



SURVEILLANCE AND MONITORING LINE UP 2011

SECURITY
MATTERS



SECURITY
MATTERS

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* visit 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		

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

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
- Up to 108 TB with 9 HDD slots in the main unit and five WJ-HDE400 optional Extension Units each with 9 HDD slots
- 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 Mode: 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 Mode: 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



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

DOME 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)

- Progressive scan 1.3 Megapixel 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)

NEW



Optional Accessory
Ceiling Mount Bracket - WV-Q105
Ceiling Mount Bracket - WV-Q105

- Progressive scan 1.3 Megapixel MOS Sensor
- 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)

- Progressive scan 1.3 Megapixel MOS Sensor
- 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)



- 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 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

BB-HCM701

FIXED DOME NETWORK CAMERA

(12 V DC or PoE)



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

BB-HCM735

FIXED NETWORK CAMERA

(12 V DC or PoE)



- 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 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

BB-HCM715

FIXED NETWORK CAMERA

(12 V DC or PoE)



- 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 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

NETWORK VIDEO INTERFACES

WJ-GXE500

Network Video Encoder

(12 V DC or PoE)



- 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.



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

WJ-GXD400

Multi Channel High Definition Video Decoder

(12 V DC or 100-240 V AC)



- 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, 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 WW-CU950 (WW-ASM100 only)



~~WW-ASM10~~

i-PRO Monitoring Software



Optional Accessory
EIA19 inch Rack Mount Bracket
- WW-Q204/1S (for mounting one WJ-NT314)
- WW-Q204/2S (for mounting two WJ-NT314)

- 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



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



DOME 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

- 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)
- Auto tracking capability



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

WV-CW500 Series

Super Dynamic 5
Vandal Resistant Fixed Dome Camera

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



(Surface Mount Type)

Optional Accessory
Mount Bracket for WV-CW504F - WV-Q115
Heater Unit - WV-CW5H
Embedded Ceiling Mount Bracket - WV-Q169
Smoke Dome Cover - WV-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 (Colour), 0.04 lux (B/W) at F1.4
- Intelligent VMD: Intruder detection, Object Abandonment, Object Removal
- Vandal and Weather resistant



~~WV-CW240 Series~~

Vandal Resistant Fixed Dome Camera

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



WV-CW240S
(Surface Mount Type)

WV-CW244F
(Flush Mount Type)

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



WV-CF334/ CF364

Day/Night Fixed Dome Camera (for PAL only)

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



WV-CF334

WV-CF364

Optional Accessory
Embedded Ceiling Mount Bracket - WV-Q168
Smoke Dome Cover - WV-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) (WV-CF334)
- High sensitivity: 0.6 lux (Colour) 0.05 lux (B/W) at F1.3(Wide) (WV-CF364)
- Adaptive Black Stretch enhances visibility of dark area



WV-CF284/CF294

Day/Night Fixed Dome Camera

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



WV-CF294

WV-CF284

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

- 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 (Colour), 0.6 lux (B/W)
- Auto Back Focus (ABF) adjustment (WV-CF294 only)
- Adaptive Black Stretch



WV-CF324

Metal Body Day/Night Fixed Dome Camera

(24 V AC or 12 V DC)



Optional Accessory
Smoke Dome Cover - WV-NF5S

- 3.6x (2.8 ~ 10 mm) varifocal lens built-in
- 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



WV-CF102

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

(24 V AC or 12 V DC)



Optional Accessory
Smoke Dome Cover - WV-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

WV-CP500 Series

WV-CP500
(220-240 V AC)
WV-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



~~WV-CP500L Series~~

WV-CP500L
(220-240 V AC)
WV-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



WV-CW380 Series

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

Super Dynamic III
Weather Resistant Day/Night Camera



- Super Dynamic III 160x wider dynamic range
- 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



WV-CL930 Series

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

High Sensitive Day/Night Camera



Lens: optional

- 1/2 inch interline transfer CCD
- 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)



WV-CP290 Series

WV-CP290
(220-240V AC)
WV-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)



WV-CP280 Series

WV-CP280
(220-240V AC)
WV-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)



WV-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)

Staged Drive Units

- WJ-HD716/616 - 2TB
- WJ-HD716/616 - 4TB
- WJ-HD716/616 - 8TB

~~WJ-RT416 Series~~

16CH Real-Time MPEG-4 Digital Disk Recorder



WJ-RT416 - (220-240 V AC)
WJ-RT416V - (220-240 V AC)
(with DVD drive)

Optional Accessory

4CH Camera Control Board - WV-PB4164

- 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



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) ips
- 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)

* visit www.panasonic.co.uk/cctv for more detail

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-SK650U	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



- 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
- Cell Phone Monitoring



BL-C210

Network Camera

220-240 V AC



- 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
- Cell Phone Monitoring



BL-C160

Network Camera

220-240 V AC



- 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



BL-C140

Network Camera

220-240 V AC



- 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)
- Cell Phone Monitoring



~~BL-C131~~

Network Camera

220-240 V AC



- 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



~~BL-C111~~

Network Camera

220-240 V AC



- 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



BL-C121

Network Camera

220-240 V AC



- 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



BL-C101

Network Camera

220-240 V AC



- 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



~~BL-C1~~

Network Camera

220-240 V AC

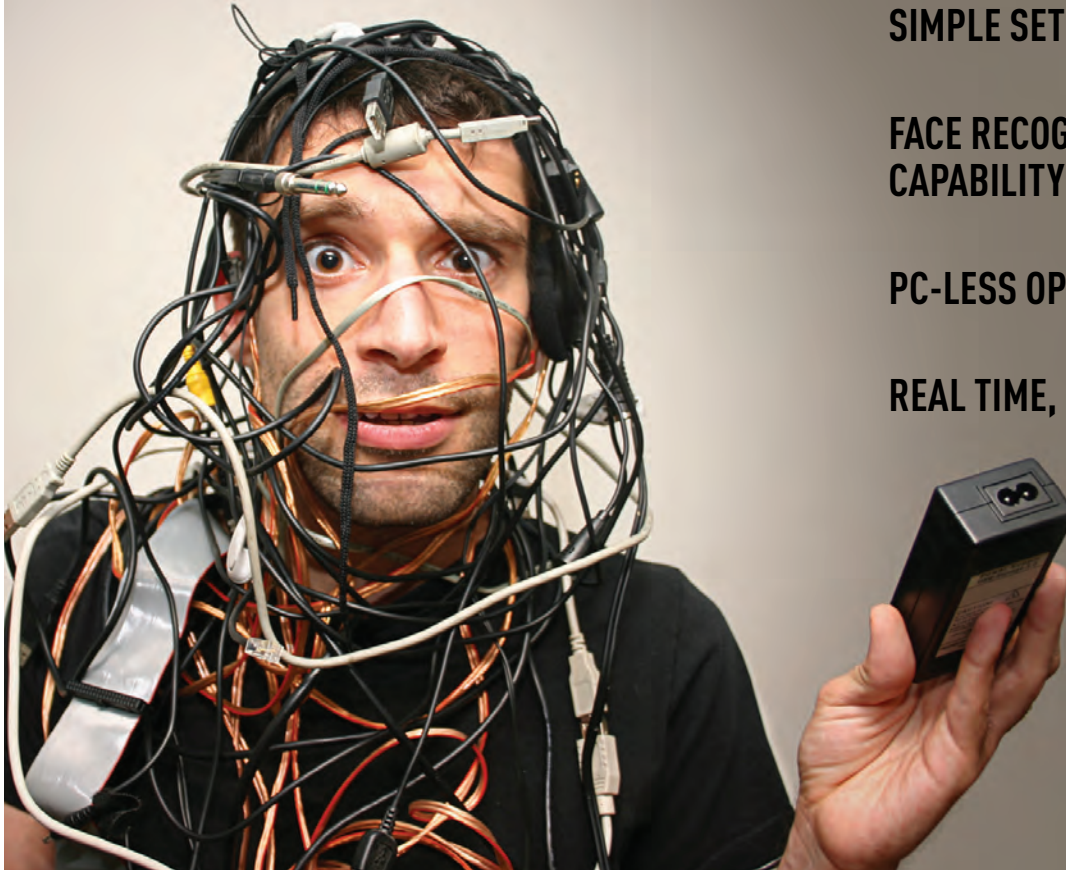


- 10x Digital Zoom
- Motion Detection
- Cell Phone Monitoring



*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

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**

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



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EVERYTHING MATTERS