# IP VIDEO PRODUCT SELECTION

2019 Ver. 1

Network Cameras / PTZ / Thermal / NVR / Display & Control / Transmission / Accessories / Video Management Software / DORI Distance



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# NETWORK CAMERAS



# NETWORK CAMERAS

## Ultra-Smart Series

The Ultra Series is an ideal option for surveillance professionals committed to employing the latest innovations and highest performance with the highest quality assurance in the surveillance industry. A Sony STARVIS sensor, superior Starlight technology, and advanced intelligent functions ensure top-grade monitoring in any scenario.

### ⊕ KEY FEATURES

**High-Performance**
Super-sensitive Sony STARVIS™ sensor for unparalleled performance

**Superior Image**
Starlight / Ultra 140dB WDR provides clear image under any light conditions

**H.265**
Advanced encoding saves up to 50% bandwidth and storage

**Intelligent Functions**
People Counting, heat map, and SSA to greatly increase efficiency

## Ultra-Smart Series

Box Camera

| Model | IPC-HF81230E-E | IPC-HF8835F | IPC-HF8630F-E | IPC-HF8331F-E |
|---|---|---|---|---|
| Appearance |  ePoE 4K H.265+ |  4K H.265+ Polarlight |  ePoE H.265+ Starlight |  ePoE Ultra WDR H.265+ Starlight+ |
| Image Sensor | 1/1.7" 12MP STARVIS™ CMOS | 4/3" 8MP CMOS | 1/1.8"6MP STARVIS™ CMOS | 1/2.8"3MP STARVIS™ CMOS |
| Lens | CS | M43 | CS | CS |
| FOV-H | -- | -- | -- | -- |
| Min. Illumination | 0.005Lux/F1.2(Color,1/3s,30IRE)<br>0.05Lux/F1.2(Color,1/30s,30IRE)<br>0.003Lux/F1.2(B/W,1/3s,30IRE)<br>0.03Lux/F1.2(B/W,1/30s,30IRE) | 0.0005Lux/F0.95 (Color,1/3s,30IRE)<br>0.003Lux/F0.95 (Color,1/30s,30IRE)<br>0.0003Lux/F0.95 (B/W,1/3s,30IRE)<br>0.002Lux/F0.95 (B/W,1/30s,30IRE) | 0.005Lux/F1.2(Color,1/3s,30IRE)<br>0.05Lux/F1.2(Color,1/30s,30IRE)<br>0.003Lux/F1.2(B/W,1/3s,30IRE)<br>0.03Lux/F1.2(B/W,1/30s,30IRE) | 0.002Lux/F1.2(Color,1/3s,30IRE)<br>0.02Lux/F1.2(Color,1/30s,30IRE)<br>0.001Lux/F1.2(B/W,1/3s,30IRE)<br>0.01Lux/F1.2(B/W,1/30s,30IRE) |
| Day/Night | ICR | ICR | ICR | ICR |
| WDR | DWDR | 140dB | DWDR | 140dB |
| Max. IR Distance | -- | -- | -- | -- |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| Max. Resolution | 12MP(4000×3000) | 4K(3840×2160) | 6MP(3072×2048) | 3MP(2048×1536) |
| Frame Rate | 20fps@12MP, 30fps@4K | 30fps@4K | 30fps@6MP | 60fps@3MP |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | -- | -- | -- | -- |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1, Built-in Mic | 2/1,Built-in Mic | 2/1, Built-in Mic | 2/1, Built-in Mic |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC / 0.5A 50VAC | 2 channel In: 5mA 5VDC<br>2 channel Out: 1A 30VDC / 0.5A 50VAC | 2 channel In: 5mA 5VDC<br>2 channel Out: 1A 30VDC / 0.5A 50VAC | 2 channel In: 5mA 5VDC<br>2 channel Out: 1A 30VDC / 0.5A 50VAC |
| Ingress Protection | -- | -- | -- | -- |
| Working Temperature | -30°C~+60°C(-22°F ~ +140°F) | -30°C~+60°C(-22°F ~ +140°F) | -30°C~+60°C(-22°F ~ +140°F) | -30°C~+60°C(-22°F ~ +140°F) |
| Power | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 8W | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 10.5W | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 7W | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 6.6W |

# NETWORK CAMERAS

## Ultra-Smart Series

| | Box Camera | | Vari-Focal Bullet | | | |
|---|---|---|---|---|---|---|
| Model | IPC-HF8232F-E | IPC-HF8231F-E | IPC-HFW81230E-ZE | IPC-HFW8630E-ZE | IPC-HFW8331E-ZE/Z5E | IPC-HFW8232E-ZE |
| Appearance |  ePoE H.265+ Starlight+ |  ePoE Ultra WDR H.265+ Starlight+ |  ePoE 4K H.265+ |  ePoE H.265+ |  ePoE Ultra WDR H.265+ Starlight |  ePoE H.265+ Starlight+ |
| Image Sensor | 1/1.8" 2MP Sony CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/1.7" 12MP STARVIS™ CMOS | 1/1.8" 6MP STARVIS™ CMOS | 1/2.8" 3MP STARVIS™ CMOS | 1/1.8" 2MP Sony CMOS |
| Lens | CS | CS | 4.1-16.4mm/F1.53(4x Optical zoom) | 4.1-16.4mm/F1.53(4x Optical zoom) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5) | 4.1-16.4mm/F1.53(4x Optical zoom) |
| FOV-H | -- | -- | 105°~35° | 105°~34° | 99°~28°<br>32°~11°(Z5) | 104°~33° |
| Min. Illumination | 0.001Lux/F1.2(Color,1/3s,30IRE)<br>0.01Lux/F1.2(Color,1/30s,30IRE)<br>0.0005Lux/F1.2(B/W,1/3s,30IRE)<br>0.005Lux/F1.2(B/W,1/30s,30IRE) | 0.003Lux/F1.2(Color,1/3s,30IRE)<br>0.03Lux/F1.2(Color,1/30s,30IRE)<br>0.001Lux/F1.2(B/W,1/3s,30IRE)<br>0.01Lux/F1.2(B/W,1/30s,30IRE) | 0.01Lux/F1.53(Color,1/3s,30IRE)<br>0.1Lux/F1.53(Color,1/30s,30IRE)<br>0Lux/F1.53(IR on) | 0.01Lux/F1.53(Color,1/3s,30IRE)<br>0.1Lux/F1.53(Color,1/30s,30IRE)<br>0Lux/F1.53(IR on) | 0.005Lux/F1.4(Color,1/3s,30IRE)<br>0.03Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.002Lux/F1.53(Color,1/3s,30IRE)<br>0.01Lux/F1.53(Color,1/30s,30IRE)<br>0Lux/F1.53(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 140dB | DWDR | DWDR | 140dB | 120dB |
| Max. IR Distance | -- | -- | 50m(164ft) | 50m(164ft) | 50m(164ft), 100m(328ft)(Z5) | 50m(164ft) |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 12MP(4000×3000) | 6MP(3072×2048) | 3MP(2048×1536) | 1080P(1920×1080) |
| Frame Rate | 60fps@1080P | 60fps@1080P | 20fps@12MP, 30fps@4K | 30fps@6MP | 60fps@3MP | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | -- | -- | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 2/1, Built-in Mic | 2/1, Built-in Mic | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2 channel In: 5mA 5VDC<br>2 channel Out: 1A 30VDC/0.5A 50VAC | 2 channel In: 5mA 5VDC<br>2 channel Out: 1A 30VDC/0.5A 50VAC | 2 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 2 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 2 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 2 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC |
| Ingress Protection | -- | -- | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) |
| Power | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 6.5W | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V<br>PoE+(802.3at)(Class 4)<br>Max. 13W | DC12V<br>PoE+(802.3at)(Class 4)<br>Max. 13W | DC12V<br>PoE+(802.3at)(Class 4)<br>Max. 13W | DC12V<br>PoE+(802.3at)(Class 4)<br>Max. 13W |

# NETWORK CAMERAS

## Ultra-Smart Series

| | Vari-Focal Bullet | Vari-Focal Dome | | | | |
|---|---|---|---|---|---|---|
| Model | IPC-HFW8231E-ZE/Z5E | IPC-HDBW81230E-ZE | IPC-HDBW8630E-ZE | IPC-HDBW8331E-ZE/Z5E | IPC-HDBW8232E-ZE | IPC-HDBW8231E-ZE/Z5E |
| Appearance |  |  |  |  |  |  |
| Image Sensor | 1/2.8" 2MP STARVIS™ CMOS | 1/1.7" 12MP STARVIS™ CMOS | 1/1.8" 6MP STARVIS™ CMOS | 1/2.8" 3MP STARVIS™ CMOS | 1/1.8" 2MP Sony CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 2.7-12mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5) | 4.1-16.4mm/F1.53(4x Optical zoom) | 4.1-16.4mm/F1.53(4x Optical zoom) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5) | 4.1-16.4mm/F1.53(4x Optical zoom) | 2.7-12mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5) |
| FOV-H | 114°~36°<br>34°~11°(Z5) | 105°~35° | 105°~34° | 99°~28°<br>32°~11°(Z5) | 104°~33° | 114°~36°<br>34°~11°(Z5) |
| Min. Illumination | 0.005Lux/F1.4(Color,1/3s,30IRE)<br>0.03Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.01Lux/F1.53(Color,1/3s,30IRE)<br>0.1Lux/F1.53(Color,1/30s,30IRE)<br>0Lux/F1.53(IR on) | 0.01Lux/F1.53(Color,1/3s,30IRE)<br>0.1Lux/F1.53(Color,1/30s,30IRE)<br>0Lux/F1.53(IR on) | 0.005Lux/F1.4(Color,1/3s,30IRE)<br>0.03Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.002Lux/F1.53(Color,1/3s,30IRE)<br>0.01Lux/F1.53(Color,1/30s,30IRE)<br>0Lux/F1.53(IR on) | 0.005Lux/F1.4(Color,1/3s,30IRE)<br>0.03Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 140dB | DWDR | DWDR | 140dB | 120dB | 140dB |
| Max. IR Distance | 50m(164ft)<br>100m(328ft)(Z5) | 50m(164ft) | 50m(164ft) | 50m(164ft)<br>100m(328ft)(Z5) | 50m(164ft) | 50m(164ft)<br>100m(328ft)(Z5) |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 12MP(4000×3000) | 6MP(3072×2048) | 3MP(2048×1536) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 60fps@1080P | 20fps@12MP, 30fps@4K | 30fps@6MP | 60fps@3MP | 60fps@1080P | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt; 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection<br>People Counting, Heat Map |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 1 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 1 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 1 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 1 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC | 1 channel In: 5mA 5VDC<br>1 channel Out: 1A 30VDC/0.5A 50VAC |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 |
| Working Temperature | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) |
| Power | DC12V<br>PoE+(802.3at)(Class 4)<br>Max. 13W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 18W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 18W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 18W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 18W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 18W |

# NETWORK CAMERAS

## Panoramic Series

The panoramic series is designed for applications which require a 360° or 180° view for situational awareness. With its all-in-one design, the series is a perfect solution to replace multiple conventional cameras, reducing complexity and saving on installation and maintenance costs.

### KEY FEATURES

**Sensor Integration**
Multiple image sensors on 1 IP address

**Eyes All Around**
4+1 / 8+1 sensors provide 180°/360°high definition panoramic image

**Distortion-Free**
Seamless splicing technology produces flawless stitched image

**One Replaces Many**
Replace multiple cameras, saving on installation & maintenance costs

## Panoramic Series

| | Panoramic | | | | |
|---|---|---|---|---|---|
| Model | PSD81602-A360 | | PSD8802-A180 | | IPC-PF83230-A180 |
| Appearance |  H.265+ Starlight | |  H.265+ Starlight | |  Starlight |
| | Panoramic | PTZ | Panoramic | PTZ | |
| Image Sensor | Eight 1/1.8" 2MP Sony CMOS | 1/1.8" 2MP Sony CMOS | Four 1/1.8" 2MP Sony CMOS | 1/1.8" 2MP Sony CMOS | Four 1/1.8" 2MP CMOS |
| Lens | 5.0mm/F2.2 | 5.5~206mm/F1.5 | 5.0mm/F2.2 | 5.5~206mm/F1.5 | 4.5mm/F2.4 |
| FOV-H | 360° | | 180° | | 180° |
| Min. Illumination | 0.005Lux/F2.2(Color,1/3s,30IRE) 0.03Lux/F2.2(Color,1/30s,30IRE) 0.003Lux/F2.2(B/W,1/3s,30IRE) 0.02Lux/F2.2(B/W,1/30s,30IRE) | 0.002Lux/F1.5(Color,1/3s,30IRE) 0.01Lux/F1.5(Color,1/30s,30IRE) 0.001Lux/F1.5(B/W,1/3s,30IRE) 0.008Lux/F1.5(B/W,1/30s,30IRE) | 0.005Lux/F2.2(Color,1/3s,30IRE) 0.03Lux/F2.2(Color,1/30s,30IRE) 0.003Lux/F2.2(B/W,1/3s,30IRE) 0.02Lux/F2.2(B/W,1/30s,30IRE) | 0.002Lux/F1.5(Color,1/3s,30IRE) 0.01Lux/F1.5(Color,1/30s,30IRE) 0.001Lux/F1.5(B/W,1/3s,30IRE) 0.008Lux/F1.5(B/W,1/30s,30IRE) | 0.009Lux/F2.4( Color,1/3s,30IRE) 0.05Lux/F2.4( Color,1/30s,30IRE) 0.005Lux/F2.4( B/W,1/3s,30IRE) 0.03Lux/F2.4( B/W,1/30s,30IRE) |
| Max. IR Distance | -- | | -- | | -- |
| Day/Night | -- | | -- | | -- |
| WDR | 120dB | | 120dB | | DWDR |
| Video Compression | H.265+/H.265/H.264+/H.264 | | H.265+/H.265/H.264+/H.264 | | H.265/H.264 |
| Resolution | 2×(4096×1800) | 1080P(1920×1080) | 4096×1800 | 1080P(1920×1080) | 8640×3840 |
| Frame Rate | 25fps@(4096×1800) | 60fps@1080P | 25fps@(4096×1800) | 60fps@1080P | 25fps@(8640×3840) |
| Multi-streaming | 3 streams | | 3 streams | | 3 streams |
| Pan/Tilt/Rotation | -- | Pan: 0°~360°; Tilt:-20°~90° Auto flip 180° | -- | Pan: 0°~360°; Tilt:-20°~90° Auto flip 180° | Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~355° |
| Intelligent Video | Tripwire, Intrusion Scene Change | Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection | Tripwire, Intrusion Scene Change | Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection | -- |
| Dewarping Mode | -- | | -- | | -- |
| Compatibility | ONVIF profile S&G, API | | ONVIF profile S&G, API | | -- |
| Audio In/Out | 2/1 | | 2/1 | | 2/1 |
| Memory Slot | Micro SD, Max. 128GB | | Micro SD, Max. 128GB | | Micro SD, Max. 128GB |
| Alarm In/Out | 7/2 | | 7/2 | | 2/2 |
| Ingress Protection | IP67, IK10 | | IP67, IK10 | | IP67, IK10 |
| Working Temperature | -40°C~+60°C(-40°F~+140°F) | | -40°C~+60°C(-40°F~+140°F) | | -30°C~+60°C(-22°F~+140°F) |
| Power | DC36V Max. 120W | | DC36V Max. 120W | | DC36V Max. 35W |

# NETWORK CAMERAS

## Panoramic Series

| | Panoramic | | | | |
|---|---|---|---|---|---|
| Model | IPC-PFW8802-A180 | IPC-PFW8800-A180 | IPC-PFW8601-A180 | IPC-PDBW8802-A180 | IPC-PDBW8800-A180 |
| Appearance |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |
| Image Sensor | Four 1/1.8" 2MP Sony CMOS | Four 1/2.8" 2MP STARVIS™ CMOS | Three 1/2.8" 2MP STARVIS™ CMOS | Four 1/1.8" 2MP Sony CMOS | Four 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 5.0mm/F2.2 | 3.0mm/F2.0 | 3.6mm/F1.8 | 5.0mm/F2.2 | 3.0mm/F2.0 |
| FOV-H | 180° | 180° | 180° | 180° | 180° |
| Min. Illumination | 0.005Lux/F2.2(Color,1/3s,30IRE)<br>0.03Lux/F2.2(Color,1/30s,30IRE)<br>0Lux/F2.2(IR on) | 0.007Lux/F2.0(Color,1/3s,30IRE)<br>0.05Lux/F2.0 (Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.007Lux/F1.8 (Color,1/3s,30IRE)<br>0.05Lux/F1.8(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.005Lux/F2.2(Color,1/3s,30IRE)<br>0.03Lux/F2.2(Color,1/30s,30IRE)<br>0Lux/F2.2(IR on) | 0.007Lux/F2.0(Color,1/3s,30IRE)<br>0.05Lux/F2.0 (Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) |
| Max. IR Distance | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) |
| Day/Night | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | DWDR | 120dB | 120dB | DWDR |
| Video Compression | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 |
| Resolution | 4096×1800 | 4096×1800 | 4096×832 | 4096×1800 | 4096×1800 |
| Frame Rate | 25fps@(4096×1800) | 25fps@(4096×1800) | 30fps@(4096×832) | 25fps@(4096×1800) | 25fps@(4096×1800) |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt:0°~90°<br>Rotation: 0°~360° | Pan: 0°~355°; Tilt: 0°~75°<br>Rotation: 0°~±20° | Pan: 0°~355°; Tilt: 0°~75°<br>Rotation: 0°~±20° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing |
| Dewarping Mode | -- | -- | -- | -- | -- |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2/2 | 2/2 | 2/1 | 2/2 | 2/2 |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 |
| Working Temperature | -40°C~+60°C (-40°F~+140°F) | -40°C~+60°C (-40°F~+140°F) | -40°C~+60°C (-40°F~+140°F) | -40°C~+60°C (-40°F~+140°F) | -40°C~+60°C (-40°F~+140°F) |
| Power | DC12V<br>PoE+ (802.3at)(Class 4)<br>Max. 25.5W | AC24V<br>PoE+ (802.3at)(Class 4)<br>Max. 25.5W | AC24V<br>PoE+ (802.3at)(Class 4)<br>Max. 23W | DC12V<br>PoE+ (802.3at)(Class 4)<br>Max. 25.5W | AC24V<br>PoE+ (802.3at)(Class 4)<br>Max. 25.5W |

# NETWORK CAMERAS

## Panoramic Series

| | Panoramic | | | | |
|---|---|---|---|---|---|
| Model | IPC-PDBW5831-B360 | IPC-EBW81230 | IPC-EBW8630 | IPC-EBW8630-IVC | IPC-EB5531 |
| Appearance |  Starlight |  4K H.265+ Starlight+ |  H.265+ Starlight+ |  B4QQV H.265+ Starlight |  H.265+ |
| Image Sensor | Four 1/2.8" 2MP STARVIS™ CMOS | 1/1.7" 12MP STARVIS™ CMOS | 1/1.8" 6MP STARVIS™ CMOS | 1/1.8" 6MP STARVIS™ CMOS | 1/2.7" 5M CMOS |
| Lens | 2.7~12mm/F1.4 | 1.98mm/F2.8 | 1.7mm/F2.0 | 1.3mm/F2.8 | 1.4mm/F1.6 |
| FOV-H | 4*(105°~44°) | 185°/185°/185° | 185°/185°/185° | 185°/185°/185° | 185° |
| Min. Illumination | 0.005Lux/F1.8( Color,1/3s,30IRE)<br>0.06Lux/1.8( Color,1/30s,30IRE)<br>0Lux/F1.8(IR on) | 0.001Lux/F2.8(Color,1/3s,30IRE)<br>0.01Lux/F2.8(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.002Lux/F2.0(Color,1/3s,30IRE)<br>0.02Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.005Lux/F2.8(Color,1/3s,30IRE)<br>0.05Lux/F2.8(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.02Lux/F1.6(Color,1/3s,30IRE)<br>0.2Lux/F1.6(Color,1/30s,30IRE)<br>0.05Lux/F1.6(B/W,1/3s,30IRE)<br>0.5Lux/F1.6(B/W,1/30s,30IRE) |
| Max. IR Distance | 30m(98ft) | 10m(33ft) | 10m(33ft) | 10m(33ft) | -- |
| Day/Night | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB(1 channel) | DWDR | DWDR | DWDR | 120dB |
| Video Compression | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 |
| Resolution | 4*1080P(1920×1080) | 12MP(4000×3000) | 6MP(3072×2048) | 6MP(3072×2048) | 5MP(2592×1944) |
| Frame Rate | 30fps@1080P(1920×1080) | 25fps@12MP | 30fps@6MP | 30fps@6MP | 20fps@5MP, 30fps@3MP |
| Multi-streaming | 4*2 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~80°<br>Rotation: 0°~355° | -- | -- | -- | -- |
| Intelligent Video | Tripwire,Intrusion,Scene Change<br>Abandoned/Missing | Tripwire, Intrusion<br>Heat map | Tripwire, Intrusion<br>Heat map | Tripwire, Intrusion<br>Heat map | Tripwire, Intrusion<br>Heat map |
| Dewarping Mode | -- | 1O; 1P+3R; 2R<br>1O+2R; 1O+3R; 4R<br>1O+4R; 1P+6R; 1O+8R | 1O; 1P+3R; 2R<br>1O+2R; 1O+3R; 4R<br>1O+4R; 1P+6R; 1O+8R | 1O; 1P+3R; 2R<br>1O+2R; 1O+3R; 4R<br>1O+4R; 1P+6R; 1O+8R | 1O; 1P+3R; 2R<br>1O+2R; 1O+3R; 4R<br>1O+4R; 1P+6R; 1O+8R |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1, Built-in Mic | 1/1, Built-in Mic | 1/1, Built-in Mic | Built-in Mic |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 1/1 | 2/2 | 2/2 | 2/2 | -- |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67,IK08 |
| Working Temperature | 30°C~+60°C(-40°F ~ +140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) |
| Power | AC24V<br>PoE+ (802.3at)(Class 4)<br>Max. 25.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 3.4W |

# NETWORK CAMERAS

## Pinhole Series

The pinhole series is ideal for ATMs, banks, stores, hotels and offices. It features a modular design with an independent main unit and a miniature sensor unit (with an 8m cable). The series offers the choice of a cylindrical pinhole lens or cylindrical standard lens, which can both be easily installed in any indoor environment.

### KEY FEATURES

**Easy Installation**
Modular design, 8m cable for covert installation

**Optimized Image**
True WDR enables clear facial image for accurate identification

**Highly Flexible**
Multiple sensor shapes allow flexible applications

## Pinhole Series

| | Pinhole Camera | | | | |
|---|---|---|---|---|---|
| Model | IPC-HUM8431-E1 | IPC-HUM8431-L1 | IPC-HUM8431-L3 | IPC-HUM8431-L4 | IPC-HUM8431-L5 |
| Appearance |  H.265+ |  Starlight |  Starlight |  Starlight |  Starlight |
| Image Sensor | -- | 1/2.7" 4MP CMOS | 1/2.7" 4MP CMOS | 1/2.7" 4MP CMOS | 1/2.7" 4MP CMOS |
| Lens | -- | 2.8mm/F2.4 | 2.8mm/F1.8 | 2.8mm/F2.4 | 2.8mm/F2.2 |
| FOV-H | -- | H:83° | H:109° | H:83° | H:104° |
| Min. Illumination | -- | 0.007Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.004Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE) | 0.006Lux/F1.8 (Color,1/3s,30IRE) 0.04Lux/F1.8 (Color,1/30s,30IRE) 0.003Lux/F1.8 (B/W,1/3s,30IRE) 0.02Lux/F1.8 (B/W,1/30s,30IRE) | 0.007Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.004Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE) | 0.005Lux/F2.2 (Color,1/3s,30IRE) 0.05Lux/F2.4 (Color,1/30s,30IRE) 0.003Lux/F2.4 (B/W,1/3s,30IRE) 0.03Lux/F2.4 (B/W,1/30s,30IRE) |
| Day/Night | Electronic | -- | -- | -- | -- |
| WDR | 120dB | -- | -- | -- | -- |
| Max. IR Distance | -- | -- | -- | -- | -- |
| Video Compression | H.265+/H.265 H.264+/H.264 | -- | -- | -- | -- |
| Max. Resolution | 4MP(2688×1520) | -- | -- | -- | -- |
| Frame Rate | 30fps@4MP | -- | -- | -- | -- |
| Multi-streaming | 3 streams | -- | -- | -- | -- |
| Pan/Tilt/Rotation | -- | -- | -- | -- | -- |
| Intelligent Video | Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection | -- | -- | -- | -- |
| Compatibility | ONVIF profile S&G, API | -- | -- | -- | -- |
| Audio In/Out | 1/1 | -- | -- | -- | -- |
| Memory Slot | Micro SD, Max. 128GB | -- | -- | -- | -- |
| Alarm In/Out | 2/2 | -- | -- | -- | -- |
| Ingress Protection | -- | -- | -- | -- | -- |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -- | -- | -- | -- |
| Power | DC12V, PoE (802.3af) (Class 0),Max. 6W | -- | -- | -- | -- |

# NETWORK CAMERAS

## Pinhole Series

Pinhole Camera

| Model | IPC-HUM8231-E2 | IPC-HUM8231-E1 | IPC-HUM8231-L1 | IPC-HUM8231-L3 | IPC-HUM8231-L4 | IPC-HUM8231-L5 | IPC-HUM4231 |
|---|---|---|---|---|---|---|---|
| Appearance |  |  H.265+ |  |  |  |  |  Starlight |
| Image Sensor | -- | -- | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.7" 2MP CMOS |
| Lens | -- | -- | 2.8mm/F2.4 | 2.8mm/F2.4 | 2.8mm/F2.4 | 2.8mm/F2.1 | 2.8mm/F2.4 |
| FOV-H | -- | -- | H:104° | H:112° | H:103° | H:111° | H:105° |
| Min. Illumination | -- | -- | 0.02Lux/F2.4 (Color,1/3s,30IRE)<br>0.08Lux/F2.4 (Color,1/30s,30IRE)<br>0.01Lux/F2.4 (B/W,1/3s,30IRE)<br>0.04Lux/F2.4 (B/W,1/30s,30IRE) | 0.02Lux/F1.8 (Color,1/3s,30IRE)<br>0.08Lux/F1.8 (Color,1/30s,30IRE)<br>0.01Lux/F1.8 (B/W,1/3s,30IRE)<br>0.04Lux/F1.8 (B/W,1/30s,30IRE) | 0.02Lux/F2.4 (Color,1/3s,30IRE)<br>0.08Lux/F2.4 (Color,1/30s,30IRE)<br>0.01Lux/F2.4 (B/W,1/3s,30IRE)<br>0.04Lux/F2.4 (B/W,1/30s,30IRE) | 0.02Lux/F2.1 (Color,1/3s,30IRE)<br>0.08Lux/F2.1 (Color,1/30s,30IRE)<br>0.01Lux/F2.1 (B/W,1/3s,30IRE)<br>0.04Lux/F2.1 (B/W,1/30s,30IRE) | 0.007Lux/F2.4 (Color,1/3s,30IRE)<br>0.08Lux/F2.4 (Color,1/30s,30IRE)<br>0.004Lux/F2.4 (B/W,1/3s,30IRE)<br>0.04Lux/F2.4 (B/W,1/30s,30IRE) |
| Day/Night | Electronic | Electronic | -- | -- | -- | -- | Electronic |
| WDR | 120dB | 120dB | -- | -- | -- | -- | 120dB |
| Max. IR Distance | -- | -- | -- | -- | -- | -- | -- |
| Video Compression | H.265/H.264 | H.265+/H.265<br>H.264+/H.264 | -- | -- | -- | -- | H.265+/H.265<br>H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | -- | -- | -- | -- | 1080P(1920×1080) |
| Frame Rate | 2×30fps@1080P | 60fps@1080P | -- | -- | -- | -- | 30fps@1080P |
| Multi-streaming | 2×2 streams | 3 streams | -- | -- | -- | -- | 3 streams |
| Pan/Tilt/Rotation | -- | -- | -- | -- | -- | -- | -- |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | -- | -- | -- | -- | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | -- | -- | -- | -- | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | -- | -- | -- | -- | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | -- | -- | -- | -- | Micro SD, Max. 128GB |
| Alarm In/Out | 2/2 | 2/2 | -- | -- | -- | -- | -- |
| Ingress Protection | -- | -- | -- | -- | -- | -- | -- |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -- | -- | -- | -- | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V, PoE (802.3af) (Class 0), Max.7W | DC12V, PoE (802.3af) (Class 0), Max. 6W | -- | -- | -- | -- | DC12V<br>Max. 1.5W |

# NETWORK CAMERAS

## Eco-Savvy 3.0 ePoE Series (Pro Series)

The Eco-Savvy 3.0 is the perfect choice for users who require a great balance of innovation and quality with cost. With ePoE technology for long-range transmission, a wide-range of models, and easy plug & play installation, the Eco-Savvy 3.0 series can meet the needs of diverse applications with challenging conditions.

### ⊕ KEY FEATURES

**Extended PoE**
Up to 800m transmission distance @10Mbps & 13W or 300m @100Mbps & 25.4W

**Carefree Installation**
Automatic setup with plug & play makes installation easy

**Wide Selection**
Rich selection of IP cameras, NVRs, and network switches

**Easy Analog to IP**
Migrate analog system to IP with Ethernet-to-coax converter and PoC

## Eco-Savvy 3.0 ePoE Series (Pro Series)

| | Box Camera | | Vari-Focal Bullet | |
|---|---|---|---|---|
| Model | IPC-HF5431E-E | IPC-HF5231E-E | IPC-HFW5831E-ZE/Z5E | IPC-HFW5631E-ZE/Z5E |
| Appearance | ePoE  H.265+ | ePoE  H.265+ Starlight+ | ePoE  4K H.265+ | ePoE  H.265+ |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.5" 8MP STARVIS™ CMOS | 1/2.9" 6MP STARVIS™ CMOS |
| Lens | CS | CS | 2.7~12mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5) |
| FOV-H | -- | -- | 110°~40°<br>38°~14°(Z5E) | 91°~27°<br>32°~10°(Z5E) |
| Min. Illumination | 0.02Lux/F1.2(Color,1/3s,30IRE)<br>0.2Lux/F1.2(Color,1/30s,30IRE)<br>0.01Lux/F1.2(B/W,1/3s,30IRE)<br>0.1Lux/F1.2(B/W,1/30s,30IRE) | 0.004Lux/F1.2(Color,1/3s,30IRE)<br>0.04Lux/F1.2(Color,1/30s,30IRE)<br>0.002Lux/F1.2(B/W,1/3s,30IRE)<br>0.02Lux/F1.2(B/W,1/30s,30IRE) | 0.05Lux/F1.4(Color,1/3s,30IRE)<br>0.2Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.03Lux/F1.4(Color,1/3s,30IRE)<br>0.3Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) |
| Day/Night | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | -- | -- | 50m(164ft)<br>100m(328ft)(Z5E) | 50m(164ft)<br>100m(328ft)(Z5E) |
| Video Compression | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H |
| Max. Resolution | 4MP(2688×1520) | 1080P(1920×1080) | 4K(3840×2160) | 6MP(3072×2048) |
| Frame Rate | 30fps@4MP | 60fps@1080P | 15fps@4K, 30fps@3MP | 20fps@6MP, 30fps@4MP |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | -- | -- | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1, Built-in Mic | 1/1, Built-in Mic | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2(5V 5mA)/1(12V 300mA) | 2(5V 5mA)/1(12V 300mA) | 2(5V 5mA)/1(12V 300mA) | 2(5V 5mA)/1(12V 300mA) |
| Ingress Protection | -- | -- | IP67, IK10 | IP67, IK10 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 8W | DC12V/AC24V<br>PoE (802.3af)(Class 0)<br>Max. 8W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12.95W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12.95W |

ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w

# NETWORK CAMERAS

## Eco-Savvy 3.0 ePoE Series (Pro Series)

| | Vari-Focal Bullet | | Vari-Focal Dome | | | |
|---|---|---|---|---|---|---|
| Model | IPC-HFW5431E-ZE/Z5E | IPC-HFW5231E-ZE/Z5E/Z12E | IPC-HDBW5831E-ZE/Z5E | IPC-HDBW5631E-ZE/Z5E | IPC-HDBW5431E-ZE/Z5E | IPC-IPC-HDBW5231E-ZE/Z5E |
| Appearance |  H.265+ |  H.265+ Starlight |  4K H.265+ |  H.265+ |  H.265+ |  H.265+ Starlight |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.5" 8MP STARVIS™ CMOS | 1/2.9" 6MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5E) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5E)<br>5.3~64mm/F1.4, Motorized(Z12E) | 2.7~12mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5E) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5E) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5E) | 2.7~13.5mm/F1.4, Motorized<br>7~35mm/F1.4, Motorized(Z5E) |
| FOV-H | 106°~31°<br>33°~12°(Z5E) | 101°~31°<br>35°~12°(Z5E)<br>59°~5°(Z12E) | 110°~40°<br>38°~14°(Z5E) | 91°~27°<br>32°~10°(Z5E) | 106°~31°<br>33°~13°(Z5E) | 101°~31°<br>35°~12°(Z5E) |
| Min. Illumination | 0.03Lux/F1.4(Color,1/3s,30IRE)<br>0.3Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.006Lux/F1.4(Color,1/3s,30IRE)<br>0.05Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.05Lux/F1.4(Color,1/3s,30IRE)<br>0.2Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.03Lux/F1.4(Color,1/3s,30IRE)<br>0.3Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.03Lux/F1.4(Color,1/3s,30IRE)<br>0.3Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.006Lux/F1.4(Color,1/3s,30IRE)<br>0.05Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 50m(164ft)<br>100m(328ft)(Z5E) | 50m(164ft)<br>100m(328ft)(Z5E)<br>200m(656ft)(Z12E) | 50m(164ft)<br>100m(328ft)(Z5E) | 50m(164ft)<br>100m(328ft)(Z5E) | 50m(164ft)<br>100m(328ft)(Z5E) | 50m(164ft)<br>100m(328ft)(Z5E) |
| Video Compression | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H |
| Max. Resolution | 4MP(2688×1520) | 1080P(1920×1080) | 4K(3840×2160) | 6MP(3072×2048) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 30fps@4MP | 60fps@1080P | 15fps@4K, 30fps@3MP | 20fps@6MP, 30fps@4MP | 30fps@4MP | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2(5V 5mA)/1(12V 300mA) | 2(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12.95W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 12.95W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 15W | DC12V/AC24V<br>PoE+ (802.3at)(Class 4)<br>Max. 15W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 15W | DC12V/AC24V<br>PoE+(802.3at)(Class 4)<br>Max. 13.5W |

ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w

# NETWORK CAMERAS

## Eco-Savvy 3.0 ePoE Series (Pro Series)

Fixed Mini-Bullet

| Model | IPC-HDW5831R-ZE | IPC-HDW5631R-ZE | IPC-HDW5431R-ZE | IPC-HDW5231R-ZE | IPC-HFW4831E-SE | IPC-HFW4631E-SE |
|---|---|---|---|---|---|---|
| Appearance |  |  |  |  |  |  |
| Image Sensor | 1/2.5" 8M CMOS | 1/2.9" 6M CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.5" 8MP STARVIS™ CMOS | 1/2.9" 6MP STARVIS™ CMOS |
| Lens | 2.7~12mm/F1.8, Motorized | 2.7~13.5mm/F1.6, Motorized | 2.7~13.5mm/F1.6, Motorized | 2.7~13.5mm/F1.6, Motorized | 2.8mm/F1.6, 4mm/F1.6 | 2.8mm/F1.6, 3.6mm/F1.6 |
| FOV-H | 110°~40° | 91°~27° | 106°~31° | 101°~31° | 112°/88° | 98°/69° |
| Min. Illumination | 0.05Lux/F1.8 (Color,1/3s,30IRE)<br>0.2Lux/F1.8 (Color,1/30s,30IRE)<br>0Lux/F1.8(IR on) | 0.03Lux/F1.6 (Color,1/3s,30IRE)<br>0.3Lux/F1.6 (Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.03Lux/F1.6 (Color,1/3s,30IRE)<br>0.3Lux/F1.6 (Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.006Lux/F1.6 ( Color,1/3s,30IRE)<br>0.05Lux/F1.6 ( Color,1/30s,30IRE)<br>0Lux/F1.6 (IR on) | 0.06Lux/F1.6(Color,1/3s,30IRE)<br>0.3Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.04Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 50m(164ft) | 50m(164ft) | 50m(164ft) | 50m(164ft) | 40m(131.2ft) | 40m(131.2ft) |
| Video Compression | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H |
| Max. Resolution | 4K(3840×2160) | 6MP(3072×2048) | 4MP(2688×1520) | 1080P(1920×1080) | 4K(3840×2160) | 6MP(3072×2048) |
| Frame Rate | 15fps@4K, 30fps@3MP | 20fps@6MP, 30fps@4MP | 30fps@4MP | 60fps@1080P | 15fps@4K, 30fps@3MP | 20fps@6MP, 30fps@4MP |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | Built- in Mic | Built- in Mic | Built- in Mic | Built- in Mic | -- | -- |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | -- | -- | -- | -- | -- | -- |
| Ingress Protection | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V,PoE(802.3af)(Class 0)<br>Max. 8.5W | DC12V,PoE(802.3af)(Class 0)<br>Max. 8.5W | DC12V,PoE(802.3af)(Class 0)<br>Max. 8.5W | DC12V,PoE(802.3af)(Class 0)<br>Max. 8.5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 6.5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 6.5W |



ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w

# NETWORK CAMERAS

## Eco-Savvy 3.0 ePoE Series (Pro Series)

Fixed Mini-Bullet

| Model | IPC-HFW4431E-SE | IPC-HFW4231E-SE | IPC-HFW4831T-ASE | IPC-HFW4631T-ASE | IPC-HFW4431T-ASE | IPC-HFW4231T-ASE |
|---|---|---|---|---|---|---|
| Appearance |  H.265+ |  H.265+ Starlight |  4K H.265+ |  H.265+ |  H.265+ |  H.265+ Starlight |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.5" 8MP STARVIS™ CMOS | 1/2.9" 6MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 3.6mm/F1.6, 6mm/F1.6 | 3.6mm/F1.6, 6mm/F1.6 | 2.8mm/F1.6, 4mm/F1.6 | 2.8mm/F1.6<br>3.6mm/F1.6, 6mm/F1.6 | 3.6mm/F1.6, 6mm/F1.6<br>8mm/F1.6, 12mm/F1.6 | 3.6mm/F1.6, 6mm/F1.6<br>8mm/F1.6, 12mm/F1.6 |
| FOV-H | 83°/55° | 87°/52° | 112°/88° | 98°/69° | 87°/55°/38°/25° | 87°/51°/41°/26° |
| Min. Illumination | 0.06Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.007Lux/F1.6(Color,1/3s,30IRE)<br>0.06Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.06Lux/F1.6(Color,1/3s,30IRE)<br>0.3Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.04Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.06Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.009Lux/F1.6(Color,1/3s,30IRE)<br>0.07Lux/F1.6 (Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 40m(131.2ft) | 40m(131.2ft) | 80m(262ft) | 80m(262ft) | 80m(262ft) | 80m(262ft) |
| Video Compression | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H | H.265+/H.265/H.264+/H.264H |
| Max. Resolution | 4MP(2688×1520) | 1080P(1920×1080) | 4K(3840×2160) | 6MP(3072×2048) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 30fps@4MP | 60fps@1080P | 15fps@4K, 30fps@3MP | 20fps@6MP, 30fps@4MP | 30fps@4MP | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | -- | -- | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | -- | -- | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) |
| Ingress Protection | IP67 | IP67 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V, PoE (802.3af)(Class 0)<br>Max. 6W | DC12V, PoE (802.3af)(Class 0)<br>Max. 6W | DC12V, PoE (802.3af)(Class 0)<br>Max. 11W | DC12V, PoE (802.3af)(Class 0)<br>Max. 11W | DC12V, PoE (802.3af)(Class 0)<br>Max. 10.5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 10.5W |

ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w

# NETWORK CAMERAS

## Eco-Savvy 3.0 ePoE Series (Pro Series)

| | Fixed Mini-Dome | | | | Wedge Dome | |
|---|---|---|---|---|---|---|
| Model | IPC-HDBW4831E-ASE | IPC-HDBW4631E-ASE | IPC-HDBW4431E-ASE | IPC-HDBW4231E-ASE | IPC-HDBW4431F-AS | IPC-HDBW4231F-AS |
| Appearance |  |  |  |  |  |  |
| Image Sensor | 1/2.5" 8MP STARVIS™ CMOS | 1/2.9" 6MP STARVIS™ CMOS | 1/3"4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 2.8mm/F2.5<br>4mm/F2.2 | 2.8mm/F1.6<br>3.6mm/F1.6 | 2.8mm/F1.6<br>3.6mm/F1.6<br>6mm/F1.6 | 2.8mm/F1.6<br>3.6mm/F1.6<br>6mm/F1.6 | 2.8mm/F2.0<br>3.6mm/F2.0<br>6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0<br>6mm/F2.0 |
| FOV-H | 122°/88° | 98°/69° | 104°/87°/55° | 110°/87°/51° | 104°/87°/55° | 110°/87°/51° |
| Min. Illumination | 0.03Lux/F2.5(Color,1/3s,30IRE)<br>0.3Lux/F2.5 (Color,1/30s,30IRE)<br>0Lux/F2.5(IR on) | 0.04Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.06Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.007Lux/F1.6(Color,1/3s,30IRE)<br>0.06Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.009Lux/F2.0(Color,1/3s,30IRE)<br>0.07Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) | 20m(66ft) | 20m(66ft) |
| Video Compression | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H |
| Max. Resolution | 4K(3840×2160) | 6MP(3072×2048) | 4MP(2688×1520) | 1080P(1920×1080) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 15fps@4K, 30fps@3MP | 20fps@6MP, 30fps@4MP | 30fps@4MP | 60fps@1080P | 30fps@4MP | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~355°; Tilt: 0°~64°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~64°<br>Rotation: 0°~355° | Pan: 0°~355°; Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~60°; Tilt: 0°~80°<br>Rotation: 0°~360° | Pan: 0°~60°; Tilt: 0°~80°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | Built-in Mic | Built-in Mic |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | 1(5V 5mA)/1(12V 300mA) | -- | -- |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP67, IK10 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V, PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 4.5W | DC12V, PoE (802.3af)(Class 0)<br>Max. 4.5W |



ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w

# NETWORK CAMERAS

## Eco-Savvy 3.0 ePoE Series (Pro Series)

| | Fixed Mini-Dome | | Recessed Mount Dome | | Fixed Eyeball | | | |
|---|---|---|---|---|---|---|---|---|
| Model | IPC-HDB4431C-AS | IPC-HDB4231C-AS | IPC-HDB4431G-AS | IPC-HDB4231G-AS | IPC-HDW4831EM-ASE | IPC-HDW4631EM-ASE | IPC-HDW4431EM-ASE | IPC-HDW4231EM-ASE |
| Appearance |  H.265+ |  H.265+ Starlight |  H.265+ |  H.265+ Starlight | ePoE  4K H.265+ | ePoE  H.265+ | ePoE  H.265+ | ePoE  H.265+ Starlight |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.5" 8MP STARVIS™ CMOS | 1/2.9" 6MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.5<br>4mm/F2.2 | 2.8mm/F1.6<br>3.6mm/F1.6 | 2.8mm/F1.6<br>3.6mm/F1.6<br>6mm/F1.6 | 2.8mm/F1.6<br>3.6mm/F1.6<br>6mm/F1.6 |
| FOV-H | 104°/87° | 110°/87° | 104°/87° | 110°/87° | 112°/88° | 98°/69° | 104°/83°/55° | 110°/87°/51° |
| Min. Illumination | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0.04Lux/F2.0(B/W,1/3s,30IRE)<br>0.2Lux/2.0(B/W,1/30s,30IRE) | 0.009Lux/F2.0(Color,1/3s,30IRE)<br>0.07Lux/F2.0(Color,1/30s,30IRE)<br>0.005Lux/F2.0(B/W1/3s,30IRE)<br>0.03Lux/2.0(B/W,1/30s,30IRE) | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0.04Lux/F2.0(B/W,1/3s,30IRE)<br>0.2Lux/2.0(B/W,1/30s,30IRE) | 0.009Lux/F2.0(Color,1/3s,30IRE)<br>0.07Lux/F2.0(Color,1/30s,30IRE)<br>0.005Lux/F2.0(B/W1/3s,30IRE)<br>0.03Lux/2.0(B/W,1/30s,30IRE) | 0.03Lux/F2.5( Color,1/3s,30IRE)<br>0.3Lux/F2.5( Color,1/30s,30IRE)<br>0Lux/F2.5(IR on) | 0.04Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6(Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.06Lux/F1.6(Color,1/3s,30IRE)<br>0.4Lux/F1.6 (Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) | 0.007Lux/F1.6(Color,1/3s,30IRE)<br>0.06Lux/F1.6 (Color,1/30s,30IRE)<br>0Lux/F1.6(IR on) |
| Day/Night | Electronic | Electronic | Electronic | Electronic | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | -- | -- | -- | -- | 50m(164ft) | 50m(164ft) | 50m(164ft) | 50m(164ft) |
| Video Compression | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H |
| Max. Resolution | 4MP(2688×1520) | 1080P(1920×1080) | 4MP(2688×1520) | 1080P(1920×1080) | 4K(3840×2160) | 6MP(3072×2048) | 4MP(2668×1520) | 1080P(1920×1080) |
| Frame Rate | 30fps@4MP | 60fps@1080P | 30fps@4MP | 60fps@1080P | 15fps@4K,30fps@3MP | 20fps@6MP, 30fps@4MP | 30fps@4MP | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt/Rotation | Pan: 0°~355°; Tilt: 0°~75°<br>Rotation: 0°~360° | Pan: 0°~355°; Tilt: 0°~75°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: -90°~90° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: -90°~90° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~78°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Scene Change<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | Built-in Mic | Built-in Mic | Built-in Mic | Built-in Mic | Built-in Mic | Built-in Mic | Built-in Mic | Built-in Mic |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | -- | -- | -- | -- | -- | -- | -- | -- |
| Ingress Protection | IP66 | IP66 | IK08 | IK08 | IP67 | IP67 | IP67 | IP67 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -10°C~+45°C(+14°F~+113°F) | -10°C~+45°C(+14°F~+113°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 3W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 3W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 3.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 3.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max 6W | DC12V<br>PoE (802.3af)(Class 0)<br>Max 6W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W |

ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w

# NETWORK CAMERAS

## Lite 2.0 Series

The Lite Series is suitable for users who want quality but have tight budget constraints. Superior cost/performance, easy installation, and Dahua quality standards and assurance make it a good choice for residential and small-medium business applications.

### KEY FEATURES

**H.265+**
Advanced encoding saves up to 70% bandwidth and storage

**Easy & Reliable**
Simple setup and high quality cameras for stable surveillance

**Cost-Effective**
Performance and quality are combined at an affordable price

## Lite 2.0 Series

Vari-Focal Bullet

| Model | IPC-HFW2831T-ZS | IPC-HFW2531T-ZS/VFS | IPC-HFW2431T-ZS/VFS | IPC-HFW2231T-ZS/VFS |
|---|---|---|---|---|
| Appearance |  H.265+ Starlight+ |  H.265+ |  H.265+ |  H.265+ Starlight |
| Image Sensor | 1/1.8" 8MP CMOS | 1/2.7" 5MP CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 3.7~11mm/F1.9 | 2.7~13.5mm/F1.4<br>Manual(-VFS)<br>Motorized(-ZS) | 2.7~13.5mm/F1.4<br>Manual(-VFS)<br>Motorized(-ZS) | 2.7~13.5mm/F1.4<br>Manual(-VFS)<br>Motorized(-ZS) |
| FOV-H | 112°~46° | 95°~27° | 104°~28° | 106°~29° |
| Min. Illumination | 0.004Lux/F1.9(Color,1/3s,30IRE)<br>0.09Lux/F1.9 (Color,1/30s,30IRE)<br>0Lux/F1.9(IR on) | 0.02Lux/F1.4(Color,1/3s,30IRE)<br>0.2Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.03Lux/F1.4(Color,1/3s,30IRE)<br>0.3Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.006Lux/F1.4(Color,1/3s,30IRE)<br>0.05Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) |
| Day/Night | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 60m(197ft) | 60m(197ft) | 60m(197ft) | 60m(197ft) |
| Video Compression | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H |
| Max. Resolution | 8M(3840×2160) | 5MP(2592×1944) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 30fps@8MP | 15fps@5MP<br>30fps@3MP | 20fps@4MP<br>30fps@3MP | 30fps@1080P |
| Multi-streaming | 2 streams | 2 streams | 2 streams | 2 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~80°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | -- | -- | -- | -- |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | -- | -- | -- | -- |
| Ingress Protection | IP67 | IP67 | IP67 | IP67 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V<br>PoE+ (802.3at)(Class 4)<br>Max. 14.3W | DC12V<br>PoE+ (802.3at)(Class 4)<br>Max. 15W(-ZS),13W(-VFS) | DC12V<br>PoE+ (802.3at)(Class 4)<br>Max. 14W(-ZS),12W(-VFS) | DC12V<br>PoE+ (802.3at)(Class 4)<br>Max. 14W(-ZS),12W(-VFS) |

# NETWORK CAMERAS

## Lite 2.0 Series

Vari-Focal Dome

| Model | IPC-HDBW2831R-ZS | IPC-HDBW2531R-ZS/VFS | IPC-HDBW2431R-ZS/VFS | IPC-HDBW2231R-ZS/VFS |
|---|---|---|---|---|
| Appearance |  H.265+ Starlight+ |  H.265+ |  H.265+ |  H.265+ Starlight |
| Image Sensor | 1/1.8” 8MP CMOS | 1/2.7” 5MP CMOS | 1/3” 4MP CMOS | 1/2.8” 2MP STARVIS™ CMOS |
| Lens | 3.7~11mm/F1.9 | 2.7~13.5mm/F1.4<br>Manual(-VFS), Motorized(-ZS) | 2.7~13.5mm/F1.4<br>Manual(-VFS), Motorized(-ZS) | 2.7~13.5mm/F1.4<br>Manual(-VFS), Motorized(-ZS) |
| FOV-H | 112°~46° | 95°~27° | 104°~28° | 106°~29° |
| Min. Illumination | 0.004Lux/F1.9(Color,1/3s,30IRE)<br>0.09Lux/F1.9 (Color,1/30s,30IRE)<br>0Lux/F1.9(IR on) | 0.02Lux/F1.4(Color,1/3s,30IRE)<br>0.2Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.03Lux/F1.4(Color,1/3s,30IRE)<br>0.3Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) | 0.006Lux/F1.4(Color,1/3s,30IRE)<br>0.05Lux/F1.4(Color,1/30s,30IRE)<br>0Lux/F1.4(IR on) |
| Day/Night | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) |
| Video Compression | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H |
| Max. Resolution | 8M(3840×2160) | 5MP(2592×1944) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 30fps@8MP | 15fps@5MP<br>30fps@3MP | 20fps@4MP<br>30fps@3MP | 30fps@1080P |
| Multi-streaming | 2 streams | 2 streams | 2 streams | 2 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°<br>Tilt: 0°~80°<br>Rotation: 0°~360° | Pan: 0°~360°; Tilt: 0°~80°<br>Rotation: 0°~360° | Pan: 0°~360°<br>Tilt: 0°~80°<br>Rotation: 0°~360° | Pan: 0°~360°<br>Tilt: 0°~80°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Outt | -- | -- | -- | -- |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB |
| Alarm In/Out | -- | -- | -- | -- |
| Ingress Protection | IP67 | IP67,IK10 | IP67,IK10 | IP67,IK10 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 10.9W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 9.5W(-ZS), 7.5W(-VFS) | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 9W(-ZS), 7W(-VFS) | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 9W(-ZS), 7W(-VFS) |

# NETWORK CAMERAS

## Lite 2.0 Series

| | Vari-Focal Eyeball | | | Fixed Mini-Bullet | | |
|---|---|---|---|---|---|---|
| Model | IPC-HDW2531R-ZS | IPC-HDW2431R-ZS | IPC-HDW2231R-ZS | IPC-HFW1531S | IPC-HFW1431S | IPC-HFW1230S |
| Appearance |  H.265+ |  H.265+ |  H.265+ Starlight |  H.265+ |  H.265+ |  H.265+ |
| Image Sensor | 1/2.7” 5MP CMOS | 1/3” 4MP CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.7” 5MP CMOS | 1/3” 4MP CMOS | 1/2.7” 2MP CMOS |
| Lens | 2.7~13.5mm/F1.6 Motorized(-ZS) | 2.7~13.5mm/F1.6 Motorized(-ZS) | 2.7~13.5mm/F1.6 Motorized(-ZS) | 2.8mm/F2.0 3.6mm/F2.0 | 2.8mm/F2.0 3.6mm/F2.0 | 2.8mm/F2.0 3.6mm/F2.0 |
| FOV-H | 85°~27° | 104°~28° | 106°~29° | 96°/78° | 104°/87° | 110°/92° |
| Min. Illumination | 0.02Lux/F1.6( Color,1/3s,30IRE) 0.2Lux/F1.6( Color,1/30s,30IRE) 0Lux/F1.6(IR on) | 0.03Lux/F1.6 (Color,1/3s,30IRE) 0.3Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on) | 0.006Lux/F1.6 (Color,1/3s,30IRE) 0.05Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on) | 0.03Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | DWDR |
| Max. IR Distance | 50m(164ft) | 50m(164ft) | 50m(164ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) |
| Video Compression | H.265+/H.265 H.264+/H.264H | H.265+/H.265 H.264+/H.264H | H.265+/H.265 H.264+/H.264H | H.265+/H.265 H.264+/H.264H | H.265+/H.265 H.264+/H.264H | H.265+/H.265 H.264+/H.264 |
| Max. Resolution | 5MP(2592×1944) | 4MP(2688×1520) | 1080P(1920×1080) | 5MP(2592×1944) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 15fps@5MP 30fps@3MP | 20fps@4MP 30fps@3MP | 30fps@1080P | 15fps@5MP 30fps@3MP | 20fps@4MP 30fps@3MP | 30fps@1080P |
| Multi-streaming | 2 streams | 2 streams | 2 streams | 2 streams | 2 streams | 2 streams |
| Pan/Tilt/Rotation | Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360° | Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360° | Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360° | Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360° | Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360° | Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S,API | ONVIF profile S,API | ONVIF profile S,API |
| Audio In/Outt | -- | -- | -- | -- | -- | -- |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 128GB | Micro SD, Max. 128GB | -- | -- | -- |
| Alarm In/Out | -- | -- | -- | -- | -- | -- |
| Ingress Protection | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V PoE (802.3af)(Class 0) Max. 9.5W | DC12V PoE (802.3af)(Class 0) Max. 9.5W | DC12V PoE (802.3af)(Class 0) Max. 9.5W | DC12V PoE (802.3af)(Class 0) Max.6W | DC12V PoE (802.3af)(Class 0) Max. 5.5W | DC12V PoE (802.3af)(Class 0) Max. 5.5W |

# NETWORK CAMERAS

## Lite 2.0 Series

| | Fixed Mini-Dome | | | Fixed Eyeball | | |
|---|---|---|---|---|---|---|
| Model | IPC-HDBW1531E | IPC-HDBW1431E | IPC-HDBW1230E | IPC-HDW1531S | IPC-HDW1431S | IPC-HDW1230S |
| Appearance |  |  |  |  |  |  |
| Image Sensor | 1/2.7" 5MP CMOS | 1/3" 4MP CMOS | 1/2.7" 2MP CMOS | 1/2.7" 5MP CMOS | 1/3" 4MP CMOS | 1/2.7" 2MP CMOS |
| Lens | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 | 2.8mm/F2.0<br>3.6mm/F2.0 |
| FOV-H | 96°/78° | 104°/87° | 104°/92° | 96°/78° | 104°/87° | 104°/92° |
| Min. Illumination | 0.03Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.03Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) | 0.08Lux/F2.0(Color,1/3s,30IRE)<br>0.3Lux/F2.0(Color,1/30s,30IRE)<br>0Lux/F2.0(IR on) |
| Day/Night | ICR | ICR | ICR | ICR | ICR | ICR |
| WDR | 120dB | 120dB | DWDR | 120dB | 120dB | DWDR |
| Max. IR Distance | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) | 30m(98ft) |
| Video Compression | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264H | H.265+/H.265<br>H.264+/H.264 |
| Max. Resolution | 5MP(2592×1944) | 4MP(2688×1520) | 1080P(1920×1080) | 5MP(2592×1944) | 4MP(2688×1520) | 1080P(1920×1080) |
| Frame Rate | 15fps@5MP<br>30fps@3MP | 20fps@4MP<br>30fps@3MP | 30fps@1080P | 15fps@5MP<br>30fps@3MP | 20fps@4MP<br>30fps@3MP | 30fps@1080P |
| Multi-streaming | 2 streams | 2 streams | 2 streams | 2 streams | 2 streams | 2 streams |
| Pan/Tilt/Rotation | Pan: 0°~355°<br>Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°<br>Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~355°<br>Tilt: 0°~65°<br>Rotation: 0°~355° | Pan: 0°~360°<br>Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°<br>Tilt: 0°~90°<br>Rotation: 0°~360° | Pan: 0°~360°<br>Tilt: 0°~90°<br>Rotation: 0°~360° |
| Intelligent Video | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion | Tripwire, Intrusion |
| Compatibility | ONVIF profile S,API | ONVIF profile S,API | ONVIF profile S,API | ONVIF profile S,API | ONVIF profile S,API | ONVIF profile S,API |
| Audio In/Out | -- | -- | -- | -- | -- | -- |
| Memory Slot | -- | -- | -- | -- | -- | -- |
| Alarm In/Out | -- | -- | -- | -- | -- | -- |
| Ingress Protection | IP67,IK10 | IP67,IK10 | IP67,IK10 | IP67 | IP67 | IP67 |
| Working Temperature | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 6W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 6W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W | DC12V<br>PoE (802.3af)(Class 0)<br>Max. 5.5W |

# NETWORK CAMERAS

## Access ANPR Cameras

Access ANPR cameras are designed for license plate monitoring in low speed scenarios, such as parking lots, gas stations, campus streets, etc. It is suitable for vehicle entrance & exit management as it has a whitelist function and the ability to control barrier gates. With embedded ANPR algorithms and true WDR, the Access ANPR camera can accurately detect and recognize vehicle license plates in all environments.

### ⊕ KEY FEATURES

**Easy & Stable**
Simple wizard-guided setup. True WDR and auto ICR suits all environments

**Advanced Management**
Embedded white/black list; Relay out port to control barriers

**Cost-Effective**
Embedded ANPR algorithm saves on cost of maintaining smart servers

**Well-Designed Solutions**
Work with NVR Pro series for lite solution; EMS/PMS/DSS platforms for professional solutions

* Compatible with NVR Pro series ( NVR5X )

## Access ANPR Cameras

| | Access ANPR | | |
|---|---|---|---|
| Model | ITC237-PW1B-IRZ | ITC237-PU1B-IR | ITC237-PU1B-L |
| Appearance |  |  |  |
| WDR | 140dB | 140dB | 140dB |
| Max. Lighting Distance | IR: 8m(26ft) | IR: 40m(131ft) | White Light: 40m(131ft) |
| Video Compression | H.265/H.264M/H.264H/H.264B | H.265/H.264M/H.264H/H.264B | H.265/H.264M/H.264H/H.264B |
| Max. Resolution | 2M (1920×1080) | 2M (1920×1080) | 2M (1920×1080) |
| Frame Rate | 25fps@1080P | 25fps@1080P | 25fps@1080P |
| Multi-streaming | 2 streams | 2 streams | 2 streams |
| Pan/Tilt/Rotation | Pan: 0°~360°; Tilt: 0°~90°<br>Rotation: 0°~360° | -- | -- |
| Intelligent Video | Embeded ANPR, 3~8m<br>1 lane width max 40Kmh<br>10000 whitelist & black list<br>Relay out to control barrier | Embeded ANPR, 4~40m<br>2 lanes width max 70Kmh<br>10000 whitelist & black list<br>Relay out to control barrier | Embeded ANPR, 4~40m<br>2 lanes width max 70Kmh<br>10000 whitelist & black list<br>Relay out to control barrier |
| CoMPatibility | ONVIF, API | ONVIF, API | ONVIF, API |
| Audio In/Out | 1/1 | 2/1 | 2/1 |
| Memory Slot | Micro SD, Max. 64GB | Micro SD, Max. 64GB | Micro SD, Max. 64GB |
| Alarm In/Out | 1/1 | 2/2 | 2/2 |
| Ingress Protection | IP67, IK10 | IP66 | IP66 |
| Working TeMPurature | -40°C~+60°C (-40°F ~ +140°F) | -30°C~+60°C (-22°F ~ +140°F) | -30°C~+60°C (-22°F ~ +140°F) |
| Power | DC12V,PoE (802.3af)<br>Max. 12W | PoE+ (802.3at)<br>Max. 17W | PoE+ (802.3at)<br>Max. 17W |

# NETWORK PTZ CAMERAS



# NETWORK PTZ CAMERAS

## Ultra Series

The Ultra Series PTZ is designed for projects with the highest quality and performance requirements. With high performance Sony camera sensors, IP67 & IK10, and extra-long distance IR, this range is capable of handling any type of scenario.

### ⊕ KEY FEATURES

**Advanced Sensors**
High sensitivity & low noise with back-illuminated pixel technology

**Superior Image**
Starlight / Ultra 140dB WDR provides clear image under any light conditions

**Automated Surveillance**
Intelligent auto-tracking PTZ tracks suspicious objects

**Powerful Protection**
IP67 / IK10 ratings ensures cameras can withstand tough conditions

**Super IR Range**
Cameras provide up to 550m IR range for performance in dark environments

**Powerful Zoom**
30x/40x/45x/48x optical zoom easily covers large areas

**PFA**
Improve focusing performance to a new level

## Ultra Series

Outdoor IR PTZ Camera

| Model | SD10A248V-HNI | SD8A840VI-HNI | SD8A240VI-HNI | SD6AE240V-HNI |
|---|---|---|---|---|
| Appearance |  H.265+ Starlight |  4K H.265+ Starlight |  H.265+ Starlight |  Ultra WDR H.265+ Starlight |
| Image Sensor | 1/1.8" 2MP CMOS | 1/1.8" 8MP STARVIS™ CMOS | 1/1.8" 2MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 5.7~275mm (48x Optical zoom) | 5.6~223mm (40x Optical zoom) | 5.6~223mm (40x Optical zoom) | 4.5~180mm (40x Optical zoom) |
| FOV-H | 64.6°~1.5° | 63.9° ~ 2.0° | 60.6° ~ 1.8° | 67.5° ~ 1.7° |
| Min. Illumination | 0.001Lux/F1.4(Color) 0Lux/F1.4(IR on) | 0.002Lux/F1.35(Color) 0Lux/F1.35(IR on) | 0.001Lux/F1.35(Color) 0Lux/F1.35(IR on) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) |
| WDR | 120dB | 120dB | 120dB | 140dB |
| Max. IR Distance | 450m(1476ft) | 450m(1476ft) | 450m(1476ft) | 200m(656ft) |
| Video Compression | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 4K(3840×2160) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 60fps@1080P | 30fp@4K | 60fp@1080P | 60fp@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless Tilt:-30°~90° | Pan: 0° ~ 360° endless Tilt:-30° ~ 90° | Pan: 0° ~ 360° endless Tilt:-30° ~ 90° | Pan: 0°~360° endless Tilt:-20°~90° |
| Preset Speed | Pan: 240°/s; Tilt: 200°/s | Pan: 240° /s; Tilt: 120° /s | Pan: 240° /s; Tilt: 120° /s | Pan: 240°/s; Tilt: 200°/s |
| Auto Tracking | Supported | Supported | Supported | Supported |
| Intelligent Video | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profileS&G, API | ONVIF profileS&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max 256GB | Micro SD, Max 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 7/2 | 7/2 | 7/2 | 7/2 |
| Ingress Protection | IP67 | IP67 | IP67 | IP67, IK10 |
| Working Temperature | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) |
| Power | AC24V, Hi-PoE Max. 38W | AC24V, Hi-PoE Max. 38W | AC24V, Hi-PoE Max. 38W | AC24V, Hi-PoE Max. 38W |

# NETWORK PTZ CAMERAS



## Ultra Series

| | Outdoor IR PTZ Camera | Outdoor Laser PTZ Camera | | Outdoor IR PTZ Camera | Outdoor PTZ Camera |
|---|---|---|---|---|---|
| Model | SD6AE230F-HNI | SD6AL245U-HNI | SD6AL230F-HNI | SD6AL245U-HNI-IR | SD65F230F-HNI |
| Appearance |  Starlight |  H.265+ Starlight |  Starlight |  H.265+ Starlight |  Starlight |
| Image Sensor | 1/1.8" 2MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/1.8" 2MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/1.8" 2MP CMOS |
| Lens | 6~180mm(30x Optical zoom) | 3.95~177.7mm(45x Optical zoom) | 6~180mm(30x Optical zoom) | 3.95~177.7mm(45x Optical zoom) | 6~180mm(30x Optical zoom) |
| FOV-H | 61.2°~2.1° | 70.3°~1.8° | 61.2°~2.1° | 70.3°~1.8° | 61.2°~2.1° |
| Min. Illumination | 0.002Lux/F1.5(Color)<br>0Lux/F1.5(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/1.6(IR on) | 0.002Lux/F1.5(Color)<br>0Lux/F1.5(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/1.6(IR on) | 0.002Lux/F1.5(Color)<br>0.0002Lux/F1.5(B/W) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 200m(656ft) | 550m(1804ft) | 500m(1640ft) | 300m(984ft) | -- |
| Video Compression | H.264 | H.265+/H.265/H.264+/H.264 | H.264 | H.265+/H.265/H.264+/H.264 | H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 30fps@1080P, 60fps@720P | 60fp@1080P | 30fps@1080P, 60fps@720P | 60fp@1080P | 30fps@1080P, 60fps@720P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-20°~90° |
| Preset Speed | Pan: 240°/s; Tilt: 200°/s | Pan: 240°/s; Tilt: 200°/s | Pan: 240°/s; Tilt: 200°/s | Pan: 240°/s; Tilt: 200°/s | Pan: 600°/s; Tilt: 500°/s |
| Auto Tracking | Supported | Supported | Supported | Supported | Supported |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 128GB | Micro SD, Max. 256GB | Micro SD, Max. 128GB | Micro SD, Max. 256GB | Micro SD, Max. 128GB |
| Alarm In/Out | 7/2 | 7/2 | 7/2 | 7/2 | 7/2 |
| Ingress Protection | IP67, IK10 | IP67 | IP67 | IP67 | IP67, IK10 |
| Working Temperature | -40°C~+70°C(-40°F~+158°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+70°C(-40°F~+158°F) |
| Power | AC24V, Hi-PoE<br>Max. 38W | AC24V, Hi-PoE<br>Max. 38W | AC24V, Hi-PoE<br>Max. 38W | AC24V, Hi-PoE<br>Max. 38W | AC24V: Max. 43W<br>PoE+(802.3at): Max. 23.5W |

# NETWORK PTZ CAMERAS

## Pro Series

The Pro Series PTZ is designed to meet high image quality and low-light surveillance requirements with the help of Starlight technology. Rich housing and model selections are available to meet diverse application needs.

### ⊕ KEY FEATURES

**Great Selection**
Wide range of housings and models to suit all requirements

**Advanced Intelligence**
IVS, auto-tracking, and face detection ensure efficient surveillance

**H.265**
Advanced encoding saves up to 50% bandwidth and storage

**Powerful Protection**
IP67 / IK10 ratings ensures cameras can withstand tough conditions

**Optimized Image**
High quality image with Starlight technology

**PFA**
Improve focusing performance to a new level

## Pro Series

Outdoor IR PTZ Camera

| Model | SD6CE245U-HNI | SD6CE230U-HNI | SD6CE225U-HNI | SD6C430U-HNI |
|---|---|---|---|---|
| Appearance |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ |
| Image Sensor | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 4MP CMOS |
| Lens | 3.95~177.7mm (45x Optical zoom) | 4.5~135mm (30x Optical zoom) | 4.8~120mm (25x Optical zoom) | 4.5~135mm (30x Optical zoom) |
| FOV-H | 70.3°~1.8° | 67.8°~2.4° | 62.8°~2.6° | 60°~2.2° |
| Min. Illumination | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.05Lux/F1.6(Color) 0Lux/F1.6(IR on) |
| WDR | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 250m(820ft) | 200m(656ft) | 200m(656ft) | 100m(328ft) |
| Video Compression | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 4MP(2592×1520) |
| Frame Rate | 60fp@1080P | 60fp@1080P | 60fp@1080P | 30fps@4MP/3MP 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless Tilt:-20°~90° | Pan: 0°~360° endless Tilt:-20°~90° | Pan: 0°~360° endless Tilt:-20°~90° | Pan: 0°~360° endless Tilt:-15°~90° |
| Preset Speed | Pan: 300°/s; Tilt: 200°/s | Pan: 300°/s; Tilt: 200°/s | Pan: 300°/s; Tilt: 200°/s | Pan: 240°/s; Tilt: 200°/s |
| Auto Tracking | Supported | Supported | Supported | Supported |
| Intelligent Video | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 7/2 | 7/2 | 7/2 | 2/1 |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP66 |
| Working Temperature | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+60°C(-40°F~+140°F) |
| Power | AC24V, PoE+(802.3at) Max. 25W | AC24V, PoE+(802.3at) Max. 25W | AC24V, PoE+(802.3at) Max. 25W | AC24V Max. 26W |

# NETWORK PTZ CAMERAS

## Pro Series

| | Outdoor PTZ Camera | | | Outdoor IR PTZ Camera | | |
|---|---|---|---|---|---|---|
| Model | SD60430U-HNI | SD60230U-HNI | SD60225U-HNI | SD59430U-HNI | SD59230U-HNI | SD59225U-HNI |
| Appearance |  H.265+ |  H.265+ Starlight |  H.265+ Starlight |  H.265+ |  H.265+ Starlight |  H.265+ Starlight |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 4.5~135mm<br>(30x Optical zoom) | 4.5~135mm<br>(30x Optical zoom) | 4.8~120mm<br>(25x Optical zoom) | 4.5~135mm<br>(30x Optical zoom) | 4.5~135mm<br>(30x Optical zoom) | 4.8~120mm<br>(25x Optical zoom) |
| FOV-H | 60°~2.2° | 67.8°~2.4° | 62.8°~2.6° | 60°~2.2° | 67.8°~2.4° | 62.8°~2.6° |
| Min. Illumination | 0.05Lux/F1.6(Color)<br>0.005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color)<br>0.0005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color)<br>0.0005Lux/F1.6(B/W) | 0.05Lux/F1.6(Color)<br>0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6(IR on) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | -- | -- | -- | 100m(328ft) | 150m(492ft) | 150m(492ft) |
| Video Compression | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 |
| Max. Resolution | 4MP(2592×1520) | 1080P(1920×1080) | 1080P(1920×1080) | 4MP(2592×1520) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 30fps@4MP/3MP<br>60fps@1080P | 60fps@1080P | 60fps@1080P | 30fps@4MP/3MP<br>60fps@1080P | 60fps@1080P | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-20°~90° | Pan: 0°~360° endless<br>Tilt:-15°~90° | Pan: 0°~360° endless<br>Tilt:-15°~90° | Pan: 0°~360° endless<br>Tilt:-15°~90° |
| Preset Speed | Pan: 600°/s; Tilt: 500°/s | Pan: 600°/s; Tilt: 500°/s | Pan: 600°/s; Tilt: 500°/s | Pan: 400°/s; Tilt: 300°/s | Pan: 400°/s; Tilt: 300°/s | Pan: 400°/s; Tilt: 300°/s |
| Auto Tracking | Supported | Supported | Supported | Supported | Supported | Supported |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 7/2 | 7/2 | 7/2 | 2/1 | 2/1 | 2/1 |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IP66 | IP66 | IP66 |
| Working Temperature | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) |
| Power | AC24V, PoE+(802.3at)<br>Max. 20W | AC24V, PoE+(802.3at)<br>Max. 20W | AC24V, PoE+(802.3at)<br>Max. 20W | AC24V, PoE+(802.3at)<br>Max. 23W | AC24V, PoE+(802.3at)<br>Max. 23W | AC24V, PoE+(802.3at)<br>Max. 23W |

# NETWORK PTZ CAMERAS

## Pro Series

| | Outdoor PTZ Camera | | | In-ceiling PTZ Camera | | | IR Housing Zoom Camera | Zoom Camera |
|---|---|---|---|---|---|---|---|---|
| Model | SD50430U-HNI | SD50230U-HNI | SD50225U-HNI | SD52C430U-HNI | SD52C230U-HNI | SD52C225U-HNI | SDZW2030S-N | SDZ2030S-N |
| Appearance |  H.265+ |  H.265+ Starlight |  H.265+ Starlight |  H.265+ |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 4.5~135mm (30x Optical zoom) | 4.5~135mm (30x Optical zoom) | 4.8~120mm (25x Optical zoom) | 4.5~135mm (30x Optical zoom) | 4.5~135mm (30x Optical zoom) | 4.8~120mm (25x Optical zoom) | 4.5~135mm (30x Optical zoom) | 4.5~135mm (30x Optical zoom) |
| FOV-H | 60°~2.2° | 67.8°~2.4° | 62.8°~2.6° | 60°~2.2° | 67.8°~2.4° | 62.8°~2.6° | 67.8°~2.4° | 67.8°~2.4° |
| Min. Illumination | 0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W) | 0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | -- | -- | -- | -- | -- | -- | 150m(492ft) | -- |
| Video Compression | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 |
| Max. Resolution | 4MP(2592×1520) | 1080P(1920×1080) | 1080P(1920×1080) | 4MP(2592×1520) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 30fps@4MP/3MP 60fps@1080P | 60fps@1080P | 60fps@1080P | 30fps@4MP/3MP 60fps@1080P | 60fps@1080P | 60fps@1080P | 60fps@1080P | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless Tilt: 0°~90° | Pan: 0°~360° endless Tilt: 0°~90° | Pan: 0°~360° endless Tilt: 0°~90° | Pan: 0°~360° endless Tilt: 0°~90° | Pan: 0°~360° endless Tilt: 0°~90° | Pan: 0°~360° endless Tilt: 0°~90° | -- | -- |
| Preset Speed | Pan: 500°/s; Tilt: 500°/s | Pan: 500°/s; Tilt: 500°/s | Pan: 500°/s; Tilt: 500°/s | Pan: 500°/s; Tilt: 500°/s | Pan: 500°/s; Tilt: 500°/s | Pan: 500°/s; Tilt: 500°/s | -- | -- |
| Auto Tracking | Supported | Supported | Supported | Supported | Supported | Supported | -- | -- |
| Intelligent Video | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 2/1 | 2/1 | 2/1 | 2/1 | 2/1 | 2/1 | 2/1 | 2/1 |
| Ingress Protection | IP67, IK10 | IP67, IK10 | IP67, IK10 | IK10 | IK10 | IK10 | IP66 | -- |
| Working Temperature | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -40°C~+60°C(-40°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -30°C~+60°C(-22°F~+140°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) |
| Power | AC24V, PoE+(802.3at) Max. 23W | AC24V, PoE+(802.3at) Max. 23W | AC24V, PoE+(802.3at) Max. 23W | AC24V, PoE+(802.3at) Max. 13W | AC24V, PoE+(802.3at) Max. 13W | AC24V, PoE+(802.3at) Max. 13W | DC12V Max. 50W | DC12V, PoE(802.3af) Max. 10W |

# NETWORK PTZ CAMERAS

## Lite Series

The Lite Series PTZ offers a cost/performance solution suitable for a range of applications. Its compact design built with Dahua quality standards and assurance enables the entire range to meet your requirements.

### ⊕ KEY FEATURES

**Compact Design**
Small PTZ cameras; Can fit in a number of places

**Mini IR PTZ**
Pan / tilt / zoom and IR functionality in compact housing

**Advanced Intelligence**
IVS and Face Detection ensure efficient surveillance

**Powerful Zoom**
Up to 25x optical zoom easily covers large areas

**Cost-Effective**
Performance and quality are combined at an affordable price

**PFA**
Improve focusing performance to a new level

## Lite Series

| | Outdoor IR PTZ Camera | | | Outdoor PTZ Camera | Indoor PTZ Camera |
|---|---|---|---|---|---|
| Model | SD49412T-HN | SD49225T-HN | SD49212T-HN | SD40212T-HN (-S2) | SD42212T-HN (-S2) |
| Appearance |   |   |   |   |   |
| Image Sensor | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 5.3~64mm (12x Optical zoom) | 4.8~120mm (25x Optical zoom) | 5.3~64mm (12x Optical zoom) | 5.3~64mm (12x Optical zoom) | 5.3~64mm (12x Optical zoom) |
| FOV-H | 58.2°~4.8° | 62.8°~2.6° | 58.2°~4.8° | 58.2°~4.8° | 58.2°~4.8° |
| Min. Illumination | 0.05Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 100m(328ft) | 100m(328ft) | 100m(328ft) | -- | -- |
| Video Compression | H.265/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 |
| Max. Resolution | 4MP(2592×1520) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 30fps@4MP/3MP | 30fps@1080P | 30fps@1080P | 30fp@1080P | 30fp@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless Tilt:-15°~90° | Pan: 0°~360° endless Tilt:-15°~90° | Pan: 0°~360° endless Tilt:-15°~90° | Pan: 0°~360° endless Tilt:-2°~90° | Pan: 0°~360° endless Tilt:-2°~90° |
| Preset Speed | Pan: 240°/s, Tilt: 200°/s | Pan: 240°/s, Tilt: 200°/s | Pan: 240°/s, Tilt: 200°/s | Pan: 300°/s, Tilt: 200°/s | Pan: 300°/s; Tilt: 200°/s |
| Intelligent Video | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 2/1 | 2/1 | 2/1 | 2/1 | 2/1 |
| Ingress Protection | IP66 | IP66 | IP66 | IP66, IK10 | IP66, IK10 |
| Working Temperature | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+60°C(-40°F~+140°F) | -30°C~+60°C(-22°F~+140°F) |
| Power | DC12V, PoE+(802.3at) Max. 22W | DC12V, PoE+(802.3at) Max. 22W | DC12V, PoE+(802.3at) Max. 22W | AC24V, PoE+(802.3at) Max. 22W | AC24V, PoE+(802.3at) Max. 12W |

# NETWORK PTZ CAMERAS

## Lite Series

| | In-ceiling PTZ Camera | Mini IR PTZ Camera | Mini PTZ Camera | | Mini IR PTZ Camera | Mini IR PT Camera | Mini PTZ Camera | Mini PT Camera |
|---|---|---|---|---|---|---|---|---|
| Model | SD42C212T-HN (-S2) | SD29204UE-GN | SD22404T-GN | SD22204UE-GN | SD1A203T-GN | SD1A200T-GN | SD12203T-GN | SD12200T-GN |
| Appearance |  H.265+ Starlight |  reddot award 2015 winner H.265 Starlight |  H.265 |  H.265 Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |
| Image Sensor | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 4MP CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 5.3~64mm (12x Optical zoom) | 2.7~11mm (4x Optical zoom) | 2.7~11mm (4x Optical zoom) | 2.7~11mm (4x Optical zoom) | 2.7~8.1mm (3x optical zoom) | 2.8mm/F1.6 3.6mm/F1.6 | 2.7~8.1mm (3x optical zoom) | 2.8mm/F1.6 3.6mm/F1.6 |
| FOV-H | 58.2°~4.8° | 112.5°~30° | 112.5°~30° | 112.5°~30° | 105.6° ~ 35.2° | 102.9°/80.9° | 105.6° ~ 35.2° | 102.9°/80.9° |
| Min. Illumination | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W) | 0.005Lux/F1.6(Color) 0Lux/F1.6(IR on) | 0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W) | 0.005Lux/F1.8(Color) 0Lux/F1.8 (IR on) | 0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on) | 0.005Lux/F1.8(Color) 0.0005Lux/F1.8 (B/W) | 0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | -- | 30m(98ft) | -- | -- | 15m(49ft) | 15m(49ft) | -- | -- |
| Video Compression | H.265+/H.265 H.264+/H.264 | H.265/H.264 | H.265/H.264 | H.265/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 | H.265+/H.265 H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 4MP(2592×1520) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 30fp@1080P | 30fps@1080P | 30fps@4MP/3MP | 30fps@1080P | 30fps@1080P | 30fps@1080P | 30fps@1080P | 30fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless Tilt:-2°~90° | Pan: 0°~360° limited Tilt: 0°~90° | Pan: 0°~355° Tilt: 0°~90° | Pan: 0°~355° Tilt: 0°~90° | Pan: 0° ~ 355° Tilt: 5° ~ 90° | Pan: 0° ~ 355° Tilt: 20° ~ 90° | Pan: 0° ~ 355° Tilt: 5° ~ 90° | Pan: 0°~355° Tilt: 20°~90° |
| Preset Speed | Pan: 300°/s; Tilt: 200°/s | Pan: 100°/s; Tilt: 60°/s | Pan: 100°/s; Tilt: 60°/s | Pan: 100°/s; Tilt: 60°/s | Pan: 80° /s; Tilt: 40° /s | Pan: 80° /s; Tilt: 40° /s | Pan: 80° /s; Tilt: 40° /s | Pan: 80°/s; Tilt: 40°/s |
| Intelligent Video | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection | Tripwire, Intrusion Abandoned/Missing Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | Built-in Mic | -- | -- | 1(Mic in/Line in)/1 | 1(Mic in/Line in)/1 | 1(Mic in/Line in)/1 | 1(Mic in/Line in)/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 128GB | Micro SD, Max. 256GB | Micro SD, Max. 128GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 2/1 | -- | -- | -- | -- | -- | -- | -- |
| Ingress Protection | IK10 | -- | IP66, IK10 | IP66, IK10 | IP66, IK08 | IP66, IK08 | IP66, IK08 | IP66, IK08 |
| Working Temperature | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C ~ +60°C (-22°F~+140°F) | -30°C ~ +60°C (-22°F~+140°F) | -30°C ~ +60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) |
| Power | AC24V, PoE+(802.3at) Max. 12W | DC12V, PoE(802.3af) Max. 13W | DC12V, PoE(802.3af) Max. 10W | DC12V, PoE(802.3af) Max. 10W | DC12V, PoE(802.3af) Max. 10.5W | DC12V, PoE(802.3af) Max. 10.5W | DC12V, PoE(802.3af) Max. 6W | DC12V, PoE(802.3af) Max. 6W |

# NETWORK PTZ CAMERAS

## Wi-Fi Series

The Wi-Fi Series PTZ offers an alternative solution with Wi-Fi technology to reduce cabling and maintenance costs. The series is suitable for indoor or near-building outdoor applications.

### ⊕ KEY FEATURES

**Compact Design**
Small PTZ cameras; Can fit in a number of places

**Wire-Free**
Wi-Fi technology provides easy installation without cables

**Powerful Zoom**
Up to 25x optical zoom easily covers large areas

**PFA**
Improve focusing performance to a new level

## Wi-Fi Series

| | Outdoor IR PTZ Camera | Mini IR PTZ Camera | Mini PTZ Camera | |
|---|---|---|---|---|
| Model | SD49225T-HN-W | SD29204UE-GN-W | SD22404T-GN-W | SD22204UE-GN-W |
| Appearance |  H.265+ Starlight |  reddot award 2015 winner H.265 Starlight |  H.265 |  H.265 Starlight |
| Image Sensor | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS | 1/3" 2MP CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 4.8~120mm (25x Optical zoom) | 2.7~11mm (4x Optical zoom) | 2.7~11mm (4x optical zoom) | 2.7~11mm (4x Optical zoom) |
| FOV-H | 62.8°~2.6° | 112.5°~30° | 112.5° ~ 30° | 112.5°~30° |
| Min. Illumination | 0.005Lux/F1.6(Color)<br>0Lux@F1.6(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6(IR on) | 0.05Lux/F1.6(Color)<br>0.005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color)<br>0.0005Lux/F1.6(B/W) |
| WDR | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 100m(328ft) | 30m(98ft) | -- | -- |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265/H.264 | H.265/H.264 | H.265/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 4M(2592×1520) | 1080P(1920×1080) |
| Frame Rate | 30fps@1080P | 30fps@1080P | 30fps@1080P | 30fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless<br>Tilt:-15°~90° | Pan: 0°~360° limited<br>Tilt: 0°~90° | Pan: 0°~355°<br>Tilt: 0°~90° | Pan: 0°~355°<br>Tilt: 0°~90° |
| Preset Speed | Pan: 240°/s, Tilt: 200°/s | Pan: 100°/s, Tilt: 60°/s | Pan: 100°/s, Tilt: 60°/s | Pan: 100°/s, Tilt: 60°/s |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | Built-in Mic | -- | -- |
| Memory Slot | Micro SD<br>Max. 256GB | Micro SD<br>Max. 128GB | Micro SD<br>Max. 256GB | Micro SD<br>Max. 128GB |
| Alarm In/Out | 2/1 | -- | -- | -- |
| Wi-Fi | Wi-Fi<br>(IEEE802.11a/b/g/n/ac)<br>Dual-Band Wi-Fi | Wi-Fi<br>(IEEE802.11b/g/n) | Wi-Fi<br>(IEEE802.11b/g/n) | Wi-Fi<br>(IEEE802.11b/g/n) |
| Ingress Protection | IP66 | -- | IP66,IK10 | IP66, IK10 |
| Working Temperature | -40°C~+70°C (-40°F~+158°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) |
| Power | DC12V, Max. 22W | DC12V, Max. 13W | DC12V, Max. 10W | DC12V, Max. 10W |

# NETWORK PTZ CAMERAS

## Wi-Fi Series

| | Mini IR PTZ Camera | Mini IR PT Camera | Mini PTZ Camera | Mini PT Camera |
|---|---|---|---|---|
| Model | SD1A203T-GN-W | SD1A200T-GN-W | SD12203T-GN-W | SD12200T-GN-W |
| Appearance |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |
| Image Sensor | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS |
| Lens | 2.7~8.1mm<br>(3x optical zoom) | 2.8mm/F1.6<br>3.6mm/F1.6 | 2.7~8.1mm<br>(3x optical zoom) | 2.8mm/F1.6<br>3.6mm/F1.6 |
| FOV-H | 105.6° ~ 35.2° | 102.9°/80.9° | 105.6° ~ 35.2° | 102.9°/80.9° |
| Min. Illumination | 0.005Lux/F1.8(Color)<br>0Lux/F1.8(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6(IR on) | 0.005Lux/F1.8(Color)<br>0.0005Lux/F1.8(B/W) | 0.005Lux/F1.6(Color)<br>0.0005Lux/F1.6(B/W) |
| WDR | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 15m(49ft) | 15m(49ft) | -- | -- |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 30fps@1080P | 30fps@1080P | 30fps@1080P | 30fps@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0° ~ 355° , Tilt: 5° ~ 90° | Pan: 0° ~ 355° , Tilt: 20° ~ 90° | Pan: 0° ~ 355°, Tilt: 5° ~ 90° | Pan: 0°~355° , Tilt: 20°~90° |
| Preset Speed | Pan: 80° /s, Tilt: 40° /s | Pan: 80° /s, Tilt: 40° /s | Pan: 80° /s, Tilt: 40° /s | Pan: 80°/s, Tilt: 40°/s |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1(Mic in/Line in)/1 | 1(Mic in/Line in)/1 | 1(Mic in/Line in)/1 | 1(Mic in/Line in)/1 |
| Memory Slot | Micro SD<br>Max. 256GB | Micro SD<br>Max. 256GB | Micro SD<br>Max. 256GB | Micro SD<br>Max. 256GB |
| Alarm In/Out | -- | -- | -- | -- |
| Wi-Fi | Wi-Fi<br>(IEEE802.11a/b/g/n/ac)<br>Dual-Band Wi-Fi | Wi-Fi<br>(IEEE802.11a/b/g/n/ac)<br>Dual-Band Wi-Fi | Wi-Fi<br>(IEEE802.11a/b/g/n/ac)<br>Dual-Band Wi-Fi | Wi-Fi<br>(IEEE802.11a/b/g/n/ac)<br>Dual-Band Wi-Fi |
| Ingress Protection | IP66,IK08 | IP66,IK08 | IP66,IK08 | IP66,IK08 |
| Working Temperature | -30°C ~ +60°C (-22°F~+140°F) | -30°C ~ +60°C (-22°F~+140°F) | -30°C~ +60°C (-22°F~+140°F) | -30°C~+60°C (-22°F~+140°F) |
| Power | DC12V, Max. 10.5W | DC12V, Max. 10.5W | DC12V, Max. 6W | DC12V, Max. 6W |

# NETWORK PTZ CAMERAS

## All-environment Series

All-environment series is designed for projects with the highest performance requirements and special requirements such as explosive and corrosive environment surveillance. Most of these models can be mounted upright(some of them can be mounted both upright and inverted).

### KEY FEATURES

**Automated Surveillance**
Intelligent auto-tracking PTZ tracks suspicious objects

**Superior Image**
Starlight / Ultra WDR provides clear image under any light conditions

**Powerful Zoom**
25x / 30x / 40x / 48x optical zoom easily covers large areas

**Super IR Range**
Cameras provide up to 1200m IR range for performance even in dark environments

**PFA**
Improve focusing performance to a new level

## All-environment Series

RoboPTZ Series IR Positioning System

| Model | PTZ19245U-IRB-N(-B) | PTZ19240V-IRB-N(-B) |
|---|---|---|
| Appearance |  H.265+ Starlight |  Ultra WDR H.265+ Starlight |
| Image Sensor | 1/2.8" 2MP STARVIS™ CMOS | 1/2.8" 2MP STARVIS™ CMOS |
| Lens | 3.95~177.7mm (45x Optical zoom) | 4.5~180mm (40x Optical zoom) |
| FOV-H | 70.3°~1.8° | 67.5° ~ 1.7° |
| Min. Illumination | 0.005Lux/F1.6(Color), 0Lux/F1.6 (IR on) | 0.005Lux/F1.2(Color), 0Lux/F1.2 (IR on) |
| WDR | 120dB | 140dB |
| Max. IR Distance | 350m(1148ft) | 350m(1148ft) |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 60fps@1080P | 60fps@1080P |
| Multi-streaming | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0° ~ 360° endless<br>Tilt: 0° ~ 360° endless(Effective angle:-55°~+223°) | Pan: 0° ~ 360° endless<br>Tilt: 0° ~ 360° endless(Effective angle:-55°~+223°) |
| Preset Speed | Pan: 200° /s; Tilt: 120° /s | Pan: 200° /s; Tilt: 120° /s |
| Auto Tracking | Supported | Supported |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 7/2 | 7/2 |
| Ingress Protection | IP68 | IP68 |
| Working Temperature | -50°C~+70°C(-58°F~+158°F)<br>-40°C~+70°C(-40°F~+158°F)(-B Model) | -50°C~ +70°C(-58°F~+158°F)<br>-40°C~+70°C(-40°F~+158°F)(-B Model) |
| Power | AC24V: Max. 80W<br>AC24V(-B Model), Hi-PoE: Max. 40W | AC24V: Max. 80W<br>AC24V(-B Model), Hi-PoE: Max. 40W |

# NETWORK PTZ CAMERAS

## All-environment Series

| | RoboPTZ Series IR Positioning System | IR Positioning System | | Laser Positioning System | |
|---|---|---|---|---|---|
| Model | PTZ1A225U-IRA-N | PTZ12248V-IRB-N | PTZ12230F-IRB-N | PTZ12248V-LR8-N | PTZ12230F-LR8-N |
| Appearance |  H.265+ Starlight |  H.265+ Starlight |  Starlight |  H.265+ Starlight |  Starlight |
| Image Sensor | 1/2.8” 2MP STARVIS™ CMOS | 1/1.8” 2MP CMOS | 1/1.8” 2MP CMOS | 1/1.8” 2MP CMOS | 1/1.8” 2MP CMOS |
| Lens | 4.8~120mm(25x Optical zoom) | 5.7~275mm(48x Optical zoom) | 6~180mm(30x Optical zoom) | 5.7~275mm(48x Optical zoom) | 6~180mm(30x Optical zoom) |
| FOV-H | 62.8°~2.6° | 64.6°~1.5° | 61.2°~2.1° | 64.6°~1.5° | 61.2°~2.1° |
| Min. Illumination | 0.005Lux/F1.6(Color)<br>0Lux/F1.6(IR on) | 0.001Lux/F1.4(Color)<br>0Lux/F1.4(IR on) | 0.002Lux/F1.5(Color)<br>0Lux/F1.5(IR on) | 0.001Lux/F1.4(Color)<br>0Lux/F1.4(IR on) | 0.002Lux/F1.5(Color)<br>0Lux/F1.5(IR on) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | 150m(492ft) | 450m(1476ft) | 300m(984ft) | 1200m(3937ft) | 800m(2625ft) |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.264 | H.265+/H.265/H.264+/H.264 | H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 60fps@1080P | 60fps@1080P | 30fps@1080P, 60fps@720P | 60fps@1080P | 30fps@1080P, 60fps@720P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0°~360° endless<br>Tilt:-90°~90°<br>(Effective angle:-51°~+90°) | Pan: 0°~360° endless<br>Tilt:-90°~45° | Pan: 0°~360° endless<br>Tilt:-90°~45° | Pan: 0°~360° endless<br>Tilt:-90°~45° | Pan: 0°~360° endless<br>Tilt:-90°~45° |
| Preset Speed | Pan: 180°/s, Tilt: 120°/s | Pan: 160°/s, Tilt: 60°/s | Pan: 160°/s, Tilt: 60°/s | Pan: 160°/s, Tilt: 60°/s | Pan: 160°/s, Tilt: 60°/s |
| Auto Tracking | Supported | Supported | Supported | Supported | Supported |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face Detection |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 128GB | Micro SD, Max. 256GB | Micro SD, Max. 128GB |
| Alarm In/Out | 2/1 | 7/2 | 7/2 | 7/2 | 7/2 |
| Ingress Protection | IP67, IK10 | IP66 | IP66 | IP66 | IP66 |
| Working Temperature | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) | -40°C~+70°C(-40°F~+158°F) |
| Power | DC12V, PoE+(802.3at)<br>Max. 22W | AC24V<br>Max. 80W | AC24V<br>Max. 75W | AC24V<br>Max. 90W | AC24V<br>Max. 90W |

# NETWORK PTZ CAMERAS



## All-environment Series

| | Anti-corrosion PTZ Camera | Anti-corrosion Camera | | Explosion-proof Camera | Explosion-proof PTZ Camera | |
|---|---|---|---|---|---|---|
| Model | SD60230U-HNI-SL | SDZW2030U-SL | SDZW2000T-SL | EPC230U | EPC230U-PTZ | EPC230U-PTZ-IR |
| Appearance |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |  H.265+ Starlight |
| Image Sensor | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS | 1/2.8” 2MP STARVIS™ CMOS |
| Lens | 4.5~135mm<br>(30x Optical zoom) | 4.5~135mm<br>(30x Optical zoom) | 3.6mm/F2.1<br>6mm/F2.0 | 4.5~135mm<br>(30x Optical zoom) | 4.5~135mm<br>(30x Optical zoom) | 4.5~135mm<br>(30x Optical zoom) |
| FOV-H | 67.8° ~ 2.4° | 67.8° ~ 2.4° | 87° / 51° | 67.8° ~ 2.4° | 67.8° ~ 2.4° | 67.8° ~ 2.4° |
| Min. Illumination | 0.005Lux/F1.6(Color)<br>0.0005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6 (IR on) | 0.005Lux/F2.1(Color)<br>0Lux/F2.1(IR on) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6 (IR on) | 0.005Lux/F1.6(Color)<br>0.0005Lux/F1.6(B/W) | 0.005Lux/F1.6(Color)<br>0Lux/F1.6 (IR on) |
| WDR | 120dB | 120dB | 120dB | 120dB | 120dB | 120dB |
| Max. IR Distance | -- | 100m (328ft) | 30m (98ft) | 100m (328ft) | -- | 100m (328ft) |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| Max. Resolution | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) | 1080P(1920×1080) |
| Frame Rate | 60fp@1080P | 60fp@1080P | 60fp@1080P | 60fp@1080P | 60fp@1080P | 60fp@1080P |
| Multi-streaming | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams | 3 streams |
| Pan/Tilt | Pan: 0° ~ 360° endless<br>Tilt:-20° ~ 90° | -- | -- | -- | Pan: 0° ~ 360° endless<br>Tilt:-90° ~ 90° | Pan: 0° ~ 360° endless<br>Tilt:-90° ~ 90° |
| Preset Speed | Pan: 600° /s; Tilt: 500° /s | -- | -- | -- | Pan: 40° /s; Tilt: 40° /s | Pan: 40° /s; Tilt: 40° /s |
| Auto Tracking | Supported | -- | -- | -- | -- | -- |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Face detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face detection | Tripwire, Intrusion<br>Abandoned/Missing<br>Face detection | -- | -- |
| Compatibility | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API | ONVIF profile S&G, API |
| Audio In/Out | 1/1 | 1/1 | -- | 1/1 | 1/1 | 1/1 |
| Memory Slot | Micro SD, Max. 256GB | Micro SD, Max. 256GB | -- | Micro SD, Max. 256GB | Micro SD, Max. 256GB | Micro SD, Max. 256GB |
| Alarm In/Out | 7/2 | 2/2 | -- | 2/1 | 2/1 | 2/1 |
| Ingress Protection | IP68, IK10 | IP68 | IP68, IK10 | IP68 | IP68 | IP68 |
| Working Temperature | -40°C ~ +70°C(-40°F~+158°F) | -40°C ~ +70°C(-40°F~+158°F) | -40°C ~ +60°C(-40°F~+140°F) | -40°C ~ +60°C(-40°F~+140°F) | -40°C ~ +60°C(-40°F~+140°F) | -40°C ~ +60°C(-40°F~+140°F) |
| Power | AC24V, PoE+(802.3at)<br>Max. 20W | AC24V, DC12V, PoE+(802.3at)<br>Max. 25W | DC12V, PoE(802.3af)<br>Max. 5W | AC220V(AC100V~240V), Hi-PoE<br>Max. 25W | AC220V(AC100V ~ 240V)<br>Max. 60W | AC220V(AC100V ~ 240V)<br>Max. 75W |

# NETWORK THERMAL CAMERAS



# NETWORK THERMAL CAMERAS

## Ultra Series

The Ultra Series is designed for projects with the highest quality and performance requirements.Together with thermal and starlight technology, rich selection of various resolutions and lens configurations, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in any outdoor applications.

### ⊕ KEY FEATURES

**Advanced Sensors**
Uncooled Vox Microblolmeter, Sony 1/1.9" 2M CMOS

**Superior Image**
Together with Thermal and Starlight technology for monitoring in total darkness

**Great Selection**
Wide rangge of housings and models to suit all requirements

**Powerful Lens**
Various lens configurations, powerful optical zoom (thermal and visible)

**Advanced Intelligence**
High accuracy IVS, long distance fire detection & alarm

**Temperature Measurement**
Wide temperature measurement range -20°C ~+550°C(T model)

## Ultra Series

| | Model | TPC-PT8620C | TPC-PT8420C | TPC-PT8620B | TPC-PT8420B |
|---|---|---|---|---|---|
| | Appearance |  |  |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 640(H) x 512(V) | 400(H) x 300(V) | 640(H) x 512(V) | 400(H) x 300(V) |
| | Sensitivity | <40mK | <40mK | <40mK | <40mK |
| | Lens | 100mm<br>20mm ~ 100mm (Optional)<br>30mm ~ 150mm (Optional)<br>25mm ~ 225mm (Optional) | 100mm<br>20mm ~ 100mm (Optional)<br>30mm ~ 150mm (Optional)<br>25mm ~ 225mm (Optional) | 100mm<br>20mm ~ 100mm (Optional)<br>30mm ~ 150mm (Optional) | 100mm<br>20mm ~ 100mm (Optional)<br>30mm ~ 150mm (Optional) |
| | Angle of View | H: 6.2°<br>H: 31.6°~6.2° (Optional)<br>H: 21.0°~4.1° (Optional)<br>H: 25.7°~2.8° (Optional) | H: 3.9°<br>H: 19.3°~3.9° (Optional)<br>H: 12.9°~2.6° (Optional)<br>H: 15.5°~1.7° (Optional) | H: 6.2°<br>H: 31.6°~6.2° (Optional)<br>H: 21.0°~4.1° (Optional) | H: 3.9°<br>H: 19.3°~3.9° (Optional)<br>H: 12.9°~2.6° (Optional) |
| Visible | Image Sensor | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS |
| | Lens | 6mm ~ 180mm<br>7.9mm ~ 316mm (Optional)<br>21mm ~ 500mm (Optional)<br>12.5mm ~ 775mm (Optional) | 6mm ~ 180mm<br>7.9mm ~ 316mm (Optional)<br>21mm ~ 500mm (Optional)<br>12.5mm ~ 775mm (Optional) | 6mm ~ 180mm<br>7.9mm ~ 316mm (Optional)<br>21mm ~ 500mm (Optional)<br>12.5mm ~ 775mm (Optional) | 6mm ~ 180mm<br>7.9mm ~ 316mm (Optional)<br>21mm ~ 500mm (Optional)<br>12.5mm ~ 775mm (Optional) |
| | Angle of View | H: 59°~2.4°<br>H: 41.5°~1.1° (Optional)<br>H: 23.5° ~1.0° (Optional)<br>H: 28.8° ~0.5° (Optional) | H: 59°~2.4°<br>H: 41.5°~1.1° (Optional)<br>H: 23.5° ~1.0° (Optional)<br>H: 28.8° ~0.5° (Optional) | H: 59°~2.4°<br>H: 41.5°~1.1° (Optional)<br>H: 23.5° ~1.0° (Optional)<br>H: 28.8° ~0.5° (Optional) | H: 59°~2.4°<br>H: 41.5°~1.1° (Optional)<br>H: 23.5° ~1.0° (Optional)<br>H: 28.8° ~0.5° (Optional) |
| | Min. Illumination | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) |
| Laser Rander Finder(Optional) | Wavelength | 1.57um(Eye safe) | 1.57um(Eye safe) | -- | -- |
| | Effective Distance | 50 ~ 5000m (164ft ~ 16404ft) | 50 ~ 5000m (164ft ~ 16404ft) | -- | -- |
| | Accuracy | ±2m | ±2m | -- | -- |
| Laser Illuminator (Optional) | Wavelength | 808±5nm | 808±5nm | -- | -- |
| | Effective Distance | 1000m (3281ft) | 1000m (3281ft) | -- | -- |
| | Angle of Laser Beam | 1°~ 30° | 1°~ 30° | -- | -- |
| General | Frame Rate | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps |
| | Pan/Tilt Range | 300 presets Pan:<br>0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) | 300 presets Pan:<br>0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) | 300 presets Pan:<br>0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) | 300 presets Pan:<br>0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API |
| | Ingress Protection | IP66 | IP66 | IP66 | IP66 |
| | Working Temperature | -35°C ~ +65°C | -35°C ~ +65°C | -35°C ~ +65°C | -35°C ~ +65°C |
| | Power | AC100V~300V, <150W | AC100V~300V, <150W | AC100V~300V, <100W | AC100V~300V, <100W |

## Ultra Series

| | Model | TPC-PT8620A-T | TPC-PT8620A | TPC-PT8420A-T | TPC-PT8420A | TPC-PT8620M-T | TPC-PT8620M |
|---|---|---|---|---|---|---|---|
| | Appearance |  |  |  |  |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 640(H) x 512(V) | 640(H) x 512(V) | 400(H) x 300(V) | 400(H) x 300(V) | 640(H) x 512(V) | 640(H) x 512(V) |
| | Sensitivity | <40mK | <40mK | <40mK | <40mK | <40mK | <40mK |
| | Lens | 25mm/35mm/60mm/100mm | 35mm/60mm/100mm | 25mm/35mm/60mm/100mm | 35mm/60mm/100mm | 19mm/25mm | 19mm/25mm |
| | Angle of View | H: 24.6°/17.2°/10.3°/6.2° | H: 17.2°/10.3°/6.2° | H: 15.5°/10.9°/6.5°/3.9° | H: 10.9°/6.5°/3.9° | H: 31.6°/24.6° | H: 31.6°/24.6° |
| | Temperature Range & Accuracy | Low Temperature:-20°C ~+150°C<br>High Temperature: 0°C ~+550°C<br>Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- | Low Temperature:-20°C ~+150°C<br>High Temperature: 0°C ~+550°C<br>Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- | Low Temperature:-20°C ~+150°C<br>High Temperature: 0°C ~+550°C<br>Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- |
| | Measurement Rule | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- |
| | Temperature Alarm | Support | -- | Support | -- | Support | -- |
| Visible | Image Sensor | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS |
| | Lens | 6mm ~ 180mm | 6mm ~ 180mm | 6mm ~ 180mm | 6mm ~ 180mm | 6mm~180mm | 6mm~180mm |
| | Angle of View | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° |
| | Min. Illumination | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) |
| | IR Distance | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) |
| General | Frame Rate | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps |
| | Pan/Tilt Range | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-90° ~ 40° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-90° ~ 40° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-90° ~ 40° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-90° ~ 40° | 300 presets Pan: 0° ~ 360°endless;<br>Tilt:-90° ~ 90° | 300 presets Pan: 0° ~ 360°endless;<br>Tilt:-90° ~ 90° |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API |
| | Ingress Protection | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 |
| | Working Temperature | -40°C~+60°C | -40°C~+70°C | -40°C~+60°C | -40°C~+70°C | -40°C~+60°C | -40°C~+70°C |
| | Power | AC24V, <70W | AC24V, <70W | AC24V, <70W | AC24V, <70W | DC9V~36V, <50W | DC9V~36V, <50W |

# NETWORK THERMAL CAMERAS

## Ultra Series

| | Model | TPC-PT8420M-T | TPC-PT8420M | TPC-SD8620-T | TPC-SD8620 | TPC-SD8420-T | TPC-SD8420 |
|---|---|---|---|---|---|---|---|
| | Appearance |  |  |  |  |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 400(H) x 300(V) | 400(H) x 300(V) | 640(H) x 512(V) | 640(H) x 512(V) | 400(H) x 300(V) | 400(H) x 300(V) |
| | Sensitivity | <40mK | <40mK | <40mK | <40mK | <40mK | <40mK |
| | Lens | 19mm/25mm | 19mm/25mm | 25mm/35mm/50mm | 25mm/35mm/50mm | 25mm/35mm/50mm | 25mm/35mm/50mm |
| | Angle of View | H: 20.4°/15.5° | H: 20.4°/15.5° | H: 24.6°/17.2°/12.3° | H: 24.6°/17.2°/12.3° | H: 15.5°/10.9°/7.7° | H: 15.5°/10.9°/7.7° |
| | Temperature Range & Accuracy | Low Temperature:-20°C ~+150°C<br>High Temperature: 0°C ~+550°C<br>Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- | Low Temperature:-20°C ~+150°C<br>High Temperature: 0°C ~+550°C<br>Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- | Low Temperature:-20°C ~+150°C<br>High Temperature: 0°C ~+550°C<br>Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- |
| | Measurement Rule | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- |
| | Temperature Alarm | Support | -- | Support | -- | Support | -- |
| Visible | Image Sensor | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS |
| | Lens | 6mm~180mm | 6mm~180mm | 6mm ~ 180mm | 6mm ~ 180mm | 6mm ~ 180mm | 6mm ~ 180mm |
| | Angle of View | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° |
| | Min. Illumination | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) |
| | IR Distance | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) |
| General | Frame Rate | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps |
| | Pan/Tilt Range | 300 presets Pan: 0° ~ 360°endless;<br>Tilt:-90° ~ 90° | 300 presets Pan: 0° ~ 360°endless;<br>Tilt:-90° ~ 90° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-10° ~ 90° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-10° ~ 90° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-10° ~ 90° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-10° ~ 90° |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API |
| | Ingress Protection | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 |
| | Working Temperature | -40°C~+60°C | -40°C~+70°C | -40°C~+60°C | -40°C~+70°C | -40°C~+60°C | -40°C~+70°C |
| | Power | DC9V~36V, <50W | DC9V~36V, <50W | AC24V, <38W | AC24V, <38W | AC24V, <38W | AC24V, <38W |

# NETWORK THERMAL CAMERAS



## Pro Series

The Pro Series is suitable for applications which require high performance and reliability, and can provide a 24h*7days monitoring solution. Using uncooled Vox sensor technology, their small size and better performance make them easy to install and a best solution for thermal security.

### ⊕ KEY FEATURES

**Advanced Sensor**
Uncooled Vox Microblolmeter, High thermal sensitivity (<40mK)

**Superior Image**
High thermal technology for monitoring in total darkness

**Powerful Lens**
Various lens configurations, athermalized lens, focus-free

**Advanced Intelligence**
High accuracy IVS, fire detection & alarm

**Temperature Measurement**
Wide temperature measurement range -20°C ~+550°C(T model)

## Pro Series

| | Model | TPC-BF5600-T | TPC-BF5600 | TPC-BF5400-T | TPC-BF5400 |
|---|---|---|---|---|---|
| | Appearance |  |  |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 640(H) x 512(V) | 640(H) x 512(V) | 400(H) x 300(V) | 400(H) x 300(V) |
| | Thermal Sensitivity | <40mK | <40mK | <40mK | <40mK |
| | Lens | 7.5mm/13mm/19mm 25mm/35mm | 7.5mm/13mm/19mm 25mm/35mm | 7.5mm/13mm/19mm 25mm/35mm | 7.5mm/13mm/19mm 25mm/35mm |
| | Angle of View | H: 92°/48.4°/31.6°/24.6°/17.2° | H: 92°/48.4°/31.6°/24.6°/17.2° | H: 52°/29.7°/20.4°/15.5°/11.1° | H: 52°/29.7°/20.4°/15.5°/11.1° |
| | Digital Zoom | 4x(24 levels) | 4x(24 levels) | 4x(19 levels) | 4x(19 levels) |
| | Temperature Range & Accuracy | Low Temperature: -20°C ~+150°C High Temperature: 0°C ~+550°C Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- | Low Temperature: -20°C ~+150°C High Temperature: 0°C ~+550°C Max (±2°C, ±2%)/Operating Temperature(-10°C~50°C) | -- |
| | Measurement Rule | Spot: 12/Line: 12/Area: 12 Support 12 rules simultaneously | -- | Spot: 12/Line: 12/Area: 12 Support 12 rules simultaneously | -- |
| | Temperature Alarm | Support | -- | Support | -- |
| General | Video Compression | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG |
| | Frame Rate | 1280*1024 (default)/720P@1~25/30fps | 1280*1024 (default)/720P@1~25/30fps | 1280*1024 (default)/720P@1~25/30fps | 1280*1024 (default)/720P@1~25/30fps |
| | Tri-mode Video Output | IP/Analog (HDCVI Optional) | IP/Analog (HDCVI Optional) | IP/Analog (HDCVI Optional) | IP/Analog (HDCVI Optional) |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, PSIA, CGI | ONVIF Profile S&G, PSIA, CGI | ONVIF Profile S&G, PSIA, CGI | ONVIF Profile S&G, PSIA, CGI |
| | Ingress Protection | IP67 | IP67 | IP67 | IP67 |
| | Working Temperature | -40°C~+60°C | -40°C~+60°C | -40°C~+60°C | -40°C~+60°C |
| | Power | AC24V/DC12V/PoE, <10W | AC24V/DC12V/PoE, <10W | AC24V/DC12V/PoE, <10W | AC24V/DC12V/PoE, <10W |

## Lite Series

The Lite Series is a best choice for users who want high performance for surveillance but have budget constraints. A small size, dual-channel spectrum, and powerful combination of visible light and thermal imaging, this series integrates advanced Dahua image analysis and intelligent algorithms, providing a one-stop solution for small or medium sized monitoring applications.

### ⊕ KEY FEATURES

**Advanced Sensors**
Uncooled Vox Microblolmeter, Sony 1/2.8" 2M CMOS

**Compact Design**
Featuring a small size, and powerful combination of visible light and thermal imaging

**Advanced Intelligence**
High accuracy IVS, long distance fire detection & alarm

**Temperature Measurement**
Wide temperature measurement range -20°C ~+550°C(T model)

**Cost-Effective**
Performance and quality are combined at an affordable price

# NETWORK THERMAL CAMERAS

## Lite Series

| | Model | TPC-BF2120-T | TPC-BF2120 |
|---|---|---|---|
| | Appearance |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 160(H) x 120(V) | 160(H) x 120(V) |
| | Sensitivity | ≤50mK | ≤50mK |
| | Lens | 1mm | 1mm |
| | Angle of View | H: 56° | H: 56° |
| | Temperature Range & Accuracy | Low Temperature:-20°C ~+150°C, Max (±5°C, ±5%)<br>High Temperature: +150°C ~+550°C, Max ±8% | -- |
| | Measurement Rule | Spot: 12/Line: 12/Area: 12<br>Support 12 rules per preset simultaneously | -- |
| | Temperature Alarm | Support | -- |
| Visible | Image Sensor | 1/2.8" 2M CMOS | 1/2.8" 2M CMOS |
| | Lens | 4mm | 4mm |
| | Angle of View | H: 74.8° | H: 74.8° |
| | Min. Illumination | 0.005Lux@F1.8 (Color)<br>0.0005Lux@F1.8 (B/W)<br>0Lux@F1.8 (IR On) | 0.005Lux@F1.8 (Color)<br>0.0005Lux@F1.8 (B/W)<br>0Lux@F1.8 (IR On) |
| | IR Distance | 35m | 35m |
| General | Frame Rate | Thermal: 1280*960 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*960 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps |
| | Tri-mode Video Output | IP/Analog (HDCVI Optional) | IP/Analog (HDCVI Optional) |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, API | ONVIF Profile S&G, API |
| | Ingress Protection | IP67 | IP67 |
| | Working Environment | -30°C~+55°C | -30°C~+55°C |
| | Power | DC12V/1.5A±15%, PoE, <12W | DC12V/1.5A±15%, PoE, <12W |

## Anti-corrosion Series

The Anti-corrosion Series is designed for projects with the long-lasting performance requirements in harsh environments. With anti-corrosion coating technology, and all products of this series have passed NEMA 4X test standard and can provide a high performance surveillance solution for highly corrosive environments such as salt water and salt-spray conditions.

### ⊕ KEY FEATURES

**Advanced Sensors**
Uncooled Vox Microblolmeter, Sony 1/1.9" 2M CMOS

**Superior Image**
Together with Thermal and Starlight technology for monitoring in total darkness

**Powerful Lens**
Various lens configurations, powerful optical zoom (thermal and visible)

**Advanced Intelligence**
High accuracy IVS, long distance fire detection & alarm

**NEMA 4X Report**
NEMA 4X-rated anti-corrosion for long-lasting performance in corrosive environments

## Anti-corrosion Series

| | Model | TPC-ACPT8620C | TPC-ACPT8420C | TPC-ACPT8620B | TPC-ACPT8420B |
|---|---|---|---|---|---|
| | Appearance |  |  |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 640(H) x 512(V) | 400(H) x 300(V) | 640(H) x 512(V) | 400(H) x 300(V) |
| | Sensitivity | <40mK | <40mK | <40mK | <40mK |
| | Lens | 20mm ~ 100mm<br>30mm ~ 150mm (Optional) | 20mm ~ 100mm<br>30mm ~ 150mm (Optional) | 20mm ~ 100mm<br>30mm ~ 150mm (Optional) | 20mm ~ 100mm<br>30mm ~ 150mm (Optional) |
| | Angle of View | H: 31.6°~6.2°<br>H: 21.0°~4.1° (Optional) | H: 19.3°~3.9°<br>H: 12.9°~2.6° (Optional) | H: 31.6°~6.2°<br>H: 21.0°~4.1° (Optional) | H: 19.3°~3.9°<br>H: 12.9°~2.6° (Optional) |
| | Image Sensor | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS |
| | Lens | 15.6mm ~ 500mm<br>12.5mm ~ 775mm (Optional) | 15.6mm ~ 500mm<br>12.5mm ~ 775mm (Optional) | 15.6mm ~ 500mm<br>12.5mm ~ 775mm (Optional) | 15.6mm ~ 500mm<br>12.5mm ~ 775mm (Optional) |
| | Angle of View | H: 27.5° ~0.9°<br>H: 28.8° ~0.5° (Optional) | H: 27.5° ~0.9°<br>H: 28.8° ~0.5° (Optional) | H: 27.5° ~0.9°<br>H: 28.8° ~0.5° (Optional) | H: 27.5° ~0.9°<br>H: 28.8° ~0.5° (Optional) |
| | Min. Illumination | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) | 0.002Lux@F1.5 (Color)<br>0.0005Lux@F1.5 (B/W) |
| Laser Rander Finder (Optional) | Wavelength | 1.57um(Eye safe) | 1.57um(Eye safe) | -- | -- |
| | Effective Distance | 50 ~ 5000m (164ft ~ 16404ft) | 50 ~ 5000m (164ft ~ 16404ft) | -- | -- |
| | Accuracy | ±2m | ±2m | -- | -- |
| Laser Illuminator (Optional) | Wavelength | 808±5nm | 808±5nm | -- | -- |
| | Effective Distance | 1000m (3281ft) | 1000m (3281ft) | -- | -- |
| | Angle of Laser Beam | 1°~ 30° | 1°~ 30° | -- | -- |
| General | Frame Rate | Thermal: 1280*1024 (default)<br>720P@1~25/30fps<br>Visible: 1080P (default)<br>720P@1~25/30fps | Thermal: 1280*1024 (default)<br>720P@1~25/30fps<br>Visible: 1080P (default)<br>720P@1~25/30fps | Thermal: 1280*1024 (default)<br>720P@1~25/30fps<br>Visible: 1080P (default)<br>720P@1~25/30fps | Thermal: 1280*1024 (default)<br>720P@1~25/30fps<br>Visible: 1080P (default)<br>720P@1~25/30fps |
| | Pan/Tilt Range | 300 presets<br>Pan: 0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) | 300 presets<br>Pan: 0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) | 300 presets<br>Pan: 0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) | 300 presets<br>Pan: 0° ~ 360°endless<br>Tilt:-60° ~ 45°<br>Tilt:-60° ~ 60° (Optional) |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API |
| | Ingress Protection | IP66 | IP66 | IP66 | IP66 |
| | Corrosion Protection | NEMA 4X | NEMA 4X | NEMA 4X | NEMA 4X |
| | RS485 Interface | 1 | 1 | 1 | 1 |
| | Working Temperature | -40°C ~ +70°C | -40°C ~ +70°C | -40°C ~ +70°C | -40°C ~ +70°C |
| | Power | AC100V~300V, <150W | AC100V~300V, <150W | AC100V~300V, <100W | AC100V~300V, <100W |

# NETWORK THERMAL CAMERAS

## Anti-corrosion Series

| | Model | TPC-ACPT8620A | TPC-ACPT8420A | TPC-ACSD8620A | TPC-ACSD8420A |
|---|---|---|---|---|---|
| | Appearance |  |  |  |  |
| Thermal | Image Sensor | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer | Uncooled Vox Microbolometer |
| | Effective Pixels | 640(H) x 512(V) | 400(H) x 300(V) | 640(H) x 512(V) | 400(H) x 300(V) |
| | Sensitivity | <40mK | <40mK | <40mK | <40mK |
| | Lens | 35mm/60mm | 35mm/60mm | 25mm/35mm | 25mm/35mm |
| | Angle of View | H: 17.2°/10.3° | H: 10.9°/6.5° | H: 24.6°/17.2° | H: 15.5°/10.9° |
| | Image Sensor | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS | 1/1.9" 2M CMOS |
| | Lens | 6mm ~ 180mm | 6mm ~ 180mm | 6mm ~ 180mm | 6mm ~ 180mm |
| | Angle of View | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° | H: 59° ~ 2.4° |
| | Min. Illumination | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) | 0.001Lux@F1.5 (Color)<br>0.0001Lux@F1.5 (B/W)<br>0Lux@F1.5 (IR On) |
| | IR Distance | 150m (492ft) | 150m (492ft) | 150m (492ft) | 150m (492ft) |
| General | Frame Rate | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps | Thermal: 1280*1024 (default)/720P@1~25/30fps<br>Visible: 1080P (default)/720P@1~25/30fps |
| | Pan/Tilt Range | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-90° ~ 40° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-90° ~ 40° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-10° ~ 90° | 300 presets Pan: 0° ~ 360°endless<br>Tilt:-10° ~ 90° |
| | Intelligent Video | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm | IVS, Fire detection & alarm |
| | Compatibility | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API | ONVIF Profile S&G, API |
| | Ingress Protection | IP66 | IP66 | IP66 | IP66 |
| | Corrosion Protection | NEMA 4X | NEMA 4X | NEMA 4X | NEMA 4X |
| | RS485 Interface | 1 | 1 | 1 | 1 |
| | Working Temperature | -40°C~+70°C | -40°C~+70°C | -40°C~+70°C | -40°C~+70°C |
| | Power | AC24V, <70W | AC24V, <70W | AC24V, <38W | AC24V, <38W |

# NETWORK VIDEO RECORDERS



# NETWORK VIDEO RECORDERS

## Ultra Series

The Ultra Series is an ideal option for applications which require top-level performance and the highest reliability. A multi-core CPU and redundant design ensures stability while advanced intelligent features provide complex applications with intelligent video analytics.

### ⊕ KEY FEATURES

**Powerful Processor**
Multi-core Intel CPU provides high-performance processing

**Industrial Design**
High quality redundant-enabled design ensures high reliability and data safety

**Rich Features**
Fisheye dewarp, POS, ANPR, N+M fail-over

**Advanced Intelligence**
IVS and Face Detection ensure efficient surveillance

## Ultra Series

16HDD Ultra 4K & H.265 NVR

| Model | NVR616DR-128-4KS2 | NVR616R-128-4KS2 | NVR616D-128-4KS2 |
|---|---|---|---|
| Appearance |  H.265+ |  H.265+ |  H.265+ |
| Processor | Intel Quad Core CPU | Intel Quad Core CPU | Intel Quad Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 128 channel | 128 channel | 128 channel |
| Max Input/Record | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps |
| Max Decoding | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P |
| Display | 2HDMI, VGA, LCD | 2HDMI, VGA | 2HDMI, VGA, LCD |
| Max HDD | 16×8TB | 16×8TB | 16×8TB |
| RAID | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 |
| eSATA/Mini SAS | 1/1 | 1/1 | 1/1 |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | 16/8 | 16/8 | 16/8 |
| Ethernet | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface |
| PoE | -- | -- | -- |
| USB | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 |
| Power | AC100V~240V, Redundant<br><60W(Without HDD) | AC100V~240V, Redundant<br><60W(Without HDD) | AC100V~240V<br><60W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M |

## Ultra Series

16HDD Ultra 4K & H.265 NVR

| Model | NVR616-128-4KS2 | NVR616DR-64-4KS2 | NVR616R-64-4KS2 | NVR616D-64-4KS2 | NVR616-64-4KS2 |
|---|---|---|---|---|---|
| Appearance |  H.265+ |  H.265+ |  H.265+ |  H.265+ |  H.265+ |
| Processor | Intel Quad Core CPU | Intel Quad Core CPU | Intel Quad Core CPU | Intel Quad Core CPU | Intel Quad Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 128 channel | 64 channel | 64 channel | 64 channel | 64 channel |
| Max Input/Record | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps |
| Max Decoding | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P |
| Display | 2HDMI, VGA | 2HDMI, VGA, LCD | 2HDMI, VGA | 2HDMI, VGA, LCD | 2HDMI, VGA |
| Max HDD | 16×8TB | 16×8TB | 16×8TB | 16×8TB | 16×8TB |
| RAID | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 |
| eSATA/Mini SAS | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | 16/8 | 16/8 | 16/8 | 16/8 | 16/8 |
| Ethernet | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface | 4 Gigabit Ports<br>2 Gigabit Fiber Optical Interface |
| PoE | -- | -- | -- | -- | -- |
| USB | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 |
| Power | AC100V~240V<br><60W(Without HDD) | AC100V~240V, Redundant<br><60W(Without HDD) | AC100V~240V, Redundant<br><60W(Without HDD) | AC100V~240V<br><60W(Without HDD) | AC100V~240V<br><60W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M |

# NETWORK VIDEO RECORDER

## Ultra Series

8HDD Ultra 4K&H.265 NVR

| Model | NVR608R-128-4KS2 | NVR608-128-4KS2 | NVR608R-64-4KS2 | NVR608-64-4KS2 | NVR608-32-4KS2 |
|---|---|---|---|---|---|
| Appearance |  H.265+ |  H.265+ |  H.265+ |  H.265+ |  H.265+ |
| Processor | Intel Quad Core CPU | Intel Quad Core CPU | Intel Quad Core CPU | Intel Quad Core CPU | Intel Dual Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 128 channel | 128 channel | 64 channel | 64 channel | 32 channel |
| Max Input/Record | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps | 384Mbps/384Mbps |
| Max Decoding | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P |
| Display | 2HDMI, VGA | 2HDMI, VGA | 2HDMI, VGA | 2HDMI, VGA | 2HDMI, VGA |
| Max HDD | 8×8TB | 8×8TB | 8×8TB | 8×8TB | 8×8TB |
| RAID | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 | 0/1/5/10 |
| eSATA/Mini SAS | 1/- | 1/- | 1/- | 1/- | 1/- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | 16/8 | 16/8 | 16/8 | 16/8 | 16/8 |
| Ethernet | 2 Gigabit Ports | 2 Gigabit Ports | 2 Gigabit Ports | 2 Gigabit Ports | 2 Gigabit Ports |
| PoE | -- | -- | -- | -- | -- |
| USB | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 |
| Power | AC100V~240V, Redundant<br><20W(Without HDD) | AC100V~240V<br><20W(Without HDD) | AC100V~240V, Redundant<br><20W(Without HDD) | AC100V~240V<br><20W(Without HDD) | AC100V~240V<br><20W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M | Fisheye Dewarp, Smart Track<br>POS, ANPR, N+M |

## Pro Series

The Pro Series is a perfect choice for mid to large-scale business and projects where both high reliability and flexibility are required. Innovative H.265+ encoding technology and special features such as fisheye dewarp, ANPR, and POS further enhance surveillance monitoring.

### KEY FEATURES

**Powerful Processor**
ARM Cortex A17 quad-core CPU delivers 4ch@4K / 16ch@1080P

**H.265+**
Advanced encoding saves up to 70% bandwidth and storage

**Rich Features**
Fisheye dewarp, POS, ANPR, P2P

**Advanced Intelligence**
IVS and Face Detection ensure efficient surveillance

## Pro Series

8HDD Professional 4K&H.265 NVR

| Model | NVR5832-4KS2 | NVR5816-4KS2 | NVR5816-16P-4KS2E |
|---|---|---|---|
| Appearance |  V2.00 H.265+ |  V2.00 H.265+ | ePoE  H.265+ |
| Processor | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 32 channel | 16 channel | 16 channel |
| Max Input/Record | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps |
| Max Decoding | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P |
| Display | 2HDMI, 2VGA | 2HDMI, 2VGA | 2HDMI, 2VGA |
| Max HDD | 8×10TB | 8×10TB | 8×10TB |
| RAID | -- | -- | -- |
| eSATA/Mini SAS | 1/- | 1/- | 1/- |
| Audio In/Out | 1/2, 2-way | 1/2, 2-way | 1/2, 2-way |
| Alarm In/Out | 16/6 | 16/6 | 16/6 |
| Ethernet | 2 Gigabit Ports | 2 Gigabit Ports | 1 Gigabit Port |
| PoE | -- | -- | 16 Ports (IEEE802.3at/af), Max 150W<br>1-8 PoE ports for ePoE & EoC |
| USB | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 | 2 USB3.0, 2 USB2.0 |
| Power | AC100V~240V<br><16.7W(Without HDD) | AC100V~240V<br><16.7W(Without HDD) | AC100V~240V<br><17.5W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | Fisheye Dewarp, ANPR<br>POS, P2P | Fisheye Dewarp, ANPR<br>POS, P2P | Fisheye Dewarp, ANPR<br>POS, P2P, Plug & Play |

# NETWORK VIDEO RECORDERS

## Pro Series

| | 4HDD Professional 4K & H.265 NVR | | | | 2HDD Professional 4K & H.265 NVR |
|---|---|---|---|---|---|
| Model | NVR5432-4KS2 | NVR5416-4KS2 | NVR5424-24P-4KS2 | NVR5416-16P-4KS2E | NVR5232-4KS2 |
| Appearance |  V2.00 H.265+ |  V2.00 H.265+ |  H.265+ | ePoE  H.265+ |  V2.00 H.265+ |
| Processor | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 32 channel | 16 channel | 24 channel | 16 channel | 32 channel |
| Max Input/Record | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps |
| Max Decoding | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P |
| Display | 2HDMI, 2VGA | 2HDMI, 2VGA | 2HDMI, VGA | 2HDMI, 2VGA | HDMI, VGA |
| Max HDD | 4×10TB | 4×10TB | 4×10TB | 4×10TB | 2×10TB |
| RAID | -- | -- | -- | -- | -- |
| eSATA/Mini SAS | 1/- | 1/- | 1/- | 1/- | -- |
| Audio In/Out | 1/2, 2-way | 1/2, 2-way | 1/1, 2-way | 1/2, 2-way | 1/1, 2-way |
| Alarm In/Out | 16/6 | 16/6 | 16/6 | 16/6 | 4/2 |
| Ethernet | 2 Gigabit Ports | 2 Gigabit Ports | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port |
| PoE | -- | -- | 24 Ports (IEEE802.3at/af)<br>Max 210W | 16 Ports (IEEE802.3at/af), Max 150W<br>1-8 PoE ports for ePoE & EoC | -- |
| USB | 2 USB3.0, 1 USB2.0 | 2 USB3.0, 1 USB2.0 | 2 USB3.0, 1 USB2.0 | 2 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 |
| Power | AC100V~240V<br><16.7W(Without HDD) | AC100V~240V<br><16.7W(Without HDD) | AC100V~240V<br><18W(Without HDD) | AC100V~240V<br><17.5W(Without HDD) | DC12V/4A<br><9.5W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | Fisheye Dewarp, ANPR, POS, P2P | Fisheye Dewarp, ANPR, POS, P2P | Fisheye Dewarp, ANPR, POS, P2P<br>Plug & Play | Fisheye Dewarp, ANPR, POS, P2P<br>Plug & Play | Fisheye Dewarp, ANPR, POS, P2P |

## Pro Series

2HDD Professional 4K & H.265 NVR

| Model | NVR5216-4KS2 | NVR5208-4KS2 | NVR5224-24P-4KS2 | NVR5216-16P-4KS2E | NVR5216-8P-4KS2E | NVR5208-8P-4KS2E |
|---|---|---|---|---|---|---|
| Appearance |  V2.00 H.265+ |  V2.00 H.265+ |  H.265+ | ePoE  H.265+ | ePoE  H.265+ | ePoE  H.265+ |
| Processor | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 16 channel | 8 channel | 24 channel | 16 channel | 16 channel | 8 channel |
| Max Input/Record | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps | 320Mbps/320Mbps |
| Max Decoding | 4ch@8MP/16ch@1080P | 4ch@8MP/8ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/16ch@1080P | 4ch@8MP/1 6ch@1080P | 4ch@8MP/8ch@1080P |
| Display | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA |
| Max HDD | 2×10TB | 2×10TB | 2×10TB | 2×10TB | 2×10TB | 2×10TB |
| RAID | -- | -- | -- | -- | -- | -- |
| eSATA/Mini SAS | -- | -- | -- | -- | -- | -- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | 4/2 | 4/2 | 4/2 | 4/2 | 4/2 | 4/2 |
| Ethernet | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port |
| PoE | -- | -- | 24 Ports (IEEE802.3at/af)<br>Max 210W | 16 Ports (IEEE802.3at/af), Max 130W<br>1-8 PoE ports for ePoE & EoC | 8 Ports (IEEE802.3at/af), Max 130W<br>1-8 PoE ports for ePoE & EoC | 8 Ports (IEEE802.3at/af), Max 130W<br>1-8 PoE ports for ePoE & EoC |
| USB | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 |
| Power | DC12V/4A<br><9.5W(Without HDD) | DC12V/4A<br><9.5W(Without HDD) | AC100V~240V<br><16W(Without HDD) | AC100V~240V<br><15.2W(Without HDD) | AC100V~240V<br><14.5W(Without HDD) | AC100V~240V<br><14.5W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | Fisheye Dewarp, ANPR, POS, P2P | Fisheye Dewarp, ANPR, POS, P2P | Fisheye Dewarp, ANPR, POS, P2P<br>Plug & Play | Fisheye Dewarp, ANPR, POS, P2P<br>Plug & Play | Fisheye Dewarp, ANPR, POS, P2P<br>Plug & Play | Fisheye Dewarp, ANPR, POS, P2P<br>Plug & Play |

# NETWORK VIDEO RECORDERS

## Lite H.265 Series

The Lite H.265 Series is designed for best cost performance and Dahua assured quality. The range supports innovative H.265+ encoding and energy saving techniques to help save on costs.

### KEY FEATURES

**Green-Tech**
ARM Cortex 4K processor features enhanced power-saving capabilities

**H.265+**
Advanced encoding saves up to 70% bandwidth and storage

**Wide Selection**
Full range of high, middle, and entry-level products

**Easy Setup**
Plug & play installation, P2P, and smart app for carefree surveillance

## Lite H.265 Series

8HDD Lite 4K & H.265 NVR

| Model | NVR4832-4KS2 | NVR4816-4KS2 | NVR4816-16P-4KS2 |
|---|---|---|---|
| Appearance |  H.265+ |  H.265+ |  H.265+ |
| Processor | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 32 channel | 16 channel | 16 channel |
| Max Input/Record | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps |
| Max Decoding | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P |
| Display | HDMI, VGA | HDMI, VGA | HDMI, VGA |
| Max HDD | 8×6TB | 8×6TB | 8×6TB |
| RAID | -- | -- | -- |
| eSATA/Mini SAS | -- | -- | -- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | 16/4 | 16/4 | 16/4 |
| Ethernet | 2 Gigabit Ports | 2 Gigabit Ports | 1 Gigabit Port |
| PoE | -- | -- | 16 Ports (IEEE802.3at/af)<br>Max 150W |
| USB | 1 USB3.0, 2 USB2.0 | 1 USB3.0, 2 USB2.0 | 1 USB3.0, 2 USB2.0 |
| Power | AC100V~240V<br><12W(Without HDD) | AC100V~240V<br><12W(Without HDD) | AC100V~240V<br><14.1W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change, Face Detection<br>People Counting, Heat Map |
| Star Features | P2P | P2P | Plug & Play, P2P |

## Lite H.265 Series

| | 4HDD Lite 4K & H.265 NVR | | | 2HDD Lite 4K & H.265 NVR | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Model | NVR4432-4KS2 | NVR4416-4KS2 | NVR4416-16P-4KS2 | NVR4232-4KS2 | NVR4216-4KS2 | NVR4208-4KS2 | NVR4216-16P-4KS2 | NVR4208-8P-4KS2 | NVR4204-P-4KS2 |
| Appearance |  |  |  |  |  |  |  |  |  |
| Processor | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU |
| Video Compression | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 |
| IP Video Inputs | 32 channel | 16 channel | 16 channel | 32 channel | 16 channel | 8 channel | 16 channel | 8 channel | 4 channel |
| Max Input/Record | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps | 200Mbps/200Mbps |
| Max Decoding | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/4ch@1080P |
| Display | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA |
| Max HDD | 4×6TB | 4×6TB | 4×6TB | 2×6TB | 2×6TB | 2×6TB | 2×6TB | 2×6TB | 2×6TB |
| RAID | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| eSATA/Mini SAS | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | 16/4 | 16/4 | 16/4 | 4/2 | 4/2 | 4/2 | 4/2 | 4/2 | 4/2 |
| Ethernet | 2 Gigabit Ports | 2 Gigabit Ports | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port | 1 Gigabit Port |
| PoE | -- | -- | 16 Ports (IEEE802.3at/af)<br>Max 150W | -- | -- | -- | 16 Ports (IEEE802.3at/af)<br>Max 130W | 8 Ports (IEEE802.3at/af)<br>Max 130W | 4 Ports (IEEE802.3at/af)<br>Max 50W |
| USB | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 | 1 USB3.0, 1 USB2.0 |
| Power | AC100V~240V<br><11.7W(Without HDD) | AC100V~240V<br><11.7W(Without HDD) | AC100V~240V<br><13.7W(Without HDD) | DC12V/4A<br><6.9W(Without HDD) | DC12V/4A<br><6.9W(Without HDD) | DC12V/4A<br><6.9W(Without HDD) | AC100V~240V<br><13.2W(Without HDD) | AC100V~240V<br><9.6W(Without HDD) | DC48V/2A<br><9W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map |
| Star Features | P2P | P2P | Plug & Play, P2P | P2P | P2P | P2P | Plug & Play, P2P | Plug & Play, P2P | Plug & Play, P2P |

# NETWORK VIDEO RECORDERS

## Lite H.265 Series

| | 1HDD Lite 4K & H.265 NVR | | | | 1HDD Lite 4K & H.265 NVR | | | |
|---|---|---|---|---|---|---|---|---|
| Model | NVR4108HS-4KS2 | NVR4104HS-4KS2 | NVR4108HS-8P-4KS2 | NVR4104HS-P-4KS2 | NVR4108-4KS2 | NVR4104-4KS2 | NVR4108-8P-4KS2 | NVR4104-P-4KS2 |
| Appearance |  |  |  |  |  |  |  |  |
| Processor | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU | ARM Quad Core CPU |
| Video Compression | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 | H.265+/H.265<br>H.264+/H.264 |
| IP Video Inputs | 8 channel | 4 channel | 8 channel | 4 channel | 8 channel | 4 channel | 8 channel | 4 channel |
| Max Input/Record | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps |
| Max Decoding | 2ch@8MP/8ch@1080P | 2ch@8MP/4ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/4ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/4ch@1080P | 2ch@8MP/8ch@1080P | 2ch@8MP/4ch@1080P |
| Display | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA |
| Max HDD | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB |
| RAID | -- | -- | -- | -- | -- | -- | -- | -- |
| eSATA/Mini SAS | -- | -- | -- | -- | -- | -- | -- | -- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | -- | -- | -- | -- | -- | -- | -- | -- |
| Ethernet | 1×100M Port | 1×100M Port | 1×100M Port | 1×100M Port | 1×100M Port | 1×100M Port | 1×100M Port | 1×100M Port |
| PoE | -- | -- | 8 Ports (IEEE802.3at/af)<br>Max 80W | 4 Ports (IEEE802.3at/af)<br>Max 50W | -- | -- | 8 Ports (IEEE802.3at/af)<br>Max 80W | 4 Ports (IEEE802.3at/af)<br>Max 50W |
| USB | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 |
| Power | DC12V/2A<br><6.3W(Without HDD) | DC12V/2A<br><6.3W(Without HDD) | DC48V/2A<br><8.3W(Without HDD) | DC48V/1.5A<br><7.5W(Without HDD) | DC12V/2A<br><6.3W(Without HDD) | DC12V/2A<br><6.3W(Without HDD) | DC48V/2A<br><8.3W(Without HDD) | DC48V/1.5A<br><7.5W(Without HDD) |
| Intelligent Video | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map | Tripwire, Intrusion<br>Abandoned/Missing<br>Scene Change<br>Face Detection<br>People Counting<br>Heat Map |
| Star Features | P2P | P2P | Plug & Play, P2P | Plug & Play, P2P | P2P | P2P | Plug & Play, P2P | Plug & Play, P2P |

## Lite H.265 Series

| | 2HDD Lite 4K & H.265 NVR | | | | 1HDD Lite 4K & H.265 NVR |
|---|---|---|---|---|---|
| Model | NVR2208-4KS2 | NVR2204-4KS2 | NVR2208-8P-4KS2 | NVR2204-P-4KS2 | NVR2108HS-4KS2 |
| Appearance |  |  |  |  |  |
| Processor | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 8 channel | 4 channel | 8 channel | 4 channel | 8 channel |
| Max Input/Record | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps |
| Max Decoding | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P |
| Display | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA |
| Max HDD | 2×6TB | 2×6TB | 2×6TB | 2×6TB | 1×6TB |
| RAID | -- | -- | -- | -- | -- |
| eSATA/Mini SAS | -- | -- | -- | -- | -- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | -- | -- | -- | -- | -- |
| Ethernet | 1×100M Port | 1×100M Port | 1×1000M Port | 1×100M Port | 1×100M Port |
| PoE | -- | -- | 8 Ports (IEEE802.3at/af)<br>Max 80W | 4 Ports (IEEE802.3at/af)<br>Max 50W | -- |
| USB | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 |
| Power | DC12V/4A<br><3W(Without HDD) | DC12V/4A<br><3W(Without HDD) | DC54V/2.2A<br><5.8W(Without HDD) | DC48V/1.5A<br><5.3W(Without HDD) | DC12V/2A<br><3W(Without HDD) |
| Intelligent Video | -- | -- | -- | -- | -- |
| Star Features | P2P | P2P | Plug & Play, P2P | Plug & Play, P2P | P2P |

# NETWORK VIDEO RECORDERS

## Lite H.265 Series

| | 1HDD Lite 4K & H.265 NVR | | | 1HDD Lite 4K & H.265 NVR | | | |
|---|---|---|---|---|---|---|---|
| Model | NVR2104HS-4KS2 | NVR2108HS-8P-4KS2 | NVR2104HS-P-4KS2 | NVR2108-4KS2 | NVR2104-4KS2 | NVR2108-8P-4KS2 | NVR2104-P-4KS2 |
| Appearance |  |  |  |  |  |  |  |
| Processor | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU | ARM Dual Core CPU |
| Video Compression | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 | H.265+/H.265/H.264+/H.264 |
| IP Video Inputs | 4 channel | 8 channel | 4 channel | 8 channel | 4 channel | 8 channel | 4 channel |
| Max Input/Record | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps | 80Mbps/80Mbps |
| Max Decoding | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P | 1ch@8MP/4ch@1080P |
| Display | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA | HDMI, VGA |
| Max HDD | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB | 1×6TB |
| RAID | -- | -- | -- | -- | -- | -- | -- |
| eSATA/Mini SAS | -- | -- | -- | -- | -- | -- | -- |
| Audio In/Out | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way | 1/1, 2-way |
| Alarm In/Out | -- | -- | -- | -- | -- | -- | -- |
| Ethernet | 1×100M Port | 1×1000M Port | 1×100M Port | 1×100M Port | 1×100M Port | 1×1000M Port | 1×100M Port |
| PoE | -- | 8 Ports (IEEE802.3at/af) Max 80W | 4 Ports (IEEE802.3at/af) Max 50W | -- | -- | 8 Ports (IEEE802.3at/af) Max 80W | 4 Ports (IEEE802.3at/af) Max 50W |
| USB | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 | 2 USB2.0 |
| Power | DC12V/2A <3W(Without HDD) | DC48V/2A <5.8W(Without HDD) | DC48V/1.25A <5.3W(Without HDD) | DC12V/2A <3W(Without HDD) | DC12V/2A <3W(Without HDD) | DC48V/2A <5.8W(Without HDD) | DC48V/1.25A <5.3W(Without HDD) |
| Intelligent Video | -- | -- | -- | -- | -- | -- | -- |
| Star Features | P2P | Plug & Play, P2P | Plug & Play, P2P | P2P | P2P | Plug & Play, P2P | Plug & Play, P2P |

## Monitors

| Model | DHL19-F600 | DHL22-F600-S | DHI-LM24-F211 | LM28-S400 | LM55-S401 |
|---|---|---|---|---|---|
| Appearance |  |  |  |  |  |
| Screen Size | 19.5″(16:9) | 21.5″(16:9) | 23.8″(16:9) | 28″(16:9) | 55″(16:9) |
| Resolution | 1600×900 | 1920×1080 | 1920×1080 | 3840×2160 | 3840×2160 |
| Brightness | 200cd/m$^2$ | 200cd/m$^2$ | 250cd/m$^2$ | 300cd/m$^2$ | 500cd/m$^2$ |
| Contrast Ratio | 1000:1 | 1000:1 | 1000:1 | 1000:1 | 4000:1 |
| Viewing Angle | H 170°, V 160° | H 178°, V 178° | H 178°, V 178° | H 170°, V 160° | H 178°, V 178° |
| Response Time | 5ms | 15ms | 14ms | 5ms | 7ms |
| Display Color | 8bit | 8bit | 8bit | 10bit | 10bit |
| Input | 1 VGA | 1 VGA, 1 HDMI<br>1 Audio | 1 VGA, 1 HDMI<br>1 Audio | 2 HDMI, 1 DP, 1 VGA,<br>1 USB, 1 BNC (CVBS), 1 Audio | 1 VGA, 1 BNC (CVBS) , 1 DVI-D<br>2 HDMI, 1 RS232, 1 USB |
| Output | -- | 2 Speakers | 2 Speakers | 1 BNC (CVBS), 2 Speakers | 1 Audio, 1 RS232, 2 Speakers |
| Control | Physical Button | Physical Button | Physical Button | RS232, Infrared Remote | RS232, Infrared Remote |
| Working Temperature | 0°C~+40°C(+32°F~+104°F) | 0°C~+40°C(+32°F~+104°F) | 0°C~+40°C(+32°F~+104°F) | 0°C~+40°C(+32°F~+104°F) | 0°C~+50°C(+32°F~+122°F) |
| Working Humidity | 10~85% | 10~85% | 10~85% | 20~90% | 20~90% |
| Power | AC100~240V(+/-10%), 25W | AC100~240V(+/-10%), 25W | AC110~240V, 29W | AC100~240V(+/-10%), 40W | AC100~240V(+/-10%), 130W |
| Border Width | 16.7mm(U/L/R), 25mm(B) | 13.5mm(U/L/R), 19mm(B) | 2.2mm(U/L/R), 18.3mm(B) | 19.0mm(L/R), 19.1mm(U), 27.2mm(B) | 5.2mm(U/B/L/R) |
| Dimensions (without base) | 467.0×283.0×51.5mm<br>(18.4″×11.1″×2.0″) | 502.8×299.78×47.6mm<br>(19.8″×11.5″×1.9″) | 540.6×322.6×50.1mm<br>(21.3″×12.7″×2.0″) | 662.0×390.5×50.0mm<br>(26.1″×15.4″×2.0″) | 1222.0×692.8×63.2mm<br>(48.1″×27.3″×2.5″) |
| Net Weight | 3.8kg(8.4lb) | 3.2kg(7.1lb) | 3.7kg(8.2lb) | 6.65kg(14.7lb) | 20kg(44.1lb) |

# DISPLAY & CONTROL

## Controllers

| Model | M70-4U-E |
|---|---|
| Appearance |  |
| Screen Quantity | 60 Screens |
| Splicing Control | Zoom/Merge/Roam/Overlay |
| Card Slots | 1 Main slot, 1 Control slot and 10 service slots |
| Max Encoding | 80CH@1080P/320CH@D1 |
| Max Decoding | 80CH@4K/320CH@1080P/720CH@720P/1500CH@D1 |
| Local Video Input | DVI/HDMI/VGA/BNC/HDCVI/HD-SDI |
| Network Video Input | IPC/DVR/NVR/VNC, etc. |
| Video Output | DVI/HDMI |
| Intercom | 1/1 3.5mm jack(For intercom) |
| Prosessor | 64 bit quad core processor |
| Bus | PCI-E, Ethernet |
| Case | 4U 19" |
| Ethernet | 6 RJ-45 ports(10/100/1000M), 2 in mainboard and 4 in control board |
| USB | 3 USB2.0, 1 USB3.0 |
| Power | AC100~240V |
| Control Mode | WEB/Local GUI/Video Platform/Network Keyboard/iPad |
| Highlights | 4K & H.265 decoding, more powerful decoding capacity in one output, Fisheye dewarp |

## Decoders

| Model | NVD0105DH-4K | NVD0905DH-4I-4K | NVD1205DH-4I-4K |
|---|---|---|---|
| Appearance |  |  |  |
| Screen Quantity | 1 Screen | 9 Screens | 12 Screens |
| Splicing Control | Zoom/Merge/Roam/Overlay | Zoom/Merge/Roam/Overlay | Zoom/Merge/Roam/Overlay |
| Split Mode | 1/4/9/16/25/36/64 | 1/4/9/16 | 1/4/9/16 |
| Max Decoding | 3CH@12MP(25fps)/4CH@4K(30fps)/16CH@1080P(30fps)/8CH@1080P(60fps)/36CH@720P(30fps)/64CH@D1(30fps) | 9CH@12MP(25fps)/12CH@4K/48CH@1080P/108CH@720P/144CH@D1 | 12CH@12MP(25fps)/16CH@4K/64CH@1080P/144CH@720P/192CH@D1 |
| Local Video Input | -- | 2CH HDMI, 2CH DVI-I | 2CH HDMI, 2CH DVI-I |
| Network Video Input | IPC/DVR/NVR, etc. | IPC/DVR/NVR, etc. | IPC/DVR/NVR, etc. |
| Video Output | HDMI/VGA | HDMI(DVI with convertor) | HDMI(DVI with convertor) |
| Audio Out | HDMI | HDMI | HDMI |
| Alarm In/Out | 4/4(30VDC 1A, 125VAC 0.5A, Relay output) | 4/4(30VDC 1A, 125VAC 0.5A, Relay output) | 2/1(30VDC 1A, 125VAC 0.5A, Relay output) |
| Intercom | 1 Pair RCA | 1 Pair 3.5mm Jack | 1 Pair 3.5mm Jack |
| Prosessor | Intel x86 processor | Intel x86 processor | Embedded processor |
| Case | 1U 19" | 1.5U 19" | 2.5U 19" |
| Ethernet | 1 RJ-45 port (10/100/1000M, self-adaptive) | 2 RJ-45 ports (10/100/1000M) | 2 RJ-45 ports (10/100/1000M) |
| USB | 2 USB2.0 | 1 USB2.0, 1 USB3.0 | 1 USB2.0, 2 USB3.0 |
| Power | DC12V/3.3A | AC100~240V, 50 Hz~60Hz | AC 100V~127V, 200V~240V 47Hz~63Hz |
| Control Mode | WEB/Local GUI/Video Platform/Network keyboard/iPad | WEB/Video Platform/Network keyboard/iPad | WEB/Video Platform/Network keyboard/iPad |
| Highlights | 4K & H.265 & H.265+ decoding, Fisheye dewarp, Support the display of intelligent regular line | 4K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection | 4K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection |

## Keyboards

| Model | NKB5000(-F) |
|---|---|
| Appearance |  |
| Control Mode | Direct mode, Network mode |
| Control Interface | 2 RJ-45 port (10/100/1000M), Wi-Fi, RS232, RS485 |
| DVR/NVR Protocol | DH2 |
| Dome Protocol | DH-SD1/PELCO-D/PELCO-P, etc |
| Max Users | No limit(Each can manage up to 30,000 channels) |
| Screen | 10.1" TFT LCD touch screen (1280×800) |
| Local Split Display Mode | 1/4/9/16 |
| Video Output | 4CH HDMI |
| Local Decoding | 4CH@4K/16CH@1080P |
| Intercom | 1 Pair |
| Joystick | 4-axis(zoom, focus, iris) |
| Main Processor | Dual-core Braswell Processor |
| Operation System | Embedded LINUX 4.2.0 |
| USB | 2 USB3.0 + 2 USB2.0 |
| Power | DC12V, 4A |
| Highlights | All touch screen, 4K&H.265 decoding, Control NVR, DVR, EVS, Decoder, Matrix, Platform, Local visible control |

## PoE Switches

Desktop PoE Switch

| Model | PFS3005-4ET-60 | PFS3006-4ET-60 | PFS3008-8ET-60 | PFS3009-8ET-96 | PFS3010-8ET-96 | PFS4218-16ET-190/240 | PFS4226-24ET-240/360 |
|---|---|---|---|---|---|---|---|
| Appearance |  |  |  |  |  |  |  |
| Fast/Gigabit Ethernet | 4FE PoE+1FE | 4FE PoE+2FE | 4FE PoE+4FE | 8 FE PoE + 1FE | 8 FE PoE + 2GE | 16FE PoE+2GE (Combo) | 24FE PoE+2GE (Combo) |
| SFP Slots | -- | -- | -- | -- | -- | 2GE SFP (Combo) | 2GE SFP (Combo) |
| Switching Capacity | 1Gbps | 1.8Gbps | 1.8Gbps | 1.8Gbps | 5.6Gbps | 8.8Gbps | 8.8Gbps |
| Packet Forwarding Rate | 744Kpps | 890Kpps | 1.19Mpps | 1.34Mpps | 4.17Mpps | 5.36Mpps | 6.55Mpps |
| Packet Buffer Memory | 448Kb | 768Kb | 768Kb | 768Kb | 4Mb | 2.75Mb | 2.75Mb |
| MAC Table Size | 1K | 2K | 2K | 2K | 16K | 4K | 4K |
| PoE Standard | PoE (802.3af) PoE+ (802.3at), Hi-PoE | PoE (802.3af) PoE+ (802.3at), Hi-PoE | PoE (802.3af) PoE+ (802.3at), Hi-PoE | PoE (802.3af) PoE+ (802.3at), Hi-PoE | PoE (802.3af) PoE+ (802.3at), Hi-PoE | PoE (802.3af) PoE+ (802.3at), Hi-PoE | PoE (802.3af) PoE+ (802.3at), Hi-PoE |
| PoE Budget | 60W | 60W | 60W | 96W | 96W | 190W/240W | 240W/360W |
| Long Distance PoE Transmission | Yes (250 meters) | Yes (250 meters) | Yes (250 meters) | Yes (250 meters) | Yes (250 meters) | Yes (250 meters) | Yes (250 meters) |
| VLAN | -- | -- | -- | -- | -- | Supported | Supported |
| Link Aggregation | -- | -- | -- | -- | -- | Supported | Supported |
| Flow Control | Supported | Supported | Supported | Supported | Supported | Supported | Supported |
| Spanning Tree | -- | -- | -- | -- | -- | Supported | Supported |
| Management | -- | -- | -- | -- | -- | Web | Web |
| Lightning Protection | Common Mode 2KV Differential Mode 1KV | Common Mode 2KV Differential Mode 1KV | Common Mode 2KV Differential Mode 0.5KV | Common Mode 4KV Differential Mode 2KV | Common Mode 2KV Differential Mode 1KV | Common Mode 4KV Differential Mode 2KV | Common Mode 4KV Differential Mode 2KV |
| Working Temperature | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) |
| Dimensions(WxDxH) | 130mm×85mm×26mm (5.1"×3.3"×1.0") | 130mm×85mm×26mm (5.1"×3.3"×1.0") | 190mm×100mm×30mm (7.5"×3.9"×1.2") | 190mm×100mm×30mm (7.5"×3.9"×1.2") | 190mm×100mm×30mm (7.5"×3.9"×1.2") | 440mm×300mm×44mm (17.3"×11.8"×1.7") | 440mm×300mm×44mm (17.3"×11.8"×1.7") |

# TRANSMISSION

## PoE Switches

| | Hardened PoE Switch | | | | | Flat PoE Switch |
|---|---|---|---|---|---|---|
| Model | PFS3103-1GT1ET-60 | PFS3106-4P-60 | PFS3110-8P-96 | PFS3211-8GT-120 | PFS3409-4GT-96 | PFS3111-8ET-96-F |
| Appearance |  |  |  |  |  |  |
| Fast/Gigabit Ethernet | 1FE PoE+1GE PoE | 4FE PoE+1GE | 8FE PoE+1GE | 8GE PoE+1GE | 4GE PoE+1GE | 8EF PoE+2GE |
| SFP Slots | 1GE SFP | 1GE SFP | 1GE SFP | 2GE SFP | 4GE SFP | 1GE SFP |
| Switching Capacity | 6.8Gbps | 6.8Gbps | 7.6Gbps | 33Gbps | 33Gbps | 13.6Gbps |
| Packet Forwarding Rate | 3.12Mpps | 3.57Mpps | 4.17Mpps | 16.37Mpps | 13.39Mpps | 5.65Mpps |
| Packet Buffer Memory | 2Mb | 1Mb | 1Mb | 1.75Mb | 1.75Mb | 2Mb |
| MAC Table Size | 8K | 8K | 8K | 4K | 4K | 8K |
| PoE Standard | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE |
| PoE Budget | 60W | 60W | 96W | 120W | 96W | 96W |
| Long Distance PoE Transmission | -- | -- | -- | -- | -- | Port1-4 (250 meters) |
| VLAN | -- | -- | -- | -- | -- | -- |
| Link Aggregation | -- | -- | -- | -- | -- | -- |
| Flow Control | Supported | Supported | Supported | Supported | Supported | Supported |
| Spanning Tree | -- | -- | -- | -- | -- | -- |
| Management | -- | -- | -- | -- | -- | -- |
| Lightning Protection | Common Mode 6KV<br>Differential Mode 4KV | Common Mode 6KV<br>Differential Mode 4KV | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV |
| Working Temperature | -30°C~+65°C (-22°F~+149°F) | -30°C~+65°C (-22°F~+149°F) | -30°C~+65°C (-22°F~+149°F) | -30°C ~ +65°C (-22°F~+149°F) | -30°C ~ +65°C (-22°F~+149°F) | -30°C ~ +65°C (-22°F~+149°F) |
| Dimensions(WxDxH) | 105mm×75mm×30mm<br>(4.1"×3.0"×1.2") | 150mm×100mm×30mm<br>(5.9"×3.9"×1.2") | 150mm×100mm×42mm<br>(5.9"×3.9"×1.7") | 150mm ×100mm×42mm<br>(5.9"×3.9"×1.7") | 150mm ×100mm ×42mm<br>(5.9"×3.9"×1.7") | 158mm ×130mm ×25mm<br>(6.2"×5.1"×1.0") |

## PoE Switches

| | Industrial PoE Switch | | | ePoE Switch | | | |
|---|---|---|---|---|---|---|---|
| Model | PFS4207-4GT-DP | PFS4210-8GT-DP | PFS4410-6GT-DP | PFL2106-4ET-96 | LR2110-8ET-120 | LR2218-16ET-240 | LR2226-24ET-360 |
| Appearance |  |  |  |  |  |  |  |
| Fast/Gigabit Ethernet | 4GE PoE+1GE | 8GE PoE | 6GE PoE | 4FE ePoE+ 1GE | 8FE ePoE+ 1GE | 8FE ePoE+ 8FE PoE+ 2GE Combo | 8FE ePoE+ 16FE ePoE+ 2GE Combo |
| SFP Slots | 2GE SFP | 2GE SFP | 4GE SFP | 1 GE SFP | 1 GE SFP | 2 GE SFP | 2 GE SFP |
| Switching Capacity | 14Gbps | 28Gbps | 28Gbps | 6.8Gbps | 8.8Gbps | 8.8Gbps | 8.8Gbps |
| Packet Forwarding Rate | 10.42Mpps | 14.88Mpps | 14.88Mpps | 3.57Mpps | 4.17Mpps | 5.36Mpps | 6.55Mpps |
| Packet Buffer Memory | 1.75Mb | 4Mb | 4Mb | 1Mb | 2.75Mb | 2.75Mb | 2.75Mb |
| MAC Table Size | 4K | 8K | 8K | 8K | 4K | 4K | 4K |
| PoE Standard | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at)<br>Hi-PoE |
| PoE Budget | ≤120W | ≤120W | ≤120W | 96W | 120W | 240W | 360W |
| Long Distance PoE Transmission | -- | -- | -- | Yes (800 meters) | Yes (800 meters) | Yes (800 meters) | Yes (800 meters) |
| VLAN | Supported | Supported | Supported | -- | -- | Supported | Supported |
| Link Aggregation | Supported | Supported | Supported | -- | -- | Supported | Supported |
| Flow Control | Supported | Supported | Supported | Supported | Supported | Supported | Supported |
| Spanning Tree | Supported | Supported | Supported | -- | -- | Supported | Supported |
| Management | Web | Supported | Supported | -- | -- | Supported | Supported |
| Lightning Protection | Common Mode 6KV<br>Differential Mode 4KV | Common Mode 6KV<br>Differential Mode 4KV | Common Mode 6KV<br>Differential Mode 4KV | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV |
| Working Temperature | -40°C ~ +75°C(-40°F~+167°F) | -40°C ~ +75°C(-40°F~+167°F) | -40°C ~ +75°C(-40°F~+167°F) | -30°C~+65°C (-22°F~+149°F) | -30°C~+65°C (-22°F~+149°F) | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) |
| Dimensions(WxDxH) | 103mm×135mm×53mm<br>(4.1"×5.3"×2.1") | 175mm×126mm×53mm<br>(6.9"×5.0"×2.1") | 175mm×126mm×53mm<br>(6.9"×5.0"×2.1") | 150mm×100mm×30mm<br>(5.9"×3.9"×1.2") | 150mm×100mm×42mm<br>(5.9"×3.9"×1.7") | 440mm×300mm×44mm<br>(17.3"×11.8"×1.7") | 440mm×300mm×44mm<br>(17.3"×11.8"×1.7") |

# TRANSMISSION

## L2+ Full Gigabit Switches

| Model | PFS5424-24T | PFS5924-24X | PFS5428-24GT |
|---|---|---|---|
| Appearance |  |  |  |
| Fast/Gigabit Ethernet | 20GE+4GE (Combo) | 8GE (Combo) | 24GE |
| SFP Slots | 4GE SFP(Combo) | 16GE SFP+8GE SFP(Combo) | 4×10G SFP+ |
| Switching Capacity | 350G | 350G | 128G |
| Packet Forwarding Rate | 36Mpps | 36Mpps | 96Mpps |
| Packet Buffer Memory | 32Mb | 32Mb | 32Mb |
| VLAN | Supported | Supported | Supported |
| Link Aggregation | Supported | Supported | Supported |
| Port Management | Flow Control, Speed Limit<br>Port Mirroring | Flow Control, Speed Limit<br>Port Mirroring | Flow Control, Speed Limit<br>Port Mirroring |
| Ring Network Protocol | STP/RSTP, ERPS | STP/RSTP, ERPS | STP/RSTP, ERPS |
| IGMP Snoopping | Supported | Supported | Supported |
| Static IP Routing | Supported | Supported | Supported |
| Dynamic Routing | -- | -- | -- |
| VRRP | -- | -- | -- |
| Management | Web,CLI, SNMP | Web,CLI, SNMP | Web,CLI, SNMP |
| Working Temperature | -10°C~+55°C (14°F~+131°F) | -10°C~+55°C (14°F~+131°F) | -20°C~+55°C (-4°F~+131°F) |
| Dimensions | 440mm×285mm×44.5mm<br>(17.3"×11.2"×1.8") | 440mm×285mm×44.5mm<br>(17.3"×11.2"×1.8") | 440mm×300mm×44mm<br>(17.3"×11.2"×1.8") |

## PoE Midspans / PoE Extenders

| Model | PFT1200 | PFT1300 |
|---|---|---|
| Appearance |  |  |
| Fast/Gigabit Ethernet | 2GE | 3FE |
| SFP Slots | -- | -- |
| Switching Capacity | -- | 1.4G |
| Packet Forwarding Rate | -- | 0.47Mpps |
| Packet Buffer Memory | -- | 512Kb |
| MAC Table Size | -- | 1K |
| PoE Standard | PoE (802.3af)<br>PoE+ (802.3at), Hi-PoE | PoE (802.3af)<br>PoE+ (802.3at) |
| PoE Budget | 60W | -- |
| PoE PIN Assignment | 1, 2, 4, 5(V+), 3, 6, 7, 8(V-) | 4, 5(V+) ,7 , 8(V-) |
| Lightning Protection | Common Mode 4KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV |
| Working Temperature | -30°C~+65°C(-22°F~+149°F) | -30°C~+65°C(-22°F~+149°F) |
| Dimensions | 150×70×39mm (5.9"×2.8"×1.5") | 79×52×23mm (3.1"×2.0"×0.9") |

## Ethernet over Coax

| | LR1002 | LR1002-1ET/LR1002-1EC |
|---|---|---|
| Model |  |  |
| Interface | 1FE+1*BNC | 1FE+1*BNC |
| Transmission Bandwidth | RG59 coaxial cable: 400m/100 Mbps,<br>1000m/10 Mbps | RG59 coaxial cable: 400m/100 Mbps,<br>1000m/10 Mbps |
| PoE Standard | (Based on the power input from the<br>ePoE switch) | PoE (802.3af)<br>PoE+ (802.3at) |
| Lightning Protection | Common Mode 6KV<br>Differential Mode 2KV | Common Mode 4KV<br>Differential Mode 2KV |
| Working Temperature | -40°C~+65°C(-40°F~+149°F) | -30°C~+65°C(-22°F~+149°F) |
| Dimensions(WxDxH) | 56mm×27mm×21mm(2.2"×1.1"×0.8") | 79mm×52mm×23mm(3.1"×2.0"×0.9") |

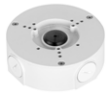
## V-Radio Wireless Bridge Series

| | CPE | | | | | | Base Station | | |
|---|---|---|---|---|---|---|---|---|---|
| Model | PFWB2-60n | PFWB2-30n | PFWB5-30n | PFWB5-10n | PFWB5-30ac | PFWB5-10ac | PFWB2-90n | PFWB5-90n | PFWB5-90ac |
| Appearance |  |  |  |  |  |  |  |  |  |
| Fast/Gigabit Ethernet | 1FE | 1FE | 1FE | 1FE | 1GE | 1GE | 1FE | 1GE | 1GE |
| Wireless Standard | 802.11 b/g/n | 802.11 b/g/n | 802.11 a/n | 802.11 a/n | 802.11 a/n/ac | 802.11 a/n/ac | 802.11 b/g/n | 802.11 a/n | 802.11 a/n/ac |
| Working Frequency | 2.402- 2.492GHz (FCC 2.412- 2.462 GHz) | 2.402- 2.492GHz (FCC 2.412- 2.462 GHz) | 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz) | 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz) | 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz) | 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz) | 2.402- 2.492GHz (FCC 2.412- 2.462 GHz) | 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz) | 5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz) |
| Wireless Speed | 300Mbps | 300Mbps | 300Mbps | 300Mbps | 867Mbps | 867Mbps | 300Mbps | 300Mbps | 867Mbps |
| Transmission Distance | 3km (recommended) 5km (max) | 5km (recommended) 7km (max) | 3km (recommended) 5km (max) | 5km (recommended) 7km (max) | 3km (recommended) 5km (max) | 5km (recommended) 7km (max) | 5km (recommended) 7km (max) | 5km (recommended) 7km (max) | 5km (recommended) 7km (max) |
| Antenna Gain | 9dBi | 14dBi | 15dBi | 20dBi | 15dBi | 20dBi | 16dBi | 18dBi | 18dBi |
| Polarization | Dual Linear: Horizontal 60° vertical 60° | Dual Linear: Horizontal 34° vertical 36° | Dual Linear: Horizontal 30° vertical 30° | Dual Linear: Horizontal 10° vertical 10° | Dual Linear: Horizontal 30° vertical 30° | Dual Linear: Horizontal 10° vertical 10° | Dual Linear: Horizontal 90° vertical 90° | Dual Linear: Horizontal 90° vertical 90° | Dual Linear: Horizontal 90° vertical 90° |
| Tx Power Max | 31dBm | 31dBm | 29dBm | 29dBm | 30dBm | 30dBm | 31dBm | 29dBm | 30dBm |
| Proprietary Protocol | TDMA | TDMA | TDMA | TDMA | TDMA | TDMA | TDMA | TDMA | TDMA |
| Network Security | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation | WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation |
| Management | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform | Web/DWMS Platform |
| Lightning Protection | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV | Common Mode 3KV Differential Mode 1KV |
| Ingress Protection | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 |
| Working Temperature | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) | -30°C ~ + 70°C (-22°F~+158°F) |
| Dimensions(WxDxH) | 145mm×116mm×58mm (5.7"×4.6"×2.3") | 185mm×185mm×81mm (7.3"×7.3"×3.2") | 128mm×97mm×40mm (5.0"x3.8"x1.6") | 185mm×185mm×81mm (7.3”×7.3”×3.2”) | 128mm×97mm×40mm (5.0”x3.8”x1.6”) | 185mm×185mm×81mm (7.3”×7.3”×3.2”) | 383mm×100mm×98mm (15.1"×3.9"×3.9") | 383mm×100mm×98mm (15.1”×3.9”×3.9”) | 383mm×100mm×98mm (15.1”×3.9”×3.9”) |
| Power | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE | 12- 24V DC Passive PoE |

# ACCESSORIES

| HFxxE, HFxxF Series | | |
|---|---|---|
|  |  |  |
| Model | PFB110W | PFB121W |
| Mount | Wall/Ceiling/Plane mount | Wall mount |

| HFWxxE(-Z), TPC-BF5x00(-T) Series | | |
|---|---|---|
|  |  |  |
| Model | PFA121 | PFA121+PFA152-E |
| Mount | Junction box | Pole mount |

| HFWxxT, TPC-BF2120( -T ) Series | | |
|---|---|---|
|  |  |  |
| Model | PFA130-E | PFA130-E+PFA152-E |
| Mount | Junction box | Pole mount |

| HFWxxS Series | | |
|---|---|---|
|  |  |  |
| Model | PFA134 | PFA134+PFA152-E |
| Mount | Junction box | Pole mount |

| PFWxx Series | | | |
|---|---|---|---|
|  |  |  |  |
| Model | PFA120 | PFA150 | PFA151 |
| Mount | Junction box | Pole mount | Corner Mount |

| PDBW Series | | |
|---|---|---|
|  |  |  |
| Model | PFA111+PFB303W | PFA111+PFB303S |
| Mount | Wall mount | Parapet mount |

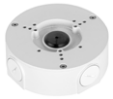
| HDBWxxE-Z Series | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Model | PFA138 | PFB210W | PFB210W+PFA152-E | PFA101+PFB300C | PFB201C |
| Mount | Junction box | Wall mount | Pole mount | Ceiling mount | In-ceiling mount |

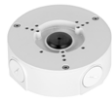
# ACCESSORIES

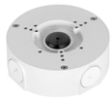
| HDBWxxR-Z/VF Series | | | | | | |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |
| Model | PFA137 | PFB203W | PFB203W+PFA152-E | PFA106+PFB220C | PFB200C | PFA200W |
| Mount | Junction box | Wall mount | Pole mount | Ceiling mount(extensible) | In-ceiling mount | Rain shade |

| HDBWxxE Series | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| Model | PFA136 | PFB203W | PFB203W+PFA152-E | PFA136+PFA200W |
| Mount | Junction box | Wall mount | Pole mount | Rain shade |

| EB, HDBxxC Series | | | |
|---|---|---|---|
|  |  |  |  |
| Model | PFA136 | PFB203W | PFB203W+PFA152-E |
| Mount | Junction box | Wall mount | Pole mount |

| HDWxxR-Z | | | |
|---|---|---|---|
|  |  |  |  |
| Model | PFA130-E | PFB203W | PFB203W+PFA152-E |
| Mount | Junction box | Wall mount | Pole mount |

| HDWxxEM Series | | | |
|---|---|---|---|
|  |  |  |  |
| Model | PFA130-E | PFB204W | PFB204W+PFA152-E |
| Mount | Junction box | Wall mount | Pole mount |

| HDWxxS Series | | | |
|---|---|---|---|
|  |  |  |  |
| Model | PFA130-E | PFB203W | PFB203W+PFA152-E |
| Mount | Junction box | Wall mount | Pole mount |

| HDBWxxF Series | | | |
|---|---|---|---|
|  |  |  |  |
| Model | PFA139 | PFB204W | PFB204W+PFA152-E |
| Mount | Junction box | Wall mount | Pole mount |

# ACCESSORIES

| SD8A Series | | | | | | |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |
| Model | PFB306W | PFB310W | PFB306W+PFA120 | PFA118+PFB301C | PFA150 | PFA151 |
| Mount | Wall mount | Wall mount | Junction box | Ceiling mount | Pole mount | Corner Mount |

| SD65F/60/6AE/6AL/ TPC-SD8x20(-T) Series | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |
| Model | PFA111+PFB303W | PFB310W | PFA111+PFB303W+PFA120 | PFA111+PFB300C | PFA150 | PFA151 | PFA140 | PFA111+PFB303S |
| Mount | Wall mount | | Junction box | Ceiling mount | Pole mount | Corner Mount | Power box | Parapet mount |

| SD6C Series | | | | | | | |
|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Model | 64FB | PFA114+PFB303W+PFA120 | PFA114+PFB300C | PFA150 | PFA151 | PFA140 | PFA114+PFB303S |
| Mount | Wall mount | Junction box | Ceiling mount | Pole mount | Corner Mount | Power box | Parapet mount |

| SD59/50/40 Series | | | | | | | |
|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Model | PFA110+PFB300S | PFA110+PFB300S+PFA120 | PFA110+PFB300C | PFA150 | PFA151 | PFA140 | PFA110+PFB303S |
| Mount | Wall mount | Junction box | Ceiling mount | Pole mount | Corner Mount | Power box | Parapet mount |

# ACCESSORIES

| SD6CE/49 Series | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |
| Model | PFB305W | PFB310W | PFB305W+PFA120 | PFA111+PFB300C | PFA150 | PFA151 | PFA140 | PFA111+PFB303S |
| Mount | Wall mount | | Junction box | Ceiling mount | Pole mount | Corner Mount | Power box | Parapet mount |

| SD42 Series | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  | |
| Model | PFA102+PFB302S | PFA102+PFB302S+PFA150 | PFA102+PFB302S+PFA151 | PFA102+PFB300C | |
| Mount | Wall mount | Pole mount | Corner Mount | Ceiling mount | |

| SD29 Series | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  | |
| Model | PFA103+PFB302S | PFA103+PFB302S+PFA150 | PFA103+PFB302S+PFA151 | PFA103+PFB300C | |
| Mount | Wall mount | Pole mount | Corner Mount | Ceiling mount | |

| SD22 Series | | | | | SD1A/12 Series | | |
|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Model | PFA137 | PFB203W | PFB203W+PFA152-E | PFB200C | Model | PFA107+PFB305W | PFA107+PFB220C |
| Mount | Junction box | Wall mount | Pole mount | In-ceiling mount | Mount | Wall mount | Ceiling mount (extensible) |

# ACCESSORIES

| | Housings | | | | SD Cards |
|---|---|---|---|---|---|
| Model | PFH610V Series | PFH610A Series | PFH610E Series | PFH610N-IR-W | PFM11x Series |
| Appearance |  |  |  |  |  |
| Description | Aluminum & PC<br>N/A/Heater, cooler/Heater, cooler, IR/Heater, cooler, IR, POE<br>IP67, IK10<br>DC12V/AC24V in<br>404×164×132mm(15.9″×6.45″×5.2″) | Aluminum & PC<br>N/A/Heater, cooler/Heater, cooler, IR/Heater, cooler, IR, POE<br>IP67, IK10, NEMA 4X<br>DC12V/AC24V in<br>404×164×132mm(15.9″×6.45″×5.2″) | Aluminum & PC<br>Heater, cooler/Heater, cooler, IR<br>IP67, IK10, NEMA 4X<br>AC110/220 in<br>404×164×132mm(15.9″×6.45″×5.2″)<br>-65°C~+55°C | Aluminum & PC<br>Heater, cooler, wiper, IR<br>IP66<br>AC24V, 5A in<br>404×164×175mm (15.9″×6.45″×6.89″) | Brand: Dahua<br>Property/Speed: Class 10<br>(reading: 90MB/s, writing: 20MB/s)<br>Storage capacity:<br>16/32/64/128/256GB |

| | Lenses | | | | | | Testers | |
|---|---|---|---|---|---|---|---|---|
| Model | PLZ1040-D | PFL0550-E6D | PLZ20C0-D | PLZ21C0-D | PFL1575-A12D | PFL2070-J12M | PFM900-E | PFM907 |
| Appearance |  |  |  |  |  |  |  |  |
| Description | Image size: 1/2.7"<br>Aperture: F1.6<br>Focus length: 2.7-12mm<br>Mount: CS<br>Resolution: 4MP | Image size: 1/2.7"<br>Aperture: F1.6<br>Focus length: 5-50mm<br>Mount: CS<br>Resolution: 6MP | Image size: 1/1.7"<br>Aperture: F1.5<br>Focus length: 3.7-16mm<br>Mount: CS<br>Resolution: 12MP | Image size: 1/1.7"<br>Aperture: F1.5<br>Focus length: 10.5-42mm<br>Mount: CS<br>Resolution: 12MP | Image size: 1/1.7"<br>Aperture: F1.5<br>Focus length: 15-75mm<br>Mount: C<br>Resolution: 12MP | Image size: 4/3"<br>Aperture: F1.5<br>Focus length: 20-70mm<br>Mount: M43<br>Resolution: 12MP | For IPC, HDCVI, TVI, AHD<br>analog camera<br>TDR, analog video generator<br>Digital multimeter, data monitor<br>PoE+, DC12V/2A output | For Wifi, IPC, HDCVI, TVI<br>AHD, analog camera<br>TDR,analog video generator<br>Wifi test,Digital multimeter<br>OPM, data monitor<br>PoE+, DC12V/2A, USB5V/2A output |

| | Pickups | | | | | Window Intercom |
|---|---|---|---|---|---|---|
| Model | HAP100 | HAP120 | HAP200 | HAP320 | HAP320-V | HAT200-N2 |
| Appearance |  |  |  |  |  |  |
| Description | Input DC12V<br>Scope: 5-40m²<br>Sensitivity:-40dB<br>63×30×22mm (2.48"×1.18"×0.87") | Input DC12V<br>Scope: 10-70m²<br>Sensitivity:-34dB<br>Φ40mm×20mm(Φ1.57″×0.79″) | Input DC12V<br>Scope: 10-100 m²<br>Sensitivity:-30dB<br>79.6×79.6×21.5mm(3.13"×3.13"×0.85") | Input DC12V<br>Scope: 10-150m²<br>Sensitivity:-35dB<br>Φ80mm×20mm(Φ3.15″×0.79″) | Input DC12V<br>Scope: 5-100m²<br>Sensitivity:-24dB<br>Φ80mm×23.5mm(Φ3.15″×0.93″) | Window Intercom<br>HDCVI 1080P video capture<br>Support full<br>duplex intercom<br>Support NVR storage |

# ACCESSORIES

| | Network Cables | | | | | Video Extensions |
|---|---|---|---|---|---|---|
| Model | PFM920I-5EUN-N | PFM920I-6UN-N | PFM920I-5EUN | PFM920I-6UN-C/U | PFM923I-6UN-C | PFM700-4K |
| Appearance |  |  |  |  |  |  |
| Description | UTP CAT5E Cable<br>Conductor: OFC<br>Jacket: PVC, 4.7mm<br>Color: white<br>Length: 305m(1000.7ft) | UTP CAT6 Cable<br>Conductor: OFC<br>Jacket: PVC, 6.0mm<br>Color: white<br>Length: 305m(1000.7ft) | UTP CAT5E Cable<br>Conductor: OFC<br>Jacket: PVC(CPR), 4.7mm<br>Color: white<br>Length: 305m(1000.7ft) | UTP CAT6 Cable<br>Conductor: OFC<br>Jacket: PVC(CPR/UL), 6.0mm<br>Color: white<br>Length: 305m(1000.7ft) | UTP CAT6 Cable<br>Conductor: OFC<br>Jacket: LSZH(CPR), 6.0mm<br>Color: white<br>Length: 305m(1000.7ft) | HDMI Extender<br>DC24V for transmitter<br>4K/40m,1080P/80m<br>Transmit 1-CH HDMI via UTP |

| | Cablings | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Model | PFM972 Series | PFM970 Series | PFM971 Series | PFM973M Series | PFM974 | PDU | PFC610 Series | PFC200D-6U4D | PFC200D-42U8D |
| Appearance |  |  |  |  |  |  |  |  |  |
| Description | UTP CAT5E/6 Patch Cord<br>Conductor: OFC<br>Jacket: PVC, 5.3mm/6.0mm<br>Color: yellow<br>Length: 1m/2m/3m<br>(3.28ft/6.56ft/9.84ft) | UTP CAT5E/6<br>Information Module | 1-Port/2-Port Network<br>Wall Plate | 24-port UTP CAT5E/6<br>Rackmount Patch Panel | 19” Rackmount<br>Cable Management | 8 Outlet Rackmount<br>PDU Power Strip | 19” Rackmount Tray<br>Load bearing:<br>40kg(88.18lb) | 19” 6U Rack Cabinet<br>Supports wall &<br>plane mount<br>Depth: 450mm(17.72”)<br>Load bearing:<br>40kg(88.18lb) | 19” 42U Rack Cabinet<br>Supports plane mount<br>Depth: 800mm(31.5”)<br>Load bearing:<br>300kg(661.39lb) |

| | Power Adapters | | | | Distributed Power Supplies | | UPS | |
|---|---|---|---|---|---|---|---|---|
| Model | PFM321D Series | PFM321 | PFM320D-015 | PFM300 | PFM320S Series | PFM34x Series | PFM350 Series | PFM351R Series |
| Appearance |  |  |  |  |  |  |  |  |
| Description | AC90~264V input<br>DC12V, 1A output<br>-30°C~+70°C<br>CE/FCC/UL/PSE/CCC | AC90~264V input<br>DC12V, 1A output<br>-10°C~+55°C<br>CE/FCC/UL/CCC | AC90~264V input<br>DC12V, 1.5A output<br>-30°C~+70°C<br>Perfect with PFA12X<br>series(IP66) | AC180~264V input<br>DC12V, 2A output<br>-30°C~+70°C<br>Structural water-proof | AC90~264V/AC88~132V<br>&176~264V input<br>DC12V<br>50W/150W & DC24V,<br>75W output | 5/9/19 Channel<br>AC90~264V input<br>DC12V 4A/5A/10A/20A<br>output | Line-Interactive<br>600VA/360W<br>1500VA/900W<br>2-6ms transfer time | Smart Online<br>1000VA/900W<br>3000VA/2700W<br>0ms transfer time |

## Solar Power System

### Off-gride Security

Secure every corner where the sun shines



| Model | ZDNY-330C72/275C60 | PFM376-D | PFM377-D2440/ D4830 |
|---|---|---|---|
| Appearance |  |  |  |
| Description | 330W/275W Solar Module<br>Five main grid battery piece<br>Monocrystalline 19.2% | Solar Module<br>Mounting Bracket | Distribution Box<br>Include MPPT controller, lightning arrester, DC circuit breaker, etc. |
| Model | 6-CNF Series | PFM374-H400 | TS-400 Series |
| Appearance |  |  |  |
| Description | Gel Battery<br>DC12V<br>100Ah/150Ah/200Ah | Battery Storage Box<br>Material:<br>engineering PP<br>Capacity: max. 2<br>batteries in 1 box | Power Inverter<br>Input: DC42~60V<br>Output: Default 400W,<br>120V&230V optional<br>Efficiency: up to 88.5% |

## Outdoor Survillance Box

### Outdoor Surveillance Box

Say goodbye to redundant bracket installation



| Model | PFA142 | | PFA153 | PFC620-D1 |
|---|---|---|---|---|
| Appearance |  | |  |  |
| Description | Outdoor Survillance Box<br>IP66, IK10<br>High compatibility<br>Support MNVR local storage<br>Optional tamper alarm | | Heavy-duty<br>Pole Mount Bracket<br>Mast Diameter:<br>ϕ150~ϕ300mm<br>(ϕ5.91”~ϕ11.81”)<br>Load Bearing:<br>35kg (77.16lb) | Special Fan for<br>Survillance Box<br>DC12V input<br>-40~60°c |
| Model | B1N2C16 | ZZM3-20 | ZZRJ45(-K)(PoE) | ARD312 |
| Appearance |  |  |  |  |
| Description | Air Circuit Breaker<br>240V / 16A<br>2P<br>DIN rail | Lightning Arrester<br>For 220/110V<br>≤1.6KV<br>DIN rail | Network Lightning<br>Arrester<br>For 100/<br>1000M network /<br>PoE port<br>DIN rail | Iron Door Contact<br>Standard gap 40mm<br>Support iron door<br>Spacers, covers<br>and screws included |

## Radar System

### Radar System

Capture every moving object linking PTZ



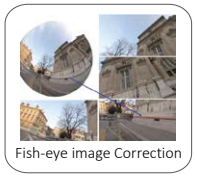
| Model | PFR4KS-E50 |
|---|---|
| Appearance |  |
| Description | Phased Array Radar<br>Working frequency: 24GHz<br>Distance: 50m for people detection<br>Horizontal: 120°<br>Support linking PTZ for trace drawning<br>low false & missing alarm rate<br>Support to link NVR, DSS, VMS |
| Model | PFM861-100/300 |
| Appearance |  |
| Description | Phased Array Radar<br>Working frequency: 24GHz<br>Distance: 100m for people detection<br>Horizontal: 90°<br>Support linking PTZ for trace drawning<br>low false & missing alarm rate |

## DSS Express

### DSS Express

Easy-to-use and Reliable VMS




Fish-eye image Correction


People Counting


Video Intercom



Access Control System


Attendance

| Performance | Free Version | Plus Version |
|---|---|---|
| Supported OS | Windows 7, Windows 8.1, Windows 10 | |
| Number of Cameras | 64 | 512 |
| Number of Screens | 4 | |
| Number of VDP Devices | 128 (No more than 64 VTOs) | 100 VTO, 1000 VTH |
| Number of Access Control | 64 IP, 64 Doors | 200 IP, 1024 Doors |
| Video Input Bandwidth | 350Mbps | 350Mbps |
| Video Storage Bandwidth | 150Mbps | 150Mbps |
| Basic Functions | Live View, Playback, Event, Video Wall, Download Center | |
| Intelligent Building | Personnel Management, Access Control, Video Intercom, Attendance | |
| AI Features | Face Recognition, ANPR, People Counting | |

## DMSS

### Digital Mobile Surveillance System

Monitor Anything with Your SmartPhone or Tablet Anytime, Anywhere



iOS 9.0 and above

Android 4.4 and above

| | | |
|---|---|---|
| Devices | Supporteded Devices | DVR, NVR, IPC, VTO, DoorBell, Alarm Hub |
| | Add Device Method | IP/domain, SN, Import form cloud, Soft AP |
| | Features | Remote config, Alarm config, HDD info, Share device list |
| Video | Compression Format | H.265/H.264/MPEG-4/JPEG |
| | Display Resolution | Up to 1920×1080 |
| Live Preview | Max. Channels Can Be Opened at The Same Time | 256 |
| | Features | Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels |
| Playback | Video Playback Duration | 72 hours |
| | Features | Snapshot, Record, Speed up / slow down, Frame-by-frame, Cut |
| Alarm Push | Alarm Type | Motion detect, Camera masking, Local alarm, Disk alarm (no disk, Low space, disk Error), Face detection, Ivs alarm, Thermal Imaging Alarm, Defoucs, Audio Detect, HDD Alarm, Sensor Alarm, Network Alarm |
| | Push Type | Video, Preview, Image |

# DORI DISTANCE (D/O/R/I)

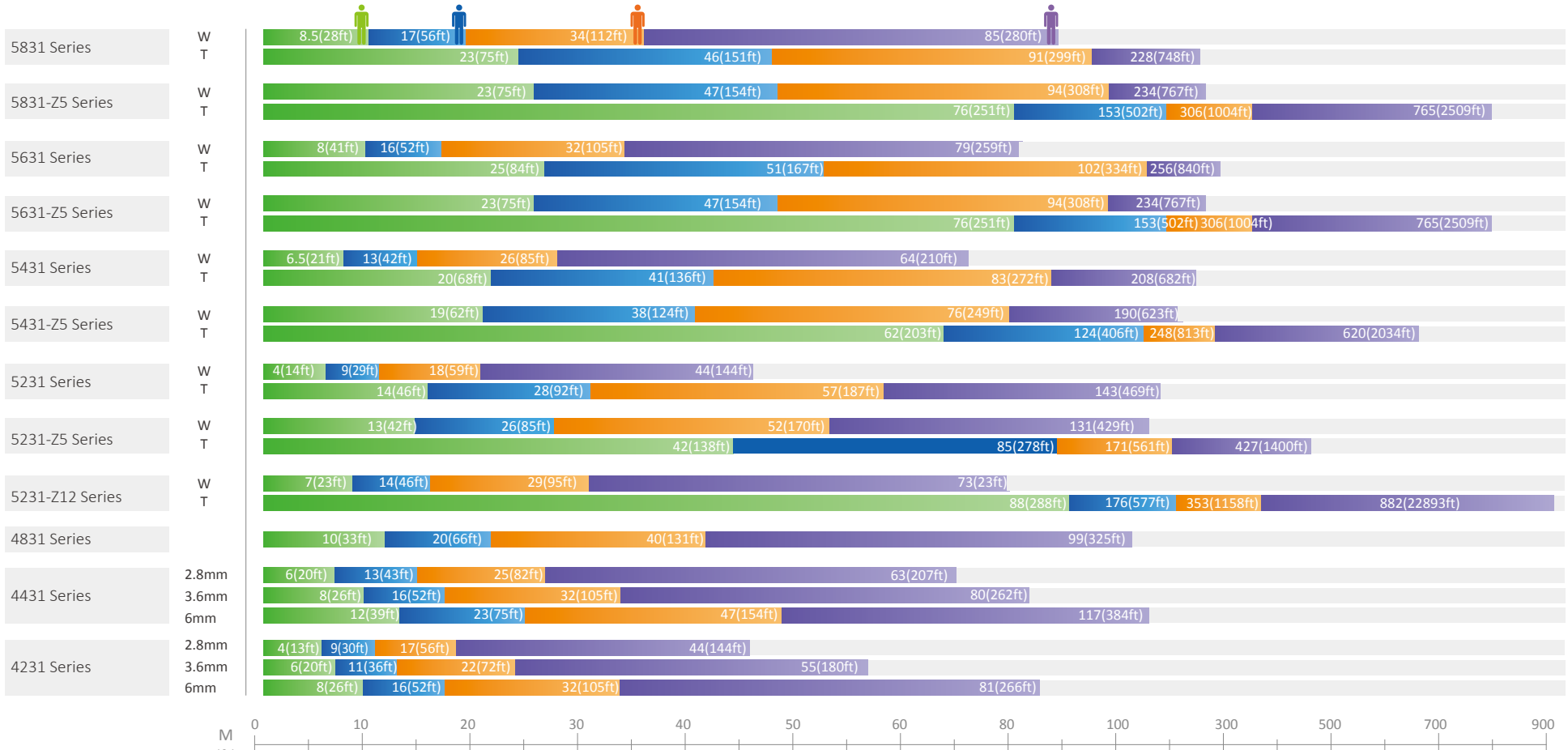
## Find the Optimal Camera for Your Individual Surveillance Needs

The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test results according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize, and Identify, respectively.

- Detect: 25ppm
- Observe: 63ppm
- Recognize: 125ppm
- Identify: 250ppm

## NETWORK CAMERAS

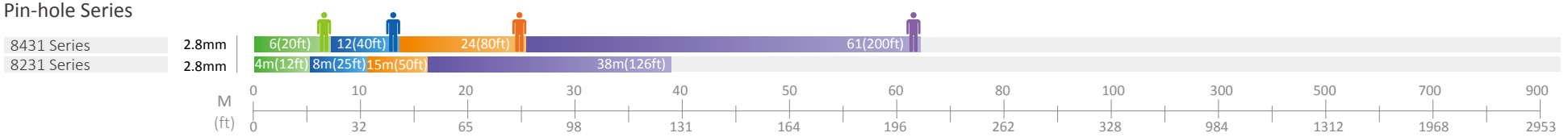
### Eco-savvy 3.0



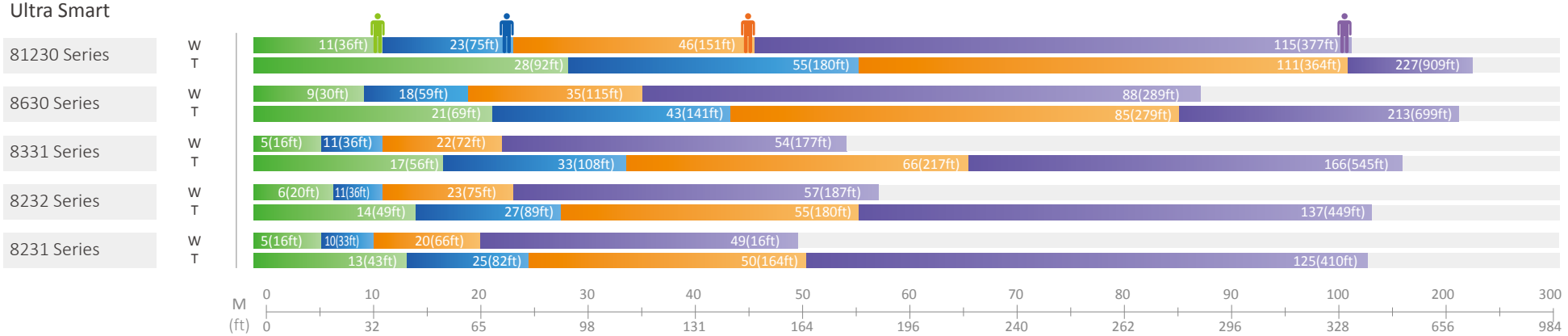
# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

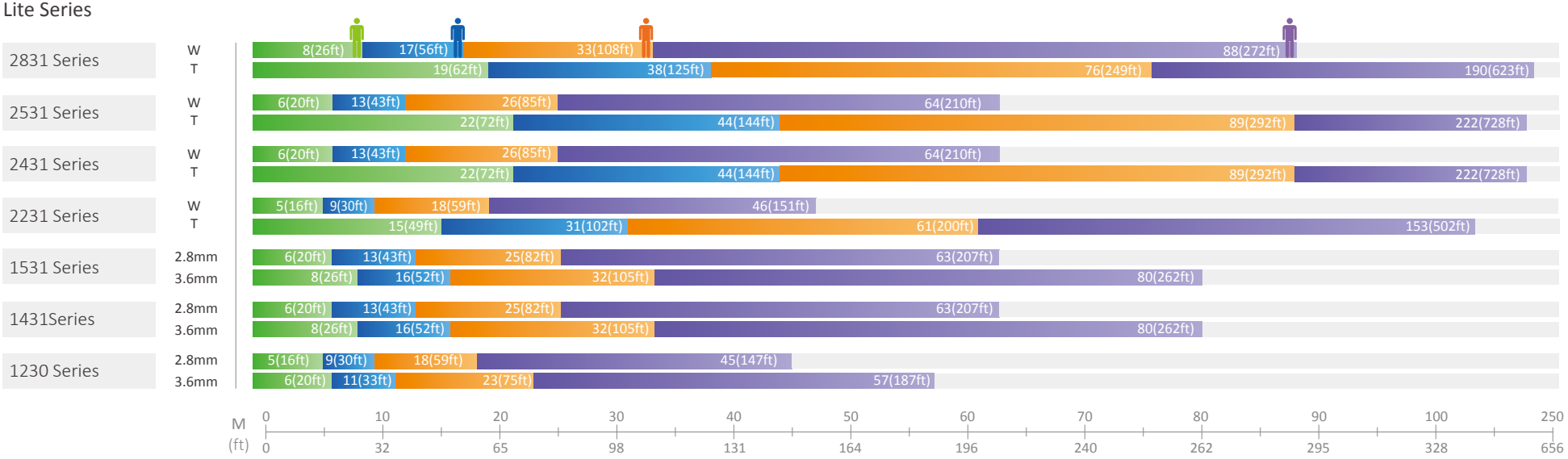
### Pin-hole Series




### Ultra Smart



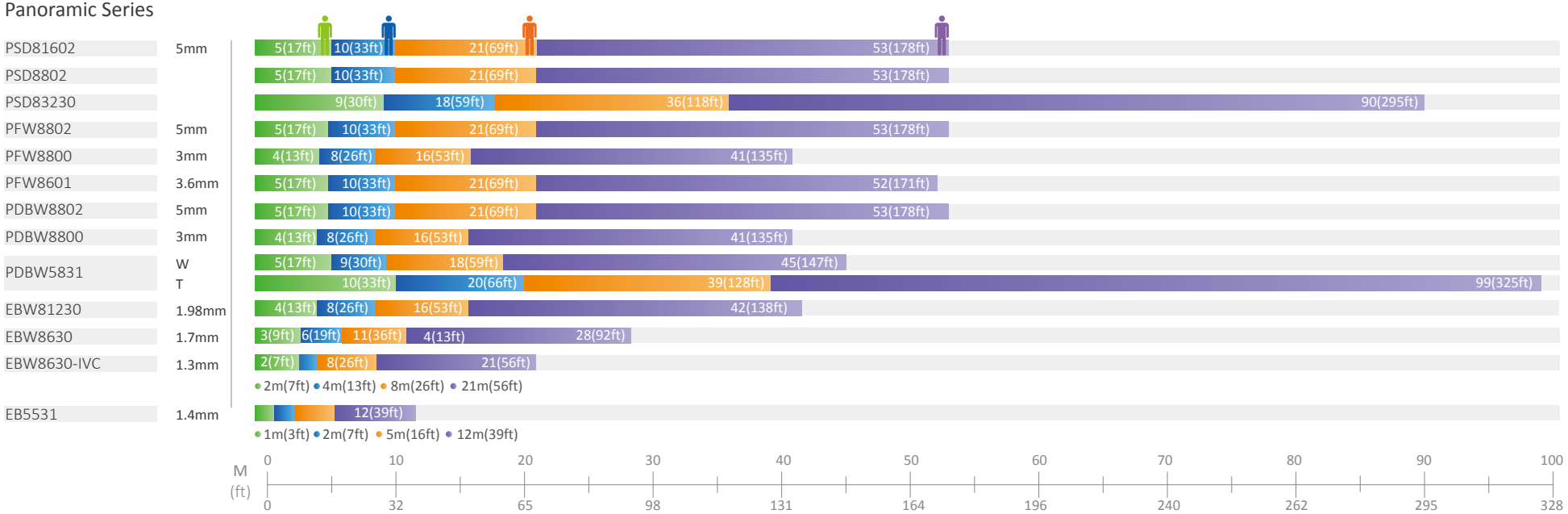

### Lite Series



# DORI DISTANCE (D/O/R/I)

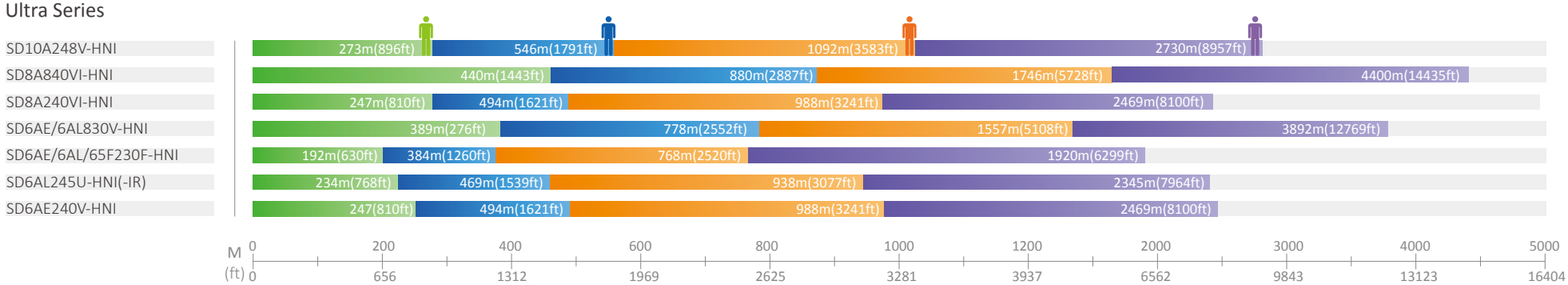
## NETWORK CAMERAS

### Panoramic Series




## NETWORK PTZ CAMERAS

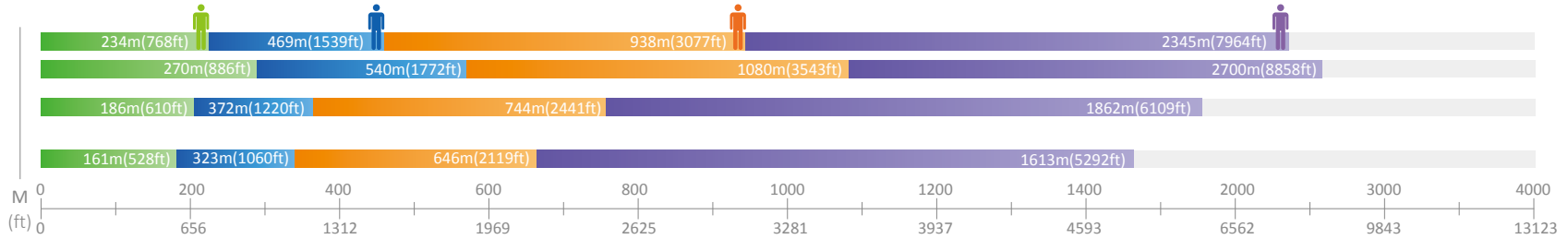
### Ultra Series



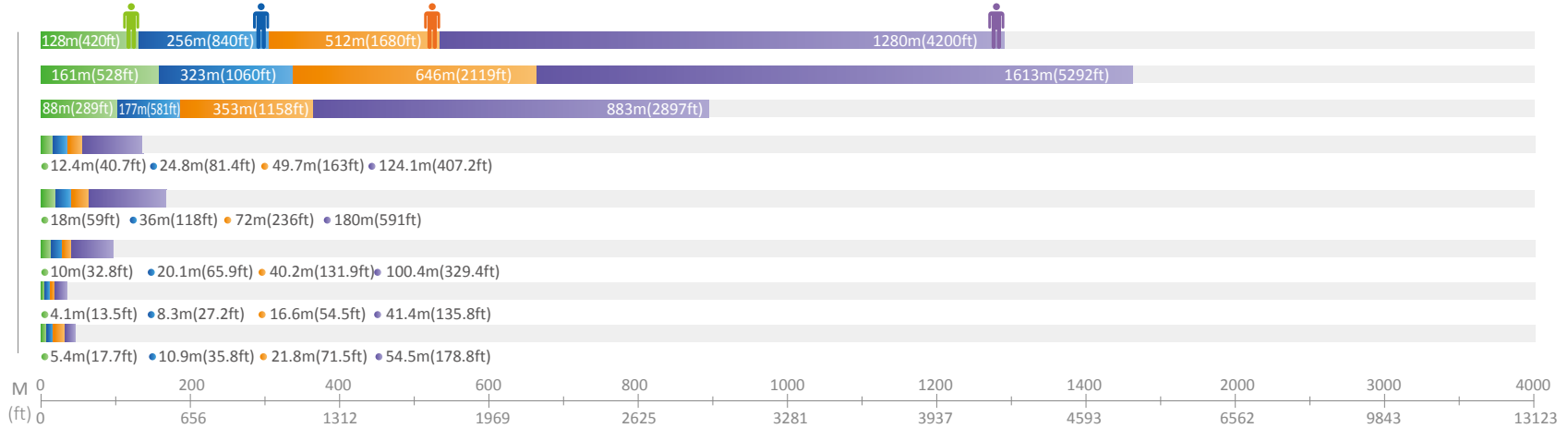
# DORI DISTANCE (D/O/R/I)

## NETWORK PTZ CAMERAS

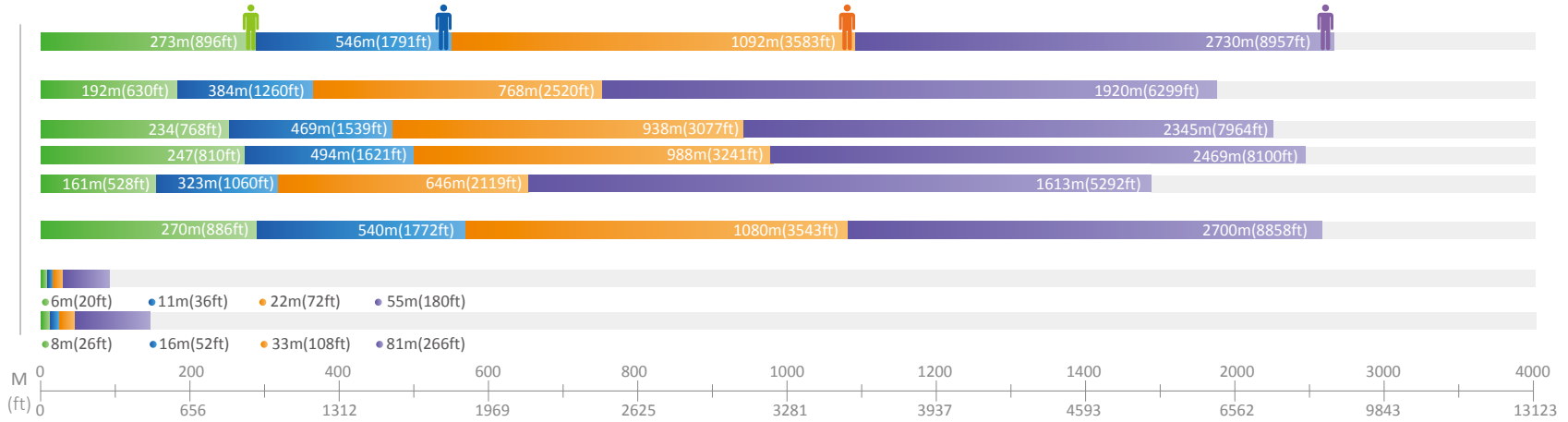
### Pro Series




### Lite Series / Wi-Fi Series




### All-environment Series



# DORI DISTANCE (D/R/I)

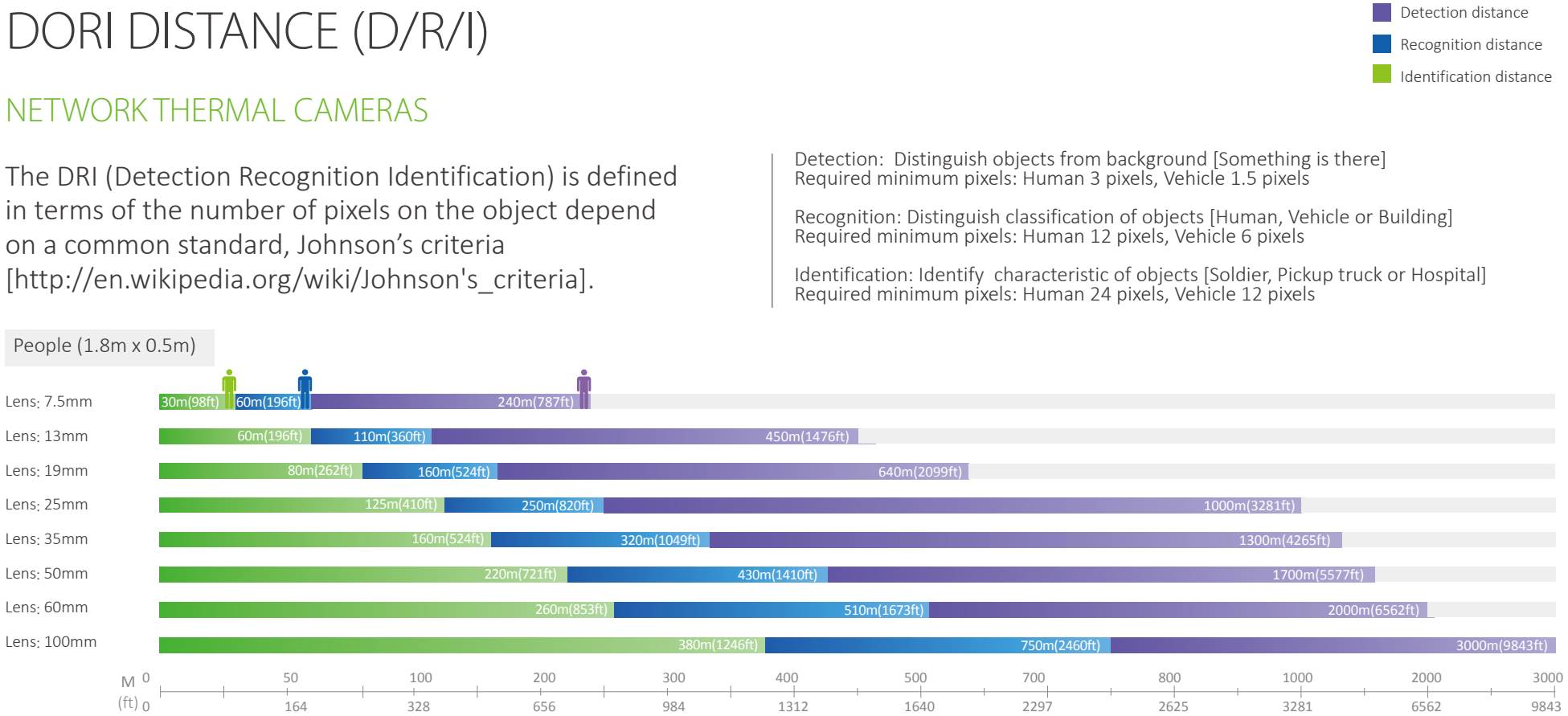
## NETWORK THERMAL CAMERAS

The DRI (Detection Recognition Identification) is defined in terms of the number of pixels on the object depend on a common standard, Johnson's criteria [http://en.wikipedia.org/wiki/Johnson's_criteria].

Detection: Distinguish objects from background [Something is there]
Required minimum pixels: Human 3 pixels, Vehicle 1.5 pixels

Recognition: Distinguish classification of objects [Human, Vehicle or Building]
Required minimum pixels: Human 12 pixels, Vehicle 6 pixels

Identification: Identify characteristic of objects [Soldier, Pickup truck or Hospital]
Required minimum pixels: Human 24 pixels, Vehicle 12 pixels



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* Design and specifications are subject to change without notice.

IP VIDEO PRODUCT SELECTION - 01, Feb 2019

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