# **Panasonic**

# Outdoor Pan-tilt Wireless Network Camera WV-SW174W



## HD / 1,280 x 960 H.264 Pan-tilt Wireless Network Camera

### **Key Features**

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- High sensitivity with Day & Night (Electrical) function: 0.6 lx (Color), 0.5 lx (B/W) at F2.2
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene(60Hz) / ELC (maximum exposure time) Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning

will be automatically compensated. ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.

- 2x extra zoom at VGA resolution
- 8x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic alarm protocol output.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.

- H.264 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Onvif compliant model
- Pan-tilt and Preset Map Shot function realizes wide range monitoring.(Horizontal angle:180° Vertical angle 123°)
- · Easy installation: Easy to adjust directions.
- Interactive communication with audio: By using the audio output connector and the microphone in connector, receiving audio from the cameras on a PC and transmitting audio from the PC to the cameras is available.
- IP55 rated water and dust resistant. Compatible with IEC60529
- Best effort on Transmission priority: In accordance with the network bandwidth, H.264 images will be transmitted with the bit rate varying between the maximum and minimum bit rates that are set for "Max bit rate (per client)".
- Smartphone monitoring : Direct camera control from smartphone
- Wireless LAN function (IEEE802.11 n/g/b) : Camera images can be monitored over a wireless router.
- WPS (Wi-Fi Protected Setup) function : WPS enables the camera to automatically obtain the connection configuration information and the security configuration information of the wireless router.
   WPS can be configured by pressing the WIRELESS button (WPS indicator) (PBC method) or entering an 8 digit pin code (Pin code method).

#### Standard Accessories

| CD-ROM*11 pc.     Flexible Stand1 pc.     Connector Cover1 pc. | Foam Strip |
|--|------------|
|--|------------|

\*1 The CD-ROM contains the operating instructions and different kinds of tool software programs

### Specifications

**DISTRIBUTED BY:** 

| Image Core  | or   | NTSC PAL   |  |
|---|--|--|--|
| Image Senso<br>Effective Pix  |  | 1/4 type MOS Sensor  |  |
| Effective Pix   |  | Approx. 1.3 megapixels   |  |
|   |  | Progressive<br>3.52 mm (H) x 2.64 mm (V) (7/50" (H) × 1/10" (V))   |  |
|   |  |  |  |
| iviinimum iiiu  | Imination  | Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(Hig   |  |
|   |  | Color: 0.038 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) <sup>11</sup><br>BW: 0.5 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))  |  |
|   |  |  |  |
|   |  | BW: 0.031 lx (F2.2, Auto slow shutter: Off (16/30s), Gain:On(High)) <sup>11</sup>  |  |
|   |  | AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)   |  |
| Light Control Mode  |  | Indoor scene (50 Hz / 60 Hz) / ELC   |  |
| Shutter Spee  | d  | ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),  |  |
|   |  | ELC (1/100 s), ELC (1/120 s), ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s)  |  |
|   |  | ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s)   |  |
|   |  | ON / OFF   |  |
|   |  | ON / OFF<br>ON (HIGH) / ON (MID) / ON (LOW) / OFF<br>OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30 :<br>OFF / AUTO   |  |
| Adaptive Bla  | ck Stretch   |  |  |
| AGC   |  |  |  |
| Electronic Se   | ensitivity UP  |  |  |
| Day & Night   | (electrical)   |  |  |
|   |  | 24 dB typ. (WDR: ON, Light Control: ELC)   |  |
| Digital Noise Reduction   |  | HIGH / LOW   |  |
|   |  | ON / OFF, 4 areas available  |  |
| Privacy Zone  |  | ON / OFF (up to 2 zones available)   |  |
|   |  | Up to 20 characters (alphanumeric characters, marks) , On/O  |  |
|   |  | 1.95 mm  |  |
|   |  | Extra zoom: 2x (at VGA resolution)   |  |
|   | d of View  | Horizontal: 85 °, Vertical: 68 °   |  |
|   |  |  |  |
|   |  | 0.5 m ~ ∞  |  |
| Pocusing Hange  |  | -47.5°- +47.5°   |  |
|   |  | Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s   |  |
|   |  | -45° to +10°   |  |
|   |  | Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s   |  |
|   |  | 64   |  |
|   |  | ON / OFF   |  |
|   |  | 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60   |  |
|   |  |  |  |
|   | dual   | Preset map-shot  |  |
|   |  | Brightness, AUX ON / OFF   |  |
| Display woo   | le   | Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad   |  |
|   |  | screens or 16 split screen (JPEG only). 20 characters camera title available.  |  |
|   |  | extra zoom(1x - 2x) and the electronic zoom (higher zoom factors, up to 16x).  |  |
|   |  | Up to 20 alphanumeric characters   |  |
|   |  | Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)  |  |
|   |  | Reset  |  |
|   |  | A still picture will be displayed on a newly opened window.  |  |
|   |  | Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,   |  |
|   |  | Audio Output: ON / OFF Volume adjustment: Low / Middle / High  |  |
|   |  | English, Japanese, Italian, French, German, Spanish, Chinese, Russian  |  |
| System Log  |  | Up to 100 (Internal) error logs  |  |
| Supported C   | )S <sup>1213</sup>   | Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®,   |  |
|   |  | Microsoft® Windows® XP SP3   |  |
| Supported Browser   |  | Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit),   |  |
|   |  | Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit),  |  |
|   |  | Microsoft® Internet Explorer® 6.0 SP3  |  |
| Antenna 802   | 2.11n  | 1 x 1 (Diversity)  |  |
|   |  | SISO (Single Input/Single Output)-OFDM system, OFDM system, DSSS syste |  |
|   |  | International standard IEEE802.11 n / IEEE802.11 g / IEEE802.11 b compliant  |  |
|   |  | WV-SW174W: IEEE802.11 n/g/b WV-SW174WE: IEEE802.11 n/g/b   |  |
|   |  | 2.412 GHz - 2.462 GHz (1 – 11ch) 2.412 GHz - 2.472 GHz (1 – 13ch)  |  |
|   | a noquonoy)  |  |  |
| Data transfer r   | ato"4  | IEEE802.11 n: 6.5 – 72.2 Mbps  |  |
| Sata nansier fa   |  | IEEE802.11 g: 6 – 54 Mbps  |  |
|   |  |  |  |
| A   | and  | IEEE802.11 b: 1 – 11 Mbps  |  |
|   |  | Infrastructure mode  |  |
| Authentication method   |  | Open System  |  |
|   |  |  |  |
| Security'5  |  | WPA/WPA2-PSK (TKIP/AES)  |  |
| Security'5  |  | WEP (64 bit/128 bit)   |  |
| Security <sup>5</sup>   |  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth   |  |
| Security <sup>5</sup><br>WPS<br>LED   |  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)   |  |
| Security <sup>'5</sup><br>WPS<br>LED<br>Interface   |  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)<br>WIRELESS button (for setting up WPS with the PBC method)   |  |
| Security <sup>*5</sup><br>WPS<br>LED<br>Interface<br>Network IF   |  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)<br>WIRELESS button (for setting up WPS with the PBC method)<br>10Base-T / 100Base-TX, RJ-45 connector (female)  |  |
| Security <sup>'5</sup><br>WPS<br>LED<br>Interface   | Aspect ratio: [4:3]  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)<br>WIRELESS button (for setting up WPS with the PBC method)<br>10Base-T / 100Base-TX, RJ-45 connector (female)<br>H.264: 1.280 x 960 / VGA (640 x 480) / OVGA (320 x 240), up to 30   |  |
| Security <sup>*5</sup><br>WPS<br>LED<br>Interface<br>Network IF   | Aspect ratio: [4 : 3]  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)<br>WIRELESS button (for setting up WPS with the PBC method)<br>10Base-T / 100Base-TX, RJ-45 connector (female)<br>H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30   |  |
| Security <sup>*5</sup><br>WPS<br>LED<br>Interface<br>Network IF   |  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WiRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps  |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]  | WEP (64 bit/128 bit)<br>PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)<br>WIRELESS button (for setting up WPS with the PBC method)<br>10Base-T / 100Base-TX, RJ-45 connector (female)<br>H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30   |  |
| Security <sup>*5</sup><br>WPS<br>LED<br>Interface<br>Network IF   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1.280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPGG: 1.280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           H.264: 1.280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1  |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 100Base-17, N10-455           10Base-17 100Base-17, N10-455           14264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7:5 / 10 / 12 / 15 / 20 / 30 fps   |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base 17 100Base - TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1 / 3 / 5 / 7.5 / 0 / 12 / 15 / 20 / 30 fps   |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode<br>Frame Rate   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / OVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072   |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode<br>Frame Rate   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1.280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>PEG: 1.280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>PEG: 1.280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1<br>1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 1.536 / 2.048 / 3.072           4.096 / 8,192 kbps   |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 / 100Base-TX, RJ-45 connector (female)           1-264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Gonstant bitrate / Framerate priority / Best effort / Advanced 1<br>1 / 3 / 5 / 7 : 5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE  |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4:3]<br>Aspect ratio: [16:9]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 / fps - 30 fps   |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>*8</sup>   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T/ 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           QPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST  |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution '6<br>H.264   | Aspect ratio: [4:3]<br>Aspect ratio: [16:9]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Image Quality  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7.5 / 0 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / FINE           1 fps ~ 30 fps           UNICAST / MULTICAST           10 steps   |  |
| Security' <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution '6<br>H.264   | Aspect ratio: [4 : 3]<br>Aspect ratio: [16 : 9]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>Image Quality<br>Refresh Interval   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>FL264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps - 30 fps  |  |
| Security <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>16</sup><br>H.264<br>JPEG   | Aspect ratio: [4:3]<br>Aspect ratio: [4:3]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmisson Type<br>Image Quality<br>Refresh Interval   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 100Base-17, N1-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7.5 / 0 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / FINE           1 fps ~ 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps ~ 30 fps           PULL / PUSH  |  |
| Security <sup>19</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>19</sup><br>H.264<br>JPEG<br>Audio Comp  | Aspect ratio: [4: 3]<br>Aspect ratio: [4: 3]<br>Transmission Mode<br>Framer Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>resision Type<br>resision Type  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1<br>/ 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps - 30 fps           PULL / PUSH           0.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps  |  |
| Security <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>76</sup><br>H.264<br>JPEG<br>Audio Comp   | Aspect ratio [4:3]<br>Aspect ratio [4:3]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refersh Interval<br>Transmission Type<br>Refersh Interval<br>Transmission Type<br>ression   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps - 30 fps           PULL / PUSH           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps           OFF / Mic Linej input / Audio output / Interactive (Full dupley/ / Interactive (Full dupley/ / Interactive (Full dupley) / Interactive (Full dupley)   |  |
| Security <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>16</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authenticatic                                  | Aspectratics [4:3]<br>Aspectratics [4:3]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refersh Interval<br>Transmisson Type<br>Image Quality<br>Refersh Interval<br>Transmisson Type<br>ression<br>m for Audio   | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 100Base-TX, RJ-45 connector (female)           1-264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7:5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps - 30 fps           PULL / PUSH           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps           OFF / Mic Lina input / Audio cutput / Interactive (Hall dupley / Interactive (Full dLevel 1 only / Level 2 higher / All users  |  |
| Security <sup>3</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>36</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authentication<br>Total Bit Rate               | Aspect ratio: [4:3]<br>Aspect ratio: [6:9]<br>Transmission Mode<br>Framer Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>resistion<br>Transmission Type<br>resistion<br>on for Audio<br>9  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>Constant bitrate / Framerate priority / Best effort / Advanced 1<br>/ 1 3 / 5 / 7 .5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / FINE           1 fps - 30 fps           0 1 fps - 30 fps           0.1 fps - 30 fps           0  |  |
| Security <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>16</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authenticatic                                  | Aspect ratio: [4:3]<br>Aspect ratio: [6:9]<br>Transmission Mode<br>Framer Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>resistion<br>Transmission Type<br>resistion<br>on for Audio<br>9  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 100Base-17, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           G4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps - 30 fps           PULL / PUSH           G72 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps           OFF / Mic Lindo output / Interactive [Half duplex/ Interactive [Fuld           Level 1 only / Level 2 higher / All users           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlim           PK 10/P, DDPIE, HTT, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPA6, MD, ICMP,  |  |
| Security <sup>3</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>36</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authentication<br>Total Bit Rate               | Aspect ratio: [4:3]<br>Aspect ratio: [6:9]<br>Transmission Mode<br>Framer Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>resistion<br>Transmission Type<br>resistion<br>on for Audio<br>9  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>Constant bitrate / Framerate priority / Best effort / Advanced 1<br>/ 1 3 / 5 / 7 .5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / FINE           1 fps - 30 fps           0 1 fps - 30 fps           0.1 fps - 30 fps           0  |  |
| Security <sup>3</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>36</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authentication<br>Total Bit Rate               | Aspect ratio: [4:3]<br>Aspect ratio: [6:9]<br>Transmission Mode<br>Framer Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>resistion<br>Transmission Type<br>resistion<br>on for Audio<br>9  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 100Base-17, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           G4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 fps - 30 fps           UNICAST / MULTICAST           10 steps           0.1 fps - 30 fps           PULL / PUSH           G72 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps           OFF / Mic Lindo output / Interactive [Half duplex/ Interactive [Fuld           Level 1 only / Level 2 higher / All users           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlim           PK 10/P, DDPIE, HTT, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPA6, MD, ICMP,  |  |
| Security <sup>3</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>36</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authentication<br>Total Bit Rate               | Aspect ratio: [4:3]<br>Aspect ratio: [6:9]<br>Transmission Mode<br>Framer Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>resistion<br>Transmission Type<br>resistion<br>on for Audio<br>9  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code method)           Vireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-17 / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 980 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 980 / VGA (640 x 480) / QVGA (320 x 240), up to 30           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps           Constant bitrate / Framerate priority / Best effort / Advanced 1           1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072           LOW / NORMAL / INE           1 fps ~ 30 fps           PULL / PUSH           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps           OFF / Mic Line) input / Audio cutput / Interactive (Hall dupley / Interactive (Fuld Level 1 only / Level 2 higher / All users           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,086 / 8,192 kbps / Unlime           PULL / PUSH           G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps           OFF / Mic Line) input / Audio cutput / Interactive (Hall dupley / Interactive (Fuld Level 1 only / Level 2 higher / All us  |  |
| Security <sup>5</sup><br>WPS<br>LED<br>Interface<br>Network IF<br>Image Resolution <sup>76</sup><br>H.264<br>JPEG<br>Audio Comp<br>Audio Mode<br>Authenticatio<br>Total Bit Rate<br>Supported F | Aspect ratio [4:3]<br>Aspect ratio [4:3]<br>Transmission Mode<br>Frame Rate<br>Bit Rate/Client<br>Image Quality<br>Refresh Interval<br>Transmission Type<br>ression<br>In for Audio<br>Protocol  | WEP (64 bit/128 bit)           PBC method (push button method), PIN method (PIN code meth<br>Wireless (wireless status display)           WIRELESS button (for setting up WPS with the PBC method)           10Base-T / 100Base-TX, RJ-45 connector (female)           H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps<br>Constant bitrate / Framerate priority / Best effort / Advanced 1<br>1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps           64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072<br>4,096 / 8,192 kbps           LOW / NORMAL / FINE           1 fps - 30 fps           0.11 fps - 30 fps           0.12 fps - 30 fps           0.11 fps - 30 fps           0.11 fps - 30 fps           0.11 fps - 30 fps           0.12 fps - 30 fps           0.11 fps - 30 fps           0.12 fps - 30 fps           0.12 fps - 30 fps           0.14 fps - 7.68 f   |  |
|   | Scanning M<br>Scanning Ar<br>Minimum III.<br>White Balan<br>Light Control<br>Shutter Spee<br>Wide Dynam<br>Face Wide Dy<br>Adaptive Bla<br>AGC<br>Day & Night<br>Dynamic Ra<br>Dynamic Ra<br>Panning Spe<br>Thitay Spee<br>Nacoung Ra<br>Panning Spee<br>Thiting Rang<br>Panning Spee<br>Thiting Spee<br>Number of Privacy Zom<br>Camera Title<br>Camera Title<br>Camera Title<br>Camera Cor<br>Display Moo<br>Self Return<br>Map Shot<br>Camera Tot<br>Camera Title<br>Camera Camera<br>Camera Camer | Scanning Mode<br>Scanning Area<br>Minimum Illumination<br>White Balance<br>Light Control Mode<br>Shutter Speed<br>Wide Dynamic Range<br>Face Wide Dynamic Range<br>Adaptive Black Stretch<br>AGC<br>Electronic Sensitivity UP<br>Day & Night(electrical)<br>Dynamic Range<br>Digital Noise Reduction<br>Video Motion Detection<br>Privacy Zone<br>Camera Title (OSD)<br>Focal Length<br>Zoom Ratio<br>Angular Field of View<br>Maximum Aperture Ratio<br>Focusing Range<br>Panning Speed<br>Titling Speed<br>Self Return<br>Map Shot<br>Camera Title<br>Clock Display<br>Alar Control<br>Display Mode<br>Zoom<br>Cumer Title<br>Clock Display<br>Alar Control<br>One Shot Capture<br>Audio<br>GUI/Setup Menu Language<br>System Log<br>Supported OS <sup>-2:3</sup><br>Supported Browser<br>Antenna 802.11n<br>Transmission system<br>Communication standard<br>Frequency range/<br>Channel (center frequency)<br>Data transfer rate <sup>-4</sup>  |  |

| TV System     |   |  | NTSC   | PAL                                      |  |
|---------------|---|--|--|--|--|
| Alarm         | Alarm So                                      | ource  | VMD, Command alarm   |  |  |
|               | Alarm Actions                                 |  | E-mail notification, Indication on browser,  |  |  |
|               |   |  | FTP image transfer, Panasonic protocol output  |  |  |
|               | Alarm Lo                                      | og   | 1,000 logs   |  |  |
|               | Schedul                                       | e  | VMD  |  |  |
| Input/ Output | Input/ Output Monitor Output (for adjustment) |  | VBS: 1.0 V [p-p]/75 Ω,   | VBS: 1.0 V [p-p]/75 Ω,                   |  |
|               |   |  | NTSC composite, ø3.5 mm mini jack  | PAL composite, ø3.5 mm mini jack         |  |
|               | Microph                                       | one/Line Input                                       | ø3.5 mm monaural mini jack, Input impedance: Approx. 2.2 kΩ                                  |  |  |
|               | For microphone input                          |  | Applicable microphone: Plug-in power type, Supply voltage: 3.3 V ±0.5 V                      |  |  |
|               |   | For line input                                       | Input level: Approx. –10 dBV   |  |  |
|               | Audio Output                                  |  | ø3.5 mm stereo mini jack (monaural output),Output impedance: Approx. 560 Ω, Line leve        |  |  |
|               | External                                      | I/O Terminals  | ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT, GND, 12 V DC                         |  |  |
| General       | Safety/EMC Standard                           |  | DOC (ICES003 ClassA)   | CE, IEC60950-1 (EN55022 ClassB, EN55024) |  |
|               |   |  | Wireless : FCC Part15C   | Wireless : EN300 328                     |  |
|               | Power Source and Power Consumption            |  | 12V DC , 510 mA  |  |  |
|               | Ambient O                                     | perating Temperature                                 | -20 °C ~ +50 °C (-4 °F ~ 122 °F)   |  |  |
|               | Ambient (                                     | Operating Humidity                                   | Less than 90 % (no condensation)   |  |  |
|               | Water and                                     | /ater and Dust Resistance Camera: IP55 (IEC60529) 18 |  |  |  |
|               | Dimensi                                       | ons  | 100 mm (W) x 100 mm (H) x 84 mm(D) (3-47/50" x 3-47/50" (H) x 3-5/16")(excluding projection) |  |  |
|               | Mass (app                                     | orox.)   | Main body 370 g (0.82 lbs)   |  |  |
|               | Finish Main body: PC/ABS resin, silver        |  |  |  |  |
|               |   |  | Dome section: Clear polycarbonate res  | sin                                      |  |

\*1 Converted value

\*2 Refer to \*Notes on Windows Vista® / Windows® 7 / Windows® 8\* on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

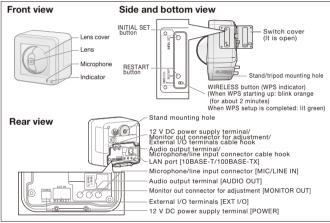
Windows vista\*. 3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®. 4 The actual line speed may be different depending on the network environment and the wireless devices connected

Developed on the wireless access point (wireless router) used, connections may not be possible between the camera and the wireless. When connecting with 802.11n, select WPA-PSK(AES) or WPA2-PSK(AES) for security. '6 transmission for 2 streams can be individually set in the same compression method. '7 For further information about compatible devices, refer to our website

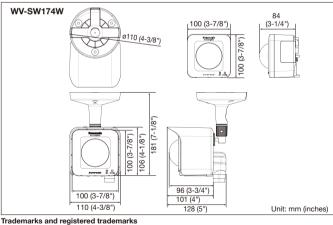
(http://security.panasonic.com/pss/security/support/info.html).

\*8 Only when installation work specified in this book is properly performed and appropriate waterproof treatment is performed.

#### Part Names and Functions



#### Appearance



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- Safety Precaution: Carefully read the operating instructions and installation manual before using this product. - Panasonic cannot be responsible for the performance of the network and/or other manufacturers products used on the network.

Masses and dimensions are approximate.
Specifications are subject to change without notice.
These products may be subject to export control regulations.

Panasonic

http://security.panasonic.com

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