

Super Dynamic Weather Resistant HD Network Camera WV-SW316L WV-SW316



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 (IR) function:
 WV-SW316L: 0.3 lx (Color), 0 lx (B/W) at F1.3 (Wide) when the IR LED is lit
 WV-SW316: 0.3 lx (Color), 0.05 lx (B/W) at F1.3 (Wide)
- Motorized varifocal lens equipped:
 The zoom ratio can be changed and adjusted to an optional photographic area through the operation buttons on this unit and the setup menu.
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.(WV-SW316L)
- 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.
- ABF (Auto Back Focus) ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Up to 6.4x Extra Optical Zoom under VGA resolution.
 3.1-10 mm, 3.2x vari-focal auto iris lens (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA))
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD is supplied to work with the WJ-NV200 /WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.

- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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.
- Dehumidification device for use in various weather conditions

Standard Accessories

Installation Guide	•
The followings are for installation. • 4P alarm cable	•
Camera mount bracket	•
*1 The CD BOM contains the enerating instructions (HTM)	DD

- Camera fixing screw (M4 x 8)4 pcs. (of them, 1 for spare) Mount bracket cover screw (M3 x 6)
- Mount bracket cover screw (M3 x 6)
 3 pcs. (of them, 1 for spare)
 Adapter box (PAL model only).......1 pc
 Adapter box mounting screw
- *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

Adapter Box WV-Q120 (NTSC model only)



Specifications

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Network F Image Resolution 14 Aspect ratio: [4:3] H. 264: 1.280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fp MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fp Aspect ratio: [4:3] H. 264: 1.280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fp Aspect ratio: [4:3] H. 264: 1.280 × 270 / 640 × 360 / 320 × 180, up to 30 fp JPEG (M-JPEG): 1.280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fp JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fp JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1.280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1.280 × 720 / 720					
Image Resolution ** Aspect ratio: [4:3] M.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG (M-JPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps Aspect ratio: [6:9]* In 264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 180 / 320 / 320 / 320 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 180 / 320 / 3	dataa.d.	Natural IF		Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3	
MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG (M-JPEG): 1,280 × 790 / V640 × 380 / V9C4 × 340) / OVGA (320 × 240), up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H264MPEG-4*** Inaremsission lybe Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,358 / 2,048 / 3,072 / 4,096 / 8,192 × Mps + 12,94 mode only Image Quality Independent of the state of	vetwork		Aspect ratio: [4 · 3]		
Appet ratio [16::9] H.266 (M-JPEG): 1,280 x 780 / VGA (640 x 480) / QVGA (220 x 240), up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps PEG (M-JPEG): 1,376 / 7,575 / 10 / 10 / 12 / 15 / 20 / 30 fps PEG (M-JPEG): 1,376 /		inage resolution	ropourtatio. [+ : 0]		
H264MPEG4 3** Inasmission Mode Constant bitrate / Framerate priority / Best effort Frame Rate 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Bit Rate/Cleft 64 / 128 / 256 / 384 / 512 / 788 / 1.024 / 1,536 / 2,048 / 3,072 / 4,640 × 360 / 320 × 180, up to 30 fps Bit Rate/Cleft 64 / 128 / 256 / 384 / 512 / 788 / 1,024 / 1,536 / 2,048 / 3,072 / 4,640 × 36 / 182 × 126 mode only Image Quality LOW / NORMAL / FINE Refresh Interval 0. 2 s − 5 s Transmission Type UMCAST / MULTCAST JPEG Image Quality 10 steps Refresh Interval 0. 1 fps − 3 of ps Transmission Type PULL / PUSH Audio Compression Audio Mode OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Authentication for Audio Level 1 only / Level 2 higher / All users Total Bit Rate Supported Protocol Pet CPIPI, UDPIP, HTTP, HTTP, RTP, RTP, RTP, SMIP, DINS, NIP, SMMP, DHCPv6, MLD, ICMP, AI Pet TCPIPI, UDPIP, HTTP, HTTP, RTP, RTP, RTP, RTP, SMIP, DINS, NIP, SMMP, DHCPv6, MLD, ICMP, AI Pet TCPIPI, UDPIP, HTTP, HTTP, RTP, RTP, RTP, RTP, RTP, SMIP, DHCP, DND, DNDS, NIT SMMP, UPP, ICMP, UPP, ICMP, AIRP FTP Client Alarm Image transmission is falled, backup on an optional SDHC/SD memory card is available Up to 14 users (Depends on network conditions) BDHC/SD Memory Card (Option) H264 recording; Manual REC / Nam REC (Pre/Post) / Schedule REC SDHC/SD Memory Card (Option) Face Detection Cellular Phone Compatibility Alarm Log SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on throwers, FTP image transfer, Panasonic protocol output Indication on throwers, FTP image transfer, Panasonic protocol output Monitor Output (for adjustment) Microphone/Line Input Microphone/Lin					
H28/MPEG-4** Tarsmission Mode Constant bitrate / Framerate priority / Best effort Frame Rate 1 / 13 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Bit Rate/Client Bit Rate/Client 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps * H.264 mode only Image Quality Refersh Interval 0.2 s - 5 s Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Transmission Type UNICAST / MULTICAST JPEG Image Quality 10 steps Refresh Interval 0.1 fps - 30 fps Transmission Type 0.1 fps - 30 fps Transmission fps 0.1 fps - 7 fps 0.1 fps - 7 fps 0.1 fps - 7 fps Transmission fps 0.1 fps - 7 fps 0.1 fps - 7 fps 0.1 fps 0.1 fps - 7 fps 0.1 fps			Aspect ratio: [16:9]*3		
Frame Rate 1/3/5/7/5/10/12/15/20/30 fps Bit RateoClient 64/128/256/384/512/768/1,024/1,536/2,048/3,072/ 4,096/8,192* Mps; *1,264 mode only Image Quality. Image Quality. Refresh Interval 0.2 s - 5 s Inarsmission Type Image Quality. In Steps Refresh Interval 0.1 of 1 fps - 30 fps Imarsmission Type Refresh Interval 0.1 of 1 fps - 30 fps Imarsmission Type Refresh Interval 0.1 fps - 41 fp		1100434000 43530	T		
Bit Rate/Client 64 / 128 / 256 / 394 / 512 / 788 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps * 1,264 mode only Image Quality LOW / NORMAL / FINE Refresh Interval 0.2 s - 5 s Transmission Type UMCNST / MULTICAST		H.2b4/MPEG-4 ° °			
Augo Quality LOW / NORMAL / FINE					
Image Quality LOW / NORMAL / FINE Refresh Interval Q.2 s - 5 s			_ n nator Onelli		
Refresh Interval 0.2 s - 5 s			Image Quality	LOW / NORMAL / FINE	
JPEG Image Quality 10 steps Refresh Internal 0.1 fps - 30 fps Terrsmission Type PULL / PUSH			Refresh Interval	0.2 s ~ 5 s	
Refresh Interval 0.1 fps - 30 fps Transmission Type PULL / PUSH		IDE -			
Audio Compression Type PUIL L / PUSH		JPEG			
Audio Mode Audio Mode Audio Mode Audio Mode Audio Mode Authentication for Audio Authentication for Audio Authentication for Audio Evel 1 only / Level 2 higher / All users For Interactive (Full duplex Authentication for Audio Level 1 only / Level 2 higher / All users For Interactive (Full duplex Bupported Protocol Frec (Fire) (DiPle, 1768 / 1,024 / 2,046 / 4,096 / 8,192 kbps / Unlimited Fire (Trule), UpPle, HITP, HITPS, RTP, FIS, MIP, DiNS, NTP, SMMP, DHCPP, DNB, DNB, NTP, SMMP, DNP, DNB, DNB, NTP, SMMP, DNP, DNB, DNB, NTP, SMMP, DNP, DNP, DNP, DNP, DNP, DNP, DNP, DN					
Audio Mode Authentication for Audio Devel 1 only / Level 2 higher / All users Total Bit Rate 94 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Supported Protocol PiPte TCPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMP, DHCP6, MLD, (CMP, AIP - KTCPIP, UDPIP, HTTP, HTTPS, RTP, RTP, RTP, SMTP, DNS, DNS, NTP SMMP, UPPP, IGMP, ICMP, ARP FTP Client Alarm image transmission, FTP periodic transmission (When the FTP transmission is lailed, backup on an optional SDHC/SD memory card is available No. of Simultaneous Users Up to 14 users (Depends on network conditions) H264 recording: Manual REC / Alarm REC (PrePost) / Sackup upon network failure compatible Sig SHC) card: Pansonic 256 MB, 512MB, 1 GB, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB mod - SQMC (and Pance Compatibility) PEG image, AUX control (by access level) Mobile Terminal Compatibility PEG image, AUX control (by access level) Alarm Actions 1 terminal input, VMD, Command alarm Alarm Source Alarm Log With SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on browser, FTP image transfer, Panasonic protocol output Monitor Output (for adjustment) VBS 10 V [p-p]/75 Ω, NTSC composite, RCA Jack MIC IN and Line IN are selectable, a3,5 mm stereo mini jack (monaural input, (Applicable microphone: Pupe) in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ Audio Output External I/O Terminals Level 1 charm Authory Aux NoVING ALEM NOVINGHT IN, ALARIM OUT, AUX OUT				G.726 (ADPCM) 32 kbps / 16 kbps. G.711 64 kbps	
Authentication for Audio Total Bit Rate 64 / 128 / 256 / 384 / 512 / 788 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Supported Protocol Pet TCPIP, UDPIP, HTTP, HTTPS, RTP, PTP, SMIP, DMS, NTP, SMMP, DHCPv6, MLD, LOMP, AI Pet TCPIP, UDPIP, HTTP, HTTPS, RTP, PTP, SMIP, DMS, NTP, SMMP, DHCPv6, MLD, LOMP, AI Pet TCPIP, UDPIP, HTTP, HTTPS, RTP, PTP, SMIP, DMS, PDP, DMS, DDNS, NTP SMMP, UPP, ISMMP, UDPIP, SMIP, DMS, PTP, PTP, PETP, CTP, SMIP, DMS, DDNS, NTP SMMP, UPP, ISMMP, UDPIP, SMIP, SMIP, DMS, PTP, SMIP, DMS, DDNS, NTP SMMP, UPP, ISMMP, LOMP, ARP FTP Client		Audio Mode Authentication for Audio Total Bit Rate Supported Protocol FTP Client No. of Simultaneous Users SDHC/SD Memory Card (Option) Face Detection		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex	
Total Bit Rate Supported Protocol Piet TCP/Pi, UpPiP, HTTP, HTTPS, RITP, FISMITP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, Alphe 1 (TCP/Pi, UpPiP, HTTP, HTTPS, RITP, RITP				Level 1 only / Level 2 higher / All users	
IPv4: TCP/P, LDPIP, HTTP, HTTP, RTPS, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTF SMMP, LVPP, LGMP, LGMP, ARP FTP Client				64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited	
SNMP_UPP, (SMP, CMP, APP) FTP Client Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available					
FTP Client Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available Up to 14 users (Depends on network conditions) SDHC/SD Memory Card (Option) H264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC SDHC and Face Detection ON / OFF (with XML notification) Cellular Phone Compatibility Mobile Terminal Compatibility Mobile Terminal Compatibility Alarm Source Alarm Actions SDHC/SD memory acrd: 5,000 (ags. without SDHC/SD memory card: 1,000 (ag Schedule Alarm / WID / Access permission / H264 recording Forcibe black & white model(W-SW31 Monitor Output (for adjustment) Microphone/Line Input MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack Audio Output External I/O Terminals ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX COUT					
FIP transmission is failed, backup on an optional SDHC/SD memory card is available No. of Simultaneous Users Up to 14 users (Depends on network conditions) SDHC/SD Memory Gard (Option) H.284 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure compatible SD (SDHC) card *Pansonic 256 MB, 512MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 22 GB* mor *SDHC card Face Detection ON / OFF (with XML notification) Cellular Phone Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility JPEG image, AUX control (by access level) Mobile Terminal Compatibility IPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminal Alarm Actions 1 terminal input, VMD, Command alarm Alarm Actions Therminal input, VMD, Command alarm Alarm Log With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card indication on browser, FTP image transfer, Panasonic protocol output Minter Coutput (for adjustment) VBS: 1.0 V [p-p]/75.0, NTSC composite, RCA.lack VBS: 1.0 V [p-p]/75.0, PAL composi					
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SDHC/SD Memory Card (Option) H.264 recording: Manual REC (Pare)st) / Schedule REC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible S0 (SPHC) card: Pansanic 258 MB, 512MB, 1 GB, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB mod 'SDHC card Face Detection ON / OFF (with XML notification) Cellular Phone Compatibility Mobile Terminal Compatibility Pad, iPhone, iPod touch (iOS 4.2.1 or later) Android ¹ M mobile terminal Narm Alarm Source 1 terminal input, VMD, Command alarm Alarm Actions SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on browser, FTP image transfer, Panasonic protocol output Alarm Log Schedule Alarm (VMD / Access permison) H.264 recording/ Foroible black & white mode(WI-SWIS) Microphone/Line Input Microphone/Line Input Microphone/Line Input MIC IN and Line IN are selectable, e3.5 mm stereo mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ Audio Output External I/O Terminals H.246 NAPM INI, DAY/NIGHT IN, ALARIM OUT, ALARIM				Up to 14 users (Depends on network conditions)	
Compatible 8D SDHC) card: Panasonic 256 MB, 512MB, 1 GB, 2 GB, 4 GB', 8 GB', 16 GB', 32 GB' moc 'SDHC card Face Detection Cellular Phone Compatibility Mobile Terminal Compatibility Alarm Source 1 terminal input, VMD, Command alarm Alarm Actions SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on browser, FTP image transfer, Panasonic protocol output Alarm Log Schedule Alarm VMD / Access permission / H.264 recording/ Forcible black 8 white mode(W-SW31 Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone Zuby Voltage: 2.5 V ± 0.5 V Input impedance: approx. 2 kΩ Audio Output External I/O Terminals ALARM INI, DAY/NIGHT IN, ALARM OUT, ALAM OUT, AUX OUT				H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC	
Face Detection Cellular Phone Compatibility Description Cellular Phone Compatibility Mobile Terminal Compatibility Mobile Terminal Compatibility Mobile Terminal Compatibility IPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminal Alarm Source Alarm Actions SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on browser, FTP image transfer, Panasonic protocol output Indication on browser, FTP image transfer, Panasonic protocol output Alarm Log With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 log Schedule Alarm Log Schedule Alarm ViMD / Access permission / H.264 recording/ Forcible black & white mode(WV-SW31) Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone: Plug-in power type) Supply voltage: 2,5 V ±0,5 V Input impedance: approx. 2 kΩ Audio Output External I/O Terminals ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT					
Face Detection ON / OFF (with XML notification) Cellular Phone Compatibility					
Cellular Phone Compatibility JPEG image, AUX control (by access leve)					
Mobile Terminal Compatibility ⁷ iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminal Alarm Actions Alarm Actions Alarm Actions Alarm Actions Alarm Log Schedule Alarm Log Alarm (MD / Access permission / IL28/ recording/ Forcible black & white model(W)-SW31 Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone/Line Input Microphone Line Input Microphone Line Input Microphone Line Input Microphone Plug-in power type) Supply voltage: 2.5 y ±0.5 y Input impedance: approx. 2 kΩ Audio Output External I/O Terminals ALARM INI, DAY/NIGHT INI, ALARMIN OUT, AUX OUT					
Alarm Source 1 terminal input, VMD, Command alarm				iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals	
Indication on browser, FTP image transfer, Panasonic protocol output Alarm Log Schedule Alarm Moly Coses permission / 1264 recording / Forcible black & wither mode(W-SW31 Amput/ Output Moritor Output (for adjustment) Wish 10 (pp/150, NISC composite, RCA tack Vi85.10 Vip-y/150 pAt composite, RCA lack Microphoner/Line Input Wish 10 (pp/150, NISC composite, RCA tack) Wish 10 Vip-y/150 pAt composite, RCA lack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ± 0.5 V Input impedance: approx. 2 kΩ Audio Output External I/O Terminals ALARM INI, DAY/NIGHT INI, ALARM OUT, AUX OUT	Alarm	M Alarm Source Alarm Actions Alarm Log Schedule		1 terminal input, VMD, Command alarm	
Alarm Log With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 log					
Schedule Alarm / YMD / Access permission / H 284 recording/ Forcible black & white mode(WW-SW31					
Monitor Output Monitor Output (for adjustment) W85:10 //pp/750, NTSC composite, RCA Lack W85:10 //pp/750 PAL Composite, RCA Lack W85:10 //pp/750					
Microphone/Line Input MiC IN and Line IN are selectable. ø3.5 mm stereo mini jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ Audio Output Ø3.5 mm stereo mini jack impedance: approx. 2 kΩ 3.5 mm stereo mini jack output) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT					
(monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ Audio Output o3.5 mm sterce mini jack (monaural output) Line level External I/O Terminals ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT	nout/ O			иры. п. и пр-руто м, пить с composite, ноя јаск тивь: п. и V [p-p]//5 Q,PAL composite, RCA Jack	
Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ Audio Output o3.5 mm stereo mini jack (monaural output) Line level External I/O Terminals ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT	nput/ Output			MIC IN and Line IN are selectable as 5 mm stores mini :!	
Audio Output ø3.5 mm stereo mini jack (monaural output) Line level External I/O Terminals ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT	nput/ Output				
External I/O Terminals ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT	nput/ Output			(monaural input) (Applicable microphone: Plug-in power type)	
General Safety/EMC Standard UL (UL60950-1), FCC (Part15 ClassA), CE	nput/ Output	Microphone/	ine Input	(monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ± 0.5 V Input impedance: approx. 2 k Ω	
C-III (CAN/CSA C22 2 No 60950-1) (EN55022 Class R EN55024)		Audio Output	ine Input	(monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ o3.5 mm stereo mini jack (monaural output) Line level ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT	

C-UL (CAN/CSA C22.2 No.60950-1), (EN55022 ClassB, EN55024)

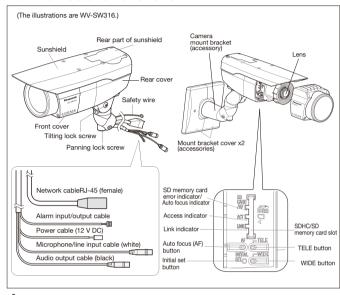
DOC (ICES003 ClassA)

TV System		NTSC	PAL
General	Power Source and Power Consumption	12 V DC: 850 mA	
		* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.	
		PoE (IEEE 802.3af compliant) 48 V: 200 mA	(Class 0 device)
	Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F to 122 °F)	
	Ambient Operating Humidity	90 % or less (without condensation)	
	Water and Dust Resistance	IP66, IEC60529 measuring standard co	ompatible
	Dimensions	94 mm (W) × 89 mm (H) × 226 mm (L)	(3-7/10" (W) × 3-1/2" (H) × 8-7/8" (L))
	Mass (approx.)	1.4 kg (3.09 lbs.)	
	Finish	Main body: Aluminum die cast/resi	n, metallic silver coating
		Front cover section clear part: Poly	carbonate resin

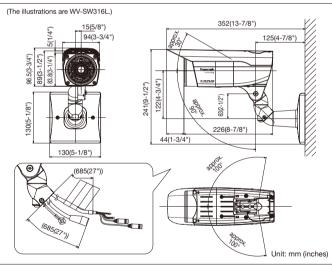
- | Front cover section clear part: Proycarbonate resin |
 11 For further information about PC system requirements and precautions for when using Microsoft Windows 7, Microsoft Windows Vista, or Windows Internet Explorer, click "Manual" "Open" from the supplied CD-ROM and refer to "Notes on Windows / Internet Explorer versions". For information on the camera models of the supported operating systems, refer to our website (http://panasonic.net/pss/security/support/index.html).
 2 When using IPv6 for communication, use 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. "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://panasonic.net/pss/security/support/info.html).

Part Names and Functions



Appearance



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 "Super Dynamic", "SDII", "SDIII", "SDIIII", "SDIII", "SDIII

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