



## SURVEILLANCE AND MONITORING LINE UP 2011

SECURITY  
MATTERS



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MATTERS

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\* visit [www.panasonic.co.uk/cctv](http://www.panasonic.co.uk/cctv) for more detail

## FEATURE NAMES

HIGH DEFINITION	MPEG-4 & JPEG SUPPORTED	H.264 & JPEG SUPPORTED	H.264, MPEG-4 & JPEG SUPPORTED	MPEG-4 SUPPORTED
36X EXTRA OPTICAL ZOOM	30X OPTICAL ZOOM	22X OPTICAL ZOOM	21X OPTICAL ZOOM	2.3X OPTICAL ZOOM
FACE DETECTION	AUTO BACK FOCUS	WIRELESS COMMUNICATION	HUMAN DETECTION SENSOR	CELL PHONE MONITORING
TRUE DAY/NIGHT	WATER AND DUST RESISTANCE: IP66	SOUND DETECTION	COLOUR NIGHT VIEW MODE	BUILT-IN LED LIGHT
SIMPLE DAY/NIGHT	INTELLIGENT-VIDEO MOTION DETECTION	SHOCK DETECTION		

NETWORK VIDEO RECORDERS

WJ-ND400

Network Disk Recorder

(220 - 240 V AC)



**Optional Accessory**  
Hard Disk Extension Unit - WJ-HDE400

- H.264, MPEG-4 and JPEG multi format
- Up to 64 network cameras can be connected and recorded
- Various Recording Modes: Manual, Schedule including Event (Pre/Post), Emergency
- Playback VMD search
- RAID5/6, Embedded OS and alteration detection for reliability



WJ-ND300A

Network Disk Recorder

(220 - 240 V AC)



**Optional Accessory**  
RAID5 Board - WJ-NDB301  
Hard Disk Extension Unit - WJ-HDE300  
(4 drive bays for optional HDD units)

- 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 Modes: Manual, Schedule, Event (Pre/Post), Emergency



WJ-NV200

Network Video Recorder

(220 - 240 V AC)

**NEW**



**Optional Accessory**  
WV-LW1900 / WV-LW2200 Monitors  
Rack-mount kit.

- H.264, MPEG-4 and JPEG multi format
- Up to 16 Network cameras can be connected and recorded
- Quick setup without the use of a PC
- ECO friendly automatic back light control of Panasonic LCD monitors
- Simple mouse operation by new GUI without the use of PC
- Real Time Face Matching



WJ-ND200

Network Disk Recorder

(220 - 240 V AC)



**Optional Accessory**  
Vertical Stand - WV-Q201  
Removable HDD - WJ-HDD50  
(500 GB)

- 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 Modes: Manual, Schedule, Event (Pre/Post), Emergency



\* recorders are available in a range of pre installed configuration - see latest versions at [www.panasonic.co.uk/cctv](http://www.panasonic.co.uk/cctv)



Panasonic has been actively working as a member of ONVIF's Steering Committee and Technical Committee since its establishment. Products conforming to the ONVIF standard will be released in Mid 2011

## PTZ NETWORK CAMERAS

### WW-SW395

SUPER DYNAMIC III  
DAY/NIGHT DOME NETWORK CAMERA

[24 V AC or PoE+]

**NEW**



**Optional Accessory**  
CW960WB Wall Bracket  
CW960SN Swan Neck  
CW960CM Corner Mount  
AT5000WPAN 24V PSU

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 18x optical zoom with 12x digital zoom enabling 216x zoom. 36x extra optical zoom under VGA resolution with 12x digital zoom enabling 432x zoom.
- Super Dynamic 128x wider dynamic range
- Face Super Dynamic technology ensures clear face image.
- 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
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at (does not support IEEE 802.3af)
- Dehumidification device for use in various weather conditions
- ONVIF compliant model



### WW-SC385

True Day/Night Dome Network Camera

[12 V DC or PoE]

**NEW**



**Optional Accessory**  
Inner Dome Cover - WW-Q157  
Inner Dome Covers (Clear) - Q156C  
Inner Dome Covers (Smoke) - WW-Q156S  
Embedded Ceiling Mount Brackets (Clear) WW-Q155C  
Embedded Ceiling Mount Brackets (Smoke) - WW-Q155S  
Wall Mount Brackets (Clear) - WW-Q154C  
Wall Mount Brackets (Smoke) - WW-Q154S  
Ceiling Mount Bracket - WW-Q105

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 18x optical zoom with 12x digital zoom enabling 216x zoom. 36x extra optical zoom under VGA resolution with 12x digital zoom enabling 432x zoom.
- Super Dynamic 128x wider dynamic range
- Face Super Dynamic technology ensures clear face image.
- 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
- Supports Power over Ethernet (PoE) IEEE 802.3af
- Desktop/Ceiling position choice and various optional brackets for versatile installations
- ONVIF compliant model



### WW-NW960 SERIES

SUPER DYNAMIC III  
WEATHER RESISTANT DOME NETWORK CAMERA

WW-NW960 (220-240 V AC)  
WW-NW964 (24 V AC)



**Optional Accessory**  
CW960WB Wall Bracket  
CW960SN Swan Neck  
CW960CM Corner Mount  
AT5000WPAN 24V PSU

- IP66 rated water and dust resistant
- 30x (3.8 ~ 114 mm) zoom lens plus 10x digital zoom
- High sensitivity: 0.5 lux (Colour), 0.04 lux (B/W) at F1.4 (Wide) / 0.02 lux (Colour), 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



### WW-NS950 SERIES

SUPER DYNAMIC III  
DAY/NIGHT DOME NETWORK CAMERA

WW-NS950 (220-240 V AC)  
WW-NS954 (24 V AC)



**Optional Accessory**  
Ceiling Mount Bracket - WW-Q105  
Embedded Ceiling Mount Bracket - WW-Q116  
Pendant Mount Bracket - WW-Q117  
Wall Mount Bracket - WW-Q118  
Smoke Dome Cover - WW-CS3S  
AT5000WPAN 24Vac PSU

- 30x (3.8 ~ 114 mm) zoom lens plus 10x digital zoom
- High sensitivity: 0.5 lux (Colour), 0.04 lux (B/W) at F1.4 (Wide) / 0.02 lux (Colour), 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



### WW-NS202A

SUPER DYNAMIC III  
DAY/NIGHT DOME NETWORK CAMERA

[12 V AC or PoE]



**Optional Accessory**  
Ceiling Mount Bracket - WW-Q105  
Inner Dome Cover - WW-Q153  
Wall Mount Bracket - WW-Q150C (Clear)  
Wall Mount Bracket - WW-Q150S (Smoke)  
Embedded Ceiling Mount Brackets - WW-Q151C (Clear)  
Embedded Ceiling Mount Brackets - WW-Q151S (Smoke)  
Indoor Dome Cover - WW-Q152C (Clear)  
Indoor Dome Cover - WW-Q152S (Smoke)

- 22x zoom lens plus 10x digital zoom
- High sensitivity: 0.7 lux (Colour), 0.5 lux (B/W) at F1.6 (Wide) / 0.02 lux
- 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



### BB-HCM581/HCM580

DOME NETWORK CAMERA

[12 V DC or PoE]



**Optional Accessory**  
Camera Cover ( For Ceiling Installation)  
BB-HCA1A-B (Smoke) - Indoor use only

- 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)
- 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



## FIXED NETWORK CAMERAS

### WV-NP502

Super Dynamic Network Camera

(12 V DC or PoE)

Lens Optional



**Optional Accessory**

HD Varifocal Lens - WV-LZ62/2 (2.8 - 6mm)  
F1.4 (wide), F2.1 (tele)

- 1,080p HD images up to 15 fps / 720p HD images up to 30 fps
- Full frame (\*Up to 30 fps) transmission at 1,280 x 960 image size
- Super Dynamic 128x wider dynamic range
- Face Super Dynamic technology ensures clear face image
- 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
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- ABF (Auto Back Focus) and ABS (Adaptive Black Stretch)
- Power over Ethernet (PoE) IEEE 802.3af



### WV-SP306

HD Network Camera

(12 V DC or PoE)

Lens Optional



**Optional Accessory**

HD Varifocal Lens - WV-LZ62/2 (2.8 - 6mm)  
F1.4 (wide), F2.1 (tele)

- Progressive scan 1.3 Megapixel MOS Sensor
- Wide Dynamic Range and ABS (Adaptive Black Stretch)
- Face Wide Dynamic Range
- High sensitivity: 0.3 lux (Color), 0.05 lux(B/W) at F1.4
- H.264 (High profile) dual stream and JPEG output
- Power over Ethernet (PoE) IEEE 802.3af



### WV-SP305

HD Network Camera

(12 V DC or PoE)

Lens Optional



**Optional Accessory**

HD Varifocal Lens - WV-LZ62/2 (2.8 - 6mm)  
F1.4 (wide)  
F2.1 (tele)

- Progressive scan 1.3 Megapixel MOS Sensor
- Wide Dynamic Range
- Face Wide Dynamic Range
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.4
- H.264 (High profile) dual stream and JPEG output
- Power over Ethernet (PoE) IEEE 802.3af



### WV-SP302

Network Camera

(12 V DC or PoE)

Lens Optional



**Optional Accessory**

HD Varifocal Lens - WV-LZ62/2 (2.8 - 6mm)  
F1.4 (wide)  
F2.1 (tele)

- SVGA resolution up to 800 x 600
- MOS Sensor
- Wide Dynamic Range
- Face Wide Dynamic Range
- High sensitivity: 0.2 lux (Color), 0.13 lux(B/W) at F1.4
- H.264 (High profile) dual stream and JPEG output
- Power over Ethernet (PoE) IEEE 802.3af



### WV-SP105

Fixed Network Camera

(12 V DC or PoE)

**NEW**



- 720p HD images up to 30 fps
- Progressive scan 1.3 Megapixel MOS Sensor
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 2x extra zoom under VGA resolution
- 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
- Dual H.264 and JPEG simultaneous stream output
- Supports Power over Ethernet (PoE) IEEE 802.3af



### WV-SP102

Fixed Network Camera

(12 V DC or PoE)

**NEW**



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



## FIXED DOME NETWORK CAMERAS

### WV-NW502S

Super Dynamic  
Vandal Resistant

(12 V DC or PoE)



#### Optional Accessory

Embedded Ceiling Mount Bracket - WV-Q169  
Smoke Dome Cover - WV-CW4S

- 1,080p HD images up to 15 fps / 720p HD images up to 30 fps
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- Super Dynamic 128x wider dynamic range
- Face Super Dynamic technology ensures clear face image
- 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
- Dual H.264 / MPEG-4 and JPEG simultaneous stream output
- ABF (Auto Back Focus) and ABS (Adaptive Black Stretch)
- Power over Ethernet (PoE) IEEE 802.3af



**NEW**

### WV-SF346

HD Vandal Resistant Fixed Dome Network Camera

(12 V DC or PoE)



#### Optional Accessory

Ceiling Mount Bracket - WV-Q105  
Ceiling Mount Bracket - WV-Q105

- Progressive scan 1.3 Megapixel MOS Sensor
- Wide Dynamic Range and ABS (Adaptive Black Stretch)
- Face Wide Dynamic Range
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.3
- H.264 (High profile) dual stream and JPEG 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.



### WV-SF342

Vandal Resistant Fixed Dome Network Camera

(12 V DC or PoE)



#### Optional Accessory

Ceiling Mount Bracket - WV-Q105  
Ceiling Mount Bracket - WV-Q105

- SVGA resolution up to 800 x 600
- Wide Dynamic Range
- Face Wide Dynamic Range
- High sensitivity: 0.2 lux (Color), 0.13 lux(B/W) at F1.3
- H.264 (High profile) dual stream and JPEG output
- Power over Ethernet (PoE) IEEE 802.3af



### WV-SF336

HD Fixed Dome Network Camera

(12 V DC or PoE)



#### Optional Accessory

Embedded Ceiling Mount Bracket - WV-Q173  
Smoke Dome Cover - WV-NF5S  
Ceiling Mount Bracket - WV-Q105

- Progressive scan 1.3 Megapixel MOS Sensor
- Wide Dynamic Range and ABS (Adaptive Black Stretch)
- Face Wide Dynamic Range
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.3
- H.264 (High profile) dual stream and JPEG 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.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size



### WV-SF335

HD Fixed Dome Network Camera

(12 V DC or PoE)



#### Optional Accessory

Embedded Ceiling Mount Bracket - WV-Q173  
Smoke Dome Cover - WV-CS5S  
Ceiling Mount Bracket - WV-Q105 (for PAL only)

- Progressive scan 1.3 Megapixel MOS Sensor
- Wide Dynamic Range
- Face Wide Dynamic Range
- High sensitivity: 0.3 lux (Color), 0.2 lux(B/W) at F1.3 (SF335)
- H.264 (High profile) dual stream and JPEG output
- Power over Ethernet (PoE) IEEE 802.3af
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size



### WV-SF332

Fixed Dome Network Camera

(12 V DC or PoE)



#### Optional Accessory

Embedded Ceiling Mount Bracket - WV-Q173  
Smoke Dome Cover - WV-CS5S  
Ceiling Mount Bracket - WV-Q105 (for PAL only) (SF332)

- SVGA resolution up to 800 x 600
- Wide Dynamic Range
- Face Wide Dynamic Range
- High sensitivity: 0.2 lux (Color), 0.13 lux(B/W) at F1.3 (SF332)
- H.264 (High profile) dual stream and JPEG output
- Power over Ethernet (PoE) IEEE 802.3af
- Full frame (Up to 30 fps) transmission at 800 x 600 image size



## FIXED NETWORK CAMERAS

### BB-HCM705

FIXED DOME NETWORK CAMERA

(12 V DC or PoE)



**Optional Accessory**  
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

- Megapixel resolution up to 1280 x 960
- 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



### BB-HCM701

FIXED DOME NETWORK CAMERA

(12 V DC or PoE)



**Optional Accessory**  
Camera Cover ( For Ceiling Installation)  
BB-HCA1A-B (Smoke) - Indoor use only  
BB-HCA11

- VGA resolution up to 800 x 600
- 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



### BB-HCM735

FIXED NETWORK CAMERA

(12 V DC or PoE)



**Optional Accessory**  
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

- Megapixel resolution up to 1280 x 960
- 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)



### BB-HCM715

FIXED NETWORK CAMERA

(12 V DC or PoE)



**Optional Accessory**  
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

- Megapixel resolution up to 1280 x 960
- 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)



## NETWORK VIDEO INTERFACES

### WJ-GXE500

Network Video Encoder

(12 V DC or PoE)



**Optional Accessory**  
EIA19 inch Rack Mount Bracket - WW-Q204/2S  
(for mounting three WJ-GXE500)

- 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
- RS485 Camera control supporting Panasonic and Pelco.



### WJ-GXD400

Multi Channel High Definition Video Decoder

(12 V DC or 100-240 V AC)



**Optional Accessory**  
EIA19 inch Rack Mount Bracket  
- WW-Q204/1S (for mounting one WJ-GXD400)  
- WW-Q204/2S (for mounting two WJ-GXD400)

- 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.



## SOFTWARE

### WW-ASC970

IP Matrix Server Software



### WW-ASM970

IP Matrix Client Software

**Optional Accessory**  
Ethernet System Controller with  
3D-Joystick & Jog/Shuttle - WW-CU950

#### WW-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 2047 cameras.
- Camera/Sequence/Monitor selection, Camera control and Recorder control can be made with the optional system controller WW-CU950
- Supported Recorders: WJ-ND400 Series, WJ-ND300 Series, WJ-ND200 Series, WJ-HD316, WJ-RT416 Series, WJ-HD716 Series, Supports Matrix system WJ-SX650 and WJ-SX850.
- Up to 64 Satellite domains

#### WW-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).

### WW-ASM100

i-PRO Management Software



### WW-ASM100L (Light version)

i-PRO Management Software

**Optional Accessory**  
Ethernet System Controller with  
3D-Joystick & Jog/Shuttle - WW-CU950

- Supported Recorders: WJ-ND400 Series, WJ-ND300 Series, WJ-ND200 Series, WJ-HD716/616, WJ-HD300A 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 WW-CU950 (WW-ASM100 only)



### BB-HNP17

Network Camera Recorder with Viewer Software



- H.264, MPEG-4 and JPEG recording
- Supports the recording and playback of H.264 cameras
- Supports resolutions of 1280 × 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 colour night view



## PTZ CAMERAS

### WW-CW970 Series

Super Dynamic III  
Weather Resistant Dome Camera

WW-CW970 (220-240 V AC)  
WW-CW974 (24 V AC)



**Optional Accessory**  
CW960WB Wall Bracket  
CW960SN Swan Neck  
CW960CM Corner Mount  
AT5000WPAN 24V PSU

- 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 (Colour), 0.04 lux (B/W) at F1.4 (Wide) / 0.016 lux (Colour), 0.0013 lux (B/W) at F1.4 (Wide) with Sens Up 32x



### WW-CW960 Series

Super Dynamic III  
Weather Resistant Dome Camera

WW-CW960 (220-240 V AC)  
WW-CW964 (24 V AC)



**Optional Accessory**  
CW960WB Wall Bracket  
CW960SN Swan Neck  
CW960CM Corner Mount  
AT5000WPAN 24V PSU

- 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 (Colour), 0.04 lux (B/W) at F1.4 (Wide) / 0.016 lux (Colour), 0.0013 lux (B/W) at F1.4 (Wide) with Sens Up 32x



### WW-CS950 Series

Super Dynamic III  
Day/Night Dome Camera

WW-CS950 (220-240 V AC)  
WW-CS954 (24 V AC)



**Optional Accessory**  
Ceiling Mount Bracket - WW-Q105  
Embedded Ceiling Mount Bracket - WW-Q116  
Wall Mount Bracket - WW-Q118  
Pendant Mount Bracket - WW-Q117  
Smoke Dome Cover - WW-CS3S

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



### WW-CS570 Series

Colour Dome Camera

WW-CS570 (220-240 V AC)  
WW-CS574 (24 V AC)



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

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



## FIXED DOME CAMERAS

### WW-CW500 Series

Super Dynamic 5  
Vandal Resistant Fixed Dome Camera

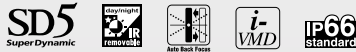
WW-CW500S (220-240 V AC)  
WW-CW504S (24 V AC or 12 V DC)  
WW-CW504F (24 V AC or 12 V DC)



(Surface Mount Type)

**Optional Accessory**  
Mount Bracket for WW-CW504F - WW-Q115  
Heater Unit - WW-CW5H  
Embedded Ceiling Mount Bracket - WW-Q169  
Smoke Dome Cover - WW-CW4S

- Super Dynamic 5 with superior image
- High resolution 650 TV lines (Color HIGH mode), 700 TV lines (B/W mode)
- High sensitivity: 0.3 lux (Color), 0.04 lux (B/W) at F1.4
- Intelligent VMD: Intruder detection, Object Abandonment, Object Removal
- Vandal and Weather resistant



### WW-CW240 Series

Vandal Resistant Fixed Dome Camera

WW-CW500S (220-240 V AC)  
WW-CW504S (24 V AC or 12 V DC)  
WW-CW504F (24 V AC or 12 V DC)



WW-CW240S  
(Surface Mount Type)

WW-CW244F  
(Flush Mount Type)

**Optional Accessory**  
Heater Unit - WW-CW3H  
Clear Dome Cover - WW-CW2C  
Smoke Dome Cover - WW-CW2S - (PAL only)  
Mount Bracket for WW-CW244F - WW-Q112  
- WW-Q113 (PAL only)

- 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 (Colour) at F1.4 (Wide)



### WW-CF334/ CF364

Day/Night Fixed Dome Camera (for PAL only)

WW-CF334 (24 V AC or 12 V DC)  
WW-CF364 (24 V AC or 12 V DC)



WW-CF334

WW-CF364

**Optional Accessory**  
Embedded Ceiling Mount Bracket - WW-Q168  
Smoke Dome Cover - WW-CF5S

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



### WW-CF284/CF294

Day/Night Fixed Dome Camera

WW-CF284 (24 V AC or 12 V DC)  
WW-CF294 (24 V AC or 12 V DC)



WW-CF294

WW-CF284

**Optional Accessory**  
Embedded Ceiling Mount Bracket - WW-Q168  
Smoke Dome Cover - WW-CF5S

- WW-CF294: 3.6x (2.8 ~ 10 mm) varifocal lens built-in
- WW-CF284: 2x (2.8 ~ 6.0 mm) varifocal lens built-in
- High resolution: 540 TV lines
- High sensitivity: 0.9 lux (Colour), 0.6 lux (B/W)
- Auto Back Focus (ABF) adjustment (WW-CF294 only)
- Adaptive Black Stretch



### WW-CF324

Metal Body Day/Night Fixed Dome Camera

(24 V AC or 12 V DC)



**Optional Accessory**  
Smoke Dome Cover - WW-NF5S

- 3.6x (2.8 ~ 10 mm) varifocal lens built-in
- High resolution: 540 TV lines
- High sensitivity: 0.9 lux (Colour), 0.6 lux (B/W) at F1.3 (Wide)
- Auto Back Focus (ABF) adjustment
- Adaptive Black Stretch enhances the visibility of dark area



### WW-CF102

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

(24 V AC or 12 V DC)



**Optional Accessory**  
Smoke Dome Cover - WW-CF5S

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



## FIXED CAMERAS

### WW-CP500 Series

WW-CP500  
(220-240 V AC)  
WW-CP504  
(24 V AC or 12 V DC)

Network Camera



Lens: optional

- Super Dynamic 5 with superior image
- High resolution 650 TV lines (Color HIGH mode), 700 TV lines (B/W mode)
- High sensitivity: 0.1 lux (Color), 0.01 lux (B/W) at F1.4
- Intelligent VMD: Intruder detection, Object Abandonment, Object Removal



### WW-CP500L Series

WW-CP500L  
(220-240 V AC)  
WW-CP504L  
(24 V AC or 12 V DC)

Network Camera



Lens: optional

- Super Dynamic 5 delivers Superior image by fusion of Super Dynamic, ABS (Adaptive Black Stretch)
- High sensitivity: 0.1 lux (Colour), 0.07 lux (B/W) at F1.4 / 0.003 lux (Colour), 0.002lux (B/W) at F1.4 with Sens Up 32x
- High resolution: 650 TV lines typical



### WW-CW380 Series

WW-CW380  
(220-240 V AC)  
WW-CW384  
(24 V AC or 12 V DC)

Super Dynamic III  
Weather Resistant Day/Night Camera



- Super Dynamic III 160x wider dynamic range
- High resolution: 570 TV lines (colour HIGH mode), 570 TV lines (B/W mode)
- High sensitivity: 0.65 lux (Colour), 0.09 lux (B/W) at F1.6 / 0.065 lux (Colour), 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



### WW-CL930 Series

WW-CL930 (120 V AC-NTSC, 220-240V AC)  
WW-CL934 (24 V AC or 12 V DC)  
WW-CLR930 (220-240 V AC with RS-485 control I/F)  
WW-CLR934 (24 V AC or 12 V DC with RS-485 control I/F)

High Sensitive Day/Night Camera



Lens: optional

- 1/2 inch interline transfer CCD
- High resolution: 540 TV lines (colour HIGH mode), 570 TV lines (B/W mode)
- Ultra high sensitivity: 0.09 lux (Colour), 0.008 lux (B/W) at F1.4 / 0.003 lux (Colour), 0.0003 lux (B/W) at F1.4 with Sens Up 32x
- ABF (Auto Back Focus) adjustment
- Built-in VMD (Video Motion Detector)



### WW-CP290 Series

WW-CP290  
(220-240V AC)  
WW-CP294  
(12 V DC or 24 V AC)

High Sensitive Day/Night Camera



Lens: optional

- ABS (Adaptive Black Stretch) enhances visibility of dark area without degrading image quality in bright area.
- High sensitivity: 0.6 lux (Color), 0.04 lux (B/W) at F1.2
- IR cut filter switches on/off to enhance the sensitivity in B/W mode.
- High resolution: 540 TV lines (Color)



### WW-CP280 Series

WW-CP280  
(220-240V AC)  
WW-CP284  
(24 V AC or 12 V DC)

Day/Night Camera



Lens: optional

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



### WW-CZ362

Day/Night Camera  
(for PAL only)

(12 V DC)



Lens: optional

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



# SD5

## Super Dynamic

## DIGITAL VIDEO RECORDERS

### WJ-HD716

16ch Real-time H.264 Digital Disk Recorder  
(220-240 V AC-PAL)



WJ-HD716

- 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



### WJ-HD616

16ch H.264 Digital Disk Recorder  
(220-240 V AC)

### WJ-HL208 (for PAL only)

8ch Real-time H.264 Digital Disk Recorder  
(100-240 V AC)



WJ-HL208

- Records all cameras at 25 (PAL) fps
- Easy operation with user friendly GUI
- Panasonic camera control via RS-485
- Up to three HDDs can be installed
- Image format: H.264 Main Profile

### WJ-HL204

4ch Real-time H.264 Digital Disk Recorder  
(100-240 V AC)

\* recorders are available in a range of pre installed configuration - see latest versions at [www.panasonic.co.uk/cctv](http://www.panasonic.co.uk/cctv)

## CONTROLLERS

### WV-CU950

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



- 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

### WV-CU650

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



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

## MATRIX SYSTEM

### System650EX with WV-ASC970

512 Inputs Matrix Switching System



- 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

### System650

256 Inputs Matrix Switching System



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

#### System650EX/System650 System Components

Matrix Switcher WJ-SK650	Card Cage WJ-SX650U	Video Input Board WJ-PB65C32 (32 inputs)	Video Output Board WJ-PB65M16 (16 outputs)	Network Board WJ-PB65E01 (for System650EX only)	D-sub/BNC Video Cable WJ-CA68 (0.5 m) WJ-CA65L30K	Expansion Cable Kit WJ-CA65L20K (2 m) WJ-CA65L07K (0.7 m)	RS-485 System Controller with 3D-Joystick & Jog/Shuttle WV-CU650 (for System650 only)	Ethernet System Controller with 3D-Joystick & Jog/Shuttle WV-CU950	IP Matrix Server Software WV-ASC970 (for System650EX only)	IP Matrix Client Software WV-ASM970
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### System150

64 Inputs Matrix Switcher System



- 16 Camera Inputs and 4 Monitor Outputs.
- Upto 64 inputs with cascaded units.
- Simultaneous use of up to 4 RS-485 System Controllers
- Up to 16 users
- Up to 4 recorders

#### System150 System Components

16 Inputs Matrix Switcher WJ-SK150A	RS-485 System Controller with 3D-Joystick & Jog/Shuttle WV-CU650	RS-485 System Controller with 3D-Joystick WV-CU360CJ
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### WJ-MS424

4CH Multiscreen Unit

## SWITCHER



- 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

## Home Network Cameras

### BL-C230

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- H.264 and JPEG dual stream output
- 3x Digital zoom function
- 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



### BL-C210

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- H.264 and JPEG dual stream output
- 3x Digital zoom function (by area)
- External input connector
- Sound Detection Sensor
- Privacy mode
- SSL Support
- Remote Pan and Tilt control
- Multi-camera capability



### BL-C160

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- 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



### BL-C140

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- MPEG-4 and JPEG dual stream output
- Outdoor ready (IPX4)
- 10x Digital Zoom Function
- Motion Detection Function
- Image Transfer Function
- Colour Night View Mode (3.00 lux)



### BL-C131

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- 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



### BL-C111

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- 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



### BL-C121

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- 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



### BL-C101

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- 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



### BL-C1

Network Camera

220-240 V AC



- VGA resolution 640 x 480
- 10x Digital Zoom
- Motion Detection



\*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

# Panasonic ideas for life



**SIMPLE SET UP**

**FACE RECOGNITION  
CAPABILITY**

**PC-LESS OPERATION**

**REAL TIME, HD RECORDING**

## SMART TECHNOLOGY SMART INVESTMENT

Panasonic understands that surveillance shouldn't be complicated.

We also understand it should be high quality and a powerful tool to protect people and their business. The WJ-NV200 is just that. Simple, quality and intelligent.

What other recorder combines PC-less operation with face recognition technology?

BECAUSE HD SURVEILLANCE MATTERS

EVERYTHING MATTERS



**i-PRO  
SmartHD**

Visit [www.panasonic.co.uk/cctv](http://www.panasonic.co.uk/cctv) to find out more

INTELLIGENT HI-RESOLUTION  
REAL TIME FACE DETECTION  
LOWER NETWORK BANDWIDTH CONSUMPTION



**Panasonic**  
ideas for life

A new perspective on surveillance

**i-PRO**  
**SmartHD**

[www.panasonic.co.uk/cctv](http://www.panasonic.co.uk/cctv)

version 1.2

EVERYTHING MATTERS