



* 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

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.



*An optional AC adaptor can also be used.

Achieving Zero Distance Management with a Variety of Functions



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.

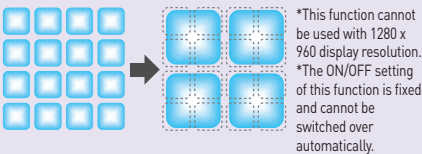
Megapixel image quality comparison of new and existing models



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.



*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 2x2 Pixel Binning ON)

BB-HCM705 (standard mode)

Capture

Sound and Shock Detection Function

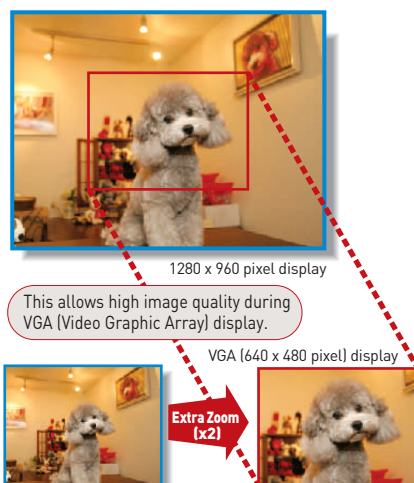
When the camera reacts to a sound or shock, camera temporarily saves or transfers the image.



Control

Extra Zoom (*BB-HCM705 only)

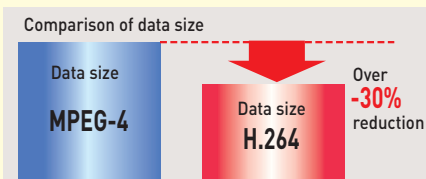
Although not equipped with optical zoom, these models have an Extra Zoom [Extra is supposed to stand for "excellence"] function. This allows high image quality during VGA (Video Graphic Array) display with the use of 1280 x 960 pixel image.



Connect

Data transmission / H.264 adopted

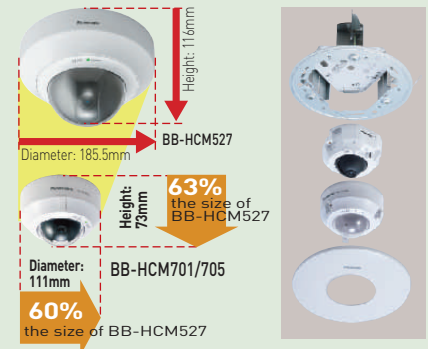
The adoption of H.264/ACV has enabled reduction of data volume by more than 30% compared to MPEG-4 when transmitting data of the same image quality.



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.

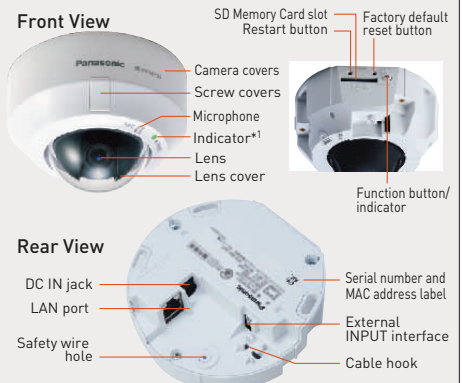


Ceiling Flush mount Bracket

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



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

Specifications [BB-HCM701 / BB-HCM705]

| | BB-HCM705 | BB-HCM701 | | BB-HCM705 | BB-HCM701 | | BB-HCM705 | BB-HCM701 |
|----------------------------|---|-----------------------------------|---------------------|---|--|-----------------------|--|--|
| Server | | | Camera | | | Terminal | | |
| Video Compression | JPEG (3 levels), MPEG-4, H.264 | | Zoom | 6 x zoom (2 x Extra zoom, 3 x digital zoom) | 3 x digital zoom | Interface | 10Base-T/100Base-TX Ethernet RJ-45 connector x 1 | |
| Video Resolution | 1280 x 960, 640 x 480, 320 x 240, 192 x 144** | 640 x 480, 320 x 240, 192 x 144** | Viewing Angle | Horizontal: 69°, vertical: 51° | Horizontal: 66°, vertical: 50° | External Input | External sensor input x 1 | |
| Image Quality (JPEG Only) | JPEG (favor clarity, standard, favor motion) | | Pan/Tilt Angle | Pan: -10° to +10° (ceiling mount); -52° to +52° (wall mount) | | SD Memory Card Slot | Full size | |
| Frame Rate** | Max. 30 frames/second (640 x 480, 320 x 240, 192 x 144) | | Digital pan/tilt** | BB-HCM705 only | | General | | |
| Security | User ID / Password, SSL | | Number of Pixels | MOS sensor, 1.3 million pixels | CMOS sensor, 320,000 pixels | Operating Temperature | Operation: 0°C to +40°C (+32°F to +104°F) Storage: -10°C to +50°C (+14°F to +122°F) | |
| Supported Protocols | IPv4 / IPv6 Dual-Stack IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnP, SMTP Authentication, RTP, RTSP, RTCP, HTTPS IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP, RTCP, HTTPS | | Focus | Fixed 0.5 m-infinity | | Operating humidity | Operation: 20% to 80% (No Condensation) Storage: 20% to 90% (No Condensation) | |
| User Access Limit | Max. 30 simultaneous accesses (max. 10 accesses with voice reception) | | Aperture | F2.4 | F2.0 | Dimension [H x W x D] | 111mm x 111mm x 73mm (4 3/8 inches x 4 3/8 inches x 2 7/8 inches) | |
| Buffered Image** | About 1160 frames (320 x 240, standard image quality) with time display (When SD memory card is not inserted) | | White Balance | Auto/manual/hold | Auto | Weight | 290g (0.55 lb.) | 240g (0.53 lb.) |
| Message-Digest Algorithm | HMAC-MD5, HMAC-SHA-1 | | Exposure | Auto | | 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 | |
| Message Transfer Condition | Alarm, timer, Motion Detection, Sound or Shock | | Illuminance | At 640 x 480: 0.3 to 100,000 lux (in Color Night View mode: 0.08 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) | PoE | PoE standard IEEE 802.3af-2003 | |
| Image Transfer Method | SMP***, FTP, HTTP | | Audio | | | 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) |
| | | | Audio Communication | Camera to PC | | | | |
| | | | Audio Play Method | Play with ActiveX | | | | |
| | | | Audio Compression | MPEG-4/MP3 | | | | |
| | | | Audio Bandwidth | 300 Hz - 3.4 kHz | | | | |
| | | | Audio Input | Built-in microphone | | | | |

**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.