*<sup>2</sup> or FTP data transfer\*<sup>3</sup>.

## SD Memory Card\*<sup>4</sup> Recording

A large number of images can be saved onto an SD Memory Card inserted into the camera. The images on the card can be checked over the Internet, or if no network is being used, monitoring is possible using only the camera by simply storing the images onto the card.

■ 2GB SD Memory Card	Recording Capacity
[image quality Standard]	*The veloce is the table

. Luu	iage quan	(y.Standard) The values in the table are att approxim			
5	Format	Resolution			
		640 x 480	320 x 240	192 x 144	
	JPEG	35 KB/file	16 KB/file	7 KB/file	
-		55,000 images	115,000 images	370,000 images	
MP	PEG-4*5	9 hours	9 hours	17 hours	

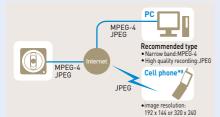
## View

## Analogue Video Output\*6

By connecting a cable directly to the camera's video output terminal, you can use your existing TV or video recorder for monitoring.

## Enjoy comfortable, versatile monitoring Simultaneous MPEG-4 and JPEG

Cameras simultaneously send MPEG-4 images in three resolutions (VGA\*7, QVGA, and SCIF), and JPEG images in the same three resolutions in favour motion, standard, and favour clarity image-quality types. MPEG-4 is recommended for viewing smooth motion images, and JPEG is recommended for recording higher quality images.



Revolving Speed

Tilt Angle

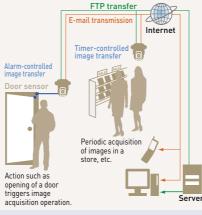
MPEG-4 Visual License When installing the MPEO-4 viewer program on additional PCs, please purchase additional licenses (Model No. BB-HCA5A for USA, BB-HCA5CE for others).

## Connect

## Alerting yourself when motion occurs **Image Transfer Function**

In accordance with preset settings\*9, the camera will automatically transfer images and a data log by e-mail\*<sup>2</sup> to an e-mail address or by FTP to a server. This allows you to check images only when necessary, and also prevents you from forgetting to check them.

## Transfer system using timer and alarm settings



## Control

Monitor large areas entirely.

Remote Pan/Tilt and Zoom Control The camera angle can be varied by remote

control to monitor large areas. You can also use the zoom Pan and tilt control

function\*10 to take a closer look at certain places. ■10x digital zoom

External Microphone Input 3.5 mm mini jack

SD Memory Card Slot



- A maximum of approximately 350 images (320 x 240 pixels) can be stored in
- the camera. PDP before SMTP authentication and SMTP authentication (PLAIN, LOGIN  $% \mathcal{A}$ \*2
- \*3 preset time.
- preset time. \*4 The 5D Memory Card is sold separately. \*5 The MPEG-4 recording times will vary depending on the subject and the maximum MPEG-4 frame rate [image refresh speed] and bit rate settings for image distribution. \*6-1 Compatible with both NTSC and PAL systems. \*6-2 A mini video cable (with 3.5-mm mini plug) is required.

		Specifica	tions [BB-HCM511/BB-HCM531]			
Server Camera		General				
Video Compression	JPEG (3 levels), MPEG4	Sensor Type	1/4 inch CCD sensor, approx. 320,000 pixels	Operating Temperature BB-HCM511: 0°C to +40°C (+32°F to +104°F )		
Video Resolution	640 x 480, 320 x 240 (default), 192 x 144	Lens Focal Point	Fixed (focal range: 0.5 m to infinity)		BB-HCM531: -20°C to +50°C (-4°F to +122°F)	
Image Quality	JPEG (favor clarity, standard, favor motion), MPEG4	Lens Brightness	F2.8	Operating Humidity	BB-HCM511: 20 % to 80 % (No Condensation)	
Frame Rate*1	Max. 30 frames/sec. [640 x 480*2, 320 x 240, 192 x144]	White Balance	Auto/manual/hold		BB-HCM531: 20 % to 90 % (No Condensation)	
Security	User ID/password	Exposure	Auto	Dimension (H x W x D)	100 x 100 x 74 mm (3 15/16 x 3 5/16 x 2 15/16 inches)	
Supported Protocols	IPv4 / IPv6 Dual-Stack	Required Light Intensity	2 to 100,000 lux (in Colour Night View mode: 0.2 to 100,000 lux)	Weight (Only the Unit)	BB-HCM511: 330 g (0.73 lb.)	
	IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPPP <sup>IN</sup> , Audio			BB-HCM531: 335 g (0.74 lb.)		
	SMTP Authentication, RTP, RTSP, RTCP	Audio Communication	2-Way half duplex	Consumption	PoE: approx. 6.5 W, AC adaptor (option): 7 W	
	IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP, RTCP	Audio Play Method	Play with ActiveX	Power Supply	PoE: 48 V, IEEEE 802.3af-compliant Power over Ethernet	
User Access Limit	Max. 30 simultaneous accesses (max. 10 accesses in MPEG-4 mode with sound playback)	Audio Encoding Method	Encoding with ActiveX		AC adaptor (option): input 100 - 240 V AC, output 12 V DC	
Buffered Image*3	Approx. 350 images (320 x 240)	Audio Compression	ADPCM 32 kbps			
-	•standard image quality •with time display •without using SD Memory Card	Audio Bandwidth	300 Hz - 3.4 kHz			
Image Transfer Method	SMTP*4, FTP, HTTP	Audio Input	Built-in microphone, external microphone input terminal	*1 Frame rate may slow down depending on the network environment, PC performance, image quality, SD memory recording, when colour night		
Image Buffer/Transfer Triggers	Alarm, timer or motion detection	Audio Output	Audio line output terminal for external speaker			
Camera Terminal		Terminal	•	view mode is activated, etc.		
Zoom	10x digital zoom (by area)	Network Interface	Ethernet (10Base-T/100Base-TX)	<ul> <li>*2 For MPEG-4 only. Not applicable to JPEG.</li> <li>*3 The maximum number of frames changes depending on the image quality and what object you buffer.</li> <li>*4 PDP before SMTP authentication and SMTP authentication (PLAIN, LOGIN and CRAM-MDS) are supported.</li> </ul>		
Viewing Angle	Horizontal: 54° (total 174°), vertical: 40° (total 105°)	External I/O Connector	Input: 2, output: 1			
Pan Angle	-60° up to +60°	Video Output*5	Analog composite (NTSC/PAL)			
Tilt Angle	-45° up to +20°	Audio Output*5	3.5 mm stereo mini jack (output is mono)			

emory Cards)

and CRAM-MD5) are supported. Full size (operation guaranteed for 2GB, 1GB, 512MB, 256MB, 128MB and 64MB SD Mi

and GRAM-MUS) are supported. \*5 Use only the included Audio/Video Cable when connecting an external microphone, speaker or TV.

# Panasonic

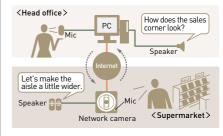
Pan: max. 80°/sec, tilt: max. 80°/se

### 0M0207SP-HCM531/511-LTCE All pictures simulated. Design and specifications are subject to change without notice

Enjoy smooth communication.

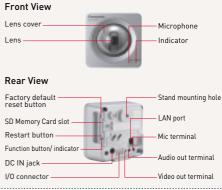
Audio 2-Way Communication\*11

By using the built-in microphone and a separately purchased speaker, you can speak\*12 to someone near the camera while monitoring. This gives you more precise communication to lessen the inconvenience of being in a distant location.



Splash Resistant Body<sup>\*13</sup> (Splash resistant standard: IPX4)

The camera can be mounted just as it is onto a store eave or other outdoor location. This allows installation in a variety of places to expand its scope of application.



1 \*6-3 The camera cannot be controlled when using analogue video output.

- The video image displays poorly in colourn gight view mode. When viewing in VGA, only MPEG-4 playback offers a maximum of 30 fps. For JPEG only. The audio feature does not work on cell phones. \*0
- Preset settings can include timer, alarm, and motion detection. With JPEG connection only. This is a digital azom function and cannot be used from a cell phone. This audio feature does not work with cell phones.
- \*11 \*12 Walkie-talkie type conversation.

\*13-1 BB-HCM531 only. \*13-2 Complies with JIS C0920, equivalent to IPX4 splash resistance.

\*Area is multiplied by 10x

and CRAM-MD5) are supported. The sensor's detection history can also be e-mailed to you once a day at a