

Panasonic

ideas for life

Home Network Cameras

Outdoor use **BL-C140**

Outdoor use **BL-C160**

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



* This logo mark is issued by the IPv6 Ready Logo Program Committee, an IPv6 promotion group established mainly by the IPv6 Forum.

Keep an Eye on the House from Anywhere even over the Cell phone!

BL-C160



Do you sometimes worry about things at home while you're at work or on vacation?

Panasonic network cameras let you monitor the entrance or garage of your house over the Internet from wherever you are.

And you can choose the video format to match the Internet connection and your viewing needs (Motion JPEG or Mpeg-4).

Let Panasonic network cameras keep an eye on things - anytime, anywhere - so you can relax and enjoy yourself.



Home monitoring



stairway

passageway

Monitoring various locations

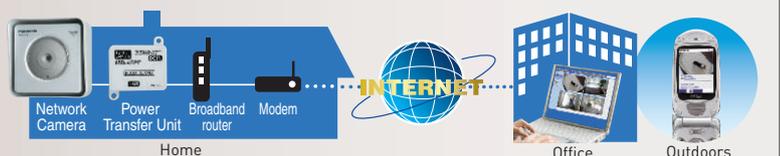


garden

See There
 When You Can't Be There

System Diagram

Panasonic network cameras support UPnP and DDNS, so it's easy to set up the network and access cameras over the Internet with an ID and password.



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-HCASA 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

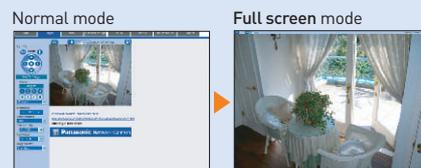
The combination of a built-in human detection sensor*1 that responds to heat and a motion detection function that responds to a preset camera threshold or sensitivity detects even slight motions. Captured images can also be stored temporarily in the camera*2 or sent to you by e-mail*3 or FTP data transfer*4.

*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

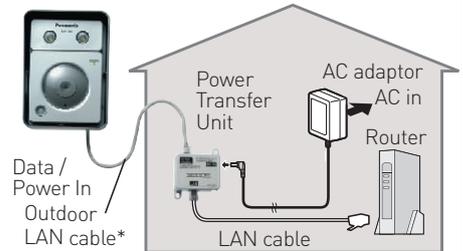
The monitoring image is easier to see because it fills the entire screen.



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

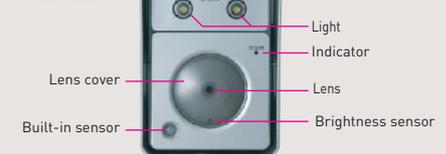


Rear View



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		JPEG (Motion JPEG for moving image display), MPEG-4
Sensor Type	1/4 inch CMOS sensor, approx. 320,000 pixel		Video resolution
Lens focal point	Fixed (focal range: 0.3 m to ∞)		640 x 480, 320 x 240 (default), 192 x 144
Lens brightness	F2.8		Image quality
Required light intensity	5 to 10,000 lx (in color night view mode: 3 to 10,000 lx)		JPEG (favor clarity, standard, favor motion), MPEG-4
Terminal			Frame rate*1
Network interface	Ethernet (10Base-T/100Base-TX)		Max. 30 frames/sec. (640 x 480*, 320 x 240, 192 x 144)
General			Security
Operating Temperature	-20°C to +50°C (-4°F to +122°F)		User ID / Password, HTTPS
Operating humidity	20% to 90% (No condensation)		Supported protocols
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)	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
Weight (only the unit)	495 g (1.09lb.)	280 g (0.62 lb)	User access limit
Power Supply	AC adaptor : input 100 - 240 V AC, Output 9V DC 750mA		Max. 30 simultaneous accesses (max. 10 accesses in HTTPS communication)
Consumption	AC adaptor: 3.2 W (8.1 W when light is on)	AC adaptor: 3.2 W	Buffered images*4
			Approx. 250 images (320 x 240) -Standard image quality -with time display
			Image transfer method
			SMTP*5, FTP, HTTP
			Image buffer/transfer triggers
			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.