Panasonic ideas for life

BB-HCM515

Indoor Use Only *AC adaptor is sold separately.







Clear Monitoring of a Wide Range of Subjects

The BB-HCM515 camera captures high-resolution images (1280 x 1024 pixels), so they can be thoroughly checked, corner to corner, even when they are enlarged to fill the screen. When recording in situations with strong contrast, such as backlighting, the camera automatically compensates for only the dark parts of the image. Its PoE*1 capability lets you install it in locations that don't have a nearby power outlet, so you can monitor restaurants, chain stores, factories, apartment elevator entrances, and other places at anytime, from anyplace. This raises the quality of your management even from a distance, with Zero Distance Management*2.

- *1 PoE (Power over Ethernet) supplies power through an Ethernet cable. An optional AC adaptor can also be used.
- *2 For details, see the bottom of this page.

See There When You Can't Be There™





Restaurant



Entrances



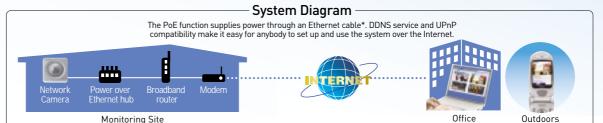
Stores



parking



Zero Distance Management is a new 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

High resolution makes images easy to see. Mega-Pixel Recording

Shooting at the high resolution of 1280 x 1024 pixels allows a clear image even when enlarged. You can check any area you want by taking a





Compensates for backlighting too. Adaptive Contrast Enhanced

When part of the image becomes extremely dark, the camera automatically compensates for it. It also corrects only dark parts, so the entire image is appropriately bright and easy to see.





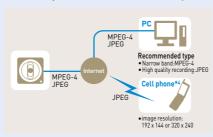
View

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

Cameras simultaneously send MPEG-4 images in three resolutions (VGA*2, QVGA, and SCIF), and JPEG images in four resolutions*3 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.

- *2 When viewing in VGA, only MPEG-4 playback offers a maximum of 30 fps.
- *3 The fourth JPEG format resolution is SXGA (1280 x 1024), with
- a frame rate of 7 fps.

 *4 For JPEG only. The audio feature does not work on cell phones



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

Analogue Video Output*5

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

- *5-1 Compatible with both NTSC and PAL systems
- *5-2 A mini video cable (with 3.5-mm mini plug) is required.
- *5-3 The camera cannot be controlled with analogue video output.
 The video image displays poorly in colour night view mode.

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 function*8 to Pan and tilt control

take a closer look at certain places. *8 This is a digital zoom function

and cannot be used from a cell



Pan (display range 170°max) Tilt (display range:





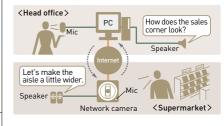


*Area is multiplied by 10x

Enjoy smooth communication. Audio 2-Way Communication*9

By using the built-in microphone and a separately purchased speaker, you can speak*10 to someone near the camera while monitoring. This gives you more precise communication to lessen the inconvenience of being in a distant location.

- *9 The audio feature does not work with cell phones.
- *10 Walkie-talkie type conversation.



SD Memory Card*1 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.

*1 The SD Memory Card is sold separately. The camera supports 64MB, 128MB, 256MB, 512MB, 1GB, and 2GB SD Memory Cards.



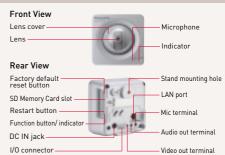
Image Transfer Function

In accordance with preset settings*6, the camera will automatically transfer images and a data log by e-mail*7 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.

- *6 Preset settings can include timer, alarm, and motion
- detection. With JPEG connection only.

 *7 PDP before SMTP authentication and SMTP authentication
 (PLAIN, LOGIN and CRAM-MD5) are supported.



		Spe	Specifications [BB-HCM515]		
Server		Camera		Ge	
Video Compression	JPEG (3 levels), MPEG4	Sensor Type	1/4 inch CMOS sensor, approx. 1,300,000 pixels	Te	
Video Resolution	1280 x 1024*1, 640 x 480, 320 x 240 (default), 192 x 144	Lens Focal Point	Fixed (focal range: 0.5 m to infinity)	ıl	
Image Quality	JPEG (favor clarity, standard, favor motion), MPEG4	Lens Brightness	F2.8	Нι	
Frame Rate*2	Max. 7 frames/sec. [1280 x 1024*3]	White Balance	Auto/manual/hold	I	
	Max. 30 frames/sec. [640 x 480*4, 320 x 240, 192 x144]	Exposure	Auto	Di	
Security	User ID/password	Required Light Intensity	At 640 x 480: 10 to 100,000 lux (in Colour Night View mode: 5 to 100,000 lux)	W	
Supported Protocols	IPv4 / IPv6 Dual-Stack		at 1280 x 1024: 7 to 100,000 lux (in Colour Night View mode: 3 to 100,000 lux)	Co	
	IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnP™,	Audio Po			
	SMTP Authentication, RTP, RTSP, RTCP	Audio Communication	2-Way half duplex	I	
	IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP, RTCP	Audio Play Method	Play with ActiveX	Т	
User Access Limit	Max. 30 simultaneous accesses (max. 10 accesses in MPEG-4 mode with sound playback)	Audio Encoding Method	Encoding with ActiveX	*1	
Buffered Image*5	Approx. 350 images (320 x 240)	Audio Compression	ADPCM 32 kbps	*2	
	•standard image quality • with time display •without using SD Memory Card	Audio Bandwidth	300 Hz - 3.4 kHz		
Image Transfer Method	SMTP*6, FTP, HTTP	Audio Input	Built-in microphone, external microphone input terminal	*:	
Image Buffer/Transfer Triggers	Alarm, timer or motion detection	Audio Output	Audio line output terminal for external speaker	1 *3	
Camera		Terminal		*/	
Zoom	10x digital zoom (by area)	Network Interface	Ethernet (10Base-T/100Base-TX)	*	
Viewing Angle	Horizontal: 50° (total 170°), vertical: 37° (total 102°)	External I/O Connector	Input: 2, output: 1	ľ	
Pan Angle	-60° up to +60°	Video Output*7	Analog composite (NTSC/PAL)	*6	
Tilt Angle	-45° up to +20°	Audio Output*7	3.5 mm stereo mini jack (output is mono)	Ι.	

- eneral Operation: 0°C to +40°C (+32°F to +104°F) Storage: 0°C to +50°C (+32°F to +122°F) lumidity Operation: 20 % to 80 % (No Condensation) POE: approx. 6.5 W, AC adaptor (option): 7 W
 POE: 48 V, IEEEE 802.3af-compliant Power over Ethernet
 AC adaptor (option): input 100 - 240 V AC, output 12 V DC
- *1 For JPEG only, Not applicable to MPEG-4.
- **Terame rate may slow down depending on the network environment, PC performance, image quality, SD memory recording, when colour night view mode is activated, etc.
- *3 When viewing images at 1280 x 1024 resolution, frame rate is reduced to 7 fps for all users, regardless of the resolution they are using to view images *4 For MPEG-4 only. Not applicable to JPEG.
- *5 The maximum number of frames changes depending on the image quality
- *5 I he maximum number of trames changes depending on the image quality and what object you buffer.
 *6 PDP before SMTP authentication and SMTP authentication [PLAIN, LOGIN and CRAM-MD5] are supported.
 *7 Use only the included Audio/Video Cable when connecting an external microphone, speaker or TV.



Revolving Speed Pan: max. 80°/sec, tilt: max. 80°/sec