

# Panasonic Security Systems



## Network Camera LineUp



| Model  | WV-NW964   | WV-NS954   | WV-NS202A   | WV-NF302   | WV-NF284                            | WV-NW484S   | WV-NS324  | WV-NP304   | WV-NP1004                                 | WV-NP244                           | WV-NP472                           |
|--|--|--|---|--|-------------------------------------|---|---|--|---|------------------------------------|------------------------------------|
| Camera Type  | Outdoor PTZ  | PTZ  | PTZ   | Ruggedized megapixel fixed dome                    | Fixed dome                          | Vandal dome   | PTZ   | Megapixel box                                      | Megapixel box                             | Fixed box                          | Fixed box                          |
| Super Dynamic  | SDIII  | SDIII  | SDIII   | No   | No                                  | SDIII   | No  | No   | No  | No                                 | SDII                               |
| Imaging Device   | 1/4"<br>Progressive Output   | 1/4"<br>Progressive Output   | 1/4"<br>Progressive Output  | 1/3"<br>Progressive Scan                           | 1/4"<br>Progressive Scan            | 1/3"<br>Progressive Output  | 1/4"  | 1/3"<br>Progressive Output                         | 1/3"<br>Progressive Scan                  | 1/3"<br>Progressive Scan           | 1/3"                               |
| Compression  | MPEG-4/JPEG  | MPEG-4/JPEG  | MPEG-4/JPEG   | MPEG-4/JPEG  | MPEG-4/JPEG                         | MPEG-4/JPEG   | JPEG  | MPEG-4/JPEG  | MPEG-4/JPEG                               | MPEG-4/JPEG                        | JPEG                               |
| Day/Night  | Yes  | Yes  | Yes (Simple)  | Yes  | No                                  | Yes   | No  | Yes  | Yes                                       | No                                 | Yes                                |
| Auto Back Focus  | Auto focus   | Auto focus   | Auto focus  | Focus assist                                       | No                                  | Yes   | Auto focus  | Focus assist                                       | Yes                                       | No                                 | No                                 |
| PoE  | No   | No   | Yes   | Yes  | Yes                                 | Yes   | Yes   | Yes  | No  | Yes                                | No                                 |
| Minimum Illumination<br>(w/clear dome when applicable) |  |  |   |  |                                     |   |   |  |   |                                    |                                    |
| Color  | 0.5lux   | 0.5lux   | 0.7lux  | 1.5lux   | 1.5lux                              | 1.5lux  | 1.0lux  | 1.5lux   | 1.0lux                                    | 1.1lux                             | 0.8lux                             |
| Color w/enhancement                                    | 0.02lux @ 32x sens up  | 0.02lux @ 32x sens up  | 0.02lux @ 32x sens up   |  | 0.19lux @ 8x sens up                | 0.046lux @ 32x sens up  | 0.025lux @ 4x sens up                               |  |   | 0.07lux @ 16x sens up              |                                    |
| B/W  | 0.04lux  | 0.04lux  | 0.5lux  | 0.9lux   |                                     | 0.16lux   |   | 0.9lux   | 0.06lux                                   |                                    | 0.1lux                             |
| B/W w/enhancement                                      | 0.0013lux @ 32x sens up  | 0.0013lux @ 32x sens up  | 0.015lux @ 32x sens up  |  |                                     | 0.005lux @ 32x sens up  |   |  |   |                                    |                                    |
| Key Features   | Auto Tracking<br>Drag and Zoom<br>360° map shot<br>Auto Image Stabilization<br>Motion detection<br>Digital slip ring | Auto Tracking<br>Drag and Zoom<br>360° map shot<br>Auto Image Stabilization<br>Motion detection<br>Digital slip ring | Auto Tracking<br>Drag and Zoom<br>360° map shot<br>Alarm function<br>Motion detection | Focus assist<br>Alarm function<br>Motion detection | Alarm function<br>Motion detection  | Vandal ABF<br>Alarm function<br>Motion detection<br>Dehumidification device | 360° map shot<br>Alarm function<br>Motion detection | Focus assist<br>Alarm function<br>Motion detection | ABF<br>Alarm function<br>Motion detection | Alarm function<br>Motion detection | Alarm function<br>Motion detection |
| fps JPEG   | Up to 30fps@VGA  | Up to 30fps@VGA  | Up to 30fps@VGA   | Up to 30fps@VGA                                    | Up to 30fps@VGA                     | Up to 30fps@VGA   | Up to 30fps@VGA                                     | Up to 30fps@VGA                                    | Up to 30fps@VGA                           | Up to 30fps@VGA                    | Up to 30fps@QVGA                   |
| fps MPEG-4   | Up to 30fps@VGA  | Up to 30fps@VGA  | Up to 30fps@VGA   | Up to 30fps@VGA                                    | Up to 30fps@VGA                     | Up to 30fps@VGA   | Up to 30fps@VGA                                     | Up to 30fps@VGA                                    | Up to 30fps@VGA                           | Up to 30fps@VGA                    | N/A                                |
| Preset Position  | 256  | 256  | 64  | N/A  | N/A                                 | N/A   | 16  | N/A  | N/A                                       | N/A                                | N/A                                |
| Audio Capability                                       | 2-way  | 2-way  | 2-way (half-duplex)   | 2-way  | 1-way                               | No  | 1-way   | 2-way  | 1-way                                     | 1-way                              | No                                 |
| SD Memory Card Slot                                    | Yes (mini)   | Yes  | Yes   | Yes  | Yes                                 | Yes   | Yes   | Yes  | Yes                                       | Yes                                | No                                 |
| Lens Type  | 3.8mm~114mm  | 3.8mm~114mm  | 3.8mm~83mm  | 3.6x vari-focal<br>2.8~10mm                        | 3.6x vari-focal<br>2.8~10mm         | 2x vari-focal<br>3.8mm~8.0mm  | 3.6x vari-focal<br>4.2mm~42mm                       | Optional   | Optional                                  | Optional                           | Optional                           |
| Zoom   | 30x optical<br>10x electronic  | 30x optical<br>10x electronic  | 22x optical<br>10x electronic   | 3.6x optical<br>4x electronic                      | 3.6x optical<br>3x electronic       | 2x optical<br>4x electronic   | 10x optical<br>5x electronic                        | 4x electronic                                      | 5x electronic                             | 3x electronic                      | N/A                                |
| Network  | 10BASE-T/<br>100BASE-TX (RJ-45)  | 10BASE-T/<br>100BASE-TX (RJ-45)  | 10BASE-T/<br>100BASE-TX (RJ-45)   | 10BASE-T/<br>100BASE-TX (RJ-45)                    | 10BASE-T/<br>100BASE-TX (RJ-45)     | 10BASE-T/<br>100BASE-TX (RJ-45)   | 10BASE-T/<br>100BASE-TX (RJ-45)                     | 10BASE-T/<br>100BASE-TX (RJ-45)                    | 10BASE-T/<br>100BASE-TX (RJ-45)           | 10BASE-T/<br>100BASE-TX (RJ-45)    | 10BASE-T/<br>100BASE-TX (RJ-45)    |
| Power  | 24VAC  | 24VAC6   | 12VDC/PoE   | 12VDC/PoE  | 24VAC/12VDC/PoE                     | 24VAC/12VDC/PoE   | 24VAC/12VDC   | 24VAC/12VDC/PoE                                    | 24VAC                                     | 24VAC/12VDC/PoE                    | 12VDC                              |
| I/O Terminals  | 6  | 6  | 4   | 3  | 3                                   | 3   | 4   | 3  | 5   | 4                                  | 4                                  |
| Power Consumption                                      | ~85 W (heater on)  | ~15 W  | DC 1,000 mA<br>PoE 12.0 W   | DC 510 mA<br>PoE 6.4 W                             | AC ~4.2 W<br>DC 350 mA<br>PoE 4.0 W | AC ~16 W<br>DC 920 mA<br>PoE 12.0 W   | AC ~15 W<br>DC 920 mA                               | AC ~5.2 W<br>DC 530 mA<br>PoE 6.4 W                | ~9.5 W                                    | AC ~4.8 W<br>DC 4.8 W<br>PoE 4.2 W | DC 700 mA                          |



## Network Video Recorders

## Video Encoder



|                           |  |
|---------------------------|--|
| Model                     | WJ-ND400                                       |
| Max. Storage              | 4,500 GB (internal), 27TB w/external           |
| Image Download            | PC via Network                                 |
| Network I/F               | 2-200 Mbps, 1-10 Mbps                          |
| Max. IP Camera            | 64 at MPEG-4                                   |
| Max. Recording Rate/Total | Approx. 1,920fps                               |
| Camera Brands Supported   | Panasonic, Panasonic Consumer, Axis            |
| Alarm/Control Ports       | 32 alarm inputs, 32 alarm outputs, control/aux |
| Motion Detection          | Only from camera                               |
| Power Source              | 120 VAC, 60 Hz                                 |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (browser, WV-ASM100)                       |

|                           |  |
|---------------------------|--|
| Model                     | WJ-ND200   |
| Max. Storage              | 320 GB (internal, removable)   |
| Image Download            | PC via Network   |
| Network I/F               | 1-100 Mbps   |
| Max. IP Camera            | 16 at MPEG-4   |
| Max. Recording Rate/Total | Approx. 270fps (at 640x480 9 cameras)<br>(More depending on camera/network settings) |
| Camera Brands Supported   | Panasonic, Panasonic Consumer, Axis  |
| Alarm/Control Ports       | 16 alarm inputs, 16 alarm outputs, control/aux                                       |
| Motion Detection          | Only from camera   |
| Power Source              | 120 VAC, 60 Hz   |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (browser, WV-ASM100)   |

|                           |  |
|---------------------------|--|
| Model                     | WJ-ND300A                                      |
| Max. Storage              | 2,000 GB (internal), 14,000 GB w/ external     |
| Image Download            | PC via Network                                 |
| Network I/F               | 2-100 Mbps, 1-10 Mbps                          |
| Max. IP Camera            | 32 at MPEG-4                                   |
| Max. Recording Rate/Total | Approximately 960fps                           |
| Camera Brands Supported   | Panasonic, Panasonic Consumer, Axis            |
| Alarm/Control Ports       | 16 alarm inputs, 16 alarm outputs, control/aux |
| Motion Detection          | Only from camera                               |
| Power Source              | 120 VAC, 60 Hz                                 |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (browser, WV-ASM100)                       |

|                |                             |
|----------------|-----------------------------|
| Model          | WJ-NT304/WJ-NT314           |
| Compression    | Dual MPEG-4/JPEG            |
| Video Inputs   | 4                           |
| Audio Inputs   | 1, 2-way capable            |
| SD Card Backup | Yes                         |
| FPS/Resolution | 4 CIF/10-30 fps             |
| Analytics      | 2 ch. video (WJ-NT314 only) |

## Digital Video Recorders



|                           |  |
|---------------------------|--|
| Model                     | WJ-HD220   |
| Video Inputs              | 8  |
| Input Loop Through        | Yes  |
| Monitor Out               | 1 spot, 1 multi-screen                           |
| Other Video/Audio Outputs | 1 composite, 1 audio                             |
| Audio Inputs              | 1  |
| Max. Recording Rate/Total | 30 ips (field)                                   |
| Video Input/Output Signal | NTSC only  |
| Max. Storage              | 320 GB (Internal)                                |
| Copy Ports                | N/A  |
| Image Download            | PC via Network                                   |
| Alarm/Control Ports       | 8 alarm inputs<br>8 alarm outputs<br>control/aux |
| PTZ Support               | Yes<br>(coax and RS485)                          |
| Motion Detection          | Yes  |
| Power Source              | 120 VAC, 60 Hz                                   |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (browser, WV-AS20)                           |

|                           |  |
|---------------------------|--|
| Model                     | WJ-HD309A  |
| Video Inputs              | 9  |
| Input Loop Through        | Yes  |
| Monitor Out               | 1 spot, 1 multi-screen                           |
| Other Video/Audio Outputs | 1 S-Video, 1 composite,<br>1 audio               |
| Audio Inputs              | 4  |
| Max. Recording Rate/Total | 60 ips (field), 120 ips (CIF)                    |
| Video Input/Output Signal | NTSC only  |
| Max. Storage              | 500 GB (Internal)<br>7500GB (w/external)         |
| Copy Ports                | 2 (for SD, HDD, CD/DVD)                          |
| Image Download            | PC via Network                                   |
| Alarm/Control Ports       | 9 alarm inputs<br>9 alarm outputs<br>control/aux |
| PTZ Support               | Yes<br>(coax and RS485)                          |
| Motion Detection          | Yes  |
| Power Source              | 120 VAC, 60 Hz                                   |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (browser, WV-ASM100)                         |

|                           |  |
|---------------------------|--|
| Model                     | WJ-HD316A  |
| Video Inputs              | 16   |
| Input Loop Through        | Yes  |
| Monitor Out               | 1 spot, 1 multi-screen                             |
| Other Video/Audio Outputs | 1 S-Video, 1 composite,<br>1 audio                 |
| Audio Inputs              | 4  |
| Max. Recording Rate/Total | 60 ips (field), 120 ips (CIF)                      |
| Video Input/Output Signal | NTSC only  |
| Max. Storage              | 1000 GB (Internal)<br>15000GB (w/external)         |
| Copy Ports                | 2 (for SD, HDD, CD/DVD)                            |
| Image Download            | PC via Network                                     |
| Alarm/Control Ports       | 16 alarm inputs<br>16 alarm outputs<br>control/aux |
| PTZ Support               | Yes<br>(coax and RS485)                            |
| Motion Detection          | Yes  |
| Power Source              | 120 VAC, 60 Hz                                     |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (browser, WV-ASM100)                           |

|                           |  |
|---------------------------|--|
| Model                     | WJ-RT416/WJ-RT416V   |
| Video Inputs              | 16   |
| Input Loop Through        | Yes  |
| Monitor Out               | 1 multi-screen   |
| Other Video/Audio Outputs | 1 audio  |
| Audio Inputs              | 16   |
| Max. Recording Rate/Total | 480 ips (field)  |
| Video Input/Output Signal | NTSC only  |
| Max. Storage              | 3000 GB (WJ-RT416 Internal)<br>2500 GB (WJ-RT416V Internal)          |
| Copy Ports                | 2 (for SD, HDD, CD/DVD)/1 built-in<br>CD/DVD burner (WJ-RT416V only) |
| Image Download            | PC via Network   |
| Alarm/Control Ports       | 16 alarm inputs<br>16 alarm outputs<br>control/aux                   |
| PTZ Support               | Yes<br>(coax and RS485)  |
| Motion Detection          | Yes  |
| Power Source              | 120 VAC, 60 Hz   |
| Rack Mountable            | Yes  |
| Remote Software           | Yes (Netclient, browser)   |

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## PTZ and Fixed Dome Camera LineUp



| Model  | WV-CW974  | WV-CW964  | WV-CS954  | WV-CS574                | WV-CW484S/F   | WV-CW244S/F  | WV-CF324   | WV-CF284/T<br>WV-CF294/T  |
|--|---|---|---|-------------------------|---|--|--|---|
| Camera Type  | Outdoor PTZ   | Outdoor PTZ   | Indoor PTZ  | Indoor PTZ              | Outdoor Vandal  | Outdoor Vandal   | Ruggedized Indoor Minidome   | Indoor Minidome   |
| Imaging Device   | 1/4"  | 1/4"  | 1/4"  | 1/4"                    | 1/3"  | 1/3"   | 1/4"   | 1/4"  |
| Day/Night  | Yes   | Yes   | Yes   | No                      | Yes   | No   | Yes  | Yes   |
| Minimum Illumination<br>(w/clear dome when applicable) |   |   |   |                         |   |  |  |   |
| Color  | 0.5lux  | 0.5lux  | 0.5lux  | 1.0lux                  | 1.5lux  | 1.0lux   | 0.9lux   | 0.9lux  |
| Color w/enhancement                                    | 0.02lux @ 32x sens up   | 0.02lux @ 32x sens up                               | 0.02lux @ 32x sens up                               | 0.032lux @ 32x sens up  | 0.15lux @ 10x sens up   | 0.16lux  |  |   |
| B/W  | 0.04lux   | 0.04lux   | 0.04lux   |                         |   |  |  |   |
| B/W w/enhancement                                      | 0.0013lux @ 32x sens up   | 0.0013lux @ 32x sens up                             | 0.0013lux @ 32x sens up                             |                         | 0.008lux @ 10x sens up  |  |  |   |
| Horiz. Resolution                                      | 540 lines   | 540 lines   | 540 lines   | 510 lines               | 540 lines   | 480 lines  | 540 lines  | 540 lines   |
| Focal Length   | 3.8mm-114mm   | 3.8mm-114mm   | 3.8mm-114mm   | 3.79mm-83.4mm           | 2x vari-focal<br>3.8-8.0mm  | 2x vari-focal<br>3.8-8.0mm                             | 3.6x vari-focal<br>2.8-10.0mm  | WV-CF294/T:<br>3.6x vari-focal, 2.8-10.0mm<br>WV-CF284/T:<br>2x vari-focal, 2.8-6.0mm |
| Super Dynamic  | SDIII   | SDIII   | SDIII   | No                      | SDIII   | No   | Adaptive Black Stretch   | Adaptive Black Stretch  |
| Zoom   | 30x optical/10x digital   | 30x optical/10x digital                             | 30x optical/10x digital                             | 22x optical/10x digital | 2x digital  | N/A  | N/A  | N/A   |
| Auto Back Focus  | Auto focus  | Auto focus  | Auto focus  | Auto focus              | Vandal ABF  | No   | Lens ABF   | WV-CF284/T: N/A<br>WV-CF294/T: Lens ABF   |
| Motion Detection                                       | Yes   | Yes   | Yes   | Yes                     | Yes   | No   | N/A  | N/A   |
| On Screen Display                                      | Yes   | Yes   | Yes   | Yes                     | Yes   | No   | N/A  | N/A   |
| Image Stabilization                                    | Yes   | Yes   | Yes   | No                      | Yes   | No   | N/A  | N/A   |
| IP66   | Yes   | Yes   | N/A   | N/A                     | Yes   | Yes  | N/A  | N/A   |
| Power  | 24VAC   | 24VAC   | 24VAC   | 24VAC                   | 24VAC/12VDC   | 24VAC/12VDC  | 24VAC/12VDC  | 24VAC/12VDC   |
| Power Consumption                                      | Camera AC 17 W<br>w/heater AC 62 W                                | Camera AC 17 W<br>w/heater AC 62 W                  | AC 13 W   | AC 13 W                 | AC 11 W w/heater<br>DC 340 mA   | AC 3.0 W<br>DC 265mA                                   | AC 2.7 W<br>DC 220mA   | WV-CF284/T:<br>AC 3.0 W DC 265mA<br>WV-CF294/T:<br>AC 2.7 W DC 220mA                  |
| Operating Temp.  | -40°F - 122°F   | -40°F - 122°F                                       | 14°F - 122°F  | 14°F - 122°F            | 14°F - 122°F<br>-22°F - 122°F<br>When opt. heater used  | 14°F - 122°F<br>-22°F - 122°F<br>When opt. heater used | 14°F - 122°F   | 14°F - 122°F  |
| Additional   | Advanced auto tracking<br>w/automatic PTZ<br>Privacy zone masking | Auto tracking with pan/tilt<br>Privacy zone masking | Auto tracking with pan/tilt<br>Privacy zone masking | Privacy zone masking    | Dehumidification device<br>Quick-lock device<br>Options: Heater WV-CW4H<br>Clear Dome WV-CW4C | Options:<br>Heater WV-CW3H<br>Clear Dome WV-CW2C       | Adaptive Black Stretch<br>metal body and<br>Polycarbonate dome cover | Adaptive Black Stretch<br>CF284T/294T:<br>Supports UTP cables                         |

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## Fixed Box Camera Lineup



| Model                    | WV-CW384                                | WV-CL930 series                               | WV-CP480 series                             | WV-CP254H  | WV-CP280 series                             | WV-BP330 series   |
|--------------------------|---|---|---|--|---|---|
| Camera Type              | Outdoor Fixed Box                       | Fixed Box                                     | Fixed Box                                   | Fixed Box  | Fixed Box                                   | Fixed Box   |
| Imaging Device           | 1/3" Color                              | 1/2" Color                                    | 1/3" Color                                  | 1/3" Color   | 1/3" Color                                  | 1/3" B/W  |
| Day/Night                | Yes                                     | Yes   | Yes   | Yes  | Yes   | No  |
| Sensitivity (Color)      | 0.65lux<br>(0.065lux@10x sens up)       | 0.09lux<br>(0.003lux@32x sens up)             | 0.5lux<br>(0.05lux@10x sens up)             | 1.0lux   | 0.8lux                                      | N/A   |
| Sensitivity (B/W)        | 0.09lux<br>(0.009lux@10x sens up)       | 0.008lux<br>(0.0003lux@32x sens up)           | 0.06lux                                     | 0.15lux  | 0.6lux                                      | 0.06lux   |
| Horizontal Resolution    | 540 lines                               | 540 lines                                     | 540 lines                                   | 480 lines  | 540 lines                                   | 570 lines (B/W)   |
| Super Dynamic            | SDIII                                   | No  | SDIII                                       | No   | No  | No  |
| Auto Back Focus          | Yes                                     | Yes   | Yes   | No   | No  | No  |
| Lens Mount               | CS                                      | CS  | CS  | CS   | CS  | C/CS  |
| Lens Type                | 1/3" 8x vari-focal<br>5-40mm (built-in) | Optional                                      | Optional                                    | Optional   | Optional                                    | Optional  |
| Motion Detection         | Yes                                     | Yes   | Yes   | No   | No  | No  |
| On Screen Display        | Yes                                     | Yes   | Yes   | No   | No  | No  |
| Auto Image Stabilization | Yes                                     | Yes   | Yes   | No   | No  | No  |
| Light Control            | ALC                                     | ELC/ALC                                       | ELC/ALC                                     | ELC/ALC  | ELC/ALC                                     | ELC/ALC   |
| Power                    | Camera 24VAC/12VDC<br>Heater 24VAC      | WV-CL930 - 120VAC<br>WV-CL934 - 24VAC/12VDC   | WV-CP480 - 120VAC<br>WV-CP484 - 24VAC/12VDC | 24VAC  | WV-CP280 - 120VAC<br>WV-CP284 - 24VAC/12VDC | WV-BP330 - 120VAC<br>WV-BP332 - 12VDC<br>WV-BP334 - 24VAC |
| Power Consumption        | 24VAC 18 W<br>12VDC 540mA               | 120VAC 4.6 W<br>24VAC 4.0 W<br>12VDC 350mA    | 120VAC 4.8 W<br>24VAC 4.7 W<br>12VDC 410mA  | 24VAC 3.3 W  | 120VAC 3.4 W<br>24VAC 2.7 W<br>12VDC 220mA  | 120VAC 3.5 W<br>24VAC 3.5 W<br>12VDC 250mA                |
| Operating Temperature    | -22°F - 122°F<br>(Heater on)            | 14°F - 122°F                                  | 14°F - 122°F                                | 14°F - 122°F   | 14°F - 122°F                                | 14°F - 122°F  |
| Additional               | IP66 Rated                              | 1/2" CCD<br>High IR sensitivity<br>(B/W mode) | Image Stabilizer                            | Compact size:<br>67(w) x 65(h) x 72.5(d) mm<br>2 5/8" x 2 9/16" x 2 7/8" | Adaptive Black Stretch                      | High sensitivity  |

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