Panasonic

Super Dynamic Weather Resistant **HD Network Camera**





HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic

Key Features

- 720p HD images up to 30 fps
- Newly developed 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
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night (Electrical) function : 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide)
- VIQS (Variable Image Quality on Specified area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Up to 7.2x Extra Optical Zoom at VGA resolution. 2.8-10 mm, 3.6x vari-focal auto iris lens (5.6-20 mm, 7.2x with Extra Optical Zoom at VGA)
- VMD (Video Motion Detector) 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.
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic 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/MPEG-4 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.

- 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
- Analog Monitor output for easier installation
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Fog compensation

Standard Accessories

- Installation Guide1 pc. Waterproof tape......
- CD-ROM*11 pc. • Camera fixing screw (M4 x 10)
- Code Label*2.....1 pc.
- The followings are for installation.
- Camera mount bracket 1 pc.
-3 pcs. (of them, 1 for spare) • Desiccant Mount bracket cover2 pcs.

.....1 pc.

....1 pc.

..4 pcs. (of them, 1 for spare)

Mount bracket cover screw (M3 x 6)

*1 The CD-ROM contains the operating instructions (HTML, PDFs) and different kinds of tool software programs *2 This label may be required for network management. The network administrator shall retain the code label.

Optional Accessory



Specifications

TV System NTSC Camera IImage Sensor 1/3 type MOS Sensor Effective Pixels Approx. 1.3 megapixels Scanning Mode Progressive scan Scanning Mrea 4.80 mm (H) x 3.60 mm (V) (3/ Minimum Illumination Color 0.3 lx, B/W: 0.2 k at F1 White Balance AWC (2,000 - 10,000 K), ATW1 (2 Light Control Mode Otta)	
Effective Pixels Approx. 1.3 megapixels Scanning Mode Progressive scan Scanning Area 4.80 rmm (V) (3/ Minimum Illumination Color 0.3 lx, B/W: 0.2 lx at F1 UNIMINE Balance AWC (2,000 - 10,000 K), ATW1 (2 Light Control Mode Outdor: Automatic integration Indoor [50 Hz]: Automatic integr	
Scanning Mode Progressive scan Scanning Area 4.80 mm (H) x 3.60 mm (V) (3/ Minimum Illumination Color. 0.3 k, BW: 0.2 k at F1 Color. 0.019 k, BW: 0.013 k White Balance White Balance AWC (2,000 - 10,000 K), ATW1 (2 Light Control Mode Outdoor: Automatic integration	
Scanning Area 4.80 mm (H) × 3.60 mm (Y) (X) Minimum Illumination Color: 0.3 k, B/W: 0.2 k at F1 Color: 0.019 k, B/W: 0.013 k White Balance AWC (2,000 - 10,000 K), ATW1 (2 Light Control Mode Outdoor: Automatic integration Indoor [50 H2]: Automatic integration	
Minimum Illumination Color: 0.3 kx, B/W: 0.2 kx at F1 Color: 0.019 kx, B/W: 0.013 kx Withe Balance White Balance AWC (2,000 - 10,000 K), ATW1 (2 Light Control Mode Outdoor: Automatic integration Indoor [50 Hz]: Automatic integration	16"(H) x 5/32"(V))
Color: 0.019 lx, B/W: 0.013 lx White Balance AWC (2,000 - 10,000 K), ATW1 (2 Light Control Mode Outdoor: Automatic integration Indoor [50 Hz]: Automatic integr	3 (Shutter: 1/30 s. AGC: High).
White Balance AWC (2,000 ~ 10,000 K), ATW1 (2 Light Control Mode Outdoor: Automatic integration Indoor [50 Hz]: Automatic integr	
Light Control Mode Outdoor: Automatic integration Indoor [50 Hz]: Automatic integr	
Indoor [50 Hz]: Automatic integr	
	ation of ALC and ELC (up to 1/120 s)
Shutter Speed Fix shutter: 1/30, 3/100, 3/120,	2/100, 2/120, 1/100, 1/120,
1/250,1/500, 1/1,000, 1/2,000, 1/	1,000, 1/10,000 (only at Super-Dynamic Off
Super Dynamic ON / OFF	
Face Super Dynamic ON / OFF (Only at Super Dynamic	: ON)
Adaptive Black Stretch ON / OFF (Only at Super Dynamic	
AGC ON (LOW, MID, HIGH) / OFF	
	(00 -) C: (C(00 -) 10: (10(00 -) 10: (10(00 -)
	/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s)
Day & Night (Electrical) OFF / AUTO	
	n, Light control mode: indoor scene)
Digital Noise Reduction High / Low	
Video Motion Detection 4 areas, Sensitivity: 15 steps,	Detection size: 10 steps
Privacy Zone Up to 2 zones, Gray	
VIQS ON / OFF	
Camera Title (OSD) Up to 20 characters (alphanun	neric characters, marks)
Focus Adjustment Focus Assist	
	0 mm, 7.2x with extra optical zoom (at VGA))
	E), V: 20.8° (TELE) ~ 73.6° (WIDE)
Maximum Aperture Ratio 1 : 1.3 (WIDE) ~ 1 : 3.1 (TELE)	
Focusing Range 0.3 m ~ ∞	
Adjusting Angle Horizontal: ±100° (Camera mo	
Vertical: +30°, -90° (Camera m	ount bracket)
Browser GUI Camera Control Brightness	
Display Mode Spot, Quad: Image from 16 cam	eras can be displayed in 4 different Quad
screens or 16 split screen (JPEG	only). 20 characters camera title available.
Digital Zoom 1x, 2x, 4x controlled by brows	
Camera Title Up to 20 alphanumeric characters	
	s on the browser, Summer time (Manual
	s on the browser, Summer time (Manual
One Shot Capture A still picture will be displayed	
	n, German, Russian, Chinese, Japanese
Supported OS ¹¹ ² Microsoft [®] Windows [®] 8,	
Microsoft® Windows® 7,	
Microsoft [®] Windows Vista [®] ,	
Microsoft® Windows® XP SP3	
Supported Browser Windows® Internet Explorer® 1	0.0 (32-bit)
Windows® Internet Explorer® 9	
Windows® Internet Explorer® 8	
Windows Internet Explorer 7 Windows® Internet Explorer 7	
Microsoft® Internet Explorer® 6	
Network Network IF 10Base-T / 100Base-TX, RJ-45	
Image Resolution 4 Aspect ratio: [4:3] H.264: 1,280 × 960 / VGA (640	
MPEG-4: VGA (640 × 480) / Q\	'GA (320 × 240), up to 30 fps
JPEG (M-JPEG): 1,280 × 960 / VGA	(640 × 480) / QVGA (320 × 240), up to 30 fps
Aspect ratio: [16:9] ¹³ H.264: 1,280 × 720 / 640 × 36	0 / 320 × 180, up to 30 fps
	640 × 360 / 320 × 180, up to 30 fps
	riority / Best effort / Advanced VBR
Frame Rate 1/3/5/7.5/10/12/15/20	
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76	ode only
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m	
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE	
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s	
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps* H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s ~ 5 s Transmission Type UNICAST / MULTICAST	
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Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps* H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s ~ 5 s Transmission Type UNICAST / MULTICAST	
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Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s ~ 5 s Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps ~ 30 fps Transmission Type PULL / PUSH Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,	
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Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1, Supported Protocol IP46 / 128 / 256 / 384 / 512 / 768 / 1,	RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6,
Bit Rate/Client 64/128/256/384/512/76 4,096/8,192*Kbps *L.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s Transmission Type UNICAST / MULTICAST JPEG Image Quality Inage Quality 10 steps Refresh Interval 0.1 fps - 30 fps Total Bit Rate 64/128/256/384/512/768/1, Supported Protocol IPv6: TCP/IP, UDP/IP, HTTP, HTTPS MLD, CMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS	RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, , RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP,
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s Transmissin Type UNICAST / MULTICAST JPEG Image Quality Refresh Interval 0.1 tps - 30 fps Transmissin Type 0.412 / 256 / 384 / 512 / 768 / 1, Supported Protocol IPv4: TCP/IP, UDP/IP, HTTP, HTTPS MLD, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS DNS, DDNS, NTF, SNMP, UP DNS, DDNS, NTF, SNMP, UP	RTP, FTP, SMTP, DNS, NTP,SNMP, DHCPv6, , RTSP, RTP, RTP/RTCP, FTP,SMTP, DHCP, P, IGMP, ICMP, ARP
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1, Supported Protocol IPv5: TCP/IP, UDP/IP, HTTP, HTTPs MLD, ICMP, APR IPv4: TCP/IP, UDP/IP, HTTP, HTTPs DNS, DNS, NTP, SNMP, UPF DNS, DNS, NTP, SNMP, UPF FTP Client Alarm image transmission, FTI	RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, , RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, P, IGMP, ICMP, ARP P periodic transmission
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Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s Tarsmisson Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Transmission Type ULIL / PUSH Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1. Supported Protocol IP46: TCP/IP, UDP/IP, HTTP, HTTP FTP Client Alarm image transmission, FIT No. of Simultaneous Users Up to 14 users (Depends on no hobite Terminal Compatibility" Mobile Terminal Compatibility" IPad, IPhone, IPod tuch (IOS Android™ mobile terminals Alarm Alarm Source VMD / Access permission / H. Mobile Terminal Compatibility" VBS: 1.0 V [p-p]/75 Ω, NTSC G General Safety/EMC Standard UL (LU60950-1), FCC (Part15 Ω, NTSC G Power Source and Power Consumption Poe (ICEE 802.3af compliant), Ambien Operating Temperature Total Starting Temperature -10 "C - + 450 °C (14 "F - 122"	RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, , RTSP, RTP, RTP/RTCP, FTP,SMTP, DHCP, P, IGMP, ICMP, ARP Periodic transmission stwork conditions) 4.2.1 or later) terransfer, Panasonic protocol output 264 recording ormposite, RCA Jack ClassA), 350-1), 18 V: 70 mA (Class 0 device) F)
Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 76 4,096 / 8,192* kbps * H.264 m Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s S Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Transmission Type PULL / PUSH Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1, Supported Protocol IPVe: TCP/IP, UDP/IP, HTTP, HTTPS Mub, ICMP, ARP IPV4: TCP/IP, UDP/IP, HTTP, HTTPS Mobile Terminal Compatibility" IP4 at 10 users (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n Mobile Terminal Compatibility" IP4 at 10 works (Depends on n	RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, , RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, P, IGMP, ICMP, ARP 2 periodic transmission stwork conditions) 4.2.1 or later) ge transfer, Panasonic protocol output 264 recording composite, RCA Jack ClassA), 50-1), 48 V: 70 mA (Class 0 device) F) ation)

TV System		NTSC
General	Dimensions	94 mm (W) × 89 mm (H) × 226 mm (L) (3-7/10" (W) × 3-1/2" (H) × 8-7/8" (L))
	Mass (approx.)	1.3 kg (2.87 lbs.)
	Finish	Main body: Aluminum die cast/resin, metallic silver coating
		Front cover section clear part: Polycarbonate resin

11 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows Internet Explorer, Click "Manual"-"Open" from the supplied CD-ROM and refer to "Notes on Windows / Internet Explorer versions". For information on the camera models of the supported operating systems,

refer to our website(http://security.panasonic.com/pss/security/). *2 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

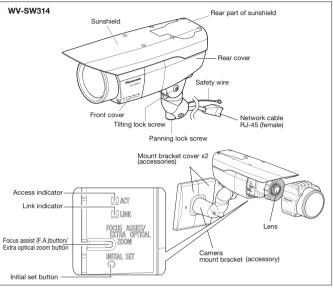
*3 MPEG-4 is not supported. *4 [4 : 3] and [16 : 9] are alternative.

*5 H 264 and MPEG-4 are alternative

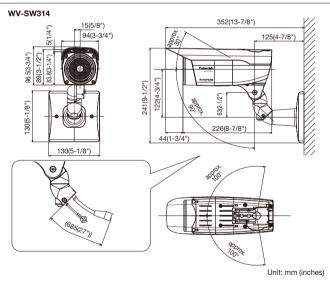
*7 For further information about compatible devices, refer to our website

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

Part Names and Functions



Appearance



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Safety Precaution: Carefully read the operating instructions and installation manual before using this product.

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