

# Feel Safer with Panasonic



## Installation

### Outdoor Ready

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

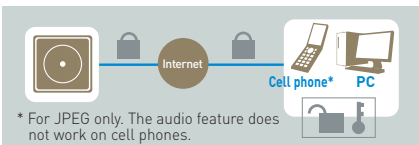


\* IPX4 equivalent splash-resistance

## Connect

### HTTPS 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.

## 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).

## Capture

### Color Night View Mode\*1

When the subject darkens, the camera automatically adjusts the brightness to show you the image. You can see clear, easy-to-view images even in the dark.



\*1 The image tends to blur more than that in standard mode when viewing a moving subject in low light. When viewing a dark subject in color night view mode, spots of white or colored light may appear in the image. Some subjects may require additional time for focusing with the auto focus function.

### Alerting Yourself when Changes Occur

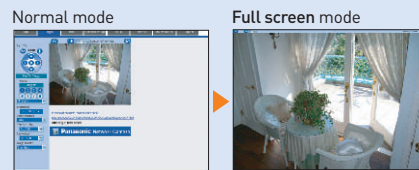
The combination of a built-in human detection sensor\*1 that responds to heat and a motion detection function that responds to a preset camera threshold or sensitivity detects even slight motions. Captured images can also be stored temporarily in the camera\*2 or sent to you by e-mail\*3 or FTP data transfer\*4.

\*1 BL-C160 only.  
\*2 A maximum of approximately 250 images (320 x 240 pixels) can be stored in the camera.  
\*3 POP before SMTP authentication and SMTP authentication (PLAIN LOGIN and CRAM-MD5) are supported.  
\*4 The sensor's detection history can also be e-mailed to you once a day at a preset time.

## View

### Full Screen Display

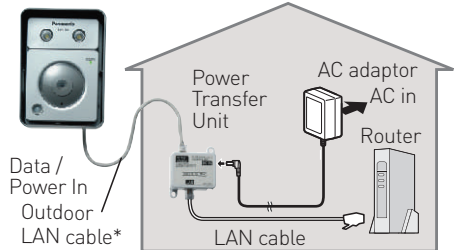
The monitoring image is easier to see because it fills the entire screen.



## Others

### Power supply via LAN cable

The included Power Transfer Unit supplies the camera the power through the LAN cable. It allows you to install the camera anywhere, like on the ceiling where no power outlet is.

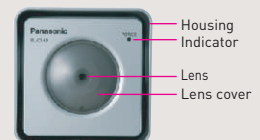


\*Use a LAN cable that is no more than 30 m (98 feet 5 inches) long to connect the camera and the power transfer unit.

## Part Names

### BL-C140

#### Front View

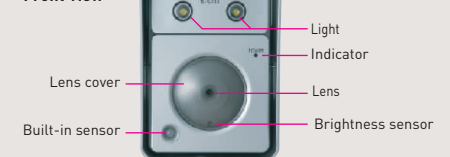


#### Rear View

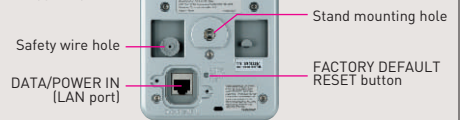


### BL-C160

#### Front View



#### Rear View



## Specifications [BL-C160 / 140]

Network camera	BL-C160	BL-C140	Server
Zoom	10 x digital zoom (by area)		Image compression
Viewing Angle	58 horizontal, 45 vertical		Video resolution
Sensor Type	1/4 inch CMOS sensor, approx. 320,000 pixel		Image quality
Lens focal point	Fixed (focal range: 0.3 m to ∞)		Frame rate*1
Lens brightness	F2.8		Security
Required light intensity	5 to 10,000 lx (in color night view mode: 3 to 10,000 lx)		Supported protocols
<b>Terminal</b>			IPV4/IPV6 Dual-Stack, IPV4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnP™, SMTP, Authentication, RTP, RTSP*3, RTCP, SSL, HTTPS, TLS, IPV6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP*3, RTCP, SSL, HTTPS, TLS
Network interface	Ethernet (10Base-T/100Base-TX)		User access limit
<b>General</b>			Max. 30 simultaneous accesses (max. 10 accesses in HTTPS communication)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)		Buffered images*4
Operating humidity	20% to 90% (No condensation)		Approx. 250 images (320 x 240) -Standard image quality -with time display
Dimensions(H x W x D)	148 x 108 x 64 mm (5 13/16 x 4 1/4 x 2 1/2 inch)	106 x 106 x 57 mm (4 3/16 x 4 3/16 x 2 1/4 inch)	Image transfer method
Weight (only the unit)	495 g (1.09lb.)	280 g (0.62 lb)	SMTP*5, FTP, HTTP
Power Supply	AC adaptor : input 100 - 240 V AC, Output 9V DC 750mA		Image buffer/transfer triggers
Consumption	AC adaptor: 3.2 W (8.1 W when light is on)	AC adaptor: 3.2 W	Timer, Sensor or Motion Detection

\*1 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.

\*2 For MPEG-4 only. Not applicable to JPEG.

\*3 Only still images in JPEG format can be displayed on a mobile phone.

\*4 The maximum number of frames changes depending on the image quality and what object you buffer.

\*5 POP Before SMTP Authentication and SMTP Authentication (PLAIN, LOGIN, and CRAM-MD5) are supported.