Panasonic
ideas for life

Network Camera
PoE type **BB-HCM547**
Outdoor Use

Viewnetcam.com
Access www.viewnetcam.com for registration information.

UPnP™

PoE Ready

IPv6 READY

* 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 and splash-resistant body*2, the camera can be installed in places where it is difficult to provide power, like on factory and warehouse ceilings, or garage and store eaves.
This lets you grab every business possibility by breaking distance and time barriers with Zero Distance Management*3.

*1 PoE (Power over Ethernet) supplies power through an Ethernet Cable.
*2 IPX4 (IEC 60529 standard) equivalent splash-resistance.
*3 For details, see the bottom of this page.


Parking lot


Walkway


Entrances


Warehouse

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.

*An optional AC adaptor can also be used.

Achieving Zero Distance Management with a Variety of Functions


BB-HCM547

Installation

Outdoor Ready

The splash-resistant body* expands the scope of applications by letting you install the camera outside, like on house, garage or store eaves.

* IPX4 (IEC 60529 standard) equivalent splash-resistance

Monitor

Simultaneous MPEG-4*1 and JPEG

Cameras simultaneously send MPEG-4*1 images in three resolutions (VGA*2, QVGA, and QSIF_SP), 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.

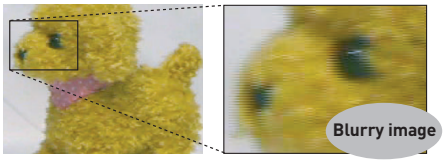
*1 MPEG-4 is not applicable on a cell phone.
*2 When viewing in VGA, only MPEG-4 playback offers a maximum of 30 fps.

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).

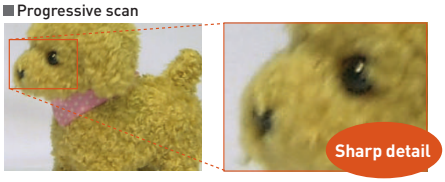
Progressive scan

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

■ Interlaced scan



■ Progressive scan

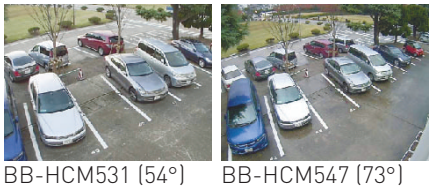


Control

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-HCM531 (54°) BB-HCM547 (73°)

Capture

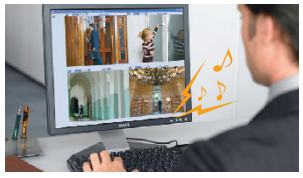
Motion Detection Function

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 970 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.

Detection Notification Sound

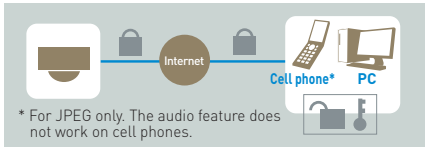
While viewing MJPEG images on the single or multi-camera screens, your computer can play a sound to notify you when motion is detected or the external sensor is triggered. This feature can be set independently on each computer that accesses the camera.



Connect

SSL support

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



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

Store

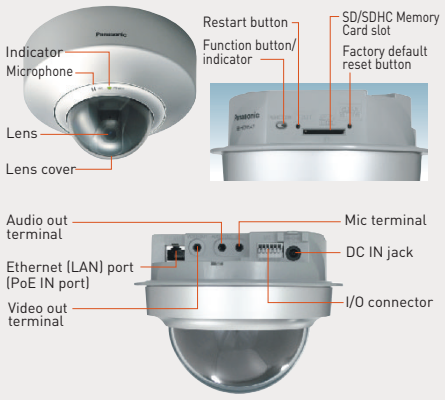
Recording program*6

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)

Part Names



Specifications [BB-HCM547]

Network camera		
Zoom		4.6x zoom (2.3x optical, 2x digital)
Viewing angle	Horizontal	32° (tele) - 73° (wide)
	Vertical	24° (tele) - 55° (wide)
Pan (horizontal)		-175° up to +175°
Tilt (vertical)		0° up to 82°
Revolving speed		Pan: max. 300° /sec, Tilt: max. 80° /sec
Sensor Type		1/3.6 inch MOS*1 sensor, approx. 370,000 pixels
Focus		Fixed (focal range: 0.75 m to ∞)
Aperture (F No.)		F1.9 (wide) - F2.8 (tele)
Required light intensity		2 to 100,000 lx (0.2 to 100,000 lx in color night view mode)
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 for moving image display), 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*2	Max. 30 frames/sec. (640 x 480*3, 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, UPnP™, SMTP Authentication, RTP, RTSP*4, RTCP, HTTPS, SSL, TLS IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP*4, RTCP, HTTPS, SSL, TLS
User access limit	HTTP: Max. 30 simultaneous accesses (max. 10 accesses in MPEG-4 mode) HTTPS: Max. 10 simultaneous accesses (max. 5 accesses in MPEG-4 mode)
Buffered images*5	Approx. 970 images (320 x 240) • Standard image quality (16KB per image) • with time display •without SD / SDHC Memory Card
Image transfer method	SMTP*6, FTP, HTTP
Image buffer/transfer triggers	Alarm, Timer, Motion detection or CGI trigger

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 mono)
External microphone input		3.5 mm mini jack
SD Memory Card slot*7		Full size (for more information, see the Panasonic Network Camera website at http://panasonic.net/pcc/support/netwkcam/support/info.html)
General		
Operating Temperature		-20°C to +50°C (-4°F to +122°F)
Operating humidity		20 % to 90 % (No Condensation)
Dimensions(H x W x D)		153 x 115 x 153 mm (6 x 4 1/2 x6 inches)
Weight (only the unit)		690g (1.52 lb.)
Power supply		PoE: 48 V, IEEEE 802.3af-compliant Power over Ethernet AC adaptor (option): input 100 - 240 V AC, output 12 V DC
Power Consumption	PoE	4.4 W (7.9 W during pan/tilt scan)
	AC adaptor	4.4 W (8.5 W during pan/tilt scan)

*1 Original image sensor developed by Panasonic.
*2 The frame rate may slow down depending on the network environment, PC performance, image quality, when viewing dark images, etc.
*3 For MPEG-4 only. Not applicable to JPEG.
*4 Only still images in JPEG format can be displayed on a mobile phone.
*5 The maximum number of images that can be buffered depends on image resolution and image quality. For information about MPEG-4 image capacity, see the Panasonic Network Camera website at http://panasonic.net/pcc/support/netwkcam/support/info.html.
*6 POP Before SMTP Authentication and SMTP Authentication (PLAIN, LOGIN, and CRAM-MD5) are supported.
*7 SD Memory Card is a consumable storage device.The life cycle may be substantially shortened depending on usage.

Panasonic®

http://panasonic.net/pcc/ipcam

BB-HCM547-LT-0812
All pictures simulated.