

Panasonic

ideas for life

2010
March



SURVEILLANCE AND MONITORING SYSTEMS LINEUP



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- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
- This catalog is provided for all over the world. Some accessories may not be available in some countries.
- UniPhier is Panasonic's proprietary System LSI platform.

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- When using the products in this catalog, take appropriate measures to avoid the following security breaches.
- Disclosure of private information via the products.
- Unauthorized use of products by a third party.
- Interference or suspension of the use of the products by third party.

- All pictures are simulated.
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Integrated IP Solutions with i-PRO SmartHD

– the new concept in surveillance and monitoring systems.–



Panasonic i-PRO SmartHD offers a wide range of solutions for surveillance and monitoring systems.
.....cameras and recorders for seamless operation between analog and IP network systems.
Higher Quality, Easier Operation and High Reliability/Durability

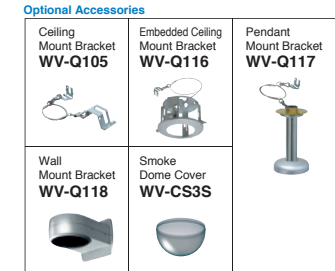
Dome Network Cameras

Super Dynamic III
Weather Resistant Dome Network Camera
WV-NW960 Series
WV-NW960 (220-240 V AC:PAL)
WV-NW964 (24 V AC:NTSC, PAL)



- IP66 rated water and dust resistant
- 30x (3.8 ~ 114 mm) zoom lens plus 10x digital zoom
- High sensitivity: 0.5 lux (Color), 0.04 lux (B/W) at F1.4 (Wide) / 0.02 lux (Color), 0.0013 lux (B/W) at F1.4 (Wide) with Sens Up 32x
- **Super Dynamic III** 128x wider dynamic range
- Auto tracking capability
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output

Super Dynamic III
Day/Night Dome Network Camera
WV-NS950 Series
WV-NW950 (220-240 V AC:PAL)
WV-NW954 (24 V AC:NTSC, PAL)



- 30x (3.8 ~ 114 mm) zoom lens plus 10x digital zoom
- High sensitivity: 0.5 lux (Color), 0.04 lux (B/W) at F1.4 (Wide) / 0.02 lux (Color), 0.0013 lux (B/W) at F1.4 (Wide) with Sens Up 32x
- **Super Dynamic III** 128x wider dynamic range
- Auto tracking capability
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output

Super Dynamic III
Day/Night Dome Network Camera
WV-NS202A
(12 V DC or PoE:NTSC, PAL)



- 22x zoom lens plus 10x digital zoom
- High sensitivity: 0.7 lux (Color), 0.5 lux (B/W) at F1.6 (Wide) / 0.02 lux (Color), 0.015 lux (B/W) at F1.6 (Wide) with Sens Up 32x
- **Super Dynamic III** 128x wider dynamic range
- Auto tracking capability
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output
- Power over Ethernet (PoE) IEEE 802.3af

Dome Network Camera
BB-HCM581/HCM580
(12 V DC or PoE:NTSC, PAL)



- 21x zoom lens plus 2x Digital Zoom
- MPEG-4 and JPEG dual stream output
- Image Transfer Function
- Remote Pan and Tilt Control
- Multi-camera Capability
- SD Memory Card Recording
- Progressive Scan
- Audio 2-way Communication (BB-HCM581 only)
- Analog Video Output (NTSC/PAL)
- Power over Ethernet (PoE) IEEE 802.3af
- Cell Phone Monitoring

* When you use more than one(1) PCs to see any moving image by MPEG-4, you are requested to buy User License Accessory (Item No. BB-HCA5) additionally.
Models: BB-HCM581/ BB-HCM580

Feature names

High Definition	H.264, MPEG-4 and JPEG supported	30x Optical Zoom	21x Optical Zoom
MPEG-4 and JPEG supported	MPEG-4 supported	22x Optical Zoom	2.3x Optical Zoom
Face Detection	Auto Back Focus	Wireless Communication	Human Detection Sensor
True Day/Night	Water and Dust Resistance: IP66	Sound Detection	Cell Phone Monitoring
Simple Day/Night	Intelligent-Video Motion Detection	Shock Detection	Built-in LED Light

Fixed Dome Network Cameras

HD Fixed Dome Network Camera

WV-SF336
(12 V DC or PoE:NTSC, PAL)
Launches in July



- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Up to 30 fps at 1,280 x 960 image size
- 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.
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.3 / 0.019 lux (Color), 0.013 lux (B/W) at F1.3 with Sens Up 16x
- H.264 (High profile) and JPEG dual 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.

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q168	Smoke Dome Cover WV-CS5S	CeilingMount Bracket WV-Q105 (for PAL only)
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HD Fixed Dome Network Camera

WV-SF335
(12 V DC or PoE:NTSC, PAL)
Launches in July



- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Up to 30 fps at 1,280 x 960 image size
- 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.
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.3 / 0.019 lux (Color), 0.013 lux (B/W) at F1.3 with Sens Up 16x
- H.264 (High profile) and JPEG dual stream output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q168	Smoke Dome Cover WV-CS5S	CeilingMount Bracket WV-Q105 (for PAL only)
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Fixed Dome Network Camera

WV-SF332
(12 V DC or PoE:NTSC, PAL)
Launches in July



- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Panasonic's proprietary System LSI platform.
- Up to 30 fps at 800x 600 image size
- 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.
- High sensitivity: 0.2 lux (Color), 0.13 lux(B/W) at F1.3 / 0.013 lux (Color), 0.009 lux (B/W) at F1.3 with Sens Up 16x
- H.264 (High profile) and JPEG dual stream output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q168	Smoke Dome Cover WV-CS5S	CeilingMount Bracket WV-Q105 (for PAL only)
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Super Dynamic
Vandal Resistant
Fixed Dome Network Camera
WV-NW502S
(12 V DC or PoE:NTSC, PAL)



- Up to 30 fps at 1,280 x 960 image size*
- MEGA Super Dynamic 128x wider dynamic range*
- High sensitivity: 1.0 lux (Color), 0.08 lux (B/W) at F1.2 (Wide) / 0.06 lux (Color), 0.005 lux (B/W) at F1.2 (Wide) with Sens Up 16x*
- Up to 2,048 x 1,536 JPEG stream
- H.264 (High profile) and JPEG dual stream output
- ABF (Auto Back Focus) and ABS (Adaptive Black Stretch)
- Progressive output
- Power over Ethernet (PoE) IEEE 802.3af

* 1.3 Megapixel mode

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169	Smoke Dome Cover WV-CW4S
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Fixed Dome Network Camera
WV-NF302
(12 V DC or PoE:NTSC, PAL)



- Progressive scan 1.3 megapixel CCD
- 1,280 x 960 Megapixel high quality image
- 2.8 ~10 mm, 3.6x varifocal lens built-in
- High sensitivity: 1.5 lux (Color), 0.9 lux (B/W) at F1.3 (Wide)
- MPEG-4 and JPEG dual stream output
- ABS (Adaptive Black Stretch) enhances the visibility of dark area
- Focus assist for accurate focus and easy installation
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q173	Smoke Dome Cover WV-NF5S
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Super Dynamic III
Vandal Resistant
Fixed Dome Network Camera
WV-NW484S
(24 V AC or 12 V DC or PoE:NTSC, PAL)



- 2x (3.8 ~ 8.0 mm) varifocal lens built-in
- IP66 rated water and dust resistant
- Super Dynamic III 128x wider dynamic range
- High sensitivity: 0.6 lux (Color), 0.08 lux (B/W) at F1.4 (Wide) / 0.019 lux (Color), 0.003 lux (B/W) at F1.4 (Wide) with Sens Up 32x
- ABF (Auto Back Focus) adjustment
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169	Heater Unit WV-CW4H
Clear Dome Cover WV-CW4C (for NTSC only)	Smoke Dome Cover WV-CW4S (for PAL only)

Fixed Dome Network Camera
WV-NF284
(24 V AC or 12 V DC or PoE:NTSC, PAL)



- High sensitivity: 1.5 lux (Color) at F1.3 (Wide) / 0.09 lux (Color) at F1.3 (Wide) with Sens Up 16x
- 3.6x (2.8 ~ 10 mm) varifocal lens built-in
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q167	Smoke Dome Cover WV-CF4S
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Fixed Dome Network Cameras

Fixed Dome Network Camera
BB-HCM705
(12 V DC or PoE:NTSC, PAL)



- Extra Zoom Function
- H.264 and JPEG dual stream output
- Compact size and good conformity with the ceiling
- Easy installation on ceiling / wall
- Sound Detection & Shock Detection Sensor
- Remote Pan and Tilt control
- Preset sequence
- 2x2 pixel binning
- Multi-camera capability
- Power over ethernet (PoE) IEEE 802.3af
- SD/SDHC Memory Card Recording
- Cell Phone Monitoring

Optional Accessories

Ceiling Flush Mount Bracket BB-HCA11
--

AC adaptor
BB-HCA7
NTSC
Input 100-120 V AC, 50/60 Hz
Output 12 V DC, 750 mA

PAL
Input 100-240 V AC, 50/60 Hz
Output 12 V DC, 750 mA

Fixed Dome Network Camera
BB-HCM701
(12 V DC or PoE:NTSC, PAL)



- H.264 and JPEG dual stream output
- 3x Digital Zoom Function(by area)
- Compact size and good conformity with the ceiling
- Easy installation on ceiling / wall
- Sound Detection and Shock Detection Sensor
- Remote Pan and Tilt control
- Multi-camera capability
- Power over ethernet (PoE) IEEE 802.3af
- SD/SDHC Memory Card recording
- Cell Phone Monitoring

Optional Accessories

Ceiling Flush Mount Bracket BB-HCA11
--

AC adaptor
BB-HCA7
NTSC
Input 100-120 V AC, 50/60 Hz
Output 12 V DC, 750 mA

PAL
Input 100-240 V AC, 50/60 Hz
Output 12 V DC, 750 mA

Fixed Dome Network Camera
BB-HCM547
(12 V DC or PoE:NTSC, PAL)



- MPEG-4 and JPEG dual stream output
- 2.3x Optical Zoom, 2x Digital Zoom
- Remote Pan and Tilt control
- Audio 2-Way communication
- SD Memory Card recording
- Splash-resistant body
- Analog video Output (NTSC/PAL)
- Power over ethernet (PoE) IEEE 802.3af
- Cell Phone Monitoring

Optional Accessories

AC adaptor BB-HCA3 NTSC Input 120 V AC, 60 Hz Output 12 V DC, 0.75 A
PAL Input 100 V - 240 V, 50/60 Hz Output 12 V DC, 750 mA

Fixed Dome Network Camera
BB-HCM527
(12 V DC or PoE:NTSC, PAL)



- MPEG-4 and JPEG dual stream output
- 2.3x Optical Zoom, 2x Digital Zoom
- Remote Pan and Tilt control
- Audio 2-Way communication
- SD Memory Card recording
- Analog video output (NTSC/PAL)
- Multi-camera capability
- Power over ethernet (PoE) IEEE 802.3af
- Cell Phone Monitoring

Optional Accessories

Ceiling Flush Mount Bracket BB-HCA10	AC adaptor BB-HCA3 NTSC Input 120 V AC, 60 Hz Output 12 V DC, 0.75 A
	PAL Input 100 V - 240 V, 50/60 Hz Output 12 V DC, 750 mA

* When you use more than one(1) PCs to see any moving image by H.264, you are requested to buy User License Accessory (Item No. BB-HCA8) additionally.
Models: BB-HCM701/ BB-HCM705
* When you use more than one(1) PCs to see any moving image by MPEG-4, you are requested to buy User License Accessory (Item No. BB-HCA5) additionally.
Models: BB-HCM547/ BB-HCM527

Fixed Network Cameras

HD Network Camera
WV-SP306
(12 V DC or PoE:NTSC, PAL)
Launches in June



Lens: optional



- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Up to 30 fps at 1,280 x 960 image size
- 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.
- High sensitivity: 0.3 lux (Color), 0.05 lux(B/W) at F1.4 / 0.019 lux (Color), 0.003 lux (B/W) at F1.4 with Sens Up 16x
- H.264 (High profile) and JPEG dual stream output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessory
1/3 inch High Resolution 2x Varifocal Lens
WV-LZA62/2
(2.8 - 6 mm)
F1.4 (wide)
F2.1 (tele)

HD Network Camera
WV-SP305
(12 V DC or PoE:NTSC, PAL)
Launches in June



Lens: optional



- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Up to 30 fps at 1,280 x 960 image size
- 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.
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.4 / 0.019 lux (Color), 0.013 lux (B/W) at F1.4 with Sens Up 16x
- H.264 (High profile) and JPEG dual stream output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessory
1/3 inch High Resolution 2x Varifocal Lens
WV-LZA62/2
(2.8 - 6 mm)
F1.4 (wide)
F2.1 (tele)

Network Camera
WV-SP302
(12 V DC or PoE:NTSC, PAL)
Launches in June



Lens: optional



- Progressive scan 1.3 Megapixel MOS Sensor
- High resolution recording by "UniPhier®"
- Up to 30 fps at 800 x 600 image size
- 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.
- High sensitivity: 0.2 lux (Color), 0.13 lux(B/W) at F1.4 / 0.013 lux (Color), 0.009 lux (B/W) at F1.4 with Sens Up 16x
- H.264 (High profile) and JPEG dual stream output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessory
1/3 inch High Resolution 2x Varifocal Lens
WV-LZA62/2
(2.8 - 6 mm)
F1.4 (wide)
F2.1 (tele)

Super Dynamic Network Camera
WV-NP502
(12 V DC or PoE:NTSC, PAL)



Lens: optional



- Up to 30 fps at 1,280 x 960 image size*
- **MEGA Super Dynamic** 128x wider dynamic range*
- High sensitivity: 1.0 lux (Color), 0.08 lux (B/W) at F1.4 / 0.06 lux (Color), 0.005 lux (B/W) at F1.4 (Wide) with Sens Up 16x*
- Up to 2,048 x 1,536 JPEG stream
- H.264 (High profile) and JPEG dual stream output
- ABF (Auto Back Focus) and ABS (Adaptive Black Stretch)
- Progressive output
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessory
1/3 inch High Resolution 2x Varifocal Lens
WV-LZA62/2
(2.8 - 6 mm)
F1.4 (wide)
F2.1 (tele)

* 1.3 Megapixel mode

Network Camera
WV-NP304
(24 V AC or 12 V DC or PoE:NTSC, PAL)



Lens: optional



- Progressive scan 1.3 megapixel CCD
- 1,280 x 960 Megapixel high quality image
- High sensitivity: 1.5 lux (Color), 0.9 lux (B/W) at F1.4
- MPEG-4 and JPEG dual stream output
- ABS (Adaptive Black Stretch) enhances the visibility of dark area
- Focus assist for accurate focus and easy installation
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessory
1/3 inch High Resolution 2x Varifocal Lens
WV-LZA62/2
(2.8 - 6 mm)
F1.4 (wide)
F2.1 (tele)

Network Camera
WV-NP240 Series
WV-NP240 (220-240 V AC or PoE:PAL)
WV-NP244 (24 V AC or 12 V DC or PoE:NTSC, PAL)



Lens: optional



- High sensitivity: 1.5 lux (Color) at F1.4 / 0.09 lux (Color) at F1.4 with Sens Up 16x
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output
- Power over Ethernet (PoE) IEEE 802.3af

Fixed Network Cameras

Fixed Network Camera
BB-HCM735
(12 V DC or PoE:NTSC, PAL)



- Extra Zoom Function
- IP55 rated water and dust resistant
- H.264 and JPEG dual stream output
- Sound Detection & Shock Detection Sensor
- Remote Pan and Tilt control
- Preset sequence
- 2x2 pixel binning
- Power over Ethernet (PoE) IEEE 802.3af
- SD/SDHC Memory Card recording
- Analog video output (NTSC/PAL)
- Cell Phone Monitoring

Optional Accessories

AC adaptor
BB-HCA7
NTSC
Input: 100-120 V AC, 50/60 Hz
Output: 12 V DC, 750 mA

PAL
Input: 100-240 V AC, 50/60 Hz
Output: 12 V DC, 750 mA

Fixed Network Camera
BB-HCM715
(12 V DC or PoE:NTSC, PAL)



- Extra Zoom Function
- H.264 and JPEG dual stream output
- Sound Detection & Shock Detection Sensor
- Remote Pan and Tilt control
- Preset sequence
- 2x2 pixel binning
- Power over Ethernet (PoE) IEEE 802.3af
- SD/SDHC Memory Card recording
- Analog video output (NTSC/PAL)
- Cell Phone Monitoring

Optional Accessories

AC adaptor
BB-HCA7
NTSC
Input: 100-120 V AC, 50/60 Hz
Output: 12 V DC, 750 mA

PAL
Input: 100-240 V AC, 50/60 Hz
Output: 12 V DC, 750 mA

Fixed Network Camera
BB-HCM515 (limited amount)
(12 V DC or PoE:NTSC, PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom
- Remote Pan and Tilt control
- Audio 2-Way communication
- Power over Ethernet (PoE) IEEE 802.3af
- SD Memory Card recording
- Analog video output (NTSC/PAL)
- Cell Phone Monitoring

Optional Accessories

AC adaptor
BB-HCA3
NTSC
Input: 120 V AC, 60 Hz
Output: 12 V DC, 0.75 A

PAL
Input: 100 V - 240 V, 50/60 Hz
Output: 12 V DC, 750 mA

Fixed Network Camera
BB-HCM531
(12 V DC or PoE:NTSC, PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom
- Splash-resistant body
- Remote Pan and Tilt control
- Audio 2-Way communication
- Power over Ethernet (PoE) IEEE 802.3af
- SD Memory Card recording
- Analog video output (NTSC/PAL)
- Cell Phone Monitoring

Optional Accessories

AC adaptor
BB-HCA3
NTSC
Input: 120 V AC, 60 Hz
Output: 12 V DC, 0.75 A

PAL
Input: 100 V - 240 V, 50/60 Hz
Output: 12 V DC, 750 mA

Fixed Network Camera
BB-HCM511
(12 V DC or PoE:NTSC, PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom
- Remote Pan and Tilt control
- Audio 2-Way communication
- Power over Ethernet (PoE) IEEE 802.3af
- SD Memory Card recording
- Analog video output (NTSC/PAL)
- Cell Phone Monitoring

Optional Accessories

AC adaptor
BB-HCA3
NTSC
Input: 120 V AC, 60 Hz
Output: 12 V DC, 0.75 A

PAL
Input: 100 V - 240 V, 50/60 Hz
Output: 12 V DC, 750 mA

* When you use more than one(1) PCs to see any moving image by H.264, you are requested to buy User License Accessory (Item No. BB-HCA8) additionally.
Models: BB-HCM735/ BB-HCM715
* When you use more than one(1) PCs to see any moving image by MPEG-4, you are requested to buy User License Accessory (Item No. BB-HCA5) additionally.
Models: BB-HCM515/ BB-HCM531/ BB-HCM511

Network Cameras

Network Camera
BL-C230

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- H.264 and JPEG dual stream output
- 3x Digital zoom function
- TV Connection*
- External input and output connector
- Sound Detection Sensor
- Privacy mode
- SSL support
- Wireless Communication (IEEE 802.11b/g)
- Remote Pan and Tilt control
- Multi-camera capability
- Cell Phone Monitoring

*For US model only

Network Camera
BL-C210

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- H.264 and JPEG dual stream output
- 3x Digital zoom function(by area)
- TV Connection*
- External input connector
- Sound Detection Sensor
- Privacy mode
- SSL Support
- Remote Pan and Tilt control
- Multi-camera capability
- Cell Phone Monitoring

*For US model only

Network Camera
BL-C160

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- MPEG-4 and JPEG dual stream output
- Built-in LED Light
- Outdoor Ready (IPX4)
- 10x Digital Zoom Function
- Built-in Human Detection Sensor
- Motion Detection Function
- Image Transfer Function
- Cell Phone Monitoring

Network Camera
BL-C140

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- MPEG-4 and JPEG dual stream output
- Outdoor ready (IPX4)
- 10x Digital Zoom Function
- Motion Detection Function
- Image Transfer Function
- Color Night View Mode (3.00 lux)
- Cell Phone Monitoring

Network Camera
BL-C111

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom Function
- Built-in microphone
- Wireless LAN (802.11b/802.11g)
- Built-in Human Detection Sensor
- Privacy mode
- Remote Pan and Tilt control
- Cell Phone Monitoring

Network Camera
BL-C111

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom Function
- Built-in microphone
- Built-in Human Detection Sensor
- Privacy mode
- Remote Pan and Tilt control
- Cell Phone Monitoring

Network Camera
BL-C121

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom Function
- Wireless Communication (IEEE 802.11b/g)
- Built-in microphone
- Multi-camera capability
- Motion Detection Function
- External input and output connector
- Detection Notification Sound
- Cell Phone Monitoring

Network Camera
BL-C101

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- MPEG-4 and JPEG dual stream output
- 10x Digital Zoom Function
- Built-in microphone
- Built-in Human Detection Sensor
- Privacy mode
- Remote Pan and Tilt control
- Cell Phone Monitoring

Network Camera
BL-C1

(100-240 V AC:NTSC,
220-240 V AC:PAL)



- 10x Digital Zoom
- Motion Detection
- Cell Phone Monitoring

*When you use more than one(1) PCs to see any moving image by H.264, you are requested to buy User License Accessory (Item No. BB-HCA8) additionally.
Models: BL-C230/BL-C210

Network Video Recorders

Network Disk Recorder
WJ-ND400

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



- 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 Disk Recorder
WJ-ND200

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



- H.264, MPEG-4 and JPEG multi format
- Up to 16 network cameras can be connected and recorded
- Up to 4 clients can monitor images and control WJ-ND200 simultaneously
- RAID1 mirroring capability
- Various Recording Mode: Manual, Schedule, Event (Pre/Post), Emergency

Optional Accessories

Rack Mount Bracket
WV-Q200



Vertical Stand
WV-Q201



Removable HDD
WJ-HDD50
(500 GB)



Network Video Interfaces

Network Video Encoder
WJ-GXE500

(12 V DC or PoE:NTSC, PAL)

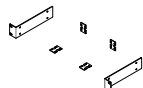
Launches in May



- Up to 4 analog cameras can be connected.
- Panasonic Camera Control
- H.264, MPEG-4 and JPEG dual stream output at VGA or D1 image size with up to 30 ips
- Progressive output
- Bi-directional audio (1CH)
- Power over Ethernet (PoE) IEEE 802.3af

Optional Accessories

EIA19 inch Rack Mount Bracket
WV-Q204/2S
(for mounting three WJ-GXE500)



Network Video Encoder with Video Analytic
WJ-NT314

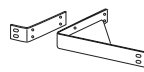
(12 V DC or 120 V AC adapter attached:NTSC, 12 V DC or 220-240 V AC adapter attached:PAL)



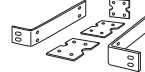
- Up to 4 analog cameras can be connected
- 2CH Video Analytic
- Panasonic camera control
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output
- Bi-directional audio (1CH)

Optional Accessories

EIA19 inch Rack Mount Bracket
WV-Q204/1S
(for mounting one WJ-NT314)



EIA19 inch Rack Mount Bracket
WV-Q204/2S
(for mounting two WJ-NT314)



Network Video Encoder
WJ-NT304

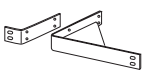
(12 V DC or 120 V AC adapter attached:NTSC, 12 V DC or 220-240 V AC adapter attached:PAL)



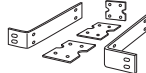
- Up to 4 analog cameras can be connected
- Panasonic camera control
- MPEG-4 and JPEG dual stream output at VGA image size with up to 30 ips
- Progressive Output
- Bi-directional audio (1CH)

Optional Accessories

EIA19 inch Rack Mount Bracket
WV-Q204/1S
(for mounting one WJ-NT304)



EIA19 inch Rack Mount Bracket
WV-Q204/2S
(for mounting two WJ-NT304)



Multi Channel High Definition Video Decoder
WJ-GXD400

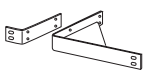
(12 V DC or 100-240 V AC:NTSC, PAL)



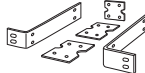
- Up to 256 cameras, including cameras connected to the i-Pro Network Video Encoder (WJ-GXE500/WJ-NT304/WJ-NT314), can be registered
- HDMI interface supporting 1,920 x 1,080 display size
- 1x 4VGA image with 2x VGA images or 6x VGA images can be displayed in multiscreen mode
- Each of VGA images can be displayed at 25 frames/sec.
- 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

EIA19 inch Rack Mount Bracket
WV-Q204/1S
(for mounting one WJ-GXD400)



EIA19 inch Rack Mount Bracket
WV-Q204/2S
(for mounting two WJ-GXD400)



Software

IP Matrix Server Software
WV-ASC970 IP Matrix Client Software
WV-ASM970



(The pictures above are only for images.)

WV-ASC970

- Easy and smooth integration from analog to IP system
- Flexible camera system: Analog, IP, and Hybrid analog/IP
- Up to 64 recorders, 64 decoders, 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-HD316, WJ-RT416 Series, WJ-HD716 Series

System Component

IP Matrix Server Software
WV-ASC970



(The picture above is only for image.)

IP Matrix Client Software
WV-ASM970



(The picture above is only for image.)

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



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 and camera setup).
- 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).

i-PRO Management Software
WV-ASM100
WV-ASM100L (Light version)



- Supported Recorders: WJ-ND400 Series, WJ-ND300 Series, WJ-ND200 Series, WJ-HD716/616, WJ-HD300A Series, WJ-RT416 Series
- 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
- Up to 16x 30 ips/camera images can be displayed in H.264 1.5 Mbps mode or MPEG-4 2 Mbps mode
- Up to 400 camera groups
- Camera/Group/Sequence selection, Camera control and Recorder control can be made with the optional system controller WV-CU950 (WV-ASM100 only)

Optional Accessory

Ethernet System Controller with 3D-Joystick & Jog/Shuttle
WV-CU950
(Not available for WV-ASM100L)



i-PRO Monitoring Software
WV-ASM10



- Supported Recorders: WJ-ND400 Series, WJ-ND300 Series, WJ-ND200 Series, WJ-HD300A Series
- Up to 16 recorders, 64 encoders and 256 directly connected cameras can be registered
- Up to 30 ips/camera in 16 split-screen in MPEG-4 2 Mbps mode
- Up to 400 camera groups

Network Camera Recorder with Viewer Software
BB-HNP17 Launches in April



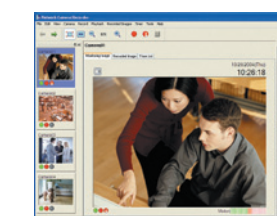
- H.264, MPEG-4 and JPEG recording
- Supports the recording and playback of H.264 cameras
- Supports resolutions of 1280 x 960
- Remote Access
- Up to 64 cameras Register
- Event Detection Recording
- Freedom of layout setup
- Preset Sequence
- Timer recording with preset designation
- Pop-up display
- Time specified color night view

Network Camera Recorder with Viewer Software
BB-HNP15



- MPEG-4 and JPEG recording
- Simultaneous Playback of Recorded Images
- Remote Access Function
- Voice Transmission to Network Camera
- Sequential display function
- SSL compatibility
- Snapshot function
- Recording format exchange
- Graphic display of recorded images in list form

Network Camera Recorder
BB-HNP11



- Recording or Playing Images with Audio
- Motion Detection Recording and Timer-recording Functions
- Recorded Image Searches
- Recording Capacity Limit

Dome Cameras

Super Dynamic III
Weather Resistant Dome Camera
WV-CW970 Series

WV-CW970 (220-240 V AC:PAL)
WV-CW974 (24 V AC:NTSC, PAL)



- Advanced auto tracking
- IP66 rated water and dust resistant
- 30x optical zoom lens plus 10x digital zoom
- **Super Dynamic III** 160x wider dynamic range
- High sensitivity: 0.5 lux (Color), 0.04 lux (B/W) at F1.4 (Wide) / 0.016 lux (Color), 0.0013 lux (B/W) at F1.4 (Wide) with Sens Up 32x

Optional Accessory

Wall Mount Bracket
WV-Q122



Super Dynamic III
Weather Resistant Dome Camera
WV-CW960 Series

WV-CW960 (220-240 V AC:PAL)
WV-CW964 (24 V AC:NTSC, PAL)



- Standard auto tracking
- IP66 rated water and dust resistant
- 30x optical zoom lens plus 10x digital zoom
- **Super Dynamic III** 160x wider dynamic range
- High sensitivity: 0.5 lux (Color), 0.04 lux (B/W) at F1.4 (Wide) / 0.016 lux (Color), 0.0013 lux (B/W) at F1.4 (Wide) with Sens Up 32x

Optional Accessory

Wall Mount Bracket
WV-Q122



Super Dynamic III
Day/Night Dome Camera
WV-CS950 Series

WV-CS950 (220-240 V AC:PAL)
WV-CS954 (24 V AC:NTSC, PAL)



- 30x optical zoom lens plus 10x digital zoom
- **Super Dynamic III** 160x wider dynamic range
- High sensitivity: 0.5 lux (Color), 0.04 lux (B/W) at F1.4 (Wide)
- Auto tracking capability

Optional Accessories

Ceiling Mount Bracket WV-Q105	Embedded Ceiling Mount Bracket WV-Q116	Pendant Mount Bracket WV-Q117
Wall Mount Bracket WV-Q118	Smoke Dome Cover WV-CS3S	

Color Dome Camera
WV-CS570 Series

WV-CS570 (220-240 V AC:PAL)
WV-CS574 (24 V AC:NTSC, PAL)



- 22x optical zoom lens plus 10x digital zoom
- High sensitivity: 1.0 lux (Color) at F1.6 (Wide)
- High resolution: 510 TV lines (Color, High)

Optional Accessories

Ceiling Mount Bracket WV-Q105 (for PAL only)	Embedded Ceiling Mount Bracket WV-Q106	Pendant Mount Bracket WV-Q117
Wall Mount Bracket WV-Q118	Smoke Dome Cover WV-CS2S	

Fixed Dome Cameras

Super Dynamic 5
Vandal Resistant Fixed Dome Camera
WV-CW500 Series

WV-CW500S (220-240 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)



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

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-CW240 Series

WV-CW240S (220-240 V AC:PAL)
WV-CW244F (24 V AC or 12 V DC:NTSC, PAL)
WV-CW244S (24 V AC or 12 V DC:NTSC)



(Surface Mount Type) (Flush Mount Type)



- 2x (3.8 ~ 8.0 mm) varifocal lens built-in
- IP66 rated water and dust resistant
- High resolution: 480 TV lines
- High sensitivity: 1.0 lux (Color) at F1.4 (Wide)

Optional Accessories

Heater Unit WV-CW3H	Clear Dome Cover WV-CW2C (NTSC only)	Smoke Dome Cover WV-CW2S (PAL only)
Mount Bracket for WV-CW244F WV-Q112 (NTSC only) WV-Q113 (PAL only)		

Day/Night Fixed Dome Camera (for PAL only)
WV-CF334/CF364

WV-CF334 (24 V AC or 12 V DC:PAL)
WV-CF364 (24 V AC or 12 V DC:PAL)



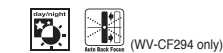
- 2.8 ~ 10 mm 3.6x Varifocal lens built-in
- High sensitivity: 0.6 lux (Color) 0.4 lux (B/W) at F1.3(Wide) (WV-CF334)
- High sensitivity: 0.6 lux (Color) 0.05 lux (B/W) at F1.3(Wide) (WV-CF364)
- Adaptive Black Stretch enhances visibility of dark area

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q168	Smoke Dome Cover WV-CF5S

Day/Night Fixed Dome Camera
WV-CF284/CF294

WV-CF284 (24 V AC or 12 V DC:NTSC, PAL)
WV-CF294 (24 V AC or 12 V DC:NTSC, PAL)



- WV-CF294: 3.6x (2.8 ~ 10 mm) varifocal lens built-in
- WV-CF284: 2x (2.8 ~ 6.0 mm) varifocal lens built-in
- High sensitivity: 0.9 lux (Color), 0.6 lux (B/W)
- Auto Back Focus (ABF) adjustment (WV-CF294 only)
- Adaptive Black Stretch

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q168	Smoke Dome Cover WV-CF5S

Metal Body Day/Night Fixed Dome Camera
WV-CF324

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



- 3.6x (2.8 ~ 10 mm) varifocal lens built-in
- High sensitivity: 0.9 lux (Color), 0.6 lux (B/W) at F1.3 (Wide)
- Auto Back Focus (ABF) adjustment
- Adaptive Black Stretch enhances the visibility of dark area

Optional Accessories

Smoke Dome Cover WV-NF5S

Day/Night Mini Fixed Dome Camera (for PAL only)
WV-CF102

(12 V DC:PAL)



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

Optional Accessories

Smoke Dome Cover WV-CF5S

Fixed Cameras

Super Dynamic 5
Day/Night Camera
WV-CP500 Series

WV-CP500 (120V AC:NTSC, 220-240 V AC:PAL)
WV-CP504 (24 V AC or 12 V DC:NTSC,PAL)

WV-CP500L Series

WV-CP500L (220-240 V AC:PAL)
WV-CP504L (24 V AC or 12 V DC:PAL)



- **Super Dynamic 5** delivers Superior image by fusion of Super Dynamic, ABS (Adaptive Black Stretch) and i-VMD* (intelligent-Video Motion Detection) intelligence technology
- High sensitivity: 0.1 lux (Color), 0.01 lux (B/W) at F1.4 / 0.003 lux (Color), 0.0003lux (B/W) at F1.4 with Sens Up 32x (WV-CP500 Series)
- High sensitivity: 0.1 lux (Color), 0.07 lux (B/W) at F1.4 / 0.003 lux (Color), 0.002lux (B/W) at F1.4 with Sens Up 32x (WV-CP500L Series)
- High resolution: 650 TV lines typical (Color), 700 TV lines (B/W) (WV-CP500 Series)
- High resolution: 650 TV lines typical (WV-CP500L Series)

Day/Night Camera
WV-CP290 Series

WV-CP280 (120 V AC:NTSC, 220-240V AC:PAL)
WV-CP284 (12 V DC or 24 V AC:NTSC, PAL)

Launches in August(PAL) /
September (NTSC)

- ABS (Adaptive Black Stretch) enhances visibility of dark area without degrading image quality in bright area.
- High sensitivity: 0.8 lux(Color), 0.05 lux(B/W) at F1.4
- High resolution: 540 TV lines

Day/Night Camera
WV-CP280 Series

WV-CP280 (120 V AC:NTSC, 220-240V AC:PAL)
WV-CP284 (24 V AC or 12 V DC:NTSC, PAL)



- ABS (Adaptive Black Stretch) feature transforms shadows and dark areas into natural and crisp images in real time
- High sensitivity: 0.6 lux (Color), 0.4 lux (B/W) at F1.2
- High resolution: 540 TV lines (Color)

Super Dynamic III
Weather Resistant Day/Night Camera
WV-CW380 Series

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



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

High Sensitive Day/Night Camera
WV-CL930 Series

WV-CL930 (120 V AC:NTSC, 220-240V AC:PAL)
WV-CL934 (24 V AC or 12 V DC:NTSC, PAL)
WV-CLR930 (220-240 V AC
with RS-485 control IF:PAL)
WV-CLR934 (24 V AC or 12 V DC
with RS-485 control IF:PAL)



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

Day/Night Camera (for PAL only)
WV-CP250 Series

WV-CP250 (220-240 V AC:PAL)
WV-CP254 (24 V AC or 12 V DC:PAL)



- High sensitivity: 1.0 lux (Color), 0.15 lux (B/W) at F1.4
- High resolution: 480 TV lines (Color) and 570 TV lines (B/W)
- BLC (Back Light Compensation)

Day/Night Camera (for PAL only)
WV-CZ362

(12 V DC:PAL)



- 22x optical zoom lens plus 10x digital zoom
- High sensitivity: 0.6 lux (Color), 0.04 lux (B/W)
- High resolution: 510 TV lines (Color, High) and 570 TV lines (B/W)

Digital Video Recorders

16ch Real-time H.264 Digital Disk Recorder
WJ-HD716

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



- 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	Hard Disk Extension Unit WJ-HDE400
RAID Board WJ-HDB601	
Built-in DVD Drive WJ-HDB611	

16CH Real-Time MPEG-4 Digital Disk Recorder
WJ-RT416 Series

WJ-RT416 (120 V AC:NTSC, 220-240 V AC:PAL)
WJ-RT416V (120 V AC:NTSC, 220-240 V AC:PAL)(with DVD drive)



- Records all 16 cameras at 25 ips(PAL) and 30 ips (NTSC)
- Multiplexed video and control data over the coax (4ch default, additional 4ch by optional WV-PB4164)
- Equipped with 6 HDD slots (5 HDD slots and 1 DVD drive for V models)
- Image format: MPEG-4

Optional Accessory

4CH Camera Control Board
WV-PB4164

8ch Real-time H.264 Digital Disk Recorder (for PAL only)
WJ-HL208

(100-240 V AC:PAL)
4ch Real-time H.264 Digital Disk Recorder (for PAL only)
WJ-HL204 (100-240 V AC:PAL)



- H.264 codec for efficient digital video recording
- Real time recording @ CIF resolution
WJ-HL208: 200 ips
WJ-HL204: 100 ips
- 4 recording qualities and 3 recording resolution
- Easy Operation with user-friendly GUI (Graphical User Interface) and Mouse
- Equipped with 3 HDD slots

16CH/9CH Digital Disk Recorder
WJ-HD300A Series

WJ-HD316A (120 V AC:NTSC, 220-240 V AC:PAL)(16 camera inputs)
WJ-HD309A (120 V AC:NTSC, 220-240 V AC:PAL)(9 camera inputs)



- 9 (WJ-HD309A) / 16 (WJ-HD316A) analog video inputs
- High density recording: 50 ips (100 ips @SIF)
- Full rate live multi screen: 50 ips per camera
- Simultaneous Live/Rec./Playback/Network
- 4 recording programs and 6 timer schedules per day
- RAID1, RAID5 redundancy

Optional Accessory

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

Controllers

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



- For smooth operation of Ethernet/PS-Data interfaced devices, WV-ASM100/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

RS-485 System Controller with 3D-Joystick
WV-CU360CJ



- Remote control of the Panasonic dome cameras via PS-Data link mode through WJ-MP204C
- Remote control of Panasonic PS-Data products
- Remote control of the System650/System150 via RS-485 terminal mode

1CH Camera Controller
WV-CU161C



- Remote control of various functions for the Panasonic dome camera: Preset/Lens/Pan and Tilt/Receiver/Camera
- Preset data: up/download function
- Built-in RS-485 terminal

4CH Data Multiplex Unit
WJ-MP204C



- Enables PS-Data system to control Panasonic cameras via coax interface
- Converts RS-485 camera control interface to coaxial control interface
- Up to four WJ-MP204C can be connected in cascade enabling telemetry system for 4 ~ 16 cameras

Optional Accessories

Daisy Chain Connection
WV-CA48/10K (Cable Kit)
WV-CA48/50 (Cable)
WV-CA48/JN (Junction Unit)

EIA19 inch Rack Mount Bracket
WV-Q204/1S
(for mounting one WJ-MP204C)

WV-Q204/2S
(for mounting two WJ-MP204C)

Matrix System

512 Inputs Matrix Switching System

System650EX with WV-ASC970



256 Inputs Matrix Switching System

System650



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

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

System650EX/System650 System Components

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

64 Inputs Matrix Switcher System

System150



- Up to 64 inputs and 4 outputs
- Simultaneous use of up to 4 RS-485 System Controllers
- Up to 16 users
- Up to 4 recorders

System150 System Components

<p>16 Inputs Matrix Switcher WJ-SX150A</p>	<p>RS-485 System Controller with 3D-Joystick & Jog/Shuttle WV-CU650</p>	<p>RS-485 System Controller with 3D-Joystick WV-CU360CJ</p>
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Switcher

4CH Multiscreen Unit

WJ-MS424



- 25 frames/sec real time quad display
- High picture quality with 8 bit/14.3 MHz sampling
- Quad picture and sequential switching function
- Video Loss detection

LCD Monitors

22" Full HD Wide LCD Monitor

WV-LW2200

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

19" HD Wide LCD Monitor

WV-LW1900

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



Power Consumption Reduction by 23 %
Annual Power Consumption 290 kWh/year
vs. 2008 model WV-LC1900 (377 kWh/year)
* 19.5 hours/24 hours in ECO mode

Power Consumption Reduction by 32 %
Annual Power Consumption 243 kWh/year
vs. 2007 model WV-LC1700 (359 kWh/year)
* 19.5 hours/24 hours in ECO mode

- Screen resolution: WV-LW2200 : 1,920 x 1,080 (Full HD) / WV-LW1900 : 1,366 x 768 (HD)
- High contrast: 1000 : 1 (typical)
- HDMI 1080p compatible
- Automatic power-save function

19" SXGA LCD Monitor

WV-LC1900

(120 V AC:NTSC, 100-240 V AC:PAL)

17" SXGA LCD Monitor

WV-LC1700

(120 V AC:NTSC, 100-240 V AC:PAL)



- Screen resolution: 1,280 x 1,024 (SXGA)
- Horizontal resolution: 500 TV lines
- High contrast 800 : 1
- Full color display: Approx. 16.7 million colors

Optional Accessory

Rack Mount Bracket
WQ-LM191



Lenses

<p>1/3 inch Auto Iris Lenses</p>	<p>Super Wide WV-LA2R8C3B 2.8 mm, F1.3</p>	<p>Wide WV-LA4R5C3B 4.5 mm, F1.2</p>	<p>Standard WV-LA9C3B 9 mm, F1.2</p>
<p>Focal Length</p>	2.8 mm	4.5 mm	9 mm
<p>Iris Type</p>	Automatic	Automatic	Automatic
<p>Optical Filter Size</p>	None	None	None
<p>Mount</p>	Special C-Mount, (CS-Mount, 1-32UN)	Special C-Mount, (CS-Mount, 1-32UN)	Special C-Mount, (CS-Mount, 1-32UN)
<p>Dimensions (D x H)</p>	ø52 x 31.8 mm	ø52 x 31.8 mm	ø52 x 31.8 mm

<p>1/3 inch Variable Focal Lenses</p>	<p>2x Variable WV-LZA62/2 2.8 ~ 6 mm F1.4 (wide) F2.1 (tele)</p>	<p>2x Variable WV-LZA61/2S 3.8 ~ 8 mm F1.4 (wide) F1.8 (tele)</p>	<p>8x Variable WV-LZ62/8S 5 ~ 40 mm F1.6 (wide) F1.9 (tele)</p>
<p>Focal Length</p>	2.8 ~ 6 mm	3.8 ~ 8 mm	5 ~ 40 mm
<p>Iris Type</p>	Automatic	Automatic	Automatic
<p>Optical Filter Size</p>	None	M30.5 mm, P = 0.5 mm	None
<p>Mount</p>	Special C-Mount	Special C-Mount, (CS-Mount, 1-32UN)	Special C-Mount, (CS-Mount, 1-32UN)
<p>Dimensions (W x H x D)</p>	64 x 60 x 60.9 mm	60.5 x 53 x 45.3 mm	61 x 52 x 65 mm

<p>1/3 inch Zoom Lens</p>	<p>15x Motorized WV-LZ61/15 6 ~ 90 mm, F1.6</p>	<p>1/2 inch Zoom Lens</p>	<p>10x Motorized WV-LZ81/10 8.0 ~ 80 mm, F1.4</p>
<p>Focal Length</p>	6 ~ 90 mm (15x)	<p>Focal Length</p>	8 ~ 80 mm (10x)
<p>Iris Type</p>	Automatic	<p>Iris Type</p>	Automatic
<p>Optical Filter Size</p>	M46 mm, P = 0.75 mm	<p>Optical Filter Size</p>	M55 mm, P = 0.75 mm
<p>Mount</p>	Special C-Mount, (CS-Mount, 1-32UN)	<p>Mount</p>	Special C-Mount, (CS-Mount, 1-32UN)
<p>Dimensions (W x H x D)</p>	79 x 67 x 87 mm	<p>Dimensions (W x H x D)</p>	81 x 66 x 114 mm
<p>Focus Control</p>	Far: 120 mA at +6 ~ +12 V DC Near: 120 mA at -16 ~ -12 V DC	<p>Focus Control</p>	Far: 67 mA at +8 V DC Near: 35 mA at -8 V DC
<p>Zoom Control</p>	Wide: 120 mA at +6 ~ +12 V DC Tele: 120 mA at -16 ~ -12 V DC	<p>Zoom Control</p>	Wide: 28 mA at +8 V DC Tele: 28 mA at -8 V DC
<p>Pin Configuration</p>	1. Common 2. Not Used 3. Focus 4. Zoom	<p>Pin Configuration</p>	1. Common 2. Not Used 3. Focus 4. Zoom

Cameras/Lenses Combination Chart

Panasonic offers wide variety of lenses to suit for the specific applications

Type of Lens	Model No.	Focal Length	1/3 inch CCD Cameras			1/2 inch CCD Camera
			Color Cameras WV-SP306 / WV-SP305 / WV-SP302 / WV-NP502 / WV-NP1000 / WV-NP304	Color Cameras WV-NP240 WV-CP250 WV-CP280	Color Cameras WV-CP500 WV-CP500L	Color Camera WV-CL930
1/3 inch ALC	WV-LA2R8C3B	2.8 mm	NO	YES	NO	NO
	WV-LA4R5C3B	4.5 mm	NO	YES	NO	NO
	WV-LA9C3B	9 mm	NO	YES	NO	NO
1/3 inch Variable Focal	WV-LZA62/2	2.8 ~ 6 mm	YES	Possible	YES	NO
	WV-LZA61/2S	3.8 ~ 8 mm	NO	YES	YES	NO
	WV-LZ62/8S	5 ~ 40 mm	NO	YES	YES	NO
1/3 inch Zoom	WV-LZ61/15	6 ~ 90 mm	NO	YES	YES	NO
1/2 inch Zoom	WV-LZ81/10	8 ~ 80 mm	NO	YES	YES	YES

Lens Selection Chart

The examples displayed below are monitor images captured with 1/3 inch 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	
Standard Angle WV-LA9C3B (9 mm)							
		Ratio 200% 1.1(W) x 0.8(H) m	Ratio 100% 2.1(W) x 1.6(H) m	Ratio 67% 3.2(W) x 2.4(H) m	Ratio 50% 4.3(W) x 3.2(H) m	Ratio 40% 5.3(W) x 4.0(H) m	
Wide Angle WV-LA4R5C3B (4.5 mm)							
		Ratio 100% 2.1(W) x 1.6(H) m	Ratio 50% 4.3(W) x 3.2(H) m	Ratio 33% 6.4(W) x 4.8(H) m	Ratio 25% 8.5(W) x 6.4(H) m	Ratio 20% 10.7(W) x 8.0(H) m	
Super Wide Angle WV-LA2R8C3B (2.8 mm)							
		Ratio 62% 3.4(W) x 2.6(H) m	Ratio 31% 6.9(W) x 5.1(H) m	Ratio 21% 10.3(W) x 7.7(H) m	Ratio 16% 13.7(W) x 10.3(H) m	Ratio 12% 17.1(W) x 12.9(H) m	
2x Variable Focal WV-LZA61/2S (3.8 ~ 8 mm)	3.8 mm (Wide)						
		Ratio 84% 2.5(W) x 1.9(H) m	Ratio 42% 5.1(W) x 3.8(H) m	Ratio 28% 7.6(W) x 5.7(H) m	Ratio 21% 10.1(W) x 7.6(H) m	Ratio 17% 12.6(W) x 9.5(H) m	
	8 mm (Standard)						
		Ratio 178% 1.2(W) x 0.9(H) m	Ratio 89% 2.4(W) x 1.8(H) m	Ratio 59% 3.6(W) x 2.7(H) m	Ratio 44% 4.8(W) x 3.6(H) m	Ratio 36% 6.0(W) x 4.5(H) m	
	5 mm (Wide)						
		Ratio 111% 1.9(W) x 1.4(H) m	Ratio 56% 3.8(W) x 2.9(H) m	Ratio 37% 5.8(W) x 4.3(H) m	Ratio 28% 7.7(W) x 5.8(H) m	Ratio 22% 9.6(W) x 7.2(H) m	
	8x Variable Focal WV-LZA62/8S (5 ~ 40 mm)	40 mm (Tele)					
			Ratio 889% 0.24(W) x 0.18(H) m	Ratio 444% 0.48(W) x 0.36(H) m	Ratio 296% 0.72(W) x 0.54(H) m	Ratio 222% 0.96(W) x 0.72(H) m	Ratio 178% 1.2(W) x 0.9(H) m
2x Variable Focal WV-LZA62/2 (2.8 ~ 6 mm)	2.8 mm (Super Wide)						
		Ratio 62% 3.4(W) x 2.6(H) m	Ratio 31% 6.9(W) x 5.1(H) m	Ratio 21% 10.3(W) x 7.7(H) m	Ratio 16% 13.7(W) x 10.3(H) m	Ratio 12% 17.1(W) x 12.9(H) m	
6 mm (Wide)							
	Ratio 133% 1.6(W) x 1.2(H) m	Ratio 67% 3.2(W) x 2.4(H) m	Ratio 44% 4.8(W) x 3.6(H) m	Ratio 33% 6.4(W) x 4.8(H) m	Ratio 27% 8.0(W) x 6.0(H) m		
15x Motorized WV-LZ61/15 (6 ~ 90 mm)	6 mm (Wide)						
		Ratio 133% 1.6(W) x 1.2(H) m	Ratio 67% 3.2(W) x 2.4(H) m	Ratio 44% 4.8(W) x 3.6(H) m	Ratio 33% 6.4(W) x 4.8(H) m	Ratio 27% 8.0(W) x 6.0(H) m	
90 mm (Tele)							
	Ratio 2100% 0.1(W) x 0.08(H) m	Ratio 1000% 0.21(W) x 0.16(H) m	Ratio 677% 0.31(W) x 0.24(H) m	Ratio 500% 0.42(W) x 0.32(H) m	Ratio 396% 0.53(W) x 0.4(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.

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