



Surveillance and Monitoring Systems Lineup

2013 March

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- The same catalog is provided for all countries. Some accessories may not be available in some countries.
- UniPhier is Panasonic's proprietary System LSI platform.

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Network Products

- Dome Network Cameras...3,4
- Fixed Dome Network Cameras...4,5,6,7
- Fixed Network Cameras...8,9
- Network Cameras...9,10
- Network Video Recorders...11
- Network Video Encoder / Decoder...12
- Network Converter...12
- Software...13

Analog Products

- Dome Cameras...14
- Fixed Dome Cameras...14,15
- Fixed Cameras...16
- Digital Video Recorders...17
- System Controllers...17
- Matrix Switching System...17

Lenses

- Lenses...18
- Cameras / Lenses Combination Chart...18
- Lens Selection Chart...18



New Technology for Analog products

New “Superior Reality” 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

	Full High Definition		High Definition		H.264, MPEG-4 and JPEG supported		H.264 and JPEG supported		MPEG-4 and JPEG supported		MPEG-4 supported				
	90x Extra Optical Zoom		72x Extra Optical Zoom		36x Extra Optical Zoom		36x Optical Zoom		30x Optical Zoom		22x Optical Zoom		21x Optical Zoom		2.3x Optical Zoom
 2 areas VIQS (Variable Image Quality on Specified area)		 Rain Wash Coating		 Dehumidifier		 Face Matching									
 Auto Back Focus		 Wireless Communication		 Body Heat Sensor		 Day&Night (IR)		 Day&Night(Electrical)							
 Water and Dust Resistance: IP55		 Water and Dust Resistance: IP66		 Vandal Resistant		 Intelligent-Video Motion Detection									

* This catalog is provided for all over the world. Some accessories may not be available in some countries.

Dome Network Cameras

Super Dynamic Weather Resistant Full HD PTZ Dome Network Camera

WV-SW598

(24 V AC or PoE Plus)

Launches in June 2013



- 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 Accessory

Wall Mount Bracket
WV-Q122A
(in Europe only)



Super Dynamic Weather Resistant HD Dome Network Camera

WV-SW396

WV-SW396A

(24 V AC or PoE Plus)



- 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 IEEE802.3af)
- Dehumidification device for use in various weather conditions
- **Rain wash coating dome cover(WV-SW396A)**
- Smart phone Monitoring
- ONVIF compliant model

Optional Accessory

Wall Mount Bracket
WV-Q122
(for PAL only)



Super Dynamic Weather Resistant HD Dome Network Camera

WV-SW395

WV-SW395A

(24 V AC or PoE Plus)



- 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 Accessory

Wall Mount Bracket
WV-Q122
(for PAL only)



Super Dynamic Full HD PTZ Dome Network Camera

WV-SC588

(12 V DC or PoE)

Launches in August 2013



- 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 Accessory

Embedded Ceiling Mount Bracket
WV-Q126A
Wall Mount Bracket
WV-Q118B



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-Q105	Embedded Ceiling Mount Bracket WV-Q126	Wall Mount Bracket WV-Q118A	Smoke Dome Cover WV-CS4S
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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-Q105	Inner Dome Cover WV-Q157	Wall Mount Brackets WV-Q154C(Clear) WV-Q154S(Smoke)	Embedded Ceiling Mount Brackets WV-Q155C(Clear) WV-Q155S(Smoke)	Indoor Dome Covers WV-Q156C(Clear) WV-Q156S(Smoke)
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● Dome Network Cameras

HD Dome Network Camera

WV-SC384

(12 V DC or PoE)

ONVIF



- 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-Q105	Inner Dome Cover WV-Q157	Wall Mount Brackets WV-Q154C (Clear) WV-Q154S (Smoke)	Embedded Ceiling Mount Brackets WV-Q155C (Clear) WV-Q155S (Smoke)	Indoor Dome Covers WV-Q156C (Clear) WV-Q156S (Smoke)
		(Smoke Type)	(Smoke Type)	(Smoke Type)

Super Dynamic
Full HD Vandal Resistant Dome Network Camera

WV-SW559

(12 V DC or PoE)

ONVIF



- 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
- 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	Smoke Dome Cover WV-CW4S

Super Dynamic
HD Vandal Resistant Dome Network Camera

WV-SW355

(12 V DC or PoE)

ONVIF



- 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	Heater Unit WV-SW3H	Smoke Dome Cover WV-CW4S

● Fixed Dome Network Cameras

360-degree Super Dynamic
Vandal Resistant Dome Network Camera

WV-SW458 / WV-SW458M

(12 V DC or PoE)



WV-SW458



*Network connector section (RJ45 connector)



WV-SW458M



*Network connector section (M12 connector)



- 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.
- **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.
- Vandal resistant mechanism for high reliability
- "Railway applications – Electronics equipment used on rolling stock" compatible with EN50155

Super Dynamic
Full HD Vandal Resistant Dome Network Camera

WV-SW558

(12 V DC or PoE)

ONVIF



- 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	Smoke Dome Cover WV-CW4S

Super Dynamic
Vandal Resistant Dome Network Camera

WV-SW352

(12 V DC or PoE)

ONVIF



- 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	Heater Unit WV-SW3H	Smoke Dome Cover WV-CW4S

● Fixed Dome Network Cameras

Super Dynamic
Full HD Vandal Resistant Dome Network Camera

WV-SW158

(PoE)

Launches in June 2013



ONVIF



- 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
- Full duplex bi-directional audio
- 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 Launches in June 2013

Super Dynamic
HD Vandal Resistant Dome Network Camera

WV-SW155 / SW155M

(PoE)



ONVIF



WV-SW155

*Network connector section (RJ45 connector)



WV-SW155M

*Network connector section (M12 connector)



- 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 802.3af
- 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

Super Dynamic
Vandal Resistant Dome Network Camera

WV-SW152 / SW152M

(PoE)



ONVIF



WV-SW152

*Network connector section (RJ45 connector)



WV-SW152M

*Network connector section (M12 connector)



- 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 802.3af
- 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

Super Dynamic
Full HD Vandal Resistant Dome Network Camera

WV-SF549

(12 V DC or PoE)



ONVIF



- 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-Q105 (for PAL only)

Super Dynamic
Full HD Vandal Resistant Dome Network Camera

WV-SF548

(12 V DC or PoE)



ONVIF



- 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
- Vandal resistant mechanism for high reliability
- Smart phone Monitoring
- ONVIF compliant model

Optional Accessory

Ceiling Mount Bracket WV-Q105 (for PAL only)

Fixed Dome Network Cameras

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



ONVIF



- 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-Q105
(for PAL only)

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



ONVIF



- 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
- 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-Q174Smoke Dome Cover
WV-CF5S
(for PAL only)Ceiling Mount Bracket
WV-Q105
(for PAL only)

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



- 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.
- **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

Optional Accessories

Ceiling Mount Bracket
WV-Q105
(for E models only)

Vandal Resistant Dome Network Camera **WV-SF342** (12 V DC or PoE)



ONVIF



- 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-Q105
(for PAL only)

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



ONVIF



- 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
- Smart phone Monitoring
- ONVIF compliant model

Optional Accessories

Embedded Ceiling Mount Bracket (Sail white)
WV-Q174Smoke Dome Cover
WV-CF5S
(for PAL only)Ceiling Mount Bracket
WV-Q105
(for PAL only)

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



ONVIF



- 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-Q174Smoke Dome Cover
WV-CF5SCeiling Mount Bracket
WV-Q105
(for PAL only)

Fixed Dome Network Cameras

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



ONVIF



- 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-Q174Smoke Dome Cover
WV-CF5S
(for PAL only)Ceiling Mount Bracket
WV-Q105
(for PAL only)

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



ONVIF



- 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

Optional Accessories

Embedded Ceiling Mount Bracket (Sail white)
WV-Q174Smoke Dome Cover
WV-CF5S
(for PAL only)Ceiling Mount Bracket
WV-Q105
(for PAL only)

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

Launches in June 2013



- 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.
- 3x extra zoom at 640 x 360 resolution
- Full duplex bi-directional audio
- Low profile design for discrete installation
- Wide coverage (Horizontal: 100 °, Vertical: 81 °)
- ONVIF compliant model

Optional Accessory

Smoke Dome Cover
WV-CW6SA
Launches in June 2013

HD Dome Network Camera **WV-SF135** (PoE)



- 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

Dome Network Camera **WV-SF132** (PoE)



- 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

Super Dynamic HD Vandal Resistant Dome Network Camera **WV-NW502S** (12 V DC or PoE)



ONVIF



- 1080p HD images up to 15 fps / 720p HD images up to 30 fps
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size*
- High sensitivity: 1.0 lx (Color), 0.08 lx (B/W) at F1.2 (Wide) / 0.06 lx (Color), 0.005 lx (B/W) at F1.2 (Wide) with Sens Up 16x*
- **Super Dynamic** 128x wider dynamic range
- **Face Super Dynamic** technology ensures clear face image
- Up to 2,048 x 1,536 JPEG stream

- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- ABF (Auto Back Focus) and ABS (Adaptive Black Stretch)
- Progressive Output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

* 1.3 Megapixel mode

Optional Accessories

Embedded Ceiling Mount Bracket
WV-Q169Smoke Dome Cover
WV-CW4S

● Fixed Network Cameras

Super Dynamic Full HD Network Camera

WV-SP509

(12V DC or PoE)

Lens: optional



ONVIF



- 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 30fps 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

HD Network Camera

WV-SP306

(12 V DC or PoE)

Lens: optional



ONVIF



- 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-SP105

(12 V DC or PoE)



ONVIF



- 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

Super Dynamic Full HD Network Camera

WV-SP508

(12V DC or PoE)

Lens: optional



ONVIF



- 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 30fps 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-SP305

(12 V DC or PoE)

Lens: optional



ONVIF



- 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-SP102

(12 V DC or PoE)



ONVIF



- 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

Network Camera

WV-SP302

(12 V DC or PoE)

Lens: optional



ONVIF



- 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
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring

Super Dynamic HD Network Camera

WV-NP502

(12 V DC or PoE)

Lens: optional



ONVIF



- 1,080p HD images up to 15 fps / 720p HD images up to 30 fps
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size*
- High sensitivity: 1.0 lx (Color), 0.08 lx (B/W) at F1.4 / 0.06 lx (Color), 0.005 lx (B/W) at F1.4 (Wide) with Sens Up 16x*
- **Super Dynamic** 128x wider dynamic range
- **Face Super Dynamic** technology ensures clear face image
- Up to 2,048 x 1,536 JPEG stream
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- ABF (Auto Back Focus) and ABS (Adaptive Black Stretch)
- Progressive Output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring
- 1.3 Megapixel mode

● Fixed Network Cameras

Super Dynamic Weather Resistant HD Network Camera

WV-SW316L

(12 V DC or PoE)



ONVIF



- 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

Optional Accessory

Adapter Box

WV-Q120

NTSC only



Super Dynamic Weather Resistant HD Network Camera

WV-SW316

(12 V DC or PoE)



ONVIF



- 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

Optional Accessory

Adapter Box

WV-Q120

NTSC only



Super Dynamic Weather Resistant HD Network Camera

WV-SW314

(PoE/NTSC)



ONVIF



- 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

Optional Accessory

Adapter Box

WV-Q120

NTSC only



● Network Cameras

Outdoor Pan-tilt Network Camera

WV-SW175

(12V DC or PoE)



ONVIF



- 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)



ONVIF



- 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)



ONVIF



- 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)



ONVIF



- 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)



ONVIF



- 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

Network Cameras

Pan-tilt Network Camera

BL-VT164

9 V DC (Use only with Panasonic AC adapter)



Onvif

Pan-tilt Wireless Network Camera

BL-VT164W

9 V DC (Use only with Panasonic AC adapter)



Onvif



- 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 Network Camera

BL-VP104W

6.5 V DC (Use only with Panasonic AC adapter)

Network Camera

BL-VP104

6.5 V DC (Use only with Panasonic AC adapter)



Onvif

BL-VP104W



Onvif

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



- 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 Recorders

Network Disk Recorder

WJ-NV200

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



Onvif



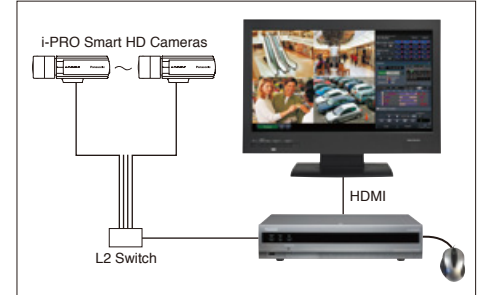
- H.264, MPEG-4 and JPEG multi format
- Up to 16 network cameras can be connected and recorded.
- Quick setup by automatic camera detection and simple setup wizard without the use of PC
- Simple mouse operation by new GUI without the use of PC
- Supports the Full HD output (HDMI)
- Real Time Face Matching function by matching registered face images with a face displayed on live images
- Onvif NVC (Network Video Client), core spec Ver.1.02 conformant

Network Disk Recorder with DVD drive (for NTSC only)

WJ-NV200V

(120V AC)

Easy Operation and Setup without PC



Additional Business Intelligence Kit **WJ-NVF20**



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

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

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

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 Video Encoder / Decoder

4 CH H.264 Video Encoder WJ-GXE500

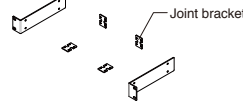
(12 V DC or PoE)



- 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
- Face detection function detects the position of human face (CH1 only)
- Progressive Output
- Bi-directional audio (1CH)
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

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



1 CH H.264 Video Encoder WJ-GXE100

(12 V DC or PoE)



ONVIF



- 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

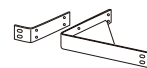
(12 V DC, 100 V -240 V AC adaptor attached)



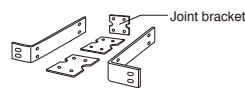
- Up to 256 cameras, including cameras connected to the i-Pro Network Video Encoder (WJ-GXE500), can be registered
- HDMI interface supporting 1,920 x 1,080 display size
- 1x 4VGA image with 2x VGA images or 6x VGA images can be displayed in multiscreen mode
- Each of VGA images can be displayed at 25 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)



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

Network Converter

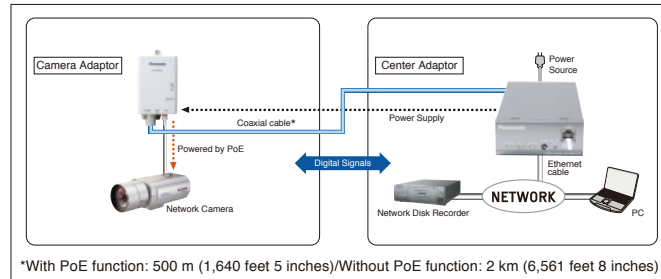
Coaxial-LAN Converter with PoE function BY-HPE11KT



(Center Adaptor)

(Camera Adaptor)

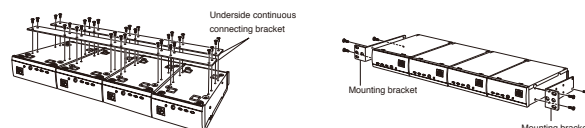
System Example



*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)



- 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.

Software

IP Matrix Server Software

Version 7 **WV-ASC970**

IP Matrix Client Software

Version 7 **WV-ASM970**



(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)

i-PRO Management Software

Extension Software

WV-ASM200 WV-ASE201 / ASE202 / ASE203



(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 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

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 x 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

WV-CW590/WV-CW590A (220 V ~ 240 V AC: PAL)
WV-CW594/WV-CW594A (24 V AC: NTSC, PAL)



- 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 Accessories

Wall Mount Bracket
WV-Q122
(for PAL only)



Super Dynamic 6
Day/Night Dome Camera

WV-CS580 Series

WV-CS580 (220 V ~ 240 V AC: PAL)
WV-CS584 (24 V AC: NTSC, PAL)



- 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
WV-Q105
(for PAL only)



Embedded Ceiling Mount Bracket
WV-Q126



Pendant Mount Bracket
WV-Q117



Wall Mount Bracket
WV-Q118A/ WV-Q118



Smoke Dome Cover
WV-CS4S
(for PAL only)



● 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)



- 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



Heater Unit
WV-CW5H



Embedded Ceiling Mount Bracket
WV-Q169



Smoke Dome Cover
WV-CW4S



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)



- 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



Embedded Ceiling Mount Bracket
WV-Q169



Smoke Dome Cover
WV-CW4S



● Fixed Dome Cameras

Super Dynamic 6
Day/Night Fixed Dome Camera

WV-CF600 Series

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)



- **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 Accessories

Embedded Ceiling Mount Bracket
(Sail white)
WV-Q174



Super Dynamic 5 Fixed Dome Camera

WV-CF504

WV-CF504 (24 V AC or 12 V DC: NTSC, PAL)



- 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

Embedded Ceiling Mount Bracket
WV-Q175



Smoke Dome Cover
WV-CW4S



Day/Night Fixed Dome Camera

WV-CF344/CF354/CF374

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)



- 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 Accessories

Embedded Ceiling Mount Bracket
(Sail white)
WV-Q174



IR LED Day/Night
Fixed Dome Camera

WV-CF300L Series

WV-CF314L (24 V AC or 12 V DC: NTSC, PAL), WV-CF304L (24 V AC or 12 V DC: PAL)



- 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 Accessories
Smoke Dome Cover
WV-CF5S



Fixed Cameras

Super Dynamic 6
Day/Night Fixed Camera

WV-CP600 Series

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)



SD6 Super Dynamic
IP66 Standard
WV-CP620
WV-CP624

- **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 Accessory

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)



Day/Night Camera

WV-CP300 Series

WV-CP300 (120 V AC: NTSC, 220 ~ 240 V AC: PAL), WV-CP304 (24 V AC or 12 V 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)



SD5 Super Dynamic
IP66 Standard
WV-CP310
WV-CP314

- 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)



Super Dynamic III
Weather Resistant Day/Night Camera

WV-CW380 Series

WV-CW380 (220 V - 240 V AC: PAL)
WV-CW384 (24 V AC or 12 V DC: NTSC, PAL)



SDIII Super Dynamic
IP66 Standard
WV-CW380
WV-CW384

- High sensitivity: 0.65 lx (Color), 0.09 lx (B/W) at F1.6 / 0.065 lx (Color), 0.009 lx (B/W) at F1.6 with Sens Up 10x
- **Super Dynamic III** 128x (NTSC) / 160x (PAL) wider dynamic range
- ABF (Auto Back Focus) adjustment
- IP66 rated water and dust resistant
- Built-in heater function for varying temperature
- 5.0 mm ~ 40 mm, 8x varifocal lens with 2x digital zoom

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

SD5 Super Dynamic
IP66 Standard
WV-CL930
WV-CLR930

- 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 Defector)

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)



SD5 Super Dynamic
IP66 Standard
WV-CP504
WV-CP500

- 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

Weather Resistant IR LED Day/Night Fixed camera

WV-CW300L Series

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)



IP66 Standard
WV-CW324L
WV-CW314L

- 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)

Super Dynamic 6
Day/Night Surveillance Camera (for PAL only)

WV-CZ492

(12 V DC:PAL)

Day/Night Surveillance Camera (for PAL only)

WV-CZ392

(12 V DC:PAL)



SD6 Super Dynamic
IP66 Standard
WV-CZ492

- 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. (WV-CZ492)
- 36x Optical Zoom Lens

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 **UniPhier** **SD5Link**
H.264/MPEG-4 CODEC
Super Dynamic

- 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



Optional Accessories

HDD Canister

WJ-HDU40K

RAID Board

WJ-HDB601

Built-in DVD Drive

WJ-HDB611

Hard Disk Extension Unit

WJ-HDE400



System Controllers

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

WV-CU950

- 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



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

WV-CU650

- 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



- 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

System650EX/System650 System Components

Matrix Switcher WJ-SX650	Card Cage WJ-SX650U	Video Input Board WJ-CA65LC32 (32 inputs)	Video Output Board WJ-PB65M16 (16 outputs)	Network Board WJ-PB65E01 (for System650EX only)	D-sub/BNC Video Cable WJ-CA68 (0.5 m)
Expansion Cable Kit WJ-CA65L20K (2 m) WJ-CA65L07K (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 7) (for System650EX only)	IP Matrix Client Software WV-ASM970 (Version 7)	
			(The picture above is only for image.)	(The picture above is only for image.)	

256 Inputs Matrix Switching System

System650



- 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)

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

			1/3 type CCD Cameras		1/2 type CCD Camera
Type of Lens	Model No.	Focal Length	WV-SP509 / WV-SP508 / WV-SP306 / WV-SP305 / WV-SP302 / WV-NP502	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
1/3 type Lens	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

*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.

INDEX

	page
BB	
BB-HNP17	Network Camera Recorder with Viewer Software 13
BL	
BL-VP101	Network Camera 10
BL-VP104	Network Camera 10
BL-VP104W	Wireless Network Camera 10
BL-VT164	Pan-tilt Network Camera 10
BL-VT164W	Pan-tilt Wireless Network Camera 10
BY	
BY-HPE11KT	Coaxial-LAN Converter 12
BY-HCA10	Rack Mount Connecting Fitting 12
WJ	
WJ-CA65L20K/L07K	Expansion Cable Kit (System650) 17
WJ-CA68	D-sub/BNC Video Cable (System650) 17
WJ-GXD400	Multi Channel High Definition Video Decoder 12
WJ-GXE100	1 CH H.264 Video Encoder 12
WJ-GXE500	4 CH H.264 Video Encoder 12
WJ-HD616	16ch H.264 Digital Disk Recorder 17
WJ-HD716	16ch Real-time H.264 Digital Disk Recorder 17
WJ-HDB601	RAID Board (WJ-HD616/HD716) 17
WJ-HDB611	Built-in DVD Drive (WJ-HD616/HD716) 17
WJ-HDE900	Hard Disk Extension Unit 11
WJ-HDE400	Hard Disk Extension Unit 11・17
WJ-HDU40K	HDD Canister 17
WJ-ND300A	Network Disk Recorder 11
WJ-ND400	Network Disk Recorder 11
WJ-NDB301	RAID5 Board for WJ-ND300A 11
WJ-NV200	Network Disk Recorder 11
WJ-NV200V	Network Disk Recorder with DVD drive 11
WJ-NVF20	Additional Business Intelligence Kit 11
WJ-PB65C32	Video Input Board (System650) 17
WJ-PB65E01	Network Board (System650EX only) 17
WJ-PB65M16	Video Output Board (System650) 17
WJ-SX650	Matrix Switcher 17
WJ-SX650U	Card Cage 17
WV-A	
WV-ASC970	IP Matrix Server Software 13・17
WV-ASE201/ASE202/ASE203	i-PRO Management Extension Software 13
WV-ASM200	i-PRO Management Software 13
WV-ASM970	IP Matrix Client Software 13・17
WV-C	
WV-CF5S	Smoke Dome Cover 6・7・15
WV-CF102	Day/Night Mini Fixed Dome Camera 15
WV-CF344/CF354/CF374	Day/Night Fixed Dome Camera 15
WV-CF300L Series	IR LED Day/Night Fixed Dome Camera 15
WV-CF504	Super Dynamic 5 Fixed Dome Camera 15
WV-CF600 Series	Super Dynamic 6 Day/Night Fixed Dome Camera 15
WV-CL930 Series	High Sensitive Day/Night Camera 16
WV-CP300 Series	Day/Night Camera 16
WV-CP500 Series	Super Dynamic 5 Day/Night Camera 16
WV-CP600 Series	Super Dynamic 6 Day/Night Fixed Camera 16
WV-CS4S	Smoke Dome Cover 3・14
WV-CS580 Series	Super Dynamic 6 Day/Night Dome Camera 14
WV-CU650	RS-485 System Controller with 3D-Joystick & Jog/Shuttle 17
WV-CU950	Ethernet System Controller with 3D-Joystick & Jog/Shuttle 13・17
WV-CW4S	Smoke Dome Cover 4・7・14・15
WV-CW5H	Heater Unit 14
WV-CW6S	Smoke Dome Cover 5・7
WV-CW6SA	Smoke Dome Cover 5・7
WV-CW300L Series	Weather Resistant IR LED Day/Night Fixed Camera 16
WV-CW334/CW364	Vandal Resistant Fixed Dome Camera 14
WV-CW380 Series	Super Dynamic III Weather Resistant Day/Night Camera 16
WV-CW500 Series	Super Dynamic 5 Vandal Resistant Fixed Dome Camera 14
WV-CW590 Series	Super Dynamic 6 Weather Resistant Dome Camera 14
WV-CZ392	Day/Night Surveillance Camera 16
WV-CZ492	Super Dynamic 6 Day/Night Surveillance Camera 16
WV-L	
WV-LZ62/8S	1/3 type 8x Varifocal Lens 16・18
WV-LZA61/2S	1/3 type 2x Varifocal Lens 16・18
WV-N	
WV-NP502	Super Dynamic HD Network Camera 8
WV-NW502S	Super Dynamic HD Vandal Resistant Dome Network Camera 7
WV-Q	
WV-Q105	Ceiling Mount Bracket 3・4・5・6・7・14
WV-Q115	Mount Bracket for WV-CW504F 14
WV-Q117	Pendant Mount Bracket 14
WV-Q118	Wall Mount Bracket 14
WV-Q118A	Wall Mount Bracket 3・14
WV-Q118B	Wall Mount Bracket 3
WV-Q120	Adapter Box 9
WV-Q122	Wall Mount Bracket 3・14
WV-Q122A	Wall Mount Bracket 3
WV-Q126	Embedded Ceiling Mount Bracket 3・14
WV-Q126A	Embedded Ceiling Mount Bracket 3
WV-Q154C	Wall Mount Brackets (Clear) 3・4
WV-Q154S	Wall Mount Brackets (Smoke) 3・4
WV-Q155C	Embedded Ceiling Mount Brackets (Clear) 3・4
WV-Q155S	Embedded Ceiling Mount Brackets (Smoke) 3・4
WV-Q156C	Indoor Dome Covers (Clear) 3・4
WV-Q156S	Indoor Dome Covers (Smoke) 3・4

	page
WV-Q157	Inner Dome Cover 3・4
WV-Q169	Embedded Ceiling Mount Bracket 4・7・14
WV-Q174	Embedded Ceiling Mount Bracket (Sail white) 6・7・15
WV-Q175	Embedded Ceiling Mount Bracket 15
WV-Q204/1S	Rack Mount Bracket 12
WV-Q204/2S	Rack Mount Bracket 12
WV-S	
WV-SC384	HD Dome Network Camera 4
WV-SC385	Super Dynamic HD Dome Network Camera 3
WV-SC386	Super Dynamic HD Dome Network Camera 3
WV-SC588	Super Dynamic Full HD PTZ Dome Network Camera 3
WV-SF132	Dome Network Camera 7
WV-SF135	HD Dome Network Camera 7
WV-SF138	Super Dynamic Full HD Dome Network Camera 7
WV-SF332	Dome Network Camera 7
WV-SF335	HD Dome Network Camera 7
WV-SF336	HD Dome Network Camera 6
WV-SF342	Vandal Resistant Dome Network Camera 6
WV-SF346	HD Vandal Resistant Dome Network Camera 6
WV-SF438	360-degree Super Dynamic Dome Network Camera 6
WV-SF538	Super Dynamic Full HD Dome Network Camera 6
WV-SF539	Super Dynamic Full HD Dome Network Camera 6
WV-SF548	Super Dynamic Full HD Vandal Resistant Dome Network Camera 5
WV-SF549	Super Dynamic Full HD Vandal Resistant Dome Network Camera 5
WV-SP102	Network Camera 8
WV-SP105	HD Network Camera 8
WV-SP302	Network Camera 8
WV-SP305	HD Network Camera 8
WV-SP306	HD Network Camera 8
WV-SP508	Super Dynamic Full HD Network Camera 8
WV-SP509	Super Dynamic Full HD Network Camera 8
WV-ST162	Pan-tilt Network Camera 9
WV-ST165	Pan-tilt Network Camera 9
WV-SW152/SW152M	Super Dynamic Vandal Resistant Dome Network Camera 5
WV-SW155/SW155M	Super Dynamic HD Vandal Resistant Dome Network Camera 5
WV-SW158	Super Dynamic Full HD Vandal Resistant Dome Network Camera 5
WV-SW172	Outdoor Pan-tilt Network Camera 9
WV-SW174W	Outdoor Pan-tilt Wireless Network Camera 9
WV-SW175	Outdoor Pan-tilt Network Camera 9
WV-SW314	Super Dynamic Weather Resistant HD Network Camera 9
WV-SW316	Super Dynamic Weather Resistant HD Network Camera 9
WV-SW316L	Super Dynamic Weather Resistant HD Network Camera 9
WV-SW352	Super Dynamic Vandal Resistant Dome Network Camera 4
WV-SW355	Super Dynamic HD Vandal Resistant Dome Network Camera 4
WV-SW395/SW395A	Super Dynamic Weather Resistant HD Dome Network Camera 3
WV-SW396/SW396A	Super Dynamic Weather Resistant HD Dome Network Camera 3
WV-SW3H	Heater Unit 4
WV-SW458/458M	360-degree Super Dynamic Vandal Resistant Dome Network Camera 4
WV-SW558	Super Dynamic Full HD Vandal Resistant Dome Network Camera 4
WV-SW559	Super Dynamic Full HD Vandal Resistant Dome Network Camera 4
WV-SW598	Super Dynamic Weather Resistant Full HD PTZ Dome Network Camera 3