Panasonic
ideas for life

Viewnetcam.com **UPnP** **PoE Ready**
Access www.viewnetcam.com for registration information.
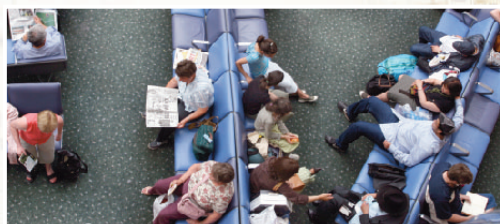
View Places That You Couldn't Even See Before

BB-HCM705

BB-HCM701 and BB-HCM705 are highly compact network cameras that are only about 60% of the size of existing model. Thanks to their compactness, these models are inconspicuous and blend in well with the installation surface. They can be mounted on walls as well as ceilings. A wall-mounted camera can offer a more natural view as compared to an overhead position because the viewing angle is closer to that from the human eye.

These cameras can help you to seize business opportunities with their capability to eliminate gaps in time and distance thereby contributing to "Zero Distance Management".

See There
When You Can't Be There

Waiting room

School

Entrances

Lobby

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

BB-HCM705

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.

Network camera — Power over Ethernet hub — Broadband router — Modem — INTERNET — Office — Outdoors

*An optional AC adaptor can also be used.

Achieving Zero Distance Management with a Variety of Functions

BB-HCM701   BB-HCM705

Capture

Megapixel Cameras (*BB-HCM705 only)

Mega pixel and higher image quality

Resolution has been improved to 1280 x 960 pixels, enabling rendering of finer detail. VGA (Video Graphics Array) quality has also been improved.

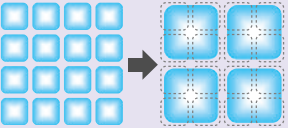Megapixel image quality comparison of new and existing models

12345 MEGA PIXEL 高画質ネットワークカメラ

Existing model

Displays crisper image!

12345 MEGA PIXEL 高画質ネットワークカメラ

New model: BB-HCM705 (VGA)

2x2 Pixel Binning (*BB-HCM705 only)

2 x 2 pixel binning treats four adjacent pixels as one virtual pixel, thereby increasing camera sensitivity, and improving viewability in low light conditions.

4-pixel summation function

*This function cannot be used with 1280 x 960 display resolution.
*The ON/OFF setting of this function is fixed and cannot be switched over automatically.

Image quality comparison

BB-HCM705 (with 4-pixel summation function ON)

BB-HCM705 (standard mode)

Capture

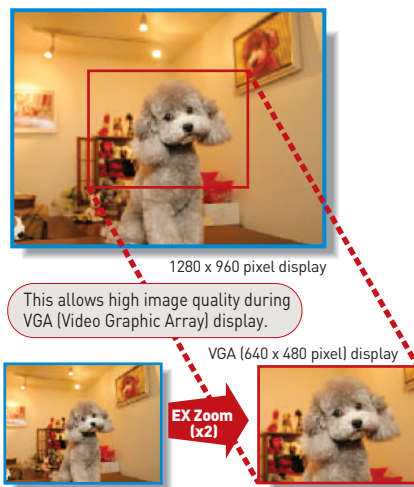### Sound and Shock Detection Function

When the camera reacts to a sound or shock, camera temporarily saves or transfers the image.

Control

EX Zoom (*BB-HCM705 only)

Although not equipped with optical zoom, these models have an EX Zoom [EX is supposed to stand for "excellence"] function. This allows high image quality during VGA (Video Graphic Array) display with the use of 1280 x 960 pixel image.
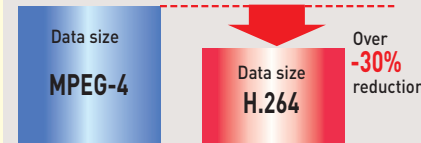
1280 x 960 pixel display

This allows high image quality during VGA (Video Graphic Array) display.

VGA (640 x 480 pixel) display

EX Zoom (x2)

Connect

Data transmission / H.264 adopted

The adoption of H.264/ACV has enabled reduction of data volume by more than 30% compared to MPEG-4 when transmitting data of the same image quality.
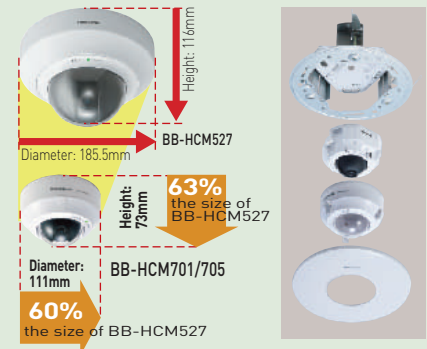
Comparison of data size

Data size MPEG-4

Data size H.264 — Over -30% reduction

Installation

Highly compact

Models BB-HCM701/705 are about 60% of the size of existing model, BB-HCM527, and therefore much more compact. Thanks to their compactness, these models are inconspicuous and blend in well with the installation surface.

Height: 116mm
BB-HCM527
Diameter: 185.5mm

Height: 73mm
63% the size of BB-HCM527

Diameter: 111mm
BB-HCM701/705
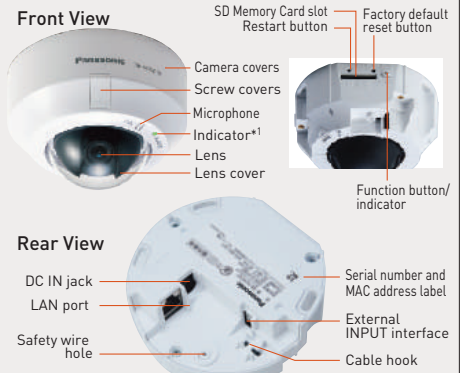60% the size of BB-HCM527

Ceiling Flush mount Bracket

These models can be flush-mounted on ceilings. Compact and ceiling-mountable, cameras blend in with the installation surface with minimum protrusion.

Ceiling flush-mount bracket

Part Names

Front View

SD Memory Card slot
Restart button
Factory default reset button
Camera covers
Screw covers
Microphone
Indicator*1
Lens
Lens cover
Function button/indicator

Rear View

DC IN jack
LAN port
Safety wire hole
Serial number and MAC address label
External INPUT interface
Cable hook

*1 See 1.1 Understanding the Camera Indicator in the Troubleshooting Guide on the CD-ROM for indicator meaning.

Specifications [BB-HCM701 / BB-HCM705]

Server	BB-HCM705	BB-HCM701
Video Compression	JPEG (3 levels), MPEG-4, H.264	
Video Resolution	1280 x 960, 640 x 480, 320 x 240, 192 x 144*1	640 x 480, 320 x 240, 192 x 144*1
Image Quality (JPEG Only)	JPEG (favor clarity, standard, favor motion)	
Frame Rate*2	Max. 30 frames/second (640 x 480, 320 x 240, 192 x 144)	
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, RTCP, HTTPS IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP, RTCP, HTTPS	
User Access Limit	Max. 30 simultaneous accesses (max. 10 accesses with voice reception)	
Buffered Image*3	About 1160 frames (320 x 240, standard image quality) with time display (when SD memory card is not inserted)	
Message-Digest Algorithm	HMAC-MD5, HMAC-SHA-1	
Message Transfer Condition	Alarm, timer, Motion Detection, Sound or Shock	
Image Transfer Method	SMTP*4, FTP, HTTP	

Camera	BB-HCM705	BB-HCM701
Zoom	6 x zoom (2 x EX zoom, 3 x digital zoom)	3 x digital zoom
Viewing Angle	Horizontal: 69°, vertical: 51°	Horizontal: 67°, vertical: 50°
Pan/Tilt Angle	Pan: -10° to +10° (ceiling mount); -52° to +52° (wall mount) Tilt: -57° to 0° (ceiling mount); - 57° to +57° (wall mount)	
Digital pan/tilt*5	BB-HCM705 only	
Number of Pixels	MOS sensor, 1.3 million pixels	CMOS sensor, 300,000 pixels
Focus	Fixed 0.5 m-infinity	
Aperture	F2.4	F2.0
White Balance	Auto/manual/hold	
Exposure	Auto	
Illuminance	At 640 x 480: 0.3 to 100,000 lux (in Color Night View mode: 0.04 to 100,000 lux) At 1280 x 960: 0.6 to 100,000 lux (in Color Night View mode: 0.07 to 100,000 lux) Screen brightness, white balance: automatic/manual setting	1.5-100,000 lx (0.4-100,000 lx when in Color Night View mode)

Audio		
Audio Communication	Camera to PC	
Audio Play Method	Play with ActiveX	
Audio Compression	H.264: MPEG-2 AAC (AAC-LC) 64 Kbps, MPEG-4/MJPEG: ADPCM 32 kbps	
Audio Bandwidth	300 Hz-3.4 kHz	
Audio Input	Built-in microphone	

Terminal	BB-HCM705	BB-HCM701
Interface	10Base-T/100Base-TX Ethernet RJ-45 connector x 1	
External Input	External sensor input x 1	
SD Memory Card Slot	Full size	
General		
Operating Temperature	Operation: 0°C to +40°C (+32°F to +104°F) Storage: -10°C to +50°C(+14°F to +122°F)	
Operating humidity	Operation: 20 % to 80 % (No Condensation) Storage: 20 % to 90 % (No Condensation)	
Dimension (H x W x D)	111mm x 111mm x 73 mm (4 3/8 inches x 4 3/8 inches x 27/8 inches)	
Weight	250g (0.55 lb.)	240g (0.53 lb.)
Power supply	Operation AC adaptor(Model No. BB-HCA7A) input 100 - 120 V AC, 50/60 Hz Output 12V DC, 750 mA Operation AC adaptor(Model No. BB-HCA7E) input 100 - 240 V AC, 50/60 Hz Output 12V DC, 750 mA	
PoE	PoE standard IEEE 802.3af-2003	
Consumption	When Using an Optional AC adaptor (Model No. BB-HCA7A) About 3.2 W (Max. 3.8 W) When Using an Optional AC adaptor(Model No. BB-HCA7E) About 3.3 W (Max. 3.9 W)	When Using an Optional AC adaptor(Model No. BB-HCA7A) About 2.4 W (Max. 2.7 W) When Using an Optional AC adaptor(Model No. BB-HCA7E) About 2.5 W (Max. 2.9 W)

*1 except H.264
*2 Frame rate may slow down depending on the network environment, PC performance, image quality, SD memory recording, using IPsec or what object you view.
*3 The maximum number of frames changes depending on the image quality and what object you buffer.
*4 POP before SMTP authentication and SMTP authentication (PLAIN and LOGIN) are supported. SMTP authentication (CRAM-MD5) is not supported.
*5 When [Max. Image Size] is set to [1280 X 960] , zoom features are not available and digital pan/tilt features are also not available.