Panasonic

Super Dynamic Weather Resistant Full HD PTZ Dome Network Camera WV-SW598



Full HD / 1,920 x1,080 H.264 Weather Proof Camera featuring Optical 30x zoom and Super Dynamic

Key Features

- 1080p HD images up to 30 fps
- 2.4 Megapixel high sensitivity MOS Sensor
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
 30x optical zoom
- 90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom. • **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.
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6
- VIQS (Variable Image Quality on Specified area) technology allows the designated 2 areas 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. VIQS can be set on preset position (1 to 8) and except preset.
- 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: Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter Indoor scene (50 Hz / 60 Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- 360 degrees endless Panning
- Advanced auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control. 256 speeds available for system with WV-CU950 system controller.
- Up to 256 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan / Tilt / Zoom mechanism for high reliability
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 32 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser

- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm 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.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Rain wash coat dome cover
- Ambient Operating Temperature : -50 °C ~ +55 °C (-58 °F ~ 131 °F)
- Fog and Sandstorm compensation
- AEM (Auto Eyelid Mechanism) offers images that are more natural and easy to watch reducing doubled images when direction of the lens moved above the horizontal.

Standard Accessories

Optional Accessory

Wall Mount Bracket	* This catalog is provided for all over the world.
WV-Q122A	Some accessories may not be available in some countries.

Specifications

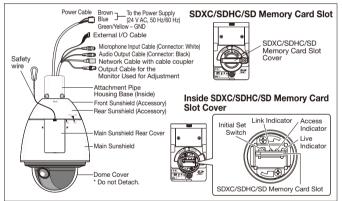
DISTRIBUTED BY:

Speci Camera	Imaga Car	nor	Approx.1/3 type MOS Sensor
Gamera	Image Sensor Effective Pixels		Approx. 73 type MOS Sensor Approx. 2.4 megapixel
	Scanning I		Progressive scan
	Scanning		5.38 mm (H) x 3.02 mm (V) {7/32 inches(H) x 1/8 inches(V)}
		Illumination	Color: 0.5 Ix, BW: 0.06 Ix (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High))
			Color: 0.03 lx, BW 0.004 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High))*
	White Balance Light Control Mode Shutter Speed		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s) Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s) Fix shutter Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,
	Super Dynamic		1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Off) ON / OFF
		er Dynamic	ON / OFF (Only at Super Dynamic: ON)
	Adaptive Black Stretch Fog compensation		ON / OFF (Only at Super Dynamic: OFF) ON / OFF
	AGC Electronic Sensitivity UP		ON (LOW, MID, HIGH) / OFF OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s)
	Day & Night (IR)		Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level:High / Low, with external control
	Digital Noise Reduction		High / Low
	Video Motion Detection Privacy Zone		4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones / Up to 32 zones, Gray / Mosaic
	Privacy Zone Image Stabilizer		ON / OFF
	VIQS		Up to 2 zones at preset position 1-8 and except preset
	Double Image Reduction		ON / OFF
	Camera Ti		Up to 20 characters (alphanumeric characters, marks)
	Focus dist		Limited / Unlimited
Lens	Focal Leng		4.3 mm ~129.0 mm, 30x
	Zoom Rati		30x / 90x with extra optical zoom (at 640x360)
		ectrical) Zoom	12x (Max. 1080x combined with extra optical zoom at 640x360)
	Angular Field of View		H: 2.6° (TELE) ~ 64.6° (WIDE) V: 1.6° (TELE) ~ 38.2° (WIDE)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) ~ 4.7 (TELE)
	Focusing Range		2.0 m ~ ∞
	Aperture F		F1.6 ~ Close
Pan and Tilt	Panning R		360° endless
	Panning S		Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller
		bood	Preset: up to approx. 300°/s
	Tilting Range		-15° ~ 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle: 0° / -5° / -10° / -15
	Tilting Speed		Manual: approx. $0.065^\circ\text{/s} \sim 120^\circ\text{/s},$ Up to 256 steps (depending on the controller Preset: up to approx. 300°/s
		al Pan/Tilt Control	Yes
	Number of Preset Positions		256
	Auto Mode		preset sequence / auto pan / auto track / patrol
	Image Hold		ON / OFF
	PTZ Position Display		ON / OFF
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min
Browser	Map Shot Camera C	ontrol	360° map shot / preset map shot Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,
GUI	Display Mode		Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad
	Camera Title		screens or 16 split screen (JPEG only). 20 characters camera title available Up to 20 alphanumeric characters
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)
	Alarm Control		Reset
	One Shot Capture		A still picture will be displayed on a newly opened window.
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High, Audio Output: ON / OFF Volume adjustment: Low / Middle / High
	SD Memor	y Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
			English / Italian / French / German / Spanish / Russian / Chinese / Japanese
	GUI/Setup Menu Language System Log		Up to 100 (Internal)
	Supported	05 *2 *3	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7,
	Supported OS *2 *3		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)
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector
Network	Image	Image Capture Mode:	H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
		2 mena nixel [16:9]	JPEG (MJPEG): 1 920 x 1 080 / 640 x 360 / 320 x 180 up to 30 fps
	Resolution	2 mega pixel [16:9] Image Capture Mode:	JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
		Image Capture Mode: 1.3 mega pixel [16:9]	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
	Resolution	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3]	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps
		Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode:	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps
	Resolution	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode	H.264 : 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264 : 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR
	Resolution	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps
	Resolution	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	H.264 : 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264 : 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps DPEG (MJPEG): 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
	Resolution	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality Image Quality	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps
	Resolution	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps DPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST
	Resolution	Image Capture Mode: 1.3 mega pixel [16.9] Image Capture Mode: 1.3 mega pixel [4.3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality Refresh Interval Transmission Type	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting,
	Resolution H.264 ^{*4} JPEG Audio Com	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality Refresh Interval Image Quality Refresh Interval Transmission Type pression P	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps DyPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR Constant bitrate / Frame rate priority / Best effort /Advanced VBR (A) 12 / 15 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection OFF //Mc (Line) input / Audio output / Interactive (Haif duplex) / Interactive (Full duplex)
	Resolution H.264 ^{*4} JPEG Audio Com Audio Mod Authenticat	Image Capture Mode: 1.3 maga pixel [16:9] Image Capture Mode: 1.3 maga pixel [4:3] Transmission Mode Frame Rate Bit Rate/Cilent Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e ion for Audio	H.264 : 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264 : 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps DPEG (MJPEG): 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 6 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PULL / PUSH 0.1 fps - 30 fps PULL / PUSH C/726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection OFF /Mic (Line) input / Audio output / Interactive (Full duplex) / Interactive (Full duplex / Audio and put / Interactive (Full duplex / In
	Resolution H.264 ^{*4} JPEG Audio Com	Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Agture Mode: Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type e ion for Audio te	H.264 : 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264 : 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA(640 × 480) / OVGA(320 × 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection OFF /Mic (Line) input / Audio output / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unimitee 1% TCP/PL/DMPI, HTTP, HTP, RTP, FTP, SHTP, PMS, NTP, SMP, DHCPA, GNP, ABI 1% TCP/PL, DUPIP, HTTP, HTTP, RTP, FTP, SHTP, PMS, PL, PCPA, GNP, ABI 1% TCP/PL, DUPIP, HTTP, HTTP, RTP, FTP, SHTP, PMS, PTP, CHCP, OKD, DMS
	Resolution H.264 ^{*4} JPEG Audio Com Audio Mod Authenticat	Image Capture Mode: 1.3 mega pixel [16.9] Image Capture Mode: 1.3 mega pixel [16.9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression e ion for Audio te Protocol	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps DFEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection OFF //lic (line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level / 10xl / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,128 kbps / Unlimitec 16% TCPI/P, UDP/R, HTTP, HTTP, RTP, FTP, SMP, DKNS, MNP, DMCP6, GL/MP, AM

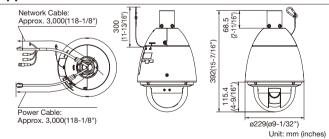
Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable): Manual REC / Alarm REC
	Memory Card (Option)	(Pre/Post) / Schedule REC
		JPEG recording: Manual REC / Alarm REC (Pre/Post) / Backup upon
		network failure Compatible
		SD (SDHC/SDXC) card: Panasonic
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Sound detection
Aldrin	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
	Additions	Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC / SDHC / SD memory card: 5,000 logs,
	Alann Log	
	Schedule	without SDXC / SDHC / SD memory card: 1,000 logs Alarm / VMD / Access permission / H.264 recording / Sound detection
Input/ Output	Monitor Output	VBS : 1.0V[p-p] / 75Ω,
	(for adjustment)	NTSC / PAL composite, BNC Jack
	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 (monaural output) Line level
	External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT
General	Safety/EMC Standard	<safety></safety>
		UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
		<emc></emc>
		FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024
	Power Source and	AC24 V : 3.5 A. 55 W
	Power Consumption	PoE+ : 470 mA, 25 W (IEEE802.3at compliant)
		POE Injector (60 W) : 1.0 A, 50 W
	Ambient Operating	AC24 V and Tested PoE Injector (60 W) : -50 °C ~ +55 °C (-58 °F ~ 131 °F) * with limitations
	Temperature	POE+ : -30°C ~ +55°C (-22 °F ~ 131 °F)
	Ambient Operating Humidity	Less than 90 % (no condensation)
	Impact Protection	IEC 62262:2002 IK10 (Impact energy 20J)
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible
	Dimensions	<pre>@229 mm x 392 mm(H) {@9-1/32 inches x 15-7/16 inches(H)}</pre>
	Dimensions	
		diameter of the dome 160 mm(6-5/16 inches)
	Mass (approx.)	Approx. 5.0 kg { 11.04 lbs}
	Finish	Main body : Aluminum die cast, Natural silver
		Sunshields : ASA resin coating, Natural silver
		Dome section : Clear polycarbonate resin

*1 Converted value *2 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system 2 Hefer 10 "Notes on Windows Visita" / Windows / / Windows® 0 on the provides Oct Yown on number minimum account system requirements for a PC and precautions when using Microsoft® Windows® 6 m Microsoft® Windows® 7 or Microsoft® Windows Visita®.
*3 When using IPv6 for communication, use Microsoft® Windows® 6 or Microsoft® Windows® 7 or Microsoft® Windows Visita®.
*4 Transmission for 2 streams can be individually set in the same compression method.

Part Names and Functions



Appearance



Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.

- UniPhier is a registered trademark of Panasonic Corporation. - "MEGA Super Dynamic", "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation. - ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- Important - 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.
 All product pictures are NTSC models.

Panasonic

http://panasonic.security.com

http://www.facebook.com/PanasonicNetworkCamera