Panasonic ideas for life



Network Camera E type BB-HCM547 Outdoor Use







ee There

When You Can't Be There



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

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.



Modem / Monitoring Site







*An optional AC adaptor can also be used.



Zero Distance Management is a new Zero Distance Management is a ne business style made possible by Panasonic network cameras. It allows safe, smooth, economics business management that is tota free from conventional distance and time limitations.

Achieving Zero Distance Management with a Variety of Functions



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 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









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°)

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 on camera. To record images from multiple came use the BB-HNP11 BB-HNP15





Connect

SSL support

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



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



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

Part Names



Specifications [BB-HCM547]							
Network camera		Server		Terminal			
		4.6x zoom (2.3x optical, 2x digital)	Image compression	JPEG (Motion JPEG for moving image display), MPEG-4	Network interface		Ethernet (10Base-T/100Base-TX)
viewing angle		32° (tele) - 73° (wide)	Video resolution	640 x 480, 320 x 240 (default), 192_144	External I/O connector Video output		Input: 2, Output: 1
	Vertical	24° (tele) - 55° (wide)	Image quality	JPEG (ifavor clarity, standard, favor motion) , MPEG-4			Analog composite (NTSC/PAL)
		-175° up to +175°	Frame rate*2	Max. 30 frames/sec. (640 x 480*3, 320 x 240, 192 x144)	Audio output		3.5 mm stereo mini jack (output is mono)
Tilt (vertical)		0°up to 82°	Security	User ID / Password, SSL			
Revolving speed		Pan: max. 300° /sec, Tilt: max. 80° /sec	Supported protocols	Pv4/Pv4 Dual-Stack Pv4:TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, PoPS, NTP, UP-nP ^{IM} , SMTP Authentication, RTP, RTSP**, RTCP, HTTPS, SSL, TLS IPv6:TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPV6, POPS, NDP, NTP,			3.5 mm mini jack
Sensor Type		1/3.6 inch MOS*1 sensor, approx. 370,000 pixels			SD Memory C	ard slot	Full size (operation guaranteed for 8 GB and 4 GB SDHC Memory Cards, for 2 GB, 1 GB, 512 MB, 256 MB, 128 MB and 64 MB SD Memory Cards)
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)			General		
Scanning system		Progressive scan	RTP, RTSP*4, RTCP, HTTPS, SSL, TLS		Operating Ter	mperature	-20°C to +50°C (-4°F to +122°F)
Audio		User access limit	Max. 30 simultaneous accesses	Operating humidity		20 % to 90 % (No Condensation)	
Audio communication		2-way half duplex		(Max. 10 accesses with SSL communication)	Dimensions(H	H x W x D)	153 x 115 x 153 mm (6 x 4 9/16 x6 inches)
Audio compression		ADPCM 32 kbps	Buffered images*5	4 050 (000 0/0)	Weight (only the unit)		690g (1.52 lb.)
Audio bandwidth		300 Hz - 3.4 kHz		Approx. 350 images (320 x 240) • Standard image quality (16KB per image) • with time display •without SD / SDHC Memory Card	Power supply		PoE: 48 V, IEEEE 802.3af-compliant Power over Ethernet AC adaptor (option): input 100 - 240 V AC, output 12 V DC
Audio input		Built-in microphone or external microphone input terminal					
Audio output		Audio line output terminal for external speaker		1 / /			
Audio Receptio	n Method	ActiveX	Image transfer method	SMTP*6, FTP, HTTP	Power	PoE	4.4 W (7.9 W during pan/tilt scan)
Audio Receptio	on decoding	ActiveX	Image buffer/transfer triggers	Alarm, Timer or Motion detection	Consumption	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.

