Panasonic

Surveillance and 2014 / June **Monitoring Systems Lineup**





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Network Products

Network Products

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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	
Super Dynamic	VIQS Verified and second and seco	H.264, MPEG-4 and JPEG supported	H.264 and JPEG supported
Full High Definition 1080/60p	Full High Definition 1080 / 30p	High Definition 720/60p 720 / 60p	High Definition 720/30p
Day&Night (IR)	Day&Night(Electrical)	Vandal Resistant	Rain Wash Coating
Dehumidifier	IR LED Equipped	Advanced Auto Tracking	Privacy Mode
High Light Compensation	Fog compensation function	Auto Back Focus	Face Matching
<i>i</i> - <i>VMD</i> Intelligent-Video Motion Detection	Body Heat Sensor	Wireless Wireless Communication	
Water and Standard Uust Resistance: IP55	Water and Dust Resistance: IP66		
EXTRA OPTICAL ZOOM 90x Extra Optical Zoom	DITRA OFFICAL ZOOM 72x Extra Optical Zoom	EXTRA OFFICAL ZOOM 36x Extra Optical Zoom	OPTICAL ZOOM 36x Optical Zoom

PTZ Dome Network Cameras

WV-SW598









- · 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 technology ensures clear face image.
- 30x optical zoom

VIQS

- 90x extra optical zoom at 640x360 resolution with
- 12x digital zoom enabling 1080x zoom.
- · 360 degrees endless Panning
- · Advanced auto tracking
- · Smart phone Monitoring
- SDXC/SDHC/SD Memory card slot
- · Fog and sandstorm compensation

Optional Accessories





- 36x
- 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

Optional Acce



- 72×
- 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

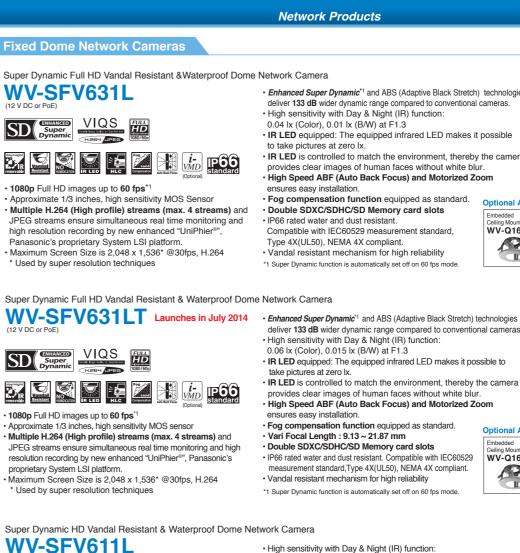






- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size High sensitivity: 0.6 lx (Color), 0.5 lx (B/W) at F1.6 (Wide) /
- 0.038 lx (Color), 0.031 lx (B/W) at F1.6 (Wide) with 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









- · 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 Dvnamic^{*1} and ABS (Adaptive Black Stretch) technologies

deliver 133 dB wider dynamic range compared to conventional cameras.

WV-SW559



- 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 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,
- Optional Accessories Type 4X(UL50), NEMA 4X compliant.
- Dehumidification device for use in various weather conditions
- · Vandal resistant mechanism for high reliability
- Smart phone Monitoring
- Full duplex bi-directional audio SDXC/SDHC/SD Memory card slot



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Dome Network Camera

WV-SW155

Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camera WV-SFV311

Super Dynamic SD(🌌 🖂 IP66

(12 V DC or PoE

Fixed Dome Network Cameras



- 720p HD images up to 60 fps*1
- 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 Dynamic¹ 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
- High Speed ABF (Auto Back Focus) ensures easy installation.
- Fog compensation function equipped as standard.
- · Super Chroma Compensation function realizes a better color reproducibility even in low illumination · IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard,
- Type 4X(UL50), NEMA 4X compliant. · Vandal resistant mechanism for

high reliability

*1 Super Dynamic function is automatically set off on 60 fps mode



Super Dynamic HD Vandal Resistant Dome Network Camera



- 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 guality 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 IP66 rated water and dust resistant Compatible with
- IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.



Super Dynamic HD Vandal Resistant Wall Mount Network Camera





- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor

6

- 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 technology ensures clear face image. 2x extra zoom at VGA resolution

Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camera WV-SFV310



Network Products

- · 720p HD images up to 60 fps*1
- 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 Dynamic¹ and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.

- · High sensitivity with Day & Night(Electrical) function:
- 0.01 lx (Color), 0.008 lx (B/W) at F1.3 • Fog compensation function equipped as standard.
- · Super Chroma Compensation function realizes a better color reproducibility even in low illumination
- · IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.

 Vandal resistant mechanism for high reliability

*1 Super Dynamic function is automatically set off on 60 fps mode



Super Dynamic Vandal Resistant Dome Network Camera



· 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 Optional Accesso

(PoE) IEEE 802.3af Smart phone Monitoring

 IP66 rated water and dust resistant Compatible with IEC60529 measurement standard,

Type 4X(UL50), NEMA 4X compliant.







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, Type 4X(UL50), NEMA 4X compliant,

Super Dynamic Full HD Vandal Resistant Dome Network Camera

WV-SW158

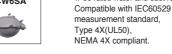


VIQS H264 JPEG



· 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 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. onal Accessor
- Compatible with IEC60529 measurement standard, WV-CW6SA Type 4X(UL50). NFMA 4X compliant



• Wide coverage

Super Dynamic Full HD Vandal Resistant Dome Network Camera WV-SFR631L



· 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*1 and ABS (Adaptive Black Stretch) technologies

IR LED is controlled to match the environment, thereby the camera provides

High Speed ABF (Auto Back Focus) and Motorized Zoom ensures easy installation.

Ceiling Mount Brack WV-Q105A

Onol

Ontional Accessorie

WV-Q174B

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WV-CR1S

High sensitivity with Day & Night (IR) function:0.04 lx (Color), 0.01 lx (B/W) at F1.3

deliver 133 dB wider dynamic range compared to conventional cameras.

• IR LED equipped: The equipped infrared LED makes it possible to take

· 1080p Full HD images up to 60 fps*1 · Approximate 1/3 inches, high sensitivity MOS Sensor

clear images of human faces without white blur.

Double SDXC/SDHC/SD Memory card slots

· Fog compensation function equipped as standard.

* Used by super resolution techniques

pictures at zero lx.

for high reliability

Vandal resistant mechanism

*1 Super Dynamic function is

automatically set off on 60 fps mode.

• Maximum Screen Size is 2,048 x 1,536* @30fps, H.264



*1 Super Dynamic function is automatically set off on 60 fps mode.



WV-CF5SA



- Super high resolution at Full HD/1,920 x 1,080 created by
- 3.1 Megapixel 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 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
- · Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot



- · 720p HD images up to 60 fps*1
- 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'1 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
- · High Speed ABF (Auto Back Focus) ensures easy installation.
- · Fog compensation function equipped as standard.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination.

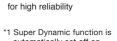
Optional Accessories

Ceiling Mount Bracket WV-Q174B

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Ceiling Mount Bracket WV-Q105A



· Vandal resistant mechanism



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



- 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. Optional Accessory
- 2x extra zoom at VGA resolution Coiling Mount Bracks Dual H.264 / MPEG-4 and JPEG simultaneous stream output WV-Q105A
- 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 Accessor

Ceiling Mount Bracke WV-Q105A

Sug



· Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform

and 2 areas VIQS (Variable Image Quality on Specified area) function can

Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x

Super Dynamic Full HD Vandal Resistant

360p image up to 30fps simultaneously.

· 3x Extra optical zoom at 360p resolution.

· 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

(Picture Mode : 2 Mega pixel [16:9])

decrease network bandwidth.

Smart phone Monitoring

3.1Megapixel high sensitivity MOS Sensor.

• Super high resolution at Full HD/1,920 x 1,080 created by

wider dynamic range compared to conventional cameras.

· Face Super Dynamic technology ensures clear face image







Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SFR310 (12 V DC or Pol







· 720p HD images up to 60 fps*1 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 Dynamic¹ and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.

 High sensitivity with Day & Night(Electrical) function:0.01 lx (Color), 0.008 lx (B/W) at F1.3 · Fog compensation function equipped as standard.

· Super Chroma Compensation function realizes a better color reproducibility even in low illumination

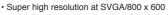
· Vandal resistant mechanism for high reliability

Ceiling Mount Bracke WV-Q105A

*1 Super Dynamic function is automatically set off on 60 fps mode.





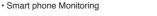


created by newly developed 1.3 Megapixel high sensitivity MOS Sensor • Full frame (Up to 30 fps) transmission at SVGA/800 x 600 image size · High sensitivity: 0.2 lx (Color), 0.13 lx (B/W) at F1.3 (Wide) /

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 Optional Accessor Dual H.264 / MPEG-4 and JPEG simultaneous stream output Coiling Mount Bracks Power over Ethernet (PoE) IEEE 802.3af WV-Q105A





C.

Optional Accessories





Super Dynamic Full HD Dome Network Camera WV-SF539

*1 Super Dynamic function is

automatically set off on

60 fps mode.



- 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 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
- Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot



Super Dynamic Full HD Dome Network Camera

WV-SFN631L

Super Dynamic Habit

I SI platform

pictures at zero lx.

installation.

· Approximate 1/3 inches, high sensitivity MOS Sensor

• Maximum Screen Size is 2,048 x 1,536* @30fps, H.264

• 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

deliver 133 dB wider dynamic range compared to conventional cameras.

• IR LED equipped: The equipped infrared LED makes it possible to take

IR LED is controlled to match the environment, thereby the camera provides

· High Speed ABF (Auto Back Focus) and Motorized Zoom ensures easy

Optional Accessories Ceiling Mount Bracke WV-Q105A

Dura

· 1080p Full HD images up to 60 fps*1

* Used by super resolution techniques

ABS (Adaptive Black Stretch) technologies

· High sensitivity with Day & Night (IR) function:

clear images of human faces without white blur.

· Fog compensation function equipped as standard. Double SDXC/SDHC/SD Memory card slots

• Enhanced Super Dynamic^{*1} and

0.04 lx (Color), 0.01 lx (B/W) at F1.3



Ceiling Mount Brack WV-Q174B







9



- 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 Dvnamic*1 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
- · High Speed ABF (Auto Back Focus) ensures easy installation.
- · VIQS (Variable Image Quality on Specified area) technology allows the designated eight areas to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Fog compensation function equipped as standard.
- · Super Chroma Compensation unction realizes a better color reproducibility even in low illumination.
- · Full duplex bi-directional audio
- *1 Super Dynamic function is automatically set off on 60 fps mode.



Super Dynamic HD Dome Network Camera

WV-SFN310





- 720p HD images up to 60 fps*1
- 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*1 and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- High sensitivity with Day & Night(Electrical) function:0.01 lx (Color), 0.008 lx (B/W) at F1.3 • VIQS (Variable Image Quality on Specified area) technology allows the designated
- eight areas to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate. · Fog compensation function equipped as standard.
- · Super Chroma Compensation function realizes a better color reproducibility
- even in low illumination
- · Full duplex bi-directional audio
- *1 Super Dynamic function is automatically set off on 60 fps mode

Optional Accessories Ceiling Mount Bracket WV-Q105A WV-CF5SA Ceiling Mount Brack WV-Q174B



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'1 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

- · High Speed ABF (Auto Back Focus) ensures easy installation. · VIQS (Variable Image Quality on Specified area) technology allows the designated eight areas to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- · Fog compensation function equipped as standard.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination.
- · Full duplex bi-directional audio

*1 Super Dynamic function is automatically set off on 60 fps mode.



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HD Dome Network Camera
WV-SF336
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- 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







HD Dome Network Camera

- 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



Super Dynamic Full HD Dome Network Camera **WV-SF138**





- · 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 Dvnamic 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 °)









WV-SF135

720p HD images up to 30 fps

· 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 °)





Super Dynamic Weather Resistant HD

Network Camera WV-SW316L

≥∰ IP66

- 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 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
- · Fog compensation function equipped as standard. · IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.

Super Dynamic Full HD Network Camera WV-SPN631 Launches in July 2014



- · 1080p Full HD images up to 60 fps*1
- 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*1 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.(Optional) · IR LED is controlled to match the environment, thereby the camera
- provides clear images of human faces without white blur.(Optional) · High Speed ABF (Auto Back Focus) ensures easy installation.
- Double SDXC/SDHC/SD Memory card slots
- · Fog compensation function equipped as standard.
- *1 Super Dynamic function is automatically set off on 60 fps mode





Network Products

Super Dynamic Weather Resistant HD

Network Camera



>∛ IP66

- 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 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
 Fog compensation function equipped as standard. · IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.



Super Dynamic Weather Resistant HD

Network Camera

H264 MPEG-4 UPEG





- 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 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
- Fog compensation function equipped as standard. · IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.

Super Dynamic HD Network Camera WV-SPN611 Launches in July 2014



- · 720p HD images up to 60 fps*1
- 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 Dynamie⁺¹ 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.(Optional)
- · IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.(Optional) • High Speed ABF (Auto Back Focus) ensures easy installation. Double SDXC/SDHC/SD Memory card slots
- · Fog compensation function equipped as standard.

*1 Super Dynamic function is

automatically set off on

60 fps mode

Optional Accessories







Super Dynamic Full HD Network Camera

WV-SP509

- 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.

HD Network Camera

WV-SP306

- Smart phone Monitoring • Full duplex bi-directional audio
- SDXC/SDHC/SD Memory card slot

HD Network Camera **WV-SP305**





Lens: optional

Lens: optional

• 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
- Dual H.264 / MPEG-4 and JPEG simultaneous
- ensures easy installation

WV-SP105



• 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

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- clear face Image. 2x extra zoom at VGA resolution stream output

 Power over Ethernet (PoE) IEEE 802.3af ABF (Auto Back Focus) Smart phone Monitoring

HD Network Camera



cameras.

clear face Image.

Smart phone Monitoring



- (Wide) with Sens Up 8x
- · Dual H.264 and JPEG simultaneous stream output
- Power over Ethernet (PoE) IEEE 802.3af
- Smart phone Monitoring



- · 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, Type 4X(UL50), NEMA 4X compliant.
- 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

360-degree Super Dynamic Vandal Resistant Dome Network Camera **WV-SF448E**





Optional Accessor

Ceiling Mount Bracket

Dura

WV-Q105A

- · 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.



VIQS H264 JPEG

- · 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



360-degree Network Microphone WV-SMR10

With 360-degree Network Camera WV-SF438

WV-SMR10N3

Launches in August 2014



360-degree Network Microphone WV-SMR10

Launches in August 2014

Vanda

- · 360-degree audio monitoring
- With microphone arrays, 360-degree audio monitoring from a specified direction is possible Specifying a desired direction on a camera image
- While watching the 360-degree Network Camera (WV-SW458/WV-SF448/WV-SF438) image, audio from the desired location can be freely specified by clicking on that location.
- Synchronizing with the Network Disk Recorder
- After recording audio to a Network Disk Recorder*, the sound collecting direction can be specified while playing back the recorded image of the 360-degree Network Camera.
- *Models WJ-NV300 (as of August 2014) and WJ-ND400 (as of October 2014) are supported · Can be installed with a 360-degree Network Camera as one unit
- The microphone can be neatly installed in one place by integrating it with a Panasonic 360-degree Network Camera.

- **Network Products** Pan / tilt Network Cameras Outdoor Pan-tilt Network Camera Outdoor Pan-tilt Wireless Network Camera WV-SW175 WV-SW174W 720p HD images up to 30 fps • 720p HD images up to 30 fps • 1.3 Megapixel high sensitivity MOS Sensor 1.3 Megapixel high sensitivity MOS Sensor · Full frame (Up to 30 fps) transmission Multiple H.264 (High profile) streams by "UniPhier®" at 1,280 x 960 image size • Full frame (Up to 30 fps) transmission at 1,280 x 960 image size · Pan-tilt and Preset Map Shot function realizes wide 2x extra zoom at VGA resolution · Pan-tilt and Preset Map Shot function realizes wide range monitoring. (Horizontal angle:180° Vertical angle 123°) • 2x extra zoom at VGA resolution range monitoring. (Horizontal angle:180° Vertical angle 123°) • Wireless LAN function (IEEE802.11 n/g/b) · IP55 rated water and dust resistant. Compatible with IEC60529
 - Smart phone Monitoring

Pan-tilt Network Camera WV-ST165

Smart phone Monitoring



- 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



Wireless Network Camera BL-VP104W 6.5 V DC (Use only with Panasonic AC adapter)
BL-VP104W
• 720p HD images up to 30 fps



Network Camera

BL-VP104

- 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







- Smartphone Monitoring

Network Products

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





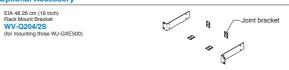
Multi Channel High Definition Video Decoder **WJ-GXD400** (12 V DC, 100 V -240 V AC adaptor attached



· 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



(H.264 JEEG

- 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.

H264 MPEG-4

- · 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





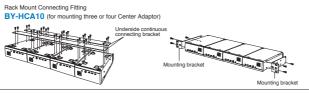
Coaxial-LAN Converter with PoE function BY-HPE11KT (Indoor use only)



- · 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 Power Source wered by PoE NETWORK *With PoE function: 500 m (1,640 feet 5 inches)/Without PoE function: 2 km (6,561 feet 8 inches)

Optional Accessory



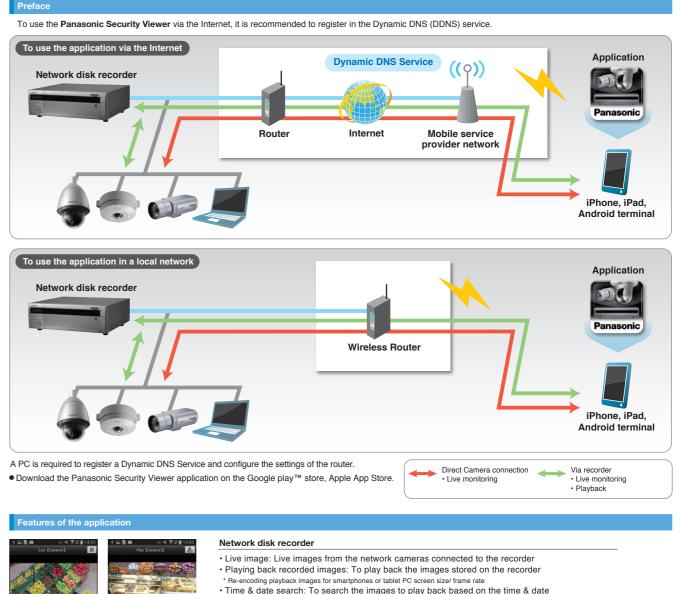
Application for Smartphone / Tablet PC

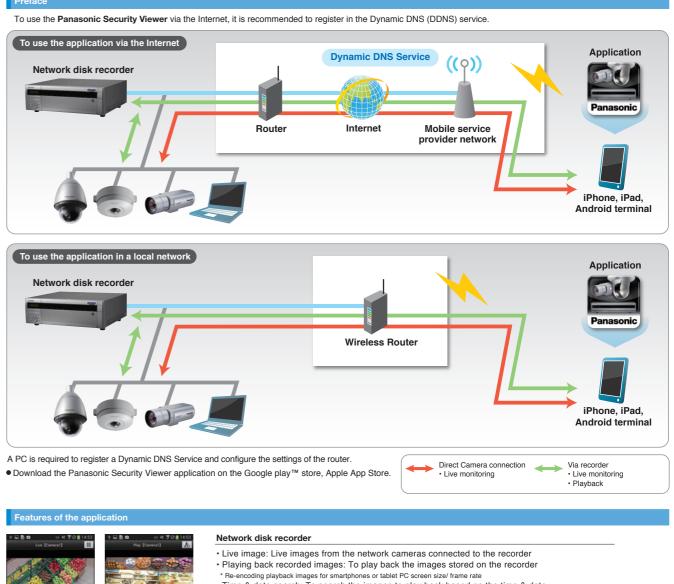
Panasonic

Panasonic Security Viewer Ver.2.1*

Introduction of the application

Panasonic Security Viewer Ver.2.1* is an application that can view the images from i-PRO SmartHD Series Network Cameras. Network Disk Recorder (WJ-NV300*WJ-NV200/WJ-ND400/WJ-HD616/HD716). By connecting a terminal to a 3G/4G or wireless LAN (Wi-Fi), it is possible to view live images from cameras registered on the recorder and recorded images stored on recorders. *As of June 2014







Network camera

 Network camera control^{*} * Depends on the network camera function

Outline of the application Panasonic Security Viewer version 2.1 Application name OS Android[™] OS 4.0 is recommended. How to get the application Download from the Google play[™] store. Date to start the service End of June Operation check terminals Panasonic TOUGHPAD FZ-A1, JT-B1,

Galaxy S2, Galaxy S3, Galaxy S4

• Download the application from here.

http://security.panasonic.com/pss/security/psv/android/index.html

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(Resolution switchover, focus, panning/tilting, zoom, preset position switchover)

Phone / iPad

Outline of the application					
Application name Panasonic Security Viewer version 2.1					
OS	iOS 5.1 or later				
How to get the application	Download from the App Store.				
Date to start the service	End of June				
Operation check terminals	iPhone4s, iPhone5, iPhone5S, iPad2,				
	iPod touch (5th)				

Download the application from here.

one / iPad http://security.panasonic.com/pss/security/psv/ios/index.html

Advanced configuration

Server based recording and video management platform WV-ASR500 Series



 Open platform, Panasonic's and 51 other vendor's network cameras support.

- · Up to 128 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

Network Cameras WV-ASR500 IP Matrix Server Software Network 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

Network Products

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



· H.264 and JPEG multi format · 16(NTSC) / 9(PAL) network cameras can be connected and recorded as default. Up to 32⁻¹ 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) • HDD capacity is expandable up to 20 HDD slots (2 HDD slots in the main unit and 2 optional WJ-HDE400 Hard Disk Extension Units each with 9 HDD slots) *1 Two Additional Camera Kits WJ-NVE30 are necessary.(NTSC) Three Additional Camera Kits WJ-NVE30 are necessary.(PAL) Additional Camera kit : WJ-NVE30

NTSC mode



: 220 ~ 240 V AC, 50 Hz (PAL) 120 V AC, 60 Hz (NTSC) : approx. 130 W : 430 mm (W) x 132 mm (H) x 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D)) (excluding rubber feet and projections) 13.5 kg (29.8 lbs.) (When no HDD exist) 20 kg (44.15 lbs.) (When 9 HDDs are in



Network Disk Recorder

WJ-NV300

Network Disk Recorder with DVD drive (for NTSC only) **WJ-NV200V**



• 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)



* To use this product, it is necessary to register the license (Registration Key) for Additional Business Intelligence Kit into the WJ-NV300/WJ-NV200 in use.

Network Camera Recorder with Viewer Software **BB-HNP17**

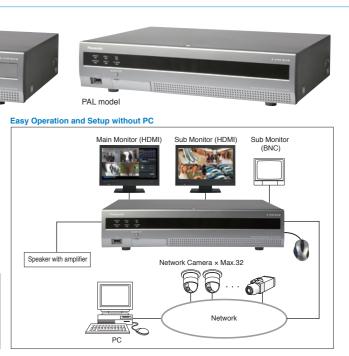


H264 MPEG-4

- 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

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Easy Operation and Setup without PC i-PRO Smart HD Cameras - ME -

L2 Switch



- · 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®

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

IP Matrix Server Software

IP Matrix Client Software Extension Software **WV-ASM970 WV-ASC970** WV-ASE901* (Monitor the status of Fire Alarm System)



Easy and smooth integration from analog to IP system

WV-ASC970

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: WV-ASR500 Series, WJ-ND400 series, WJ-ND300 series, WJ-ND200 series, WJ-NV200 series, WJ-NV300 series, WJ-NV300 series, WJ-ND300 seri

- 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 solit) 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 Extension Software WV-ASM200 WV-ASE201 / ASE202 / ASE203 / ASE204 / ASE205



- · 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

WV-ASE20

- Add Live window. Map window in addition to the Operation window (3 monitors)
- Control using the Ethernet System Controller WV-CU950 • Expand the maximum numbers of screens to 20.
- * To use the multi-monitor function, it is necessary to install an additional video card on the PC in use.

WV-ASE202

- Expand the maximum numbers of screens to 64.
- · Up to 4 live windows.
- Multi-monitor function using up to 6 PC monitors . To display the operation window, the map window and the 4 map windows simultaneously
- WV-ASE203
- · Expand the maximum numbers of registered recorders, encoders and cameras to 100, 64 and 256 respectively · Up to 4 licenses for the WV-ASE203 can be added.

- 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-ASE204

· Decoder registration: Up to 10 decoders



Spatial Tonal Correction . Snowfall and Rainfall Noise Reduction

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 searc

-

-

- · Face images that camera detected are stored,
- and it can be searched later.

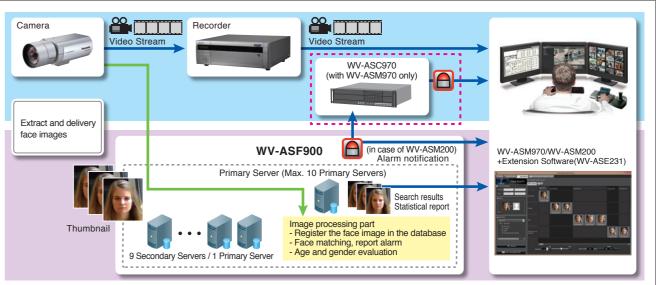
- · By searching the face DB, you can display the result of each cameras in chronological order and find
- movement locus of persons.
- Specify camera or date in detected face images and

ace Matc

- alarm history in the list. · Specified screen image can be played back on control monitor with double-clicking on an alarm history
- display the result in the list in similarity order.



Basic System Connection Example



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. • Extension Software for Facial Recognition Analytics Platform (WV-ASF900)
- · Face Matching / Face Search / People counting results display on WV-ASM970 / WV-ASM200 screen · i-VMD (Intelligent Video Motion Detection) tracking path display on WV-ASM970 / WV-ASM200 screen





Ethernet System Control

ith 3D-Joystick & Jog/Shuttle WV-CU9

· When it is matched with registered people, alarm of face matching is output in real-time, and display an

ounting. 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







WV-CS580 ____

Fixed Dome Cameras

Rain wash coating dome cover (WV-CW590A,WV-CW594A)

Super Dynamic 5 Vandal Resistant Fixed Dome Camera

· 36x optical zoom lens with 20x digital zoom

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)



- 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



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)



territoria

 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



Analog Products Fixed Dome Cameras Super Dynamic 6 Day/Night Fixed Dome Camera WV-CF600 Series SR WV-CF614 WV-CF624 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) SD6 Ð. · 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) Day/Night Fixed Dome Camera
WV-CF344/CF354/CF374 WV-CF344 (24 V AC or 12 V DC:NTSC,PAL) WV-CE354 (24 V AC or 12 V DC:NTSC PAL) WV-CF374 (24 V AC or 12 V DC:PAL) WV-CE344 WV-CE354 (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-CE344/WV-CE354) IR LED Day/Night Day/Night Fixed Dome Camera WV-CF300L Series WV-CF102 WV-CF304L (24 V AC or 12 V DC: PAL) (12 V DC: PAL) WV-CF314L (24 V AC or 12 V DC: NTSC, PAL) 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. · High resolution: 540 TV lines • High sensitivity: 1.2 lx (Color), 0.9 lx (B/W) at F2.0 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)

- 108 mm in diameter compact design
- 2.5 mm fixed focal lens
- · Adaptive Black Stretch enhances the visibility of dark area

Optional Accessory









WV-CF374







0

WV-Q174B

WV-CF634

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)

WV-CP600 WV-CP604 WV-CP620 WV-CP62

SUDER DRAMME WV-CP620 WV-CP620 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)



Day/Night Camera

WV-CP300 Series SR

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

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)
- **Optional Accessory** · High sensitivity with Day/Night (electrical) function: 0.08 lx (Color), 0.05 lx (B/W) at F1.4 (WV-CP300/WV-CP304)



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 BS-485 control IE: PAL) WV-CLR934 (24 V AC or 12 V DC with RS-485 control IF: PAL)





1/2 type interline transfer CCD

 Ultra high sensitivity: 0.09 lx (Color), 0.008 lx (B/W) at F1.4 /

Lens: optiona

- 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 5 Dav/Night Camera WV-CP500 Series

Analog Products

WV-CP500 (120 V AC: NTSC, 220 V -240 V AC: PAL) WV-CP504 (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 / 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 **SR** WV-CW300L Series

WV-CW304L (24 V AC or 12 V DC: PAL), WV-CW314L (24 V AC or 12 V DC: NTSC, PAL), WV-CW324L (24 V AC or 12 V DC: PAL)



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)

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





SD6 STR SSX

 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

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)

HOMI UNPher® SD5 Link

- 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







- 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









- · 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 × H × D)	60.5 mm × 53 mm × 45.3 mm	61 mm × 52 mm × 65 mm

Cameras / Lenses Combination Chart

			1/3 type CC	1/2 type CCD Camera	
Type of Lens	Model No.	Focal Length	WV-SPN631 / WV-SPN611 / WV-SP509 / WV-SP508 / WV-SP306 / WV-SP305 / WV-SP302	WV-CP300 /WV-CP500 WV-CP600 Series	WV-CL930
1/3 type ALC	WV-LZA61/2S	3.8 mm ~ 8 mm	NO	YES	NO
Variable Focal	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					
		Length	2 m	4 m	6 m	8 m	10 m
	2×	3.8 mm	Ratio 84% 2.5(W) m	Ratio 42% 5.1(W) m	Ratio 28% 7.6(W) m	Ratio 21% 10.1(W) m	Ratio 17% 12.6(W) m
	Variable Focal	(Wide)	× 1.9(H) m	× 3.8(H) m	× 5.7(H) m	× 7.6(H) m	× 9.5(H) m
1/3 type Lens	WV-LZA61/2S	8 mm	Ratio 178% 1.2(W) m	Ratio 89% 2.4(W) m	Ratio 59% 3.6(W) m	Ratio 44% 4.8(W) m	Ratio 36% 6.0(W) m
	(3.8 mm ~ 8 mm)	(Standard)	× 0.9(H) m	× 1.8(H) m	× 2.7(H) m	× 3.6(H) m	× 4.5(H) m
1/3 typ	8× Variable Focal	5 mm (Wide)	Ratio 111% 1.9(W) m × 1.4(H) m	A Ratio 56% 3.8(W) m × 2.9(H) m	Ratio 37% 5.8(W) m × 4.3(H) m	Ratio 28% 7.7(W) m × 5.8(H) m	Ratio 22% 9.6(W) m × 7.2(H) m
	WV-LZ62/8S	40 mm	Fatio 889% 0.24(W) m	Ratio 444% 0.48(W) m	Ratio 296% 0.72(W) m	Ratio 222% 0.96(W) m	Fatio 178% 1.2(W) m
	(5 mm ~ 40 mm)	(Tele)	× 0.18(H) m	× 0.36(H) m	× 0.54(H) m	× 0.72(H) m	× 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.

BB			WV-Q155C	Embedded Ceiling Mount Brackets (Clear)
B-HNP17	Network Camera Recorder with Viewer Software	19	WV-Q155S	Embedded Ceiling Mount Brackets (Smoke)
BL			WV-Q156C	Surface Ceiling Mount Brackets (Clear)
L-VP101	Network Camera	15	WV-Q156S	Surface Ceiling Mount Brackets (Smoke)
		15		
VP104	Network Camera	15	WV-Q157	Inner Dome Cover
L-VP104W	Wireless Network Camera	15	WV-Q168,WV-Q168/V	Embedded Ceiling Mount Bracket (AV-light gray) 9
L-VT164	Pan-tilt Network Camera	15	WV-Q169/V, WV-Q169A	Embedded Ceiling Mount Bracket
VT164W	Pan-tilt Wireless Network Camera	15	WV-Q174B	Embedded Ceiling Mount Bracket (Sail white) 7,8,9,10
ЗҮ			WV-Q204/1S	Rack Mount Bracket
Y-HPE11KT	Coaxial-LAN Converter	16	WV-Q204/2S	Rack Mount Bracket
Y-HCA10	Rack Mount Connecting Fitting	10	WV-Q7118	Sun Shade
	Rack Mount Connecting Fitting	10		Sun Shaue
NJ			WV-S	
J-CA65L20K, WJ-CA65L20KA	Expansion Cable Kit (System650)	25	WV-SC384	HD Dome Network Camera
J-CA65L07K, WJ-CA65L07KA	Expansion Cable Kit (System650)	25	WV-SC385	Super Dynamic HD Dome Network Camera
J-CA68,WJ-CA68A	D-sub/BNC Video Cable (System650)	25	WV-SC386	Super Dynamic HD Dome Network Camera
J-GXD400	Multi Channel High Definition Video Decoder	16	WV-SC588	Super Dynamic Full HD PTZ Dome Network Camera
J-GXE100	1 CH H.264 Video Encoder	16	WV-SF132	Dome Network Camera
			WV-SF135	HD Dome Network Camera
J-GXE500	4 CH H.264 Video Encoder	16		
J-HD616	16ch H.264 Digital Disk Recorder	25	WV-SF138	Super Dynamic Full HD Dome Network Camera
J-HD716	16ch Real-time H.264 Digital Disk Recorder	25	WV-SF332	Dome Network Camera
J-HDB601, WJ-HDB601A	RAID Board (WJ-HD616/HD716)	25	WV-SF335	HD Dome Network Camera
J-HDB611, WJ-HDB611A	Built-in DVD Drive (WJ-HD616/HD716)	25	WV-SF336	HD Dome Network Camera
J-HDE300	Hard Disk Extension Unit	18	WV-SF342	Vandal Resistant Dome Network Camera
J-HDE400	Hard Disk Extension Unit	18,19,25	WV-SF346	HD Vandal Resistant Dome Network Camera
J-HDE400 J-HDU40K	HDD Canister		WV-SF438	360-degree Super Dynamic Dome Network Camera
		25		
J-ND300A	Network Disk Recorder	18	WV-SF448E	360-degree Super Dynamic Vandal Resistant Dome Network Camera
J-ND400	Network Disk Recorder	18	WV-SF538	Super Dynamic Full HD Dome Network Camera
J-NDB301	RAID5 Board for WJ-ND300A	18	WV-SF539	Super Dynamic Full HD Dome Network Camera
J-NV200	Network Disk Recorder	19	WV-SF548	Super Dynamic Full HD Vandal Resistant Dome Network Camera
J-NV200V	Network Disk Recorder with DVD drive	19	WV-SF549	Super Dynamic Full HD Vandal Resistant Dome Network Camera
J-NV300	Network Disk Recorder		WV-SFN310	Super Dynamic HD Dome Network Camera
J-NVE30	Additional Camera Kit	19	WV-SFN311	Super Dynamic HD Dome Network Camera
J-NVF20	Additional Business Intelligence Kit	19	WV-SFN311L	Super Dynamic HD Dome Network Camera
J-NVF30	Additional Business Intelligence Kit	19	WV-SFN611L	Super Dynamic HD Dome Network Camera
J-PB65C32	Video Input Board (System650)	25	WV-SFN631L	Super Dynamic Full HD Dome Network Camera
J-PB65E01	Network Board (System650EX only)	25	WV-SFR310	Super Dynamic HD Vandal Resistant Dome Network Camera
J-PB65M16	Video Output Board (System650)	25	WV-SFR311	Super Dynamic HD Vandal Resistant Dome Network Camera
J-SX650	Matrix Switcher	25	WV-SFR611L	Super Dynamic HD Vandal Resistant Dome Network Camera
/J-SX650U	Card Cage		WV-SFR631L	Super Dynamic Full HD Vandal Resistant Dome Network Camera
	Card Cage	25		
NV-A			WV-SFV310	Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camer
V-ASC970	IP Matrix Server Software	20,25	WV-SFV311	Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camer
V-ASE201/202/203/204	4/205		WV-SFV611L	Super Dynamic HD Vandal Resistant & Waterproof Dome Network Came
	i-PRO Management Extension Software	20	WV-SFV631L	Super Dynamic Full HD Vandal Resistant & Waterproof Dome Network Came
V-ASE231	Face matching server Extension Software	21	WV-SFV631LT	Super Dynamic Full HD Vandal Resistant & Waterproof Dome Network Came
V-ASE901	WV-ASM970 Extension Software	20	WV-SMR10	360-degree Network Microphone
V-ASF900 Series	Facial Recognition Analytics Platform	21	WV-SMR10N3	360-degree Network Microphone WV-SMR10
V-ASM200	i-PRO Management Software	20		With 360-degree Network Camera WV-SF438
V-ASM970			WV-SPN6FRL1	IR-LED
	IP Matrix Client Software	20,25		
V-ASR500 Series	Server based recording and video management platform	18	WV-SPN6R481	RS-485 I/F
NV-C			WV-SP102	Network Camera
V-CF5SA	Smoke Dome Cover	9,10,11,23	WV-SP105	HD Network Camera
V-CF102	Day/Night Mini Fixed Dome Camera	23	WV-SP302	Network Camera
V-CF344/CF354/CF374	Day/Night Fixed Dome Camera	23	WV-SP305	HD Network Camera
V-CF300L Series	IR LED Day/Night Fixed Dome Camera	23	WV-SP306	HD Network Camera
V-CF600 Series	Super Dynamic 6 Day/Night Fixed Dome Camera	23	WV-SP508	Super Dynamic Full HD Network Camera
V-CL930 Series	High Sensitive Day/Night Camera	24	WV-SP509	Super Dynamic Full HD Network Camera
V-CP300 Series	Day/Night Camera	24	WV-SPN611	Super Dynamic HD Network Camera
V-CP500 Series	Super Dynamic 5 Day/Night Camera	24	WV-SPN631	Super Dynamic Full HD Network Camera
V-CP600 Series	Super Dynamic 6 Day/Night Fixed Camera	24	WV-ST162	Pan-tilt Network Camera
V-CR1S	Smoke Dome Cover	7,8	WV-ST165	Pan-tilt Network Camera
V-CS4S, WV-CS4SA	Smoke Dome Cover	4,22	WV-SW115	Super Dynamic HD Vandal Resistant Wall Mount Network Camera
V-CS5C	Clear Dome Cover	4	WV-SW152/SW152M	Super Dynamic Vandal Resistant Dome Network Camera
V-CS5S	Smoke Dome Cover	4	WV-SW155/SW155M	Super Dynamic HD Vandal Resistant Dome Network Camera
V-CS580 Series	Super Dynamic 6 Day/Night Dome Camera	22	WV-SW158	Super Dynamic Full HD Vandal Resistant Dome Network Camera
V-CU650	RS-485 System Controller with 3D-Joystick & Jog/Shuttle	25	WV-SW172	Outdoor Pan-tilt Network Camera
V-CU950	Ethernet System Controller with 3D-Joystick & Jog/Shuttle	20,25	WV-SW174W	Outdoor Pan-tilt Wireless Network Camera
V-CW4S, WV-CW4SA	Smoke Dome Cover	5,6,22	WV-SW175	Outdoor Pan-tilt Network Camera
V-CW5H, WV-CW5HA	Heater Unit	22	WV-SW314	Super Dynamic Weather Resistant HD Network Camera
V-CW6S, WV-CW6SA	Smoke Dome Cover	7,11,12	WV-SW316	Super Dynamic Weather Resistant HD Network Camera
V-CW7S	Smoke Dome Cover	5,6	WV-SW316L	Super Dynamic Weather Resistant HD Network Camera
V-CW300L Series	Weather Resistant IR LED Day/Night Fixed Camera	24	WV-SW352	Super Dynamic Vandal Resistant Dome Network Camera
V-CW334/CW364	Vandal Resistant Fixed Dome Camera	22	WV-SW355	Super Dynamic HD Vandal Resistant Dome Network Camera
V-CW500 Series	Super Dynamic 5 Vandal Resistant Fixed Dome Camera	22	WV-SW395/SW395A	Super Dynamic Weather Resistant HD Dome Network Camera
V-CW590 Series	Super Dynamic 6 Weather Resistant Dome Camera	22	WV-SW396/SW396A	Super Dynamic Weather Resistant HD Dome Network Camera
V-CZ492	Super Dynamic 6 Day/Night Surveillance Camera	24	WV-SW3H, WV-SW3HA	Heater Unit
WV-L			WV-SW458/458M	360-degree Super Dynamic Vandal Resistant Dome Network Camera
V-LZ62/8S	1/3 type 8x Varifocal Lens	24,26	WV-SW558	Super Dynamic Full HD Vandal Resistant Dome Network Camera
V-LZA61/2S	1/3 type 2x Varifocal Lens	24,26	WV-SW559	Super Dynamic Full HD Vandal Resistant Dome Network Camera
WV-Q			WV-SW598	Super Dynamic Weather Resistant Full HD PTZ Dome Network Camer
V-Q105A	Ceiling Mount Bracket 4,7,8,9	9,10,11,14,22	Other	
				512 Inpute Matrix Suitebing Sustem
V-Q115, WV-Q115A	Mount Bracket for WV-CW504F	22		512 Inputs Matrix Switching System
V-Q117 , WV-Q117A	Pendant Mount Bracket	22	System650	256 Inputs Matrix Switching System
/V-Q118A, WV-Q118B	Wall Mount Bracket	4,22	Panasonic Security Viewe	r ver. 2.1
0110	Wall Mount Bracket	4		
V-Q119				
	Wall Mount Bracket	3,22		
V-Q122, WV-Q122A				
V-Q122, WV-Q122A V-Q126, WV-Q126A	Embedded Ceiling Mount Bracket	4,22		
V-Q122, WV-Q122A				

WV-Q154S

Wall Mount Brackets (Smoke)

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