Panasonic
ideas for life

iDEHAL
Gostar

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

Save Your Worries with Remote Monitoring by Panasonic Home Network Camera

Do you sometimes worry about things at home
while you're at work or on vacation?
Panasonic network cameras let you monitor your room
over the Internet from wherever you are.
They even notify you by e-mail when
they detect moving objects.
And you can choose the video format to match
the Internet connection and your viewing needs.
Let Panasonic network cameras keep an eye on things –
anytime, anywhere - so you can relax and enjoy yourself.

Panasonic
BL-C230
POWER
WIRELESS
MIC

BL-C230

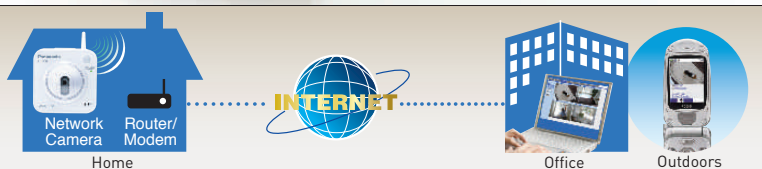— Monitoring various locations —

Entrance

Kid's room

Pet activity

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.

Network Camera
Router/ Modem
Home
INTERNET
Office
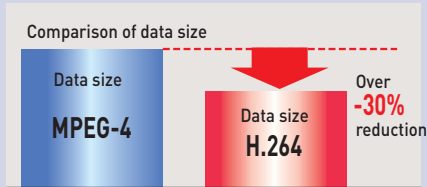Outdoors

Feel Safer with Panasonic

BL-C230

Connection

External Input and Output

Sensors and switches can be connected to the camera through two external Input ports and one Output port.

Sensor · e-mail · Sensor · Internet · PC · FTP transfer
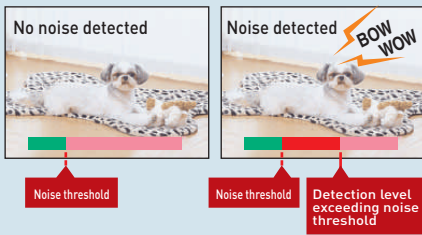
Data transmission / H.264 adopted

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

Capture

Alerting Yourself when Changes Occur

The camera's built-in microphone collects peripheral noise and when camera detects the noise exceeding the threshold it stores the image captured. This is a newly added function.

No noise detected

Noise threshold

Noise detected · BOW WOW

Noise threshold · Detection level exceeding noise threshold

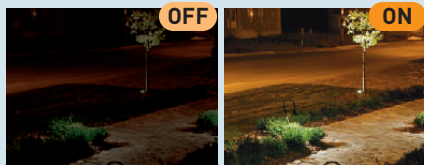## Capture

Turning privacy mode on

With privacy mode you can shut the camera lens and protect yourself from unwanted exposure. Operation is simple - you only need to push the privacy button.

Privacy button

Colour 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.
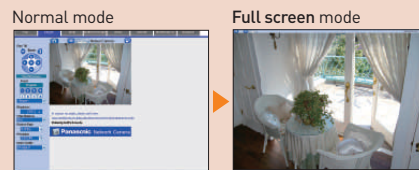
OFF · ON

*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 Colour night view mode, spots of white or Coloured light may appear in the image. Some subjects may require additional time for focusing with the auto focus function.

View

Full Screen Display

The monitoring image is easier to see because it fills the entire screen.
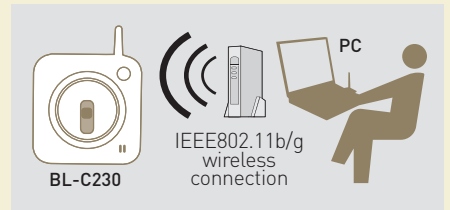
Normal mode · Full screen mode

Others

Wireless communication

Install the camera anywhere*1 with no transmission cables to connect, and enjoy high-speed communications at 2.4 GHz, 54 Mbps*2 (IEEE 802.11g) or 2.4 GHz, 11 Mbps*2 (IEEE 802.11b).
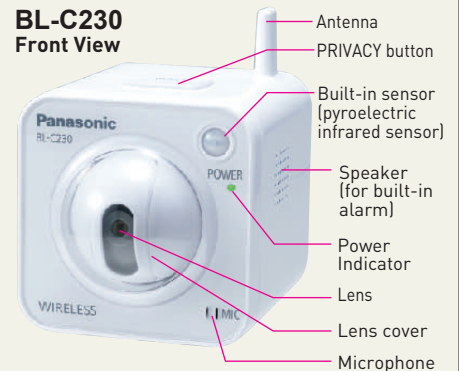
*1 Cannot be used in bathrooms or outdoors.
*2 The indicated speed is the maximum theoretical value of the wireless LAN specification, and does not denote the actual data transfer speed achieved by the cameras.
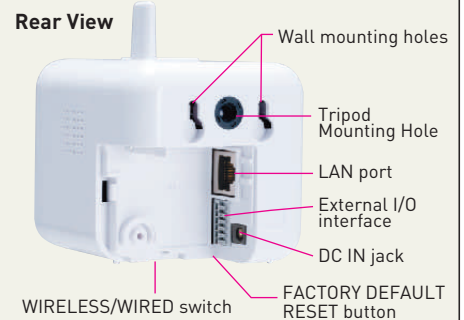
BL-C230 · IEEE802.11b/g wireless connection · PC

Part Names

BL-C230 Front View

- Antenna
- PRIVACY button
- Built-in sensor (pyroelectric infrared sensor)
- Speaker (for built-in alarm)
- Power Indicator
- Lens
- Lens cover
- Microphone

Rear View

- Wall mounting holes
- Tripod Mounting Hole
- LAN port
- External I/O interface
- DC IN jack
- FACTORY DEFAULT RESET button
- WIRELESS/WIRED switch

Specifications [BL-C230]

Network camera	
Viewing Angle	58° horizontal 45° Vertical
Pan/Tilt Angle	Pan: -41 ° to +41 °, Tilt: -32 ° to +10 °
Sensor Type	1/4 inch CMOS Progressive Scan, approx. 320,000 pixel
Lens focal point	Fixed (focal range: 0.3 m to Infinity)
Aperture (F No.)	F2.8
Illuminance	5–10,000 lx (3–10,000 lx when in Colour Night View mode)

Terminal	
Network interface	Ethernet (10Base-T/100Base-TX)
External interface	Input (2) Onput (1)

Wireless	
Communication Standard	IEEE 802.11b, 802.11b/g, 802.11g exclusive
Data Transfer Mode	IEEE 802.11b: Direct Sequence Spectrum Spread (DS-SS) IEEE 802.11g: Orthogonal Frequency Division Multiplexing (OFDM)
Frequency Range	BL-C230CE/BL-C230E:2.412-2.472 GHz
Channel	BL-C230CE/BL-C230E:1-13
Security	SSID, WEP (64/128/152 bit), WPA-PSK (TKIP), WPA2-PSK (AES)

Server	
Image compression*1	H.264, MPEG-4, Motion JPEG for moving image display
Video resolution	H.264: 640 x 480, 320 x 240 MPEG-4: 640 x 480, 320 x 240, 192 x 144 JPEG: 640 x 480, 320 x 240, 192 x 144
Frame rate*2	Max. 30 frames/sec. (640 x 480, 320 x 240, 192 x144)
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, Auto IP, SMTP Authentication, RTP, RTSP, RTCP IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, RTP, RTSP, RTCP
User access limit	2/H.264, 4/MPEG-4, 10/MotionJPEG
Buffered images	Approx. 1160 images (320 x 240) -Standard image quality -with time display
Image transfer method	SMTP*3, FTP, HTTP
Image buffer/ transfer triggers	Timer, Sensor, Alarm 1, Alarm 2, Motion Detection, Sound Detection

General	
Operating Temperature	Operation: +0°C (+32°F) to +40° (+104°F) Storage: -10°C (+14°F) to +50°C (+122°F)
Operating humidity	Operation: 20 %-80 % (no condensation) Storage: 20 %-90 % (no condensation)
Dimensions(H x W x D)	74 mm x 74 mm x 101 mm (2 15/16 inches x 2 15/16 inches x 4 inches)
Weight (only the unit)	260 g (0.57 lb)
Power Supply	BL-C230CE: AC adaptor (order no. PQLV206CEY) Input 100-240 V AC, 50/60 Hz Output 9 V DC, 750 mA BL-C230E: AC adaptor (order no. PQLV206EY) Input 220-240 V AC, 50/60 Hz Output 9 V DC, 750 mA
Consumption	About 4.0 W (7.7 W during pan/tilt scan)

· When you use more than one(1) PCs to see any moving image by H.264 or MPEG-4, you are requested to buy User License Accessory additionally.

*1 H.264 and MPEG-4 cannot browse at the same time.
*2 The frame rate may slow down depending on the network environment, PC performance, image quality, memory recording, when Colour night view mode is activated, etc.
*3 The camera supports POP Before SMTP Authentication and SMTP Authentication. PLAIN, LOGIN, and CRAM-MD5 SMTP Authentication are supported. SSL supports SMTP over SSL. STARTTLS is not supported.

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