# **Panasonic**

## Super Dynamic Weather Resistant HD PTZ Dome Network Camera

## **WV-SW397A**

(Rain Wash Coating Model)



## HD / 1,280 x 720 H.264 Weather Proof Camera featuring 45x HD extra optical zoom and Super Dynamic

#### **Key Features**

- 720p HD images up to 30 fps
- Super high resolution at HD / 1,280 x 720 created by 2.4 Megapixel high sensitivity MOS image 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
- 45x HD extra optical zoom at 1,280 x 720 (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 technology ensures clear face image.
- High sensitivity with Day/Night (ICR\*) function:
   0.3 lx (Color), 0.04 lx (B/W) at F1.6
   \*ICR: IR Cut filter Removal
- 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 "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 (H.264 / 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 / Portuguese / 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 compliant.
- Dehumidification device for use in various weather conditions
- Rain wash coating dome cover
- Ambient Operating Temperature : -50 °C to +55 °C (-58 °F to 131 °F)
- Fog compensation function equipped as standard.
- 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

• CD-ROM*11 pc.	The followings are for installation.
Installation Guide1 pc.	Protection Cover 1 pc.
• Code Label*21 pc.	• RJ45 connector 1 pc.
11 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs. 12 This label may be required for network management. The network administrator shall retain the code label.	8P Alarm Cable

#### Optional Accessories

Ceiling Mount Bracket

WV-Q121B



Wall Mount Bracket
WV-Q122A



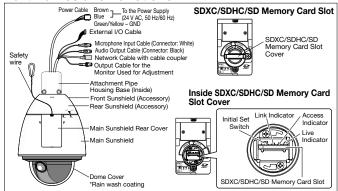
### Specifications

Alarm Control	Camera	Image Ser		Approx.1/3 type MOS image sensor
Scanning Area  Similary Minimal Illumination  Color 0.3 ks, BW (2008 Lpt (E), Abo sow whater. Of (16) (26) can Cytish) (2007 Color 0.3 ks, BW (2008 Lpt (E), Abo sow whater. Of (16) can Cytish (2007 Color 0.3 ks) (2007 Color 0.		Effective F	Pixels	
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Shutter Speed				
Super Dynamic    Super Dynamic   1,500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic On / Orl (File With Black Stretch On)   0n / Orl (File With Super Dynamic: On)   0n / Orl (File With Super Dynamic: On)   0n / Orl (File With Super Dynamic: Orl)   0n / Orl (Mile With Super Dynamic: Orl)   0n / Orl   0n / Orl (File With Super Dynamic: Orl)   0n / Orl   0n / Or				
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Digital Noise Reduction Video Motion Detection Video				
Video Motion Detection   Agrees, Sensitivity: 15 steps, Detection size: 10 steps   Privacy Zone   Up to 8 zones / Up to 32 zones, Gray / Mosaic   Up to 8 zones / Up to 8 zones   Gray / Mosaic   Up to 8 zones at preset position 1-8 and except preset   On / Off   Up to 20 characters (alphanumeric characters, marks)   Focus distance   Up to 20 characters (alphanumeric characters, marks)   Focus distance   Up to 20 characters (alphanumeric characters, marks)   Example   Up to 20 characters (alphanumeric characters, marks)   Zoom Ratio   Sox / 45x with HD extra optical zoom (at 1280 x 720)   Up 12 characters (alphanumeric characters, marks)   Zoom Ratio   Sox / 45x with HD extra optical zoom at 640 x 360)   Up 12 characters (alphanumeric characters, marks)   Zoom Ratio   Sox / 45x with HD extra optical zoom at 640 x 360)   Up 12 characters (alphanumeric characters, marks)   Zoom Ratio   Up 12 characters (alphanumeric characters, marks)   Zoom Ratio   Zoom Ratio   Zoom Characters (alphanumeric characters, marks)   Zoom Ratio   Zoom				
Privacy Zone Up to 8 zones / Up to 32 zones, Gray / Mosaic Image Stabilizer On / Off Privacy Zones (Fig. 2) (1974)				· ·
Image Stabilizer  On / Off  VIOS  Up to 2 zones at preset position 1-8 and except preset  On / Off  Carnera Title (OSD)  Procus distance  Limited / Unlimited  Focal Length  A 3 mm - 129.0 mm (3/16 inches - 5-3/32 inches)  Zoom Ratio  30x / 48x with HD extra optical zoom (at 1280 x 720)  Digital (Electrical) Zoom  Angular Field of Web. Hz. 6°, (FLE) = 4.6°, (WIDE), V : 1.6° (TELE) = 3.82°, (WIDE) (16:9) mm  Angular Field of Web. Hz. 6°, (FLE) = 4.6°, (WIDE), V : 1.6°, (TELE) = 3.82°, (WIDE) (16:9) mm  Maximum Aperture Ratio  11:6, (WIDE) - 4.7 (TELE) = 4.81°, (WIDE), V : 1.0°, (TELE) = 3.82°, (WIDE) (16:9) mm  Aperture Range  Panning Range  Aperture Range  Fi.6 - Close  Panning Speed  Manual: approx. 0.065° to 120°/s, Up to 256 steps (depending on the control Preset: up to approx. 300°/s  Tilting Range  -15° to 195° (upward-level-downward)  Auto Eyeld Mechanism (Double image reduction)  Selectable tilting angle: 0° / -5° / -10° / -15  Tilting Speed  Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s  Proportional Pan/filt Control  Auto Eyeld Mechanism (Double image reduction)  Selectable tilting angle: 0° / -5° / -10° / -15  Tilting Speed  Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s  Proportional Pan/filt Control  Auto Eyeld Mechanism (Double image reduction)  Selectable tilting angle: 0° / -5° / -10° / -15  Tilting Speed  Auto Mode  Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ Patrol Image Hold  Auto Mode  Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ Patrol Image Hold  Pr2 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 map shot/ Preset map shot  Camera Title  Up to 20 alphanument characters  Clock Display  Clock Display  Mode  Spot, Quad: Image from 16 cameras can be displayed in 4 different Questern of 16 spit screen (IPEG only). 20 characters camera title availe  Clock Display  Mode  Supported Browser  Windows® Internet Explore® 10 20 windows® 8, Microsoft® Windows® 8, Microsoft® Wind				
UCS Double Image Reduction Carnera Title (OSD) Focus distance Limited / Unlimited Focal Length Focal Length 1.3 mm - 129.0 mm (3/16 inches - 5-3/32 inches) 30x / 45x with 1D extra optical zoom (at 1280 x 720) Digital (ellectrical) Zoom Angular Field of View Line 1.2 6" (TIELE) - 46.6" (WIDE), V: 1.1" (TELE) - 38.2" (WIDE) ((16:9) mode) Maximum Aperture Ratio Focusing Range 2.0 m - ∞ Aperture Range Aperture Range Aperture Range Fi.6 - Close Panning				
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Focal Length   4.3 mm - 128.0 mm [3/16 inches - 5-3/32 inches]				
Zoom Ratio   30x / 45x with HD extra optical zoom (at 1280 x 720)				
Digital (Electrical) Zoom Angular Field of View H. 26. (**REL) = 48.2 (**RUDE), V: 1.16* (*REL) = 33.2 (*WDE) (16.9) mo H: 1.4" (*RELE) = 44.4" (WIDE), V: 1.10* (*RELE) = 33.8" (WIDE) ([4.3) mod H: 1.4" (*RELE) = 44.4" (WIDE), V: 1.10* (*RELE) = 33.8" (WIDE) ([4.3] mod H: 1.4" (*RELE) = 44.4" (WIDE), V: 1.10* (*RELE) = 33.8" (WIDE) ([4.3] mod Focusing Range 2.0 m ≈ Aperture Range Pan and Tilt Panning Range Panning Speed Marual: approx. 0.065% to 120%, Up to 256 steps (depending on the contro Preset: up to approx. 300% Tilting Range -15° to 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable titting angle: 0° / −5° / −10° / −15 Tilting Speed Manual: approx. 0.065% to 120%, Up to 256 steps (depending on the contro Preset: up to approx. 300% Proportional Pan/Tilt Control Selectable titting angle: 0° / −5° / −10° / −15 Tilting Speed Manual: approx. 0.065% to 120%, Up to 256 steps (depending on the contro Preset: up to approx. 300% Round Mechanism (Double image reduction) Selectable titting angle: 0° / −5° / −10° / −15 Tilting Speed Manual: approx. 0.065% to 120%, Up to 256 steps (depending on the contro Preset Position of 1980 Number of Preset Positions Auto Mode Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ 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 Map Shot 360° map shot / Preset map shot Camera Control Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris Preset position call and program, Auto mode Display Mode Spot, Quad: 'Image from 16 cameras can be displayed in 4 different Qu screens or 16 split screen (µFEG only), 20 characters can be displayed in 4 different Qu screens or 16 split screen (µFEG only), 20 characters can be displayed in 4 different Qu screens or 16 split screen (µFEG only), 20 characters can be displayed in 4 different Qu screens or 16 split screen (µFEG only), 20 characters can be displayed in 4 different Qu screens or 16 split	Lens			
Angular Field of View  H: 2.6" (TELE) - 84.6" (MIDE), V: 1.6" (TELE) - 38.2" (MIDE) (16:9) mot http://www.mid.com/mid.				
Hit 1.4" (TELE) - 4.4.7" (MIDE), V: 1.1" (TELE) - 33.8" (MIDE) ([4:3] mod.				
Maximum Aperture Ratio   1.1.6 (MIDE) - 4.7 (TELE)		Angular Fi	eiu OI VIEW	
Focusing Range F1.6 - Close Pan and Tit Panning Range F1.6 - Close Panning Speed Manuat: approx. 0.0659/s to 1207/s, Up to 256 steps (depending on the control Presst: up to approx. 3007/s Tilting Range — 1-5° to 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle: 0° / -5°/ -10° / -15 Tilting Speed Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 1207/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Nanuat: approx. 0.0657/s to 120°/s, Preset: up to approx. 300°/s Preset: approx. 0.0657/s to 120°/s, Up to 256 steps (depending on the control Nanuat: approx. 0.0657/s to 120°/s, Up to 20°/s Preset: approx. 0.0657/s to 120°/s, Up to 256 steps (depending on the control Nanuat: approx. 0.0657/s to 120°/s, Up to 20°/s Preset: approx. 0.0657/s to 120°/s, Up to 256 steps (depending on the control Nanuat: approx. 0.0657/s to 120°/s. Preset: up to 10°/s Nanuat: approx. 0.067/s Preset: approx. 0.0657/s to 120°/s. Preset: up to 10°/s Nanuat: approx. 0.067/s Preset: approx. 0.0657/s to 120°/s. Preset: up to approx. 0.00°/s Preset: approx. 0.0657/s to 120°/s. Preset: up to 10°/s Nanuat: approx. 0.067/s Preset: approx. 0.0657/s to 120°/s. Preset: approx. 0.067/s Pr		Mavi	Aporture Deti-	
Aperture Range				
Pan and Till Panning Range Panning Speed Manual: approx. 0.065'/s to 120'/s. Up to 256 steps (depending on the control Preset: up to approx. 300'/s  Titting Range  -15' to 195' (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable titting angle: 0° / -5' / -10° / -15  Titting Speed Manual: approx. 0.065'/s to 120'/s, Preset: up to approx. 300'/s  Proportional Pan/Tilt Control Number of Preset Positions 256 Auto Mode Image Hold On / Off PTZ Position Display On / Off PTZ Position Display On / Off Self Return 19 / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60  Map Shot 360' map shot / Preset map shot Camera Control Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris Preset position call and program, Auto mode  Display Mode Spot, Quad: Image firs or en Offect only, 20 characters camera title availate Camera Title Up to 20 alphanumeric characters Clock Display Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man Alarm Control Reset One Shot Capture Audio Alic (Line) Input: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low /				
Panning Speed   Manual: approx. 0.065% to 120%, Up to 266 steps (depending on the control Preset: up to approx. 300%   Tilting Range				
Preset: up to approx. 300"/s  -15" to 195" (upward-level-downward)  Auto Eyelid Mechanism (Double image reduction)  Selectable titting angle: 0" / -5" / -10" / -15  Titting Speed Manual: approx. 0.065"/s to 120"/s, Preset: up to approx. 300"/s  Proportional Pan/Titl Control Yes  Number of Preset Positions 256  Auto Mode Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ 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  Map Shot 360" map shot / Preset map shot  Browser  GUI  Browser  GUI  Display Mode Spot, Quad: Image fron 16 cameras can be displayed in 4 different Qu screens or 16 split screen (JPEG only). 20 characters camera title avails  Camera Title Up to 20 alphanumeric characters  Clock Display Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man  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 / H  Audio Mic (Line) Input: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  SD Memory Data Download Sill or motoln images recorded in the SDWcSDH/SD memory card can be download  GUI/Setup Menu Language  System Log Up to 100 (Internal)  Up to 4,000 (SDXCSDH/CSD memory when the recording formal is set to JPEG) enor:  Supported OS "2 Microsoft® Windows® 1.1 Microsoft® Windows® Internet Explorer® 10 (32 Windows® Internet Explorer® 17 (32 bit), Windows® Internet Explorer® 8(32 bit Windows® Internet Explorer® 17 (32 bit), Windows® Internet Explorer® 8(32 bit Windows® Internet Explorer® 17 (32 bit), Windows® Internet Explorer® 8(32 bit Windows® Internet Explorer® 17 (32 bit) Mindows® Internet Explorer® 18 (32 bit) Mindows® Internet Explorer® 18 (32 bit) Min	Pan and Tilt			
Titting Range		Panning Speed		
Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle: 0°/-5°/-10°/-15 Tilting Speed Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Proportional Pan/Tilt Control Number of Preset Positions 256 Auto Mode Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ Patrol Image Hold On / Off PTZ Position Display 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 Map Shot 360° map shot / Preset map shot Camera Control Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Qu screens or 16 split screen (JPEG only). 20 characters camera title availate Camera Title Up to 20 alphanumeric characters Clock Display Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man 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 / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment Exporer® (18 Stock) System Log Up to 100 (Internal) Up to 4,000 (SDXCSDHC/SD memory when the recording format is set to JPEG) enror Supported OS *2* Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 10 (32 Windows® Internet Explorer® 10, 32 Windows® 1, Microsoft® Windows®		Tiking Day		
Selectable tilting angle: 0° / -5°/ -10° / -15 Tilting Speed Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tilt Control Yes Number of Preset Positions   256 Auto Mode		Tilling Har	ige	
Titling Speed Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s Proportional Pan/Tit Control Ves Number of Preset Positions   256 Auto Mode				
Proportional Pan/Tilt Control Number of Preset Positions   Number of Preset Positions   Auto Mode		Tilting Co.	and .	
Number of Preset Positions   256				
Auto Mode   Auto track/ Auto pan/ Preset sequence/ 360 map-shot/ Patrol   Image Hold   On / Off   PTZ Position Display   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   Map Shot   360° map shot / Preset map shot   Camera Control   Pan/Tilit (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris   Preset position call and program, Auto mode   Spot, Quad: Image from 16 cameras can be displayed in 4 different Qu screens or 16 split screen (JPEG only). 20 characters camera tittle avails   Camera Title   Up to 20 alphanumeric characters   Clock Display   Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man 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 / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Audio Output : On / Off   Volume adjustment : Low / Middle / H   Volume a				
Image Hold				
PTZ Position Display  Self Return  10 s/20 s/30 s/1 min / 2 min / 3 min / 10 min / 10 min / 20 min / 30 min / 60  Map Shot  360° map shot / Preset map shot  Camera Control  Pan/Tilt (265 steps), Zoom, Focus, Click centering, Drag zoom, Iris Preset position call and program, Auto mode  Spot, Quad: Image from 16 cameras can be displayed in 4 different Ou screens or 16 split screen (JPEG only), 20 characters camera title availe  Camera Title  Up to 20 alphanumeric characters  Clock Display  Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man Alarm Control  Reset  One Shot Capture  Audio  Mic (Line) Input: On / Off  Volume adjustment: Low / Middle / H  Audio Output: On / Off  Volume adjustment: Low / Middle / H  Audio Output: On / Off  SD Memory Data Download  Sill or motion Images recorded in the SDX(SDHCS) memory and ane bedwins  GUI/Setup Menu Language  English / Italian / French / German / Spanish / Portuguese / Russia Chinese / Japanese  System Log  Up to 100 (Internal)  Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 10 (32 Windows® Internet Explorer® 17 (32 bit), Windows® Internet Explorer® 182 bit Windows® Intern				
Self Return    10 s / 20 s / 30 s / 1 min / 2 min / 5 min / 10 min / 20 min / 30 min / 60   Map Shot   360° map shot / Preset map shot				
Map Shot   360° map shot / Preset map shot   Preset map shot   Pan/Tilt (266 steps), Zoom, Focus, Click centering, Drag zoom, Init   Preset position call and program, Auto mode   Preset position   Preset position call and program, Auto mode   Preset position				
Camera Control   Pan/Tilt (265 steps), Zoom, Focus, Click centering, Drag zoom, Iris Preset position call and program, Auto mode   Spot, Quad: Image from 16 cameras can be displayed in 4 different Qu screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screen (JPEG only), 20 characters camera title availated to screens or 16 split screens (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated to screens (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated to screen (JPEG only), 20 characters camera title availated (JPEG only), 20 character				
Display Mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Qu screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screen or 16 split screen (JPEG only). 20 characters camera title availated to screen or 18 split screen (JPEG only). 20 characters camera title availated to screen or 18 split screen (JPEG only). 20 characters camera title availated to screen or 18 split spli	Browser		ontrol	
Display Mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Qu screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screens or 16 split screen (JPEG only). 20 characters camera title availated to screens of 16 split screens (JPEG only). 20 characters camera title availated to screens of 16 split screens (JPEG only). 20 characters camera title availated to screens of 16 split screens (JPEG only). 20 characters camera title availated to screens. 20 char		Sanicia Sonii oi		
Screens or 16 split screen (JPEG only). 20 characters camera title availate Camera Title  Clock Display  Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man 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 / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  Audio Mode  Authentication for Audio  Authentication for Audio Audio Audio Audio Audio		Display Me	ode	
Camera Title Up to 20 alphanumeric characters Clock Display Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man 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 / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H SD Memory Data Download GUl/Setup Menu Language English / Italian / French / German / Spanish / Portuguese / Russia Chinese / Japanese System Log Up to 100 (Internal) Up to 4,000 (SDXCSBHC/SD memory when the recording format is set to JPEG) emory Microsoft® Windows® 81, Microsoft® Windows® 8, Microsoft® Windows® Microsoft® Windows® 8, Microsoft® Windows® Microsoft® Windows® N SP3 Supported Browser Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 Windo		Diopiay mode		
Clock Display  Time: 12H/24H, Date: 5 formats on the browser, Summer time (Man 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 / H  Audio Output: On / Off Volume adjustment: Low / Middle / H  SD Memory Data Download  GUI/Setup Menu Language  English / Italian / French / German / Spanish / Portuguese / Russic Chinese / Japanese  System Log  Up to 100 (Internal)  Up to 4,000 (SDX/SSHC/SD memory when the recording format is set to JPEG) error  Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® Microsoft® Windows® Microsoft® Windows® Microsoft® Windows® Microsoft® Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® (32 bit), Windows® Internet Explorer® 8(32 bit) Windows® Internet Explorer® 7 (32 bit)  Network  Network IF  Network IF  10Base-T / 100Base-T X, RJ45 connector  Image Resolution  Network IF  10Base-T / 100Base-T X, RJ45 connector  Image Capture Mode:  4:3  JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps  Image Capture Mode:  4:3  JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps  Frame Rate  1/3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps  Image Quality  Low / Normal / Fine  Refresh Interval  10 steps  Refresh Interval  10 steps  Refresh Interval  Audio Compression  Audio Mode  Authentication for Audio  Level 1 only / Level 2 higher / All users		Camera Ti	tle	
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 / H Audio Output: On / Off Volume adjustment: Low / Middle / H SD Memory Data Download Still or motion Images recorded in the SDXC/SDHC/SD memory card can be download GUI/Setup Menu Language English / Italian / French / German / Spanish / Portuguese / Russie Chinese / Japanese System Log Up to 100 (Internal)		Clock Disp	olay	Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua
Audio Mic (Line) Input: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H Audio Output: On / Off Volume adjustment: Low / Middle / H SD Memory Data Download Sill or motion Images recorded in the SDXC/SDHC/SD memory and an be download GUI/Setup Menu Language English / Italian / French / German / Spanish / Portuguese / Russia Chinese / Japanese System Log Up to 100 (Internal) Up to 100 (Internal) Up to 100 (SDXC/SDHC/SD memory when the recording format is set to JPEG, error Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 8 x SPS3 Supported Browser Windows® Internet Explore® 11 (32 bit), Windows® Internet Explore® 10 (32 Windows® Internet Explore® 9 (32 bit), Windows® Internet Explore® 8(32 bit) Windows® Internet Explore® 7 (32 bit) Network IF 10Base=T7 / 100Base=T7, R, BJ45 connector Image Resolution Image Capture Mode: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps Image Capture Mode: 1,264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps Image Capture Mode: 1,264 : 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,280 x 180 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 JPEG (MJPEG): 1,28		Alarm Con	itrol	Reset
Audio Output : On / Off				A still picture will be displayed on a newly opened window.
SD Memory Data Download   Still or motion Images recorded in the SDXC/SDHC/SD memory card can be download GUI/Setup Menu Language   English / Italian / French / German / Spanish / Portuguese / Russic Chinese / Japanese   System Log				Mic (Line) Input: On / Off Volume adjustment : Low / Middle / Hig
SD Memory Data Download   Still or motion Images recorded in the SDXC/SDHC/SD memory card can be download GUI/Setup Menu Language   English / Italian / French / German / Spanish / Portuguese / Russic Chinese / Japanese   System Log				
System Log		SD Memory Data Download		
Chinese / Japanese		GUI/Setup Menu Language		English / Italian / French / German / Spanish / Portuguese / Russian
System Log				
Up to 4,000 (SDXCSDHC/SD memory when the recording format is set to LPEG) error.				
Microsoft® Windows Vista®, Microsoft® Windows® XP SP3				Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log
Supported Browser		Supported OS *2		Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7
Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8(32 bit)				
Mindows® Internet Explore** 7 (32 bit)		Supported	Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 b
Network   F     10Base-T / 100Base-TX, RJ45 connector				Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8(32 bit),
Image   Image Capture Mode:   H.264   : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps				
Resolution   16:9	Network	Network IF		
Resolution   16:9				
4.3		Resolution		JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
4.3			Image Capture Mode:	H.264 : 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 f
H.264 '4   Transmission Mode   Constant bitrate / Frame rate priority / Best effort /Advanced VBR				JPEG (MJPEG): 1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240, up to 30 f
Frame Rate		H.264 *4		Constant bitrate / Frame rate priority / Best effort /Advanced VBR
Bit Rate/Client   64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 kbps   Image Quality   Low / Normal/ Fine   Refresh Interval   0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s   Transmission Type   Unicast / Multicast   Image Quality   0.1 fps to 30 fps   Refresh Interval   0.1 fps to 30 fps   Transmission Type   Pull / Push   Audio Compression   G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC"3   Audio Mode   Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full du Authentication for Audio   Level 1 only / Level 2 higher / All users				
A,096 / 6,144 / 8,192 kbps			Bit Rate/Client	
Image Quality   Low / Normal / Fine   Refresh Interval   0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s   Transmission Type   Unicast / Multicast   Unicast /				
Transmission Type   Unicast / Multicast				Low / Normal / Fine
Image Quality   10 steps   Refresh Interval   0.1 fps to 30 fps   Transmission Type   Pull / Push				
Refresh Interval   0.1 fps to 30 fps   Transmission Type   Pull / Push   Audio Compression   G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC <sup>*3</sup>   Audio Mode   Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full du Authentication for Audio   Level 1 only / Level 2 higher / All users				Unicast / Multicast
Transmission Type Pull / Push  Audio Compression G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC'3  Audio Mode Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full du  Authentication for Audio Level 1 only / Level 2 higher / All users		JPEG		
Audio Compression G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC*3  Audio Mode Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full du Authentication for Audio Level 1 only / Level 2 higher / All users				
Audio Mode Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full du Authentication for Audio Level 1 only / Level 2 higher / All users				
Audio Mode Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full du Authentication for Audio Level 1 only / Level 2 higher / All users		Audio Compression		
Authentication for Audio Level 1 only / Level 2 higher / All users		Audio Mode		Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duple
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlim		Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite
Supported Protocol IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTF				IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP				
				IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP,
				SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, AR
FTP Client Alarm image transmission, FTP periodic transmission		FTP Client		
(When the FTP transmission is failed, backup on an				
optional SDXC/SDHC/SD memory card is available.)		Maximum concurrent access number		optional SDXC/SDHC/SD memory card is available.)

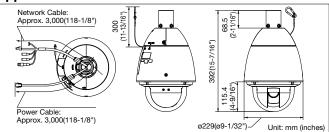
Maximum concurrent access number Up to 14 users (Depends on network conditions)

Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable): Manual REC / Alarm REC (Pre/Post) /
	Memory Card (Option)	Schedule REC / Backup upon network failure
		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** mode
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image, panning/tilting/zoom/focus control, AUX control (by access level)
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC / SDHC / SD memory card: 5,000 logs,
		without SDXC / SDHC / SD memory card: 1,000 logs
	Schedule	Alarm / VMD / Access permission / H.264 recording / Audio detection
Input/	Monitor Output	VBS : 1.0V[p-p] / 75Ω,
Output	(for adjustment)	NTSC / PAL composite, BNC Jack
Microphone/Line Input  Audio Output	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>
aonora.		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+ DC54 V: 470 mA, 25 W (IEEE802,3at compliant)
		POE Injector (60 W) DC54 V : 1.0 A. 50 W
	Ambient Operating	AC24 V and Tested PoE Injector (60 W): -50 °C to +55 °C (-58 °F to 131 °F) * with limitation:
	Temperature	POE+ : -30°C to +55°C (-22 °F to 131 °F)
	Ambient Operating Humidity	
	Shock Resistance	Compliant with IK10 (IEC62262)
	Water and Dust Resistance	Main body : IP66 (IEC60529) compliant
	Dimensions	ø229 mm x 392 mm(H) {ø9-1/32 inches x 15-7/16 inches(H)}
		diameter of the dome 160 mm(6-5/16 inches)
	Mass (approx.)	Approx. 5.0 kg { 11.02 lbs}
	Finish	Main body : Aluminum die cast, Natural silver
	1	Sunshields : ASA resin coating, Natural silver
		Dome section : Clear polycarbonate resin (Rain wash coating)
		Dome section. Clear polycarbonate resit (nam wash coating)

#### **Part Names and Functions**



#### **Appearance**



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   WIEGA Super Dynamic, "i-PPO Smarth

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions 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.

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<sup>1</sup> Converted value
2 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8.1, 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".
3 AAC (Advanced Audio Coding) is only used when recording audio on an SD memory card.
4 Transmission for 2 streams can be individually set.