Panasonic

Surveillance and Monitoring Systems Lineup

January 2014

DISTRIBUTED BY:

Panasonic

Network Products

Analog Products

Lenses

SR SUPERIOR REALITY

New Technology for Analog products

New "**S**uperior **R**eality" processor realizes much high efficiency, such as high resolution, color reproducibility, high sensitivity, lens distortion, auto tracking (PTZ camera only), scene change detection (fixed camera only), auto image stabilizer.

Feature names

|			
SD ENHANCED Super Dynamic — ENHANCED Super Dynamic	VIQS — 2 or more areas VIQS (Variable Image Quality on Specified area)	H.264, MPEG-4 JPEG — H.264, MPEG-4 and JPEG supported	H.264 JPEG — H.264 and JPEG supported
FULL HD 1080/60p — Full High Definition 1080 / 60p	FULL HD 1080 — Full High Definition 1080 / 30p	HD 720/60p — High Definition 720 / 60p	HD 720 — High Definition 720 / 30p
day/night IR removable — Day&Night (IR)	day/night — Day&Night(Electrical)	Vandal Resistant — Vandal Resistant	RAIN WASH COATING — Rain Wash Coating
NO HUMIDICATION — Dehumidifier	IR LED — IR LED Equipped	Advanced Auto Tracking — Advanced Auto Tracking	Privacy Mode — Privacy Mode
i-VMD — Intelligent-Video Motion Detection	Auto Back Focus — Auto Back Focus	Body Sensor — Body Heat Sensor	Wireless — Wireless Communication
Face Matching — Face Matching	IP55 standard — Water and Dust Resistance: IP55	IP66 standard — Water and Dust Resistance: IP66	
90x EXTRA OPTICAL ZOOM — 90x Extra Optical Zoom	72x EXTRA OPTICAL ZOOM — 72x Extra Optical Zoom	36x EXTRA OPTICAL ZOOM — 36x Extra Optical Zoom	36x OPTICAL ZOOM — 36x Optical Zoom

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PTZ Dome Network Cameras

Super Dynamic Weather Resistant Full HD
PTZ Dome Network Camera

WV-SW598
(24 V AC or PoE Plus)

VIQS · FULL HD 1080 · H.264 JPEG · 90x EXTRA OPTICAL ZOOM · IP66 standard

- 1080p HD images up to 30 fps
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6
- *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.
- **30x optical zoom**
  90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom.
- **360 degrees endless Panning**
- Advanced auto tracking
- Dehumidification device for use in various weather conditions
- **Rain wash coating dome cover**
- Smart phone Monitoring
- Onvif compliant model
- SDXC/SDHC/SD Memory card slot
- Fog and sandstorm compensation

Optional Accessories
Wall Mount Bracket
WV-Q122/ WV-Q122A
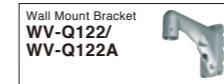
Super Dynamic Weather Resistant HD
Dome Network Camera

WV-SW396
WV-SW396A (Rain Wash Coating Model)
(24 V AC or PoE Plus)

H.264 MPEG-4 JPEG · HD 720 · Vandal Resistant · RAIN WASH COATING (WV-SW396A) · Advanced Auto Tracking · 72x EXTRA OPTICAL ZOOM · IP66 standard

WV-SW396   WV-SW396A

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity with Day/Night function : 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (Wide)
- *Super Dynamic* 128x wider dynamic range
- *Face Super Dynamic* technology ensures clear face image.
- **36x optical zoom** with 12x digital zoom enabling 432x zoom.
  72x extra optical zoom at VGA resolution with 12x digital zoom enabling 864x zoom.
- **360 degrees endless Panning**
- Advanced auto tracking
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at (does not support IEEEB802.3af)
- Dehumidification device for use in various weather conditions
- **Rain wash coating dome cover(WV-SW396A)**
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories
Wall Mount Bracket
WV-Q122/ WV-Q122A
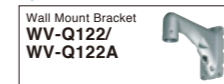
Super Dynamic Weather Resistant HD
Dome Network Camera

WV-SW395
WV-SW395A (Rain Wash Coating Model)
(24 V AC or PoE Plus)

H.264 MPEG-4 JPEG · HD 720 · day/night IR removable · Vandal Resistant · RAIN WASH COATING (WV-SW395A) · NO HUMIDICATION · Advanced Auto Tracking · 36x EXTRA OPTICAL ZOOM · IP66 standard

WV-SW395   WV-SW395A

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.5 lx (Color), 0.06 lx (B/W) at F1.6 (Wide) / 0.031 lx (Color), 0.004 lx (B/W) at F1.6 (Wide) with Sens Up 16x
- *Super Dynamic* 128x wider dynamic range
- *Face Super Dynamic* technology ensures clear face image.
- **18x optical zoom** with 12x digital zoom enabling 216x zoom.
  36x extra optical zoom at VGA resolution with 12x digital zoom enabling 432x zoom.
- Panning with auto flip function can be performed 0 to 360 degrees
- Auto tracking
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at (does not support IEEE 802.3af)
- Dehumidification device for use in various weather conditions
- **Rain wash coating dome cover(WV-SW395A)**
- Smart phone Monitoring
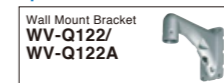- Onvif compliant model

Optional Accessories
Wall Mount Bracket
WV-Q122/ WV-Q122A

PTZ Dome Network Cameras

Super Dynamic Full HD
PTZ Dome Network Camera
WV-SC588
(12 V DC or PoE)

- 1080p HD images up to 30 fps
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- High sensitivity with Day & Night (IR) function:0.5 lx (Color), 0.06 lx (B/W) at F1.6
- *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.
- **30x optical zoom**
  90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom.
- **360 degrees endless Panning**
- Advanced auto tracking
- Smart phone Monitoring
- Onvif compliant model
- SDXC/SDHC/SD Memory card slot
- Fog and sandstorm compensation

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q126A	Wall Mount Bracket WV-Q119	Ceiling Mount Bracket WV-Q105A	Smoke Dome Cover WV-CS5S	Clear Dome Cover WV-CS5C

Super Dynamic HD
Dome Network Camera
WV-SC386
(12V DC or PoE)

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity with Day/Night function : 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (Wide)
- *Super Dynamic* 128x wider dynamic range
- *Face Super Dynamic* technology ensures clear face image.
- **36x optical zoom** with 12x digital zoom enabling 432x zoom. 72x extra optical zoom at VGA resolution with 12x digital zoom enabling 864x zoom.
- **360 degrees endless Panning**
- Advanced auto tracking
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories

Ceiling Mount Bracket WV-Q105A	Embedded Ceiling Mount Bracket WV-Q126/WV-Q126A	Wall Mount Bracket WV-Q118A/WV-Q118B	Smoke Dome Cover WV-CS4S/WV-CS4SA

Super Dynamic HD
Dome Network Camera
WV-SC385
(12 V DC or PoE)

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.5 lx (Color), 0.06 lx (B/W) at F1.6 (Wide) / 0.031 lx (Color), 0.004 lx (B/W) at F1.6 (Wide) with Sens Up 16x
- *Super Dynamic* 128x wider dynamic range
- *Face Super Dynamic* technology ensures clear face image.
- 18x optical zoom with 12x digital zoom enabling 216x zoom. 36x extra optical zoom at VGA resolution with 12x digital zoom enabling 432x zoom.
- Panning with auto flip function can be performed 0 to 360 degrees
- Auto tracking
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring
- Desktop/Ceiling position choice and various optional brackets for versatile installations
- Onvif compliant model

Optional Accessories

Ceiling Mount Bracket WV-Q105A	Inner Dome Cover WV-Q157	Wall Mount Brackets WV-Q154C(Clear)/WV-Q154S(Smoke)	Embedded Ceiling Mount Brackets WV-Q155C(Clear)/WV-Q155S(Smoke)	Surface Ceiling Mount Brackets WV-Q156C(Clear)/WV-Q156S(Smoke)
		(Smoke Type)	(Smoke Type)	(Smoke Type)

HD Dome Network Camera
WV-SC384
(12 V DC or PoE)

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.6 lx (Color), 0.5 lx (B/W) at F1.6 (Wide) / 0.038 lx (Color), 0.031 lx (B/W) at F1.6 (Wide) with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- 18x optical zoom with 8x digital zoom enabling 144x zoom. 36x extra optical zoom at VGA resolution with 8x digital zoom enabling 288x zoom.
- Panning with auto flip function can be performed 0 to 360 degrees
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories

Ceiling Mount Bracket WV-Q105A	Inner Dome Cover WV-Q157	Wall Mount Brackets WV-Q154C(Clear)/WV-Q154S(Smoke)	Embedded Ceiling Mount Brackets WV-Q155C(Clear)/WV-Q155S(Smoke)	Surface Ceiling Mount Brackets WV-Q156C(Clear)/WV-Q156S(Smoke)
		(Smoke Type)	(Smoke Type)	(Smoke Type)

Fixed Dome Network Cameras

Super Dynamic Full HD Vandal Resistant &Waterproof Dome Network Camera
WV-SFV631L Launches in January 2014
(12 V DC or PoE)

- **1080p** Full HD images up to **60 fps**
- Approximate 1/3 inches, high sensitivity MOS Sensor
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Maximum Screen Size is 2,048 x 1,536* @30fps, H.264
  * Used by super resolution techniques
- *Enhanced Super Dynamic* and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night (IR) function: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
- **IR LED** equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- **Fog compensation function** equipped as standard.
- **Double SDXC/SDHC/SD Memory card slots**
- Onvif compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Vandal resistant mechanism for high reliability

Optional Accessories

Ceiling Mount Bracket WV-Q169A	
Dome Cover WV-CW7S	Extended Sun Shade WV-Q7118

Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camera
WV-SFV611L Launches in January 2014
(12 V DC or PoE)

- **720p** HD images up to **60 fps**
- Approximate 1/3 inches, high sensitivity MOS Sensor
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- *Enhanced Super Dynamic* and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- **IR LED** equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- **Fog compensation** equipped as standard.
- **Double SDXC/SDHC/SD Memory card slots**
- Onvif compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Vandal resistant mechanism for high reliability

Optional Accessories

Ceiling Mount Bracket WV-Q169A	
Dome Cover WV-CW7S	Extended Sun Shade WV-Q7118

Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-SW559
(12 V DC or PoE)

- 1080p Full HD images up to 30 fps and 360p image up to 30 fps simultaneously.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and *2 areas VIQS* (Variable Image Quality on Specified area) function can decrease network bandwidth.
- *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.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (IR) function:0.5 lx (Color), 0.06 lx (B/W) at F1.3
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- Smart phone Monitoring
- Onvif compliant model
- Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169 WV-Q169/V	Smoke Dome Cover WV-CW4S/WV-CW4SA

Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-SW558
(12 V DC or PoE)

- 1080p Full HD images up to 30 fps and 360p image up to 30fps simultaneously.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and *2 areas VIQS* (Variable Image Quality on Specified area) function can decrease network bandwidth.
- *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.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169 WV-Q169/V	Smoke Dome Cover WV-CW4S/WV-CW4SA

Super Dynamic HD Vandal Resistant Dome Network Camera
WV-SW355
(12 V DC or PoE)

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor
- High sensitivity: 0.3 lx (Color), 0.05 lx (B/W) at F1.6 (Wide) / 0.019 lx(Color),0.003 lx (B/W) at F1.6 (Wide) with Sens Up 16x
- *Super Dynamic* 128x wider dynamic range
- *Face Super Dynamic* technology ensures clear face image
- Up to 7.2x extra optical zoom at VGA resolution
- 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.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169 WV-Q169/V	Smoke Dome Cover WV-CW4S/WV-CW4SA	Heater Unit WV-SW3H/WV-SW3HA

Super Dynamic Vandal Resistant Dome Network Camera
WV-SW352
(12 V DC or PoE)

- Super high resolution at SVGA/800 x 600 created by newly developed 1.3 Megapixel high sensitivity MOS Sensor
- High sensitivity: 0.2 lx (Color), 0.04 lx (B/W) at F1.6 (Wide) / 0.013 lx(Color), 0.002 lx (B/W) at F1.6 (Wide) with Sens Up 16x
- *Super Dynamic* 128x wider dynamic range
- *Face Super Dynamic* technology ensures clear face image
- Up to 7.2x extra optical zoom at VGA resolution
- 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.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169 WV-Q169/V	Smoke Dome Cover WV-CW4S/WV-CW4SA	Heater Unit WV-SW3H/WV-SW3HA

Fixed Dome Network Cameras

Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-SW158
(PoE)

VIQS · FULL HD 1080 · H.264 · JPEG · IP66 standard

- **1080p** HD images up to 30 fps
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- High sensitivity with Day & Night (Electrical) function:1.2 lx (Color), 0.9 lx (B/W) at F2.2
- **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.
- 3x extra zoom at 640 x 360 resolution
- Vandal resistant mechanism for high reliability
- Low profile design for discrete installation
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 100 °, Vertical: 81 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
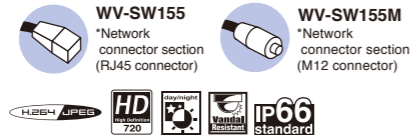- Onvif compliant model

Optional Accessory
Smoke Dome Cover
WV-CW6SA

Super Dynamic HD Vandal Resistant Dome Network Camera
WV-SW155 / SW155M
(PoE)

WV-SW155 *Network connector section (RJ45 connector)

WV-SW155M *Network connector section (M12 connector)

H.264 · JPEG · HD 720 · IP66 standard

- **720p** HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity with Day & Night (Electrical) function: 0.8 lx (Color), 0.6 lx (B/W) at F2.2
- **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.
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet IEEE 802.3at
- Vandal resistant mechanism for high reliability
- Low profile design for discrete installation
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Onvif compliant model

Optional Accessory
Smoke Dome Cover
WV-CW6S/ WV-CW6SA

Super Dynamic Vandal Resistant Dome Network Camera
WV-SW152 / SW152M
(PoE)

WV-SW152 *Network connector section (RJ45 connector)

WV-SW152M *Network connector section (M12 connector)

H.264 · JPEG · Vandal Resistant · IP66 standard

- Super high resolution at SVGA/800 x 600 created by 1.3 Megapixel high sensitivity MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size
- High sensitivity with Day & Night (Electrical) function: 0.6 lx (Color), 0.4 lx (B/W) at F2.2
- **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.
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet IEEE 802.3at
- Vandal resistant mechanism for high reliability
- Low profile design for discrete installation
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Onvif compliant model

Optional Accessory
Smoke Dome Cover
WV-CW6S/ WV-CW6SA

Super Dynamic HD Vandal Resistant Wall Mount Network Camera
WV-SW115
(PoE)

H.264 · JPEG · HD 720 · IP66 standard

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- High resolution recording by "UniPhier®"
- 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.
- 2x extra zoom at VGA resolution

- Supports Power over Ethernet IEEE 802.3at
- Vandal resistant mechanism for high reliability
- Low profile design for discrete installation
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Onvif compliant model

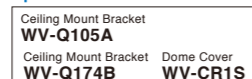### Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-SF549
(12 V DC or PoE)

VIQS · H.264 · JPEG · FULL HD 1080 · Vandal Resistant

- 1080p Full HD images up to 30 fps and 360p image up to 30fps simultaneously.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- **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.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.3
- Vandal resistant mechanism for high reliability
- Smart phone Monitoring
- Onvif compliant model
- Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot

Optional Accessory
Ceiling Mount Bracket
WV-Q105A
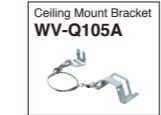
Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-SF548
(12 V DC or PoE)

VIQS · H.264 · JPEG · FULL HD 1080 · Vandal Resistant

- 1080p Full HD images up to 30 fps and 360p image up to 30fps simultaneously.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- **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.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (IR) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3
- Vandal resistant mechanism for high reliability
- Smart phone Monitoring
- Onvif compliant model

Optional Accessory
Ceiling Mount Bracket
WV-Q105A

HD Vandal Resistant Dome Network Camera
WV-SF346
(12 V DC or PoE)

H.264 · MPEG-4 · JPEG · HD 720 · Vandal Resistant · Auto Back Focus

- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide) / 0.019 lx (Color), 0.013 lx (B/W) at F1.3 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- ABF (Auto Back Focus) ensures easy installation and stable focus in both color and B/W modes.
- Smart phone Monitoring

Optional Accessory
Ceiling Mount Bracket
WV-Q105A
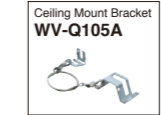
Vandal Resistant Dome Network Camera
WV-SF342
(12 V DC or PoE)

H.264 · MPEG-4 · JPEG · Vandal Resistant

- Super high resolution at SVGA/800 x 600 created by newly developed 1.3 Megapixel high sensitivity MOS Sensor
- Full frame (Up to 30 fps) transmission at SVGA/800 x 600 image size
- High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.3 (Wide) / 0.013 lx (Color), 0.009 lx (B/W) at F1.3 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

Optional Accessory
Ceiling Mount Bracket
WV-Q105A

Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-SFR631L **Launches in February 2014**
(12 V DC or PoE)

SD · ENHANCED Super Dynamic · VIQS · H.264 · JPEG · FULL HD 1080/60p · Day/Night IR · Vandal Resistant · IR LED · Auto Back Focus

- **1080p** Full HD images up to **60 fps**
- Approximate 1/3 inches, high sensitivity MOS Sensor
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Maximum Screen Size is 2,048 x 1,536* @30fps, H.264 * Used by super resolution techniques
- **Enhanced Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night (IR) function:0.04 lx (Color), 0.01 lx (B/W) at F1.3
- **IR LED** equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- **Fog compensation function** equipped as standard.
- **Double SDXC/SDHC/SD Memory card slots**
- Onvif compliant model
- Vandal resistant mechanism for high reliability
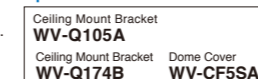
Optional Accessories
Ceiling Mount Bracket
WV-Q105A
Ceiling Mount Bracket **WV-Q174B** Dome Cover **WV-CR1S**

Super Dynamic HD Vandal Resistant Dome Network Camera
WV-SFR611L **Launches in February 2014**
(12 V DC or PoE)

SD · ENHANCED Super Dynamic · VIQS · H.264 · JPEG · HD 720/60p · Day/Night IR · Vandal Resistant · IR LED · Auto Back Focus

- **720p** HD images up to **60 fps**
- Approximate 1/3 inches, high sensitivity MOS Sensor
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- **Enhanced Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night (IR) function: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- **Fog compensation function** equipped as standard.
- **Double SDXC/SDHC/SD Memory card slots**
- Onvif compliant model
- Vandal resistant mechanism for high reliability

Optional Accessories
Ceiling Mount Bracket
WV-Q105A
Ceiling Mount Bracket **WV-Q174B** Dome Cover **WV-CR1S**

Super Dynamic Full HD Dome Network Camera
WV-SFN631L **Launches in February 2014**
(12 V DC or PoE)

SD · ENHANCED Super Dynamic · VIQS · H.264 · JPEG · FULL HD 1080/60p · Day/Night IR · IR LED · Auto Back Focus

- **1080p** Full HD images up to **60 fps**
- Approximate 1/3 inches, high sensitivity MOS Sensor
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Maximum Screen Size is 2,048 x 1,536* @30fps, H.264 * Used by super resolution techniques
- **Enhanced Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night (IR) function:0.04 lx (Color), 0.01 lx (B/W) at F1.3
- **IR LED** equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- **Fog compensation function** equipped as standard.
- **Double SDXC/SDHC/SD Memory card slots**
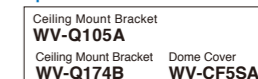- Onvif compliant model

Optional Accessories
Ceiling Mount Bracket
WV-Q105A
Ceiling Mount Bracket **WV-Q174B** Dome Cover **WV-CF5SA**

Super Dynamic HD Dome Network Camera
WV-SFN611L **Launches in February 2014**
(12 V DC or PoE)

SD · ENHANCED Super Dynamic · VIQS · H.264 · JPEG · HD 720/60p · Day/Night IR · IR LED · Auto Back Focus

- **720p** HD images up to **60 fps**
- Approximate 1/3 inches, high sensitivity MOS Sensor
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- **Enhanced Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver **133 dB** wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night (IR) function:0.01 lx (Color), 0.003 lx (B/W) at F1.3
- **IR LED** equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- **IR LED** is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- **ABF (Auto Back Focus) and Motorized Zoom** ensures easy installation.
- **Fog compensation function** equipped as standard.
- **Double SDXC/SDHC/SD Memory card slots**
- Onvif compliant model

Optional Accessories
Ceiling Mount Bracket
WV-Q105A
Ceiling Mount Bracket **WV-Q174B** Dome Cover **WV-CF5SA**

Fixed Dome Network Cameras

Super Dynamic Full HD
Dome Network Camera
WV-SF539
(12 V DC or PoE)

VIQS

Onvif S

- 1080p Full HD images up to 30 fps and 360p image up to 30 fps simultaneously.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- **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.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (IR) function:0.5 lx (Color), 0.06 lx (B/W) at F1.3
- Smart phone Monitoring
- Onvif compliant model
- Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot

Optional Accessories

Embedded Ceiling Mount Bracket (Sail white) WV-Q174/ WV-Q174A	Embedded Ceiling Mount Bracket(AV-light gray) WV-Q168/ WV-Q168/V	Smoke Dome Cover WV-CF5S	Ceiling Mount Bracket WV-Q105A
	* Different from the color of the camera.		

Super Dynamic Full HD
Dome Network Camera
WV-SF538
(12 V DC or PoE)

VIQS

Onvif S

- 1080p Full HD images up to 30 fps and 360p image up to 30 fps simultaneously.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- **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.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3
- Smart phone Monitoring
- Onvif compliant model

Optional Accessories

Embedded Ceiling Mount Bracket (Sail white) WV-Q174/ WV-Q174A	Embedded Ceiling Mount Bracket(AV-light gray) WV-Q168/ WV-Q168/V	Smoke Dome Cover WV-CF5S	Ceiling Mount Bracket WV-Q105A
	* Different from the color of the camera.		

HD Dome Network Camera
WV-SF336
(12 V DC or PoE)

Onvif S

- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide) / 0.019 lx (Color), 0.013 lx (B/W) at F1.3 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- ABF (Auto Back Focus) ensures easy installation
- Smart phone Monitoring

Optional Accessories

Embedded Ceiling Mount Bracket (Sail white) WV-Q174/ WV-Q174A	Embedded Ceiling Mount Bracket(AV-light gray) WV-Q168/ WV-Q168/V	Smoke Dome Cover WV-CF5S	Ceiling Mount Bracket WV-Q105A
	* Different from the color of the camera.		

HD Dome Network Camera
WV-SF335
(12 V DC or PoE)

Onvif S

- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide) / 0.019 lx (Color), 0.013 lx (B/W) at F1.3 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

Optional Accessories

| Embedded Ceiling Mount Bracket (Sail white) WV-Q174/ WV-Q174A	Embedded Ceiling Mount Bracket(AV-light gray) WV-Q168/ WV-Q168/V	Smoke Dome Cover WV-CF5S	Ceiling Mount Bracket WV-Q105A
	* Different from the color of the camera.		

Dome Network Camera
WV-SF332
(12 V DC or PoE)

Onvif S

- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Up to 30 fps at SVGA/800 x 600 image size
- High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.3 (Wide) / 0.013 lx (Color), 0.009 lx (B/W) at F1.3 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

Super Dynamic Full HD Dome Network Camera
WV-SF138
(PoE)

Onvif S

VIQS

- **1080p** HD images up to 30 fps
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor
- High sensitivity with Day & Night (Electrical) function:1.2 lx (Color), 0.9 lx (B/W) at F2.2
- **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.
- 3x extra zoom at 640 x 360 resolution
- Low profile design for discrete installation
- Wide coverage (Horizontal: 100 °, Vertical: 81 °)
- Onvif compliant model

Optional Accessory Smoke Dome Cover WV-CW6SA

HD Dome Network Camera
WV-SF135
(PoE)

Onvif S

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- High resolution recording by "UniPhier®"
- High sensitivity with Day & Night (Electrical) function 0.8 lx (Color), 0.6 lx (B/W) at F2.2
- 2x extra zoom at VGA resolution
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Low profile design for discrete installation
- Wide coverage (Horizontal: 104 °, Vertical: 85 °)
- Onvif compliant model

Optional Accessory Smoke Dome Cover WV-CW6S/ WV-CW6SA

Dome Network Camera
WV-SF132
(PoE)

Onvif S

- Progressive scan 320,000 Pixel MOS Sensor
- High resolution recording by "UniPhier®"
- High sensitivity with Day & Night (Electrical) function 2.0 lx (Color), 1.3 lx (B/W) at F2.9
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Low profile design for discrete installation
- Onvif compliant model

Optional Accessory Smoke Dome Cover WV-CW6S/ WV-CW6SA

Fixed Network Cameras

Super Dynamic Weather Resistant HD Network Camera
WV-SW316L
(12 V DC or PoE)

Onvif S

IP66 standard

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- **Face Super Dynamic Range** technology ensures clear face image.
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver
- Up to 6.4x Extra Optical Zoom at VGA resolution.
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- Smart phone Monitoring
- Onvif compliant model

Super Dynamic Weather Resistant HD Network Camera
WV-SW316
(12 V DC or PoE)

Onvif S

IP66 standard

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- **Face Super Dynamic Range** technology ensures clear face image.
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Up to 6.4x Extra Optical Zoom at VGA resolution.
- Smart phone Monitoring
- Onvif compliant model

Super Dynamic Weather Resistant HD Network Camera
WV-SW314
(PoE:NTSC)

Onvif S

IP66 standard

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- **Face Super Dynamic Range** technology ensures clear face image.
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver
- Up to 7.2x Extra Optical Zoom at VGA resolution.
- Smart phone Monitoring
- Onvif compliant model

Fixed Network Cameras

Super Dynamic Full HD Network Camera
WV-SP509
(12V DC or PoE)

VIQS
Lens: optional
Onvif S

- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- 1080p Full HD images up to 30 fps and 360p image up to 30 fps simultaneously.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (IR) function:0.5 lx (Color), 0.06 lx (B/W) at F1.4
- ABF ensures stable focus in both color and B/W modes.
- Smart phone Monitoring
- Onvif compliant model
- Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot

Super Dynamic Full HD Network Camera
WV-SP508
(12V DC or PoE)

VIQS
Lens: optional
Onvif S

- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- 1080p Full HD images up to 30 fps and 360p image up to 30 fps simultaneously.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.4
- ABF ensures stable focus in both color and B/W modes.
- Smart phone Monitoring
- Onvif compliant model

HD Network Camera
WV-SP306
(12 V DC or PoE)

Lens: optional
Onvif S

- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- Multiple H.264 (High Profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.05 lx (B/W) at F1.4 / 0.019 lx (Color), 0.003 lx (B/W) at F1.4 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- ABF (Auto Back Focus) ensures easy installation
- Smart phone Monitoring

HD Network Camera
WV-SP305
(12 V DC or PoE)

Lens: optional
Onvif S

- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- Multiple H.264 (High Profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity: 0.3 lx (Color), 0.2 lx (B/W) at F1.4 / 0.019 lx (Color), 0.013 lx (B/W) at F1.4 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

Network Camera
WV-SP302
(12 V DC or PoE)

Lens: optional
Onvif S

- Progressive scan 1.3 Megapixel MOS Sensor
- Multiple H.264 (High Profile) streams by "UniPhier®"
- Up to 30 fps at SVGA/800 x 600 image size
- High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.4 / 0.013 lx (Color), 0.009 lx (B/W) at F1.4 with Sens Up 16x
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared to conventional cameras.
- Face Wide Dynamic Range technology ensures clear face Image.
- 2x extra zoom at VGA resolution
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- Smart phone Monitoring

HD Network Camera
WV-SP105
(12 V DC or PoE)
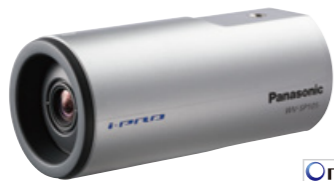
HD 720
Onvif S

- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- Multiple H.264 (High Profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- High sensitivity : 0.8 lx (Color), 0.4 lx (B/W) at F2.2 / 0.05 lx (Color), 0.03 lx (B/W) at F2.2 (Wide) with Sens Up 16x
- 2x extra zoom at VGA resolution
- Dual H.264 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

Network Camera
WV-SP102
(12 V DC or PoE)

Onvif S

- Progressive scan 320,000 Pixel MOS Sensor
- Multiple H.264 (High Profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at VGA(640 x 480) image size
- High sensitivity : 2.0 lx (Color), 1.3 lx (B/W) at F2.0 / 0.3 lx (Color), 0.16 lx (B/W) at F2.0 (Wide) with Sens Up 8x
- Dual H.264 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

360-degree Network Cameras

360-degree Super Dynamic Vandal Resistant Dome Network Camera
WV-SW458
WV-SW458M
(12 V DC or PoE)

WV-SW458
WV-SW458M

VIQS
FULL HD 1080
IP66

*Network connector section (RJ45 connector)
Onvif S

*Network connector section (M12 connector)
Onvif S

- 360° monitoring with a wide variety of transmission modes:Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/VGA)
- 1080p Full HD images up to 30 fps.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier®".
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively.
- Smartphone monitoring : Direct camera control from smart phone
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- High sensitivity with Day/Night (Electrical) function:1.5 lx (Color), 1.2 lx (B/W) at F2.4
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155
- Onvif compliant model

360-degree Super Dynamic Vandal Resistant Dome Network Camera
WV-SF448E ·PAL area only
(12 V DC or PoE)

VIQS
FULL HD 1080
Vandal
Onvif S

- 360°monitoring with a wide variety of transmission modes:Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/VGA)
- 1080p Full HD images up to 30 fps.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area) function can decrease network bandwidth.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier®".
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively.
- Smartphone monitoring : Direct camera control from smart phone
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- High sensitivity with Day/Night (Electrical) function: 1.5 lx (Color), 1.2 lx (B/W) at F2.4
- Digital Noise Reduction: 3D-DNR ensures
- Vandal resistant mechanism for high reliability
- **Privacy Mode**: The lens unit can be moved and hidden so that images cannot be displayed. When the Privacy mode is used, a black image is transmitted to protect privacy.
- Onvif compliant model

Optional Accessory
Ceiling Mount Bracket
WV-Q105A

360-degree Super Dynamic Dome Network Camera
WV-SF438
(12 V DC or PoE)

VIQS
FULL HD 1080
Onvif S

- 360° monitoring with a wide variety of transmission modes:Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/VGA)
- 1080p Full HD images up to 30 fps.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and **2 areas VIQS** (Variable Image Quality on Specified area)function can decrease network bandwidth.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier®".
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively.
- Smartphone monitoring : Direct camera control from smart phone
- **Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- High sensitivity with Day/Night (Electrical) function:1.5 lx (Color), 1.2 lx (B/W) at F2.4
- Onvif compliant model

Optional Accessory
Ceiling Mount Bracket
WV-Q105A
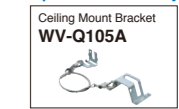
Pan / tilt Network Cameras

Outdoor Pan-tilt Network Camera
WV-SW175
(12V DC or PoE)

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- Full frame (Up to 30 fps) transmission
  at 1,280 x 960 image size
- 2x extra zoom at VGA resolution
- Pan-tilt and Preset Map Shot function realizes wide
  range monitoring.
  (Horizontal angle:180° Vertical angle 123°)
- IP55 rated water and dust resistant. Compatible
  with IEC60529
- Smart phone Monitoring
- Onvif compliant model

Outdoor Pan-tilt Wireless Network Camera
WV-SW174W
(12V DC)

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission
  at 1,280 x 960 image size
- Pan-tilt and Preset Map Shot function realizes wide
  range monitoring.
  (Horizontal angle:180° Vertical angle 123°)
- 2x extra zoom at VGA resolution
- Wireless LAN function (IEEE802.11 n/g/b)
- Smart phone Monitoring
- Onvif compliant model

Outdoor Pan-tilt Network Camera
WV-SW172
(12V DC or PoE)

- 1.3 Megapixel high sensitivity MOS Sensor
- Full frame (Up to 30 fps) transmission at SVGA
  (800 x 600) image size
- Pan-tilt and Preset Map Shot function realizes
  wide range monitoring.
  (Horizontal angle:180° Vertical angle 123°)
- 2x extra zoom at VGA resolution
- IP55 rated water and dust resistant. Compatible
  with IEC60529
- Smart phone Monitoring
- Onvif compliant model

Pan-tilt Network Camera
WV-ST165
(12V DC or PoE)

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 2x extra zoom at VGA resolution
- Pan-tilt and Preset Map Shot function realizes wide range monitoring.
  (Horizontal angle:180° Vertical angle 123°)
- Smart phone Monitoring
- ONVIF compliant model

Pan-tilt Network Camera
WV-ST162
(12V DC or PoE)

- 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams by "UniPhier®"
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size
- 2x extra zoom at VGA resolution
- Pan-tilt and Preset Map Shot function realizes wide range monitoring.
  (Horizontal angle:180° Vertical angle 123°)
- Smart phone Monitoring
- ONVIF compliant model

Pan-tilt Network Camera
BL-VT164
9 V DC (Use only with Panasonic AC adapter)

- 720p HD images up to 30 fps
- 1.0 Megapixel high sensitivity CMOS Sensor
- Full frame (Up to 30 fps) transmission at 1,280 x 720 image size
- H.264 and JPEG dual stream output
- High sensitivity with Day & Night (Electrical) function:
  0.9 lx (Color),0.6 lx (B/W) at F2.8
- 1.5x extra zoom at VGA resolution
- Remote Pan and Tilt control
- Smart phone Monitoring

Pan-tilt Wireless Network Camera
BL-VT164W
9 V DC (Use only with Panasonic AC adapter)

- 720p HD images up to 30 fps
- 1.0 Megapixel high sensitivity CMOS Sensor
- Full frame (Up to 30 fps) transmission at 1,280 x 720 image size
- H.264 and JPEG dual stream output
- High sensitivity with Day & Night (Electrical) function: 0.9 lx (Color),0.6 lx (B/W) at F2.8
- 1.5x extra zoom at VGA resolution
- Remote Pan and Tilt control
- Smart phone Monitoring
- Wireless Communication (IEEE 802.11n/b/g)
- WPS (Wi-Fi Protected Setup) function

Wireless Network Camera
BL-VP104W
6.5 V DC (Use only with Panasonic AC adapter)

BL-VP104W

Network Camera
BL-VP104
6.5 V DC (Use only with Panasonic AC adapter)

BL-VP104

- 720p HD images up to 30 fps
- 1.0 Megapixel high sensitivity CMOS Sensor
- High sensitivity with Day & Night (Electrical) function: 0.9 lx (Color), 0.6 lx (B/W) at F2.8
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- 1.5x extra zoom at VGA resolution
- Wireless LAN function (IEEE802.11 n/b/g) (BL-VP104W)
- WPS (Wi-Fi Protected Setup) function (BL-VP104W)
- Smartphone monitoring

Network Camera
BL-VP101
6.5 V DC (Use only with Panasonic AC adapter)

- 0.32 Megapixel high sensitivity CMOS Sensor
- High sensitivity with Day & Night (Electrical) function:
  0.9 lx (Color), 0.6 lx (B/W) at F2.8
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- 4x digital zoom controlled by browser
- Smartphone Monitoring

Network Video Encoder / Decoder

4 CH H.264 Video Encoder
WJ-GXE500
(12 V DC or PoE)

- Up to 4 analog cameras can be connected.
- Panasonic Camera Control
- Full frame H.264 transmission for each 4 channels
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output at VGA/D1 image size
- Progressive Output
- Bi-directional audio (1CH)
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessory

EIA 48.26 cm (19 inch)
Rack Mount Bracket
WV-Q204/2S
(for mounting three WJ-GXE500)

Joint bracket
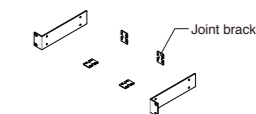
1 CH H.264 Video Encoder
WJ-GXE100
(12 V DC or PoE)

- Full frame H.264 transmission
- H.264 and JPEG triple encoding: A total of 3 outputs, comprising of
  2 H.264 outputs and 1 JPEG output, can be provided.
- Motion adaptive interlace/progressive conversion allows every frame to
  be clear even when the subject is moving.
- Open command conversion table for RS485 ensures the control of
  various manufacture's PTZ camera.
- Camera title display: Up to 20 alphanumeric characters embedded in the image
- PoE. The power will be supplied by simply connecting a LAN cable.
  (IEEE802.3af compliant) 12 V DC power supply* is also available.
- Small size. And can be installed into the outdoor housing with a camera.

* For UL listed model(s), only connect 12 V DC Class 2 power supply.

Multi Channel High Definition Video Decoder
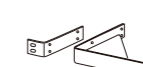### WJ-GXD400
(12 V DC, 100 V -240 V AC adaptor attached)

- Up to 256 cameras, including cameras connected to the i-Pro Network Video
  Encoder (WJ-GXE500), can be registered
- HDMI interface supporting 1,920 x 1,080 display size
- 1x 4VGA image with 2x VGA images or 6x VGA images can be displayed in
  multiscreen mode
- Each of VGA images can be displayed at 25 frames/s.
- Superior reliability and installation flexibility with an embedded OS
- Up to 64 camera groups can be registered and called up in response to power
  on, group sequence and schedule program.

Optional Accessories

EIA 48.26 cm (19 inch)
Rack Mount Bracket
WV-Q204/1S
(for mounting one WJ-GXD400)

EIA 48.26 cm (19 inch)
Rack Mount Bracket
WV-Q204/2S
(for mounting two WJ-GXD400)

Joint bracket

*Only 3 pieces of joint brackets are necessary.
One piece of joint bracket will be unnecessary.

Network Converter

Coaxial-LAN Converter with PoE function
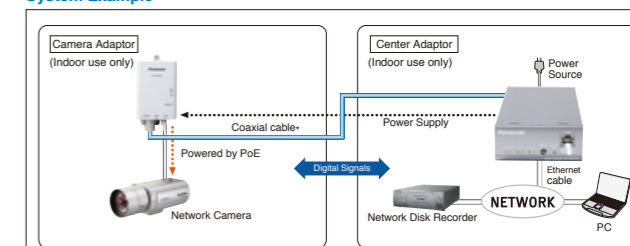### BY-HPE11KT (Indoor use only)

(Camera Adaptor)   (Center Adaptor)

- Easy migration from analog to IP system with existing coaxial cable
- Power over Ethernet (PoE) IEEE 802.3af
- Up to 500 m (1,640 feet 5 inches)[1] for PoE connections, and 2 km (6,561 feet 8 inches) for
  non-PoE connections. (When used with RG-6/U coaxial cable.)
- 35 Mbps or over for TCP[2], and 45 Mbps or over for UDP connections. (When used with
  RG-6/U coaxial cable, and for distances under 2 km [6,561 feet 8 inches].)
- No setup required
- [1] When connected to a Panasonic network camera. [2] Measured using Linux® FTP.

System Example

Camera Adaptor
(Indoor use only)

Center Adaptor
(Indoor use only)

Power
Source

Coaxial cable

Power Supply

Powered by PoE

Digital Signals

Network Camera

Ethernet
cable

Network Disk Recorder

NETWORK

PC

*With PoE function: 500 m (1,640 feet 5 inches)/Without PoE function: 2 km (6,561 feet 8 inches)

Optional Accessory

Rack Mount Connecting Fitting
BY-HCA10 (for mounting three or four Center Adaptor)

Underside continuous
connecting bracket

Mounting bracket
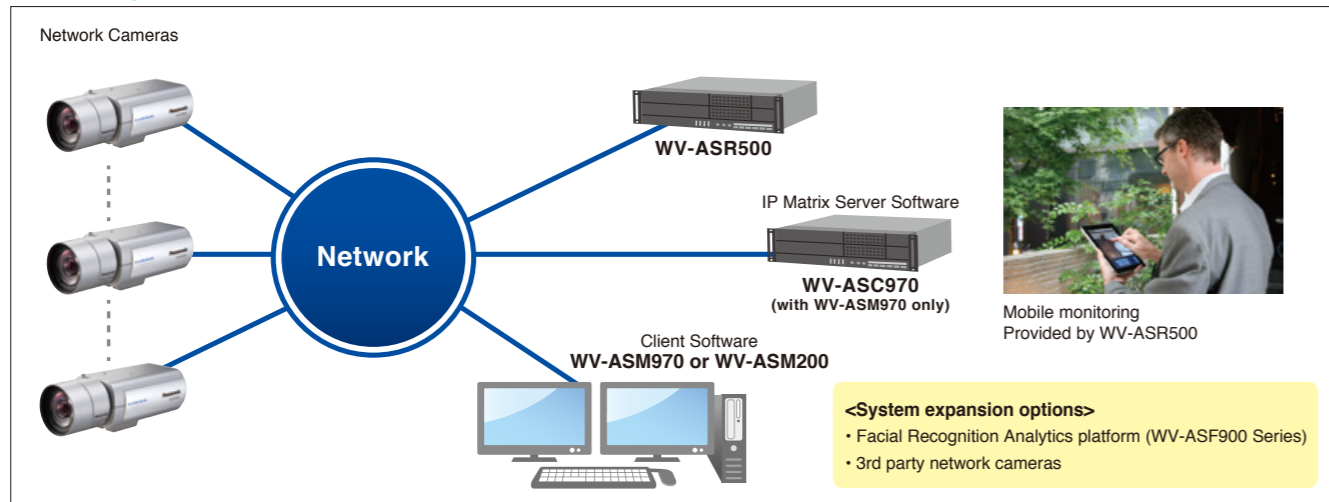
Mounting bracket
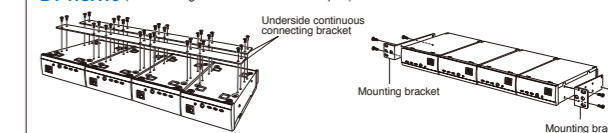
Network Video Recorders

Server based recording and video management platform

WV-ASR500 Series

- Open platform, Panasonic's and 51 other vendor's network cameras support.
- Up to 64 network cameras can be connected and recorded.
- Up to 16 clients can monitor image and control WV-ASR500 simultaneously. (Depends on system structure, environment.)
- Various Recording Modes: Schedule, Event (Pre/Post)
- Graphical Timeline Search function (with WV-ASC970 System)
- H.264, MPEG-4 and JPEG multi format
- Mobile monitoring applications for smart phone (iOS, Android)
- Cooperative with the Face Matching System (WV-ASF900 Series)
- Supports archiving function to realize long-term recording (as of March 2014)
- Can be linked with Electric Access Control System (as of March 2014)

Advanced configuration

Network Cameras

Network

WV-ASR500

IP Matrix Server Software

WV-ASC970
(with WV-ASM970 only)

Mobile monitoring
Provided by WV-ASR500

Client Software
WV-ASM970 or WV-ASM200

<System expansion options>
- Facial Recognition Analytics platform (WV-ASF900 Series)
- 3rd party network cameras

Recording Software (Channel License) per server: WV-ASRE501(1ch), WV-ASRE516(16ch), WV-ASRE532(32ch), WV-ASRE564(64ch)

Network Disk Recorder

WJ-ND400
(120 V AC: NTSC, 220-240 V AC: PAL)

RSA® BSAFE™
RSA and BSAFE are either registered trademarks or trademarks of RSA Security Inc. in the U.S.

- H.264,MPEG-4 and JPEG multi format
- Up to 64 network cameras can be connected and recorded (Video and Audio)
- Various Recording Mode: Manual, Schedule including Event (Pre/Post), Emergency
- VMD search (works with i-PRO cameras or WJ-NT314)
- Up to 54 HDD slots with 9 HDD slots in the main unit and five WJ-HDE400 optional Extension Units each with 9 HDD slots
- RAID5/6, Embedded OS, Data encryption for reliability
- Onvif compliant model

Optional Accessory
Hard Disk Extension Unit
WJ-HDE400

Network Disk Recorder

WJ-ND300A
(120 V AC: NTSC, 220-240 V AC: PAL)

- H.264,MPEG-4 and JPEG multi format
- Up to 32 network cameras can be connected and recorded
- Up to 8 clients can monitor images and control WJ-ND300A simultaneously
- RAID5 capability with optional WJ-NDB301 RAID5 Board
- Various Recording Mode: Manual, Schedule, Event (Pre/Post), Emergency

Optional Accessories
RAID5 Board
WJ-NDB301

Hard Disk Extension Unit
WJ-HDE300
(4 drive bays for optional HDD units)
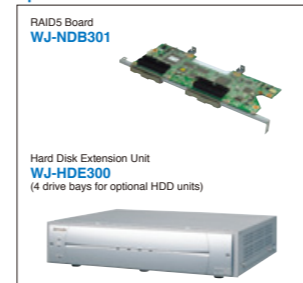
Network Disk Recorder

WJ-NV200
(120 V AC: NTSC, 220 V -240 V AC: PAL)

Network Disk Recorder with DVD drive (for NTSC only)

WJ-NV200V
(120V AC)

WJ-NV200

- H.264, MPEG-4 and JPEG multi format
- Up to 16 network cameras can be connected and recorded.
- Quick setup by automatic camera detection and simple setup wizard without the use of PC

Easy Operation and Setup without PC

i-PRO Smart HD Cameras

HDMI

L2 Switch
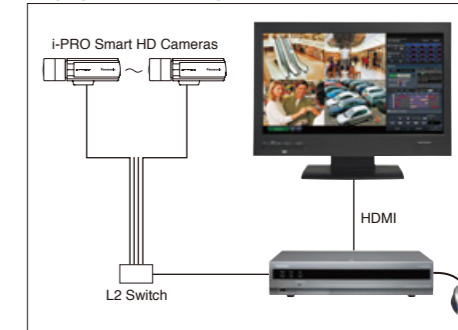
- Simple mouse operation by new GUI without the use of PC
- Supports the Full HD output (HDMI)
- Onvif NVC (Network Video Client), core spec Ver.1.02 conformant

Additional Business Intelligence Kit **WJ-NVF20**

WJ-NV200
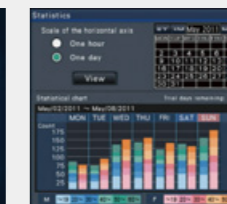
- New statistical processing functions such as "People counting" and "Face matching / Age & Gender judgment"
- The number of detected human faces can be displayed on a statistical chart separated by age & gender for a single day or a specified time period.
- Age distribution groups are displayed by separate colors
- The statistical data can be saved as a CSV file on a SDHC/SD memory card or on a PC connected over a network.

★ To use this product, it is necessary to register the license (Registration Key) for Additional Business Intelligence Kit into the NV200 in use.

★CSV file: A file that can be edited using a spreadsheet software such as Microsoft®Office Excel®

Software

Panasonic Security Viewer Ver.2

Panasonic Security Viewer is an application that can view the images from i-PRO SmartHD Series Network Cameras and Network Disk Recorders (WJ-NV200/WJ-ND400/WJ-HD716/WJ-HD616).
By connecting a terminal to a 3G/4G or wireless LAN (Wi-Fi), it is possible to view live images from cameras and recorded images stored on recorders.

To use the application via the Internet

Application

Dynamic DNS Service

Router Internet

Mobile service provider network

Network disk recorder

iPhone, iPad, Android terminal

A PC is required to register a Dynamic DNS Service and configure the settings of the router.

Direct Camera connection
• Live monitoring

Via recorder
• Live monitoring
• Playback
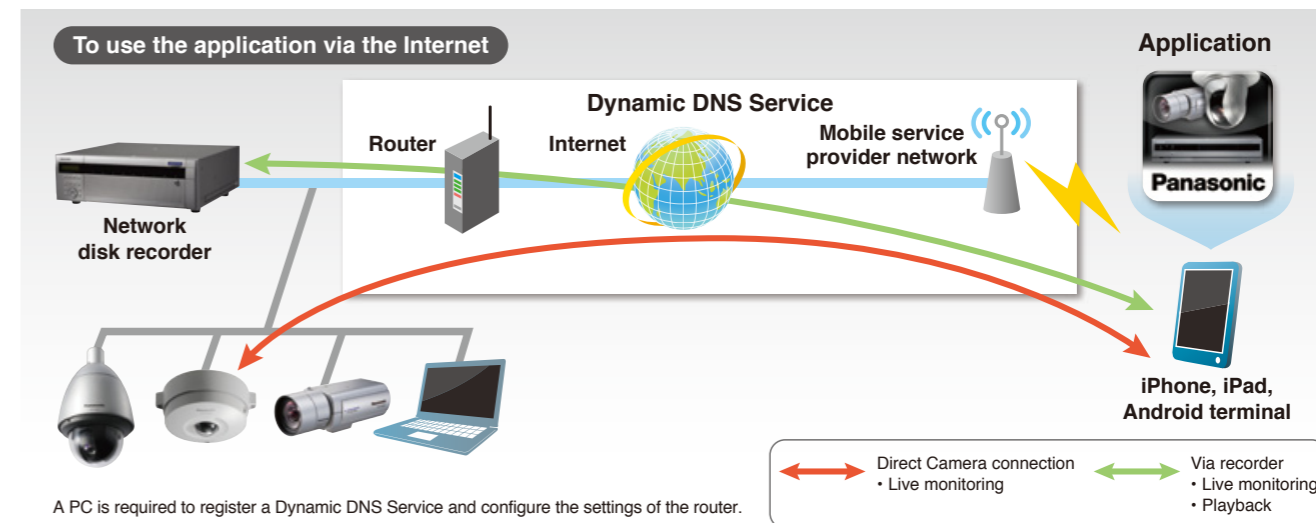
● Download the Panasonic Security Viewer application on the Google play™ store, Apple App Store.

Android™ http://security.panasonic.com/pss/security/psv/android/index.html   **iPhone / iPad** http://security.panasonic.com/pss/security/psv/ios/index.html

Software

Facial Recognition Analytics Platform
WV-ASF900 Series

Facial Recognition Analytics Platform running in the video surveillance system
- Add-on face matching function: Add the face matching function by simply adding the necessary devices and the software
- Can be connected up to 20 cameras on a server.

Face search
- Face images that camera detected are stored, and it can be searched later.
- By searching the face DB, you can display the result of each cameras in chronological order and find movement locus of persons.
- Specify camera or date in detected face images and display the result in the list in similarity order.

Face Matching
- When it is matched with registered people, alarm of face matching is output in real-time, and display an alarm history in the list.
- Specified screen image can be played back on control monitor with double-clicking on an alarm history.

People counting, Age and Gender Statistics
- Count people of detected face and evaluate their age and gender
- Display the result on the screen with statistical graph
- The statistical data can be saved as a CSV file for analytical use.
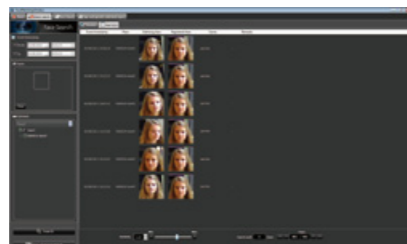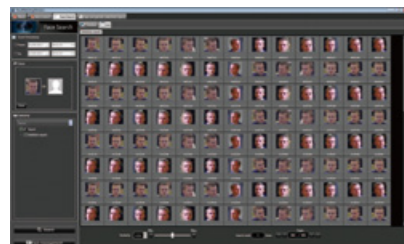
Basic System Connection Example

Camera → Video Stream → Recorder → Video Stream
WV-ASC970 (with WV-ASM970 only)
Extract and delivery face images
WV-ASF900 (in case of WV-ASM200) Alarm notification
WV-ASM970/WV-ASM200 +Extension Software(WV-ASE231)
Search results Statistical report
Image processing part
- Register the face image in the database
- Face matching, report alarm
- Age and gender evaluation
Thumbnail
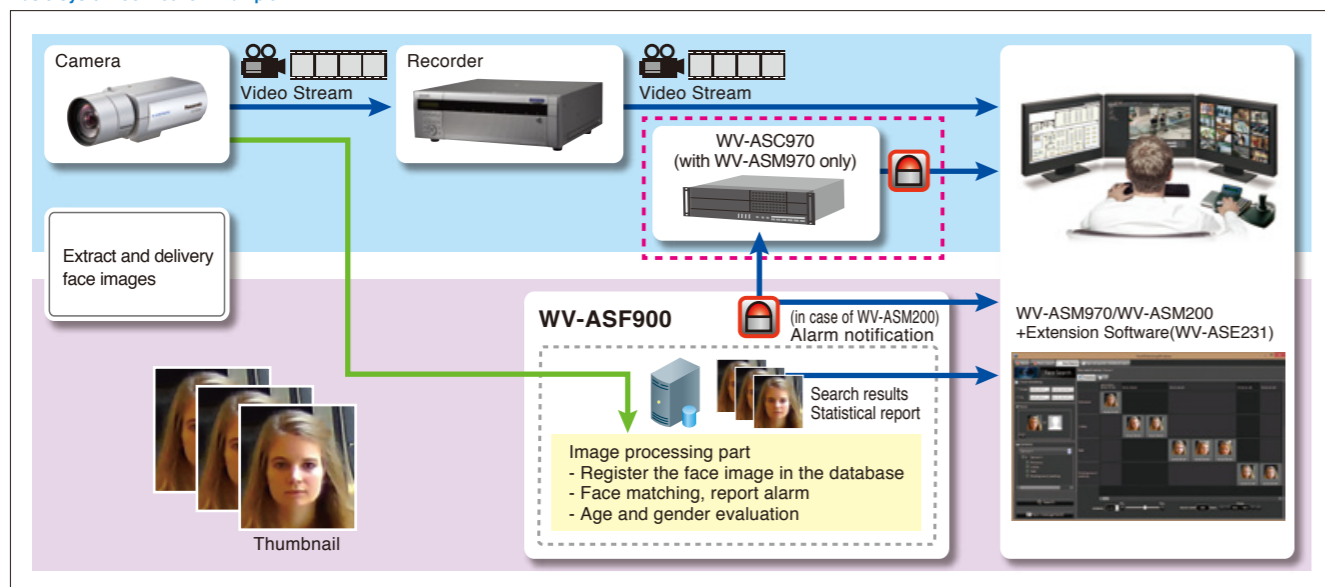
Extension software
WV-ASE231 for WV-ASM970/WV-ASM200
- To use the WV-ASF900, WV-ASM970 or WV-ASM200 with extension software WV-ASE231 is required.

IP Matrix Server Software
Version 9 WV-ASC970

IP Matrix Client Software
Version 9 WV-ASM970

Extension Software
WV-ASE901* (Monitor the status of Fire Alarm System)

System Components

IP Matrix Server Software **WV-ASC970**
(The picture above is only for image.)

IP Matrix Client Software **WV-ASM970**
(The picture above is only for image.)

Ethernet System Controller with 3D-Joystick and Jog/Shuttle **WV-CU950**

(The pictures above are only for images.)

WV-ASC970
- Easy and smooth integration from analog to IP system
- Flexible system design: Analog, IP, and Hybrid analog/IP
- Up to 64 recorders, 1,024 monitors, and 2,048 cameras (in case with encoder) can be registered
- Camera/Sequence/Monitor selection, Camera control and Recorder control can be made with the optional system controller WV-CU950
- Supported Recorders: WJ-ND400 series, WJ-ND300 series, WJ-ND200 series, WJ-NV200 series, WJ-HD300 series, WJ-RT416 series, WJ-HD616/716 series
- Redundant function supported (Redundant function can consist of 2 WV-ASC970 servers as Main server and Standby server)
- Up to 64 ND400 recorders can be registered as Standby recorder for backup purpose of serious problems on main recorders

WV-ASM970
- Multi-Monitor option enables simultaneous use of Operation screen and Monitor screen (1 / 4 / 7 / 9 / 10 / 13 / 16 split) on a dedicated monitor. Two monitor operation is also available.
- Up to 30 ips/camera can be displayed in 16 split-screen in MPEG-4 2 Mbps mode (depending on the camera, camera setup and PC performance).
- Up to 30 ips/camera can be displayed in 16 split-screen in H.264 1.5 Mbps mode with VGA (depending on the camera, camera setup and PC performance).
- Image resolution dynamically changes depending on the screen mode:VGA for Quad screen, QVGA for 16 split-screen, enabling optimum network usage (depending on the camera mode).
- Decoder mode supported (WV-ASM970 can be used as PC-based decoder instead of GXD400)

Extension Software WV-ASE901*
- Monitor the status of Fire Alarm System.
- Manually reset or acknowledge fire alarms and faults of Fire Alarm System.
- Search history of fire alarm, faults and interlocking of Fire Alarm System.
- WV-ASE901 is only sold in certain areas. Please contact the sales company for details.

i-PRO Management Software
WV-ASM200 Extension Software WV-ASE201 / ASE202 / ASE203 / ASE204

Optional Accessory
Ethernet System Controller with 3D-Joystick & Jog/Shuttle **WV-CU950** (WV-ASE201 is necessary.)

WV-ASM200 with WV-ASE201

(System Controller WV-CU950 and monitor displays are optional.)

- Supports 16:9 video stream and 16:9 HD monitor. Displays 16:9 and 4:3 videos from IP cameras on the same screen.
- H.264 recording data in the SD/SDHC/SDXC memory card can be downloaded.
- Convert file format from n3r (proprietary format) to MP4.
- Up to 100 recorders, 64 encoders and 256 directly connected cameras can be registered.
- Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in the WV-ASM200 (the number of the cameras depends on the recorder and encoder).
- Up to 16x 30 ips/camera images can be displayed in H.264 1.5 Mbps mode

- WV-ASE201: 3 monitors, System controller (WV-CU950) Support
- WV-ASE202: Max. 64 Video Support
- WV-ASE203: Increase function of recorder registration
- WV-ASE204: Max. 10 Decoder Support

Network Camera Recorder with Viewer Software
BB-HNP17

- H.264, MPEG-4 and JPEG recording
- Supports the recording and playback of H.264 cameras
- Supports resolutions of 1280 × 960
- Remote Access Function
- Up to 64 cameras Register
- Event Detection Recording

- Flexible Layout
- Preset Sequence
- Timer recording with preset designation
- Pop-up display
- Time specified color night view

Dome Cameras

Super Dynamic 6
Weather Resistant Dome Camera
WV-CW590 Series **SR** SUPERIOR REALITY
WV-CW590/WV-CW590A (220 V ~ 240 V AC: PAL)
WV-CW594/WV-CW594A (24 V AC: NTSC,PAL)

WV-CW590   WV-CW590A

SD6 Super Dynamic   (WV-CW590A/WV-CW594A)   36x OPTICAL ZOOM   IP66 standard

- High resolution: 650 TV lines
- High sensitivity: 0.5 lx (Color), 0.04 lx (B/W) at F1.4 (Wide)
- *Super Dynamic 6* technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras.
- Standard auto tracking
- IP66 rated water and dust resistant
- 36x optical zoom lens with 20x digital zoom
- **Rain wash coating dome cover (WV-CW590A,WV-CW594A)**

Optional Accessory
Wall Mount Bracket
WV-Q122/ WV-Q122A

Super Dynamic 6
Day/Night Dome Camera
WV-CS580 Series **SR** SUPERIOR REALITY
WV-CS580 (220 V ~ 240 V AC:PAL)
WV-CS584 (24 V AC: NTSC,PAL)

SD6 Super Dynamic   36x OPTICAL ZOOM

- High resolution: 650 TV lines
- High sensitivity: 0.5 lx (Color), 0.04 lx (B/W) at F1.4 (Wide)
- *Super Dynamic 6* technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras.
- Standard auto tracking
- 36x optical zoom lens with 20x digital zoom

Optional Accessories

Ceiling Mount Bracket	Embedded Ceiling Mount Bracket	Pendant Mount Bracket	Wall Mount Bracket	Smoke Dome Cover
WV-Q105A	**WV-Q126/ WV-Q126A**	**WV-Q117/ WV-Q117A**	**WV-Q118A/ WV-Q118B**	**WV-CS4S/ WV-CS4SA**

Fixed Dome Cameras

Super Dynamic 5
Vandal Resistant Fixed Dome Camera
WV-CW500 Series
WV-CW500S (220 V ~240 V AC: PAL)
WV-CW504S (24 V AC or 12 V DC: NTSC, PAL)
WV-CW504F (24 V AC or 12 V DC: NTSC)

(Surface Mount Type)

SD5 Super Dynamic   i-VMD   IP66 standard

- High resolution: 650 TV lines typical(Color), 700 TV lines (B/W)
- High sensitivity: 0.1 lx (Color), 0.01 lx (B/W) at F1.4 (Wide) / 0.003 lx (Color), 0.0003 lx (B/W) at F1.4 (Wide) with Sens Up 32x
- *Super Dynamic 5* delivers Superior image by fusion of Super Dynamic, ABS (Adaptive Black Stretch) and i-VMD (intelligent-Video Motion Detection) intelligence technology

Optional Accessories

Mount Bracket for WV-CW504F **WV-Q115/ WV-Q115A**	Heater Unit **WV-CW5H/ WV-CW5HA**	Embedded Ceiling Mount Bracket **WV-Q169/ WV-Q169/V**	Smoke Dome Cover **WV-CW4S/ WV-CW4SA**

Vandal Resistant Fixed Dome Camera
WV-CW334/CW364
WV-CW334S (24 V AC or 12 V DC: NTSC, PAL)
WV-CW364S (24 V AC or 12 V DC: NTSC, PAL)

WV-CW334

(WV-CW364) (WV-CW334)   IP66 standard

- High sensitivity: 0.6 lx (Color) 0.4 lx (B/W) at F1.3(Wide) (WV-CW334)
- High sensitivity: 0.6 lx (Color) 0.05 lx (B/W) at F1.3(Wide) (WV-CW364)
- 2.8 mm ~ 10 mm 3.6x Varifocal Auto Iris lens
- Adaptive Black Stretch enhances visibility of dark area
- IP66 rated water and dust resistant

Optional Accessories

Heater Unit **WV-CW5H/ WV-CW5HA**	Embedded Ceiling Mount Bracket **WV-Q169/ WV-Q169/V**	Smoke Dome Cover **WV-CW4S/ WV-CW4SA**

Fixed Dome Cameras

Super Dynamic 6
Day/Night Fixed Dome Camera
WV-CF600 Series **SR** SUPERIOR REALITY
WV-CF614 (24 V AC or 12 V DC:PAL),
WV-CF624 (24 V AC or 12 V DC:NTSC)
WV-CF634 (24 V AC or 12 V DC:NTSC, PAL)

WV-CF614   WV-CF624   WV-CF634

SD6 Super Dynamic   (WV-CF634/WV-CF624)   (WV-CF614)   (WV-CF614/WV-CF634)

- *Super Dynamic 6* technology delivers 128x(NTSC) / 160x(PAL) wider dynamic range compared to conventional cameras.
- High resolution: 650 TV lines
- High sensitivity with Day/Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4 IR cut filter switches on/off to enhance the sensitivity in B/W mode.(WV-CF634,WV-CF624)
- High sensitivity with Day/Night (electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4 (WV-CF614)
- ABS (Adaptive Black Stretch) enhances visibility of dark area without degrading image quality in bright area.
- ABF (Auto Back Focus) ensures easy installation. (WV-CF614/WV-CF634)

Optional Accessory
Embedded Ceiling Mount Bracket (Sail white)
WV-Q174/ WV-Q174A

Day/Night Fixed Dome Camera
WV-CF344/CF354/CF374 **SR** SUPERIOR REALITY
WV-CF344 (24 V AC or 12 V DC:NTSC,PAL),
WV-CF354 (24 V AC or 12 V DC:NTSC,PAL)
WV-CF374 (24 V AC or 12 V DC:PAL)

WV-CF344   WV-CF354   WV-CF374

(WV-CF374) (WV-CF344) (WV-CF354)   (WV-CF354)

- High resolution: 650 TV lines
- High sensitivity with Day/Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4 IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CF374)
- High sensitivity with Day/Night (electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4 (WV-CF344/WV-CF354)

Optional Accessory
Embedded Ceiling Mount Bracket (Sail white)
WV-Q174/ WV-Q174A

IR LED Day/Night
Fixed Dome Camera
WV-CF300L Series **SR** SUPERIOR REALITY
WV-CF314L (24 V AC or 12 V DC: NTSC, PAL), WV-CF304L (24 V AC or 12 V DC: PAL)

WV-CF314L   WV-CF304L

(WV-CF314L)

- High resolution: 650 TV lines
- High sensitivity with Day/Night function: 0.08 lx (Color), 0 lx (B/W,LED on) at F1.3. IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CF314L)
- High sensitivity with Day/Night function: 0.15 lx (Color), 0 lx(B/W,LED on) at F2.0. IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CF304L)
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 (zero) lx. IR LED irradiation distance 20 m (WV-CF314L),10 m (WV-CF304L)

Day/Night
Mini Fixed Dome Camera (for PAL only)
WV-CF102
(12 V DC: PAL)

- High resolution: 540 TV lines
- High sensitivity: 1.2 lx (Color), 0.9 lx (B/W) at F2.0
- 108 mm in diameter compact design
- 2.5 mm fixed focal lens
- Adaptive Black Stretch enhances the visibility of dark area

Optional Accessory
Smoke Dome Cover
WV-CF5S

Fixed Cameras

Super Dynamic 6
Day/Night Fixed Camera
WV-CP600 Series [SR SUPERIOR REALITY]
WV-CP600 (220 V- 240 V AC: PAL), WV-CP604 (24 V AC or 12 V DC: PAL)
WV-CP620 (120 V AC 60Hz: NTSC, 220 V - 240 V AC: PAL), WV-CP624 (24 V AC or 12 V DC: NTSC, PAL)

WV-CP604
WV-CP624

WV-CP600
WV-CP620

Lens: optional

Lens: optional
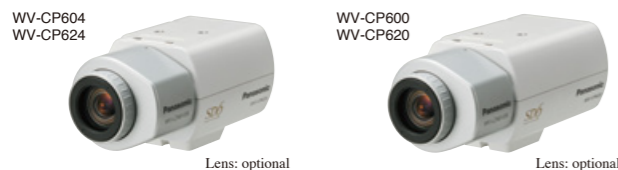
[SD6 Super Dynamic] [WV-CP620 / WV-CP624] [WV-CP600 / WV-CP604]

- **Super Dynamic 6** technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras.
- High resolution: 650 TV lines
- High sensitivity with Day/Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4 IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CP620/WV-CP624)
- High sensitivity with Day/Night (electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4 (WV-CP600/WV-CP604)

Optional Accessories

| 1/3 type 2x Varifocal Lens **WV-LZA61/2S** (3.8 ~ 8 mm) F1.4 (Wide) F1.8 (Tele) | 1/3 inch 8x Varifocal Lens **WV-LZ62/8S** (5 ~ 40 mm) F1.6 (Wide) F1.9 (Tele) |

Super Dynamic 5
Day/Night Camera
WV-CP500 Series
WV-CP500 (120 V AC: NTSC, 220 V -240 V AC: PAL)
WV-CP504 (24 V AC or 12 V DC: NTSC, PAL)

WV-CP504

WV-CP500

Lens: optional

Lens: optional

[SD5] [i-VMD]

- High resolution: 650 TV lines typical (Color), 700 TV lines (B/W)
- High sensitivity: 0.1 lx (Color), 0.01 lx (B/W) at F1.4 / 0.003 lx (Color), 0.0003lx (B/W) at F1.4 with Sens Up 32x
- **Super Dynamic 5** delivers Superior image by fusion of Super Dynamic, ABS (Adaptive Black Stretch) and i-VMD(intelligent-Video Motion Detection) intelligence technology

Day/Night Camera
WV-CP300 Series [SR SUPERIOR REALITY]
WV-CP300 (120 V AC: NTSC, 220 ~ 240 V AC: PAL), WV-CP304 (24 V AC or 12V DC: NTSC, PAL)
WV-CP310 (120 V AC: NTSC, 220 ~ 240 V AC: PAL), WV-CP314 (24 V AC or 12 V DC: NTSC, PAL)

Lens: optional

Lens: optional

[WV-CP310 / WV-CP314] [WV-CP300 / WV-CP304]

- High resolution: 650 TV lines
- High sensitivity with Day/Night function: 0.08 lx (Color), 0.008 lx (B/W) at F1.4 IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CP310/WV-CP314)
- High sensitivity with Day/Night (electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4 (WV-CP300/WV-CP304)

Optional Accessory

| 1/3 type 2x Varifocal Lens **WV-LZA61/2S** (3.8 ~ 8 mm) F1.4 (Wide) F1.8 (Tele) |

Weather Resistant IR LED Day/Night Fixed camera
WV-CW300L Series [SR SUPERIOR REALITY]
WV-CW324L (24 V AC or 12 V DC: PAL), WV-CW314L (24 V AC or 12 V DC: NTSC, PAL)
WV-CW304L (24 V AC or 12 V DC: PAL)

WV-CW324L

WV-CW314L

WV-CW304L

[IR LED] [WV-CW324L / WV-CW314L] [IP66 standard]

- High resolution: 650 TV lines
- High sensitivity with Day/Night function: 0.08 lx (Color), 0 lx, (B/W,LED on) at F1.3. IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CW314L/WV-CW324L)
- High sensitivity with Day/Night function: 0.15 lx (Color), 0 lx, (B/W,LED on) at F2.0. IR cut filter switches on/off to enhance the sensitivity in B/W mode. (WV-CW304L)
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at 0 (zero) lx. IR LED irradiation distance 50 m (WV-CW324L, WV-CW314L) IR LED irradiation distance 20 m (WV-CW304L)

High Sensitive Day/Night Camera
WV-CL930 Series
WV-CL930 (120 V AC: NTSC, 220 V -240 V AC: PAL)
WV-CL934 (24 V AC or 12 V DC: NTSC, PAL)
WV-CLR930 (220 V -240 V AC with RS-485 control IF: PAL)
WV-CLR934 (24 V AC or 12 V DC with RS-485 control IF: PAL)

Lens: optional

- 1/2 type interline transfer CCD
- Ultra high sensitivity:
  0.09 lx (Color), 0.008 lx (B/W) at F1.4 /
  0.003 lx (Color), 0.0003 lx (B/W) at F1.4 with Sens Up 32x
- ABF (Auto Back Focus) adjustment
- Built-in VMD (Video Motion Detector)

Super Dynamic 6
Day/Night Surveillance Camera (for PAL only)
WV-CZ492 [SR SUPERIOR REALITY]
(12 V DC:PAL)

[SD6 Super Dynamic] [IR] [36x OPTICAL ZOOM]

- High resolution: 650 TV lines
- High sensitivity with Day/Night function:
  0.5 lx at color mode (Sens Up: Off, AGC: High)
  0.04 lx at B/W mode (Sens Up: Off, AGC: High)
- **Super Dynamic 6** technology delivers 160x wider dynamic range compared to conventional cameras.
- 36x Optical Zoom Lens

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Digital Video Recorders

16ch Real-time H.264 Digital Disk Recorder
WJ-HD716 (120 V AC: NTSC, 220 V -240 V AC: PAL)
16ch H.264 Digital Disk Recorder
WJ-HD616 (120 V AC: NTSC, 220 V -240 V AC: PAL)

[HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE] [UniPhier] [SD5 Link Super Dynamic]

WJ-HD716

Optional Accessories

HDD Canister **WJ-HDU40K**	Hard Disk Extension Unit **WJ-HDE400**
RAID Board **WJ-HDB601/ WJ-HDB601A**	
Built-in DVD Drive **WJ-HDB611/ WJ-HDB611A**	

- Dual HDMI Full HD 1080i (1,920 x 1,080) display
- H.264 (High Profile) codec reduces bandwidth by up to 40 % compared with MPEG-4
- **SD5Link** (Super Dynamic 5 Link) with i-VMD (intelligent-Video Motion Detection) alarm
- Real-time recording (WJ-HD716) and 16ch 2x monitors real-time live
- Up to 31 HDD slots with 4 HDD slots in the main unit and three WJ-HDE400 optional Extension Units each with 9 HDD slots

System Controllers

Ethernet System Controller
with 3D-Joystick & Jog/Shuttle
WV-CU950

RS-485 System Controller
with 3D-Joystick & Jog/Shuttle
WV-CU650

- For smooth operation of Ethernet/PS-Data interfaced devices, WV-ASM200/WV-ASC970 and System650EX/System650/System150 (WJ-SX150A version 2.0 or higher)
- Integrated system control: camera, recorder and switcher
- User level management and user assignable buttons
- Universal design for Right or Left handed

- For smooth operation of PS-Data interfaced devices, and System650/System150 (WJ-SX150A version 2.0 or higher)
- Integrated system control: camera, recorder and switcher
- User level management and user assignable buttons
- Universal design for Right or Left handed

Matrix Switching System

512 Inputs Matrix Switching System
System650EX
with WV-ASC970

256 Inputs Matrix Switching System
System650

(The picture above is only for image.)

- Up to 512 inputs and 64 outputs
- Simultaneous use of up to 64 WV-CU950 Ethernet System Controllers
- Up to 512 users
- Up to 32 recorders (WJ-HD716/WJ-HD616, WJ-HD300A Series, WJ-RT416 Series)
- Up to 64 Satellite domains

- Up to 256 inputs and 32 outputs
- Simultaneous use of up to 16 WV-CU650 RS-485 System Controllers
- Up to 60 users
- Up to 16 recorders (WJ-HD716/WJ-HD616, WJ-HD300A Series, WJ-RT416 Series)

System650EX/System650 System Components

Matrix Switcher **WJ-SX650**	Card Cage **WJ-SX650U**	Video Input Board **WJ-PB65C32** (32 inputs)	Video Output Board **WJ-PB65M16** (16 outputs)	Network Board **WJ-PB65E01** (for System650EX only)	D-sub/BNC Video Cable **WJ-CA68 / WJ-CA68A** (0.5 m)
Expansion Cable Kit **WJ-CA65L20K / WJ-CA65L20KA** (2 m) **WJ-CA65L07K / WJ-CA65L07KA** (0.7 m)	RS-485 System Controller with 3D-Joystick & Jog/Shuttle **WV-CU650** (for System650 only)	Ethernet System Controller with 3D-Joystick & Jog/Shuttle **WV-CU950**	IP Matrix Server Software **WV-ASC970**(Version 9) (for System650EX only)	IP Matrix Client Software **WV-ASM970**(Version 9)	
				(The picture above is only for image.)	(The picture above is only for image.)

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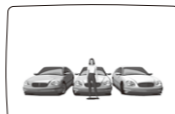
Lenses

1/3 type Variable Focal Lenses	2x Variable **WV-LZA61/2S** 3.8 mm ~ 8 mm F1.4 (wide) F1.8 (tele)	8x Variable **WV-LZ62/8S** 5 mm ~ 40 mm F1.6 (wide) F1.9 (tele)
Focal Length	3.8 mm ~ 8 mm	5 mm ~ 40 mm
Iris Type	Automatic	Automatic
Optical Filter Size	M30.5 mm, P = 0.5 mm	None
Mount	Special C-Mount, (CS-Mount, 1-32UN)	Special C-Mount, (CS-Mount, 1-32UN)
Dimensions (W x H x D)	60.5 mm x 53 mm x 45.3 mm	61 mm x 52 mm x 65 mm

Cameras / Lenses Combination Chart

Type of Lens	Model No.	Focal Length	1/3 type CCD Cameras		1/2 type CCD Camera
			WV-SP509 / WV-SP508 / WV-SP306 / WV-SP305 / WV-SP302	WV-CP300 /WV-CP500 WV-CP600 Series	WV-CL930
1/3 type ALC Variable Focal	WV-LZA61/2S	3.8 mm ~ 8 mm	NO	YES	NO
	WV-LZ62/8S	5 mm ~ 40 mm	NO	YES	NO

Lens Selection Chart

The examples displayed below are monitor images captured with 1/3 type cameras, illustrating the relationship between lens focal length and the capture image.
Use these images to select the type of lens best suited to your application.

Lens and Focal Length		Distance between Camera and Subject				
		2 m	4 m	6 m	8 m	10 m
2x Variable Focal **WV-LZA61/2S** (3.8 mm ~ 8 mm)	3.8 mm (Wide)	Ratio 84% 2.5(W) m x 1.9(H) m	Ratio 42% 5.1(W) m x 3.8(H) m	Ratio 28% 7.6(W) m x 5.7(H) m	Ratio 21% 10.1(W) m x 7.6(H) m	Ratio 17% 12.6(W) m x 9.5(H) m
	8 mm (Standard)	Ratio 178% 1.2(W) m x 0.9(H) m	Ratio 89% 2.4(W) m x 1.8(H) m	Ratio 59% 3.6(W) m x 2.7(H) m	Ratio 44% 4.8(W) m x 3.6(H) m	Ratio 36% 6.0(W) m x 4.5(H) m
8x Variable Focal **WV-LZ62/8S** (5 mm ~ 40 mm)	5 mm (Wide)	Ratio 111% 1.9(W) m x 1.4(H) m	Ratio 56% 3.8(W) m x 2.9(H) m	Ratio 37% 5.8(W) m x 4.3(H) m	Ratio 28% 7.7(W) m x 5.8(H) m	Ratio 22% 9.6(W) m x 7.2(H) m
	40 mm (Tele)	Ratio 889% 0.24(W) m x 0.18(H) m	Ratio 444% 0.48(W) m x 0.36(H) m	Ratio 296% 0.72(W) m x 0.54(H) m	Ratio 222% 0.96(W) m x 0.72(H) m	Ratio 178% 1.2(W) m x 0.9(H) m

(1/3 type Lens)

*Because of monitor over scan, actual images seen may differ slightly from those shown here.
*"Capture image" is the area included in the image by the camera. "Ratio" determines the proportion of this area occupied by the subject in the image that appears on the monitor (Height). If the subject fills the whole screen with the ratio set at 100%, reducing the ratio to 50% will make the subject only half as large.
*When the distance from the camera to the subject is 10 m or more, set both distance to subject and lens focal length to 10x.