Panasonic
ideas for life

Viewnetcam.com   UPnP™   PoE Ready   IP6 READY

Access www.viewnetcam.com for registration information.

* This logo mark is issued by the IPv6 Ready Logo Program Committee, an IPv6 promotion group established mainly by the IPv6 Forum.

View Places That You Couldn't Even See Before

Meet our new dome-shaped, ceiling-mounted network camera with a zoom lens.
A 4.6 zoom makes it possible to check places in detail.
Its 73°wide viewing angle allows you to recognize much broader range at the single sight.
Thanks to its PoE*1 capability, the camera can be installed in places where it is difficult to provide power, like on factory and warehouse ceilings, or near a building entranceway or elevator hall.
This lets you grab every business possibility by breaking distance and time barriers with Zero Distance Management*2.

*1 PoE (Power over Ethernet) supplies power through an Ethernet Cable.
*2 For details, see the bottom of this page.

See There
When You Can't Be There™

(Using the optional ceiling flush mount bracket.)
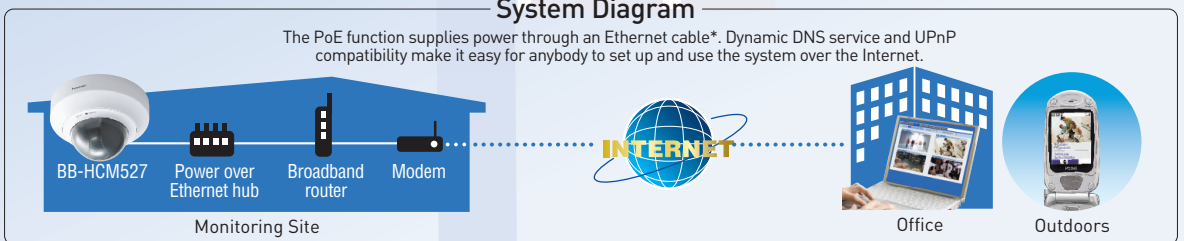
Stores

Entrances

School

Restaurant

Zero Distance Management

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.

System Diagram

The PoE function supplies power through an Ethernet cable*. Dynamic DNS service and UPnP compatibility make it easy for anybody to set up and use the system over the Internet.

BB-HCM527   Power over Ethernet hub   Broadband router   Modem

INTERNET

Office   Outdoors

Monitoring Site

*An optional AC adaptor can also be used.

Achieving Zero Distance Management with a Variety of Functions

BB-HCM527

Control

Wide-angle Lens

The use of a 73°wide-angle lens lets you monitor a wide area in a single view. The coverage can be increased even more by combining pan and tilt operation.

The viewing angle

BB-HCM511 (54°)　　BB-HCM527 (73°)

Monitor

Simultaneous MPEG-4*¹ and JPEG

Cameras simultaneously send MPEG-4*¹ images in three resolutions (VGA*², QVGA, and SCIF), and JPEG images in the same three resolutions in favor motion, standard, and favor clarity image-quality types. MPEG-4 is recommended for viewing smooth motion images, and JPEG is recommended for recording higher quality images.

*1 MPEG-4 is not applicable on a cell phone.
*2 When viewing in VGA, only MPEG-4 playback offers a maximum of 30 fps.
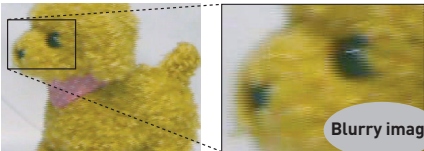
MPEG-4 Visual License
When installing the MPEG-4 viewer program on additional PCs, please purchase additional licenses (Model No. BB-HCA5A for USA, BB-HCA5CE for others).
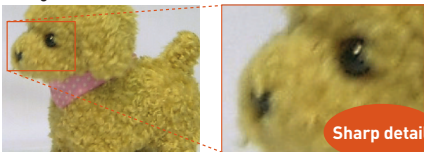
Progressive scan

Progressive scanning eliminates the blurring that often occurs with interlaced scanning, to produce a high-quality image.

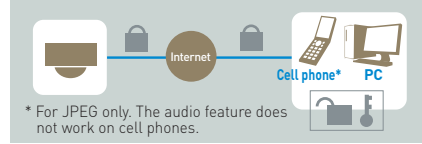■Interlaced scan

Blurry image

■Progressive scan

Sharp detail

Connect

SSL support

Recorded data is sent in encrypted form, making it very difficult for someone else to "eavesdrop" on the network.

Internet　Cell phone*　PC

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

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*³ or sent to you by e-mail*⁴ or FTP data transfer*⁵.

*3 A maximum of approximately 350 images (320 x 240 pixels) can be stored in the camera.
*4 POP before SMTP authentication and SMTP authentication (PLAIN, LOGIN and CRAM-MD5) are supported.
*5 The sensor's detection history can also be e-mailed to you once a day at a preset time.

Preview

Threshold

Store

Recording program*⁶

Video data can be downloaded to a PC using optional software. In stores, this allows for more detailed monitoring of customer behavior, and of employee attitudes toward customers, information that cannot be obtained from still images alone.

*6 Recording is possible for only one camera. To record images from multiple cameras, use the BB-HNP11 or BB-HNP15.

■ **Playback screen** (BB-HNP15)

Others

Easy PoE power supply

The power is supplied through the Ethernet cable, so the network camera can be installed on the ceiling very easily, since the additional work for the power outlet is not required.
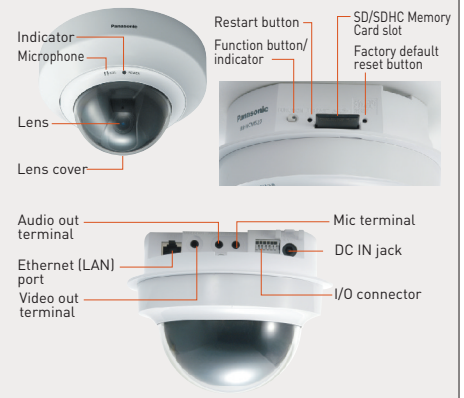
PoE IN port

Ceiling flush mount bracket (option)

Using this optional bracket, you can mount everything except the lens neatly inside the ceiling space.

(Model No. BB-HCA10A for USA, BB-HCA10CE for others)

Part Names

Indicator
Microphone
Lens
Lens cover

Restart button
Function button/indicator
SD/SDHC Memory Card slot
Factory default reset button

Audio out terminal
Ethernet (LAN) port
Video out terminal

Mic terminal
DC IN jack
I/O connector

Specifications [BB-HCM527]

Network camera		
Zoom	4.6x zoom (2.3x optical, 2x digital)	
Viewing Angle	Horizontal	tele: 32˚ (optical) /16˚ (digital), wide: 73˚
	Vertical	tele: 24˚ (optical) /12˚ (digital), wide: 55˚
Pan Angle / Tilt Angle	Pan: -175° up to +175°, Tilt: 0° up to +82°	
Revolving speed	Pan: max. 300˚/sec, Tilt: max. 80˚/sec	
Sensor Type	1/3.6 inch ν(new) MAICOVICON*⁷, approx. 370,000 pixels	
Lens focal point	Fixed (focal range: 0.75 m to ∞)	
Lens brightness	F1.9 (wide) - F2.8 (tele)	
Required light intensity	2 to 100,000 lux (in Color Night View mode:0.2 to 100,000 lux)	
Scanning system	Progressive scan	

Audio	
Audio Communication	2-Way half duplex
Audio Compression	ADPCM 32 kbps
Audio Bandwidth	300 Hz - 3.4 kHz
Audio Input	Built-in microphone or external microphone input terminal
Audio Output	Audio line output terminal for external speaker
Audio Reception Method	ActiveX
Audio Reception Decoding	ActiveX

Server	
Image compression	JPEG (Motion JPEG), MPEG-4
Video resolution	640 x 480, 320 x 240 (default), 192 x 144
Image quality	JPEG (favor clarity, standard, favor motion), MPEG-4
Frame rate*⁸	Max. 30 frames/sec. (640 x 480*⁹, 320 x 240, 192 x144)
Security	User ID/Password, SSL
Supported protocols	IPv4/IPv6 Dual-Stack, IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnPTM, SMTP , Authentication, RTP, RTSP*¹⁰, RTCP, SSL, HTTPS, TLS, IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP*¹⁰, RTCP, SSL, HTTPS, TLS
User access limit	Max. 30 simultaneous accesses (max. 10 accesses in JPEG mode with sound playback or 5 accesses in MPEG-4 mode; with HTTPS communication) (registration: max. 50 users; each user can be assigned User ID/password)
Buffered images*¹¹	Approx. 350 images (320 x 240) • standard image quality (16KB Per image) • with time display •without using SD/SDHC Memory Card
Image transfer method	SMTP*¹², FTP, HTTP
Image buffer/transfer triggers	Alarm, timer or motion detection

Terminal	
Network interface	Ethernet (10Base-T/100Base-TX)
External I/O connector	Input: 2, output: 1
Video output	Analog composite (NTSC/PAL)
Audio output	3.5 mm stereo mini jack (output is monaural)
External microphone input	3.5 mm mini jack
SD Memory Card slot	Full size (operation guaranteed for 8 GB and 4 GB SDHC Memory Cards, for 2GB, 1GB, 512MB, 256MB, 128MB and 64MB SD Memory Cards)

General	
Operating temperature	0˚C to +40˚C (+32˚F to +104˚F)
Operating humidity	20 % to 80 % (No Condensation)
Dimensions(H x W x D)	153 x 115 x 153 mm (6 x 4 9/16 x6 inches)
Weight (only the unit)	670g (1.48lb.)
Power Supply	PoE: 48 V, IEEE 802.3af-compliant Power over Ethernet AC adaptor (option): input 100 - 240 V AC, output 12 V DC
Consumption	PoE: 4.4 W (wait), max. (pan-scan): 7.9W AC adaptor: 4.4W (wait), max. (pan-scan): 8.5W

*7 New Matsushita Advanced Image Converter for Vision Construction; Original image sensor developed by Matsushita Electric Industries.   *8 The frame rate may slow down depending on the network environment, PC performance, image quality, SD memory recording, when color night view mode is activated, etc.   *9 For MPEG-4 only. Not applicable to JPEG.   *10 Only still images in JPEG format can be displayed on a cell phone.   *11 The maximum number of frames changes depending on the image quality and what object you buffer.   *12 POP Before SMTP Authentication and SMTP Authentication (PLAIN, LOGIN and CRAM-MD5) are supported.

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http://panasonic.co.jp/pcc/products/en/netwkcam/