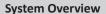


DH-IPC-HFW4631E-SE

6MP WDR IR Mini Bullet Network Camera







With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video analysis (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper

- · 1/2.9" 6Megapixel progressive scan STARVIS™ CMOS
- · H. 265&H.264 triple-stream encoding
- · 20fps@6MP(3072x2048), 25/30fps@4MP(2688x1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm optional)
- · Max. IR LEDs Length 40m
- · Micro SD Memory, IP67, PoE











detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity. An optional heater module extends the multi-sensor camera's temperature range to-40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

Protection (IP67, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



| Camera | | | | | | | |
|--|--------------------------|-----------------|--|---------------|-------------|----------|--|
| Mose Reduction 3 DN 3 D | Technical S | pecification | | | | | |
| Motion Detetion | Camera | | | | | | |
| Region of Interest | Image Sensor | | 1/2.9" 6Megapixel progressive scan CMOS | | | | |
| | Effective Pixels | | 3072(H) x 2048(V) | | | | |
| Electronic Shutter Speed | RAM/ROM | | 512MB/32MB | | | | |
| Electronic Shutter Speed | Scanning System | m | Progressive | | | | |
| Minimum Illumination | Electronic Shutter Speed | | Auto/Manual, 1/3(4)~1/100000s | | | | |
| | | | | | | | |
| IR Distance | Minimum Illumination | | | | | | |
| R LEDS | S/N Ratio | | More than 50dB | | | | |
| R On/Off Control | IR Distance | | Distance up to 40m (131ft) | | | | |
| Record Fixed | IR On/Off Contr | rol | Auto/ Manu | al | | | |
| Lens Ype Fixed Audio Mount Type Board-in Compression N/A Focal Length 2.8mm (3.6mm optional) Network Max. Aperture F1.6(F1.6) Ethernet R1-45 (Angle of View Angle of View H: 98' (99'), V. 67' (48') Ethernet R1-45 (Angle of View) Angle of View H: 98' (99'), V. 67' (48') Free Occording of Control Ethernet R1-45 (Angle of View) Close Control 5.8md Detect O.9m(1.7m) Interoperability O.NVIF, 1GMP; | IR LEDs | | 2 | | | | |
| Lens Type | Lens | | | | | | |
| Focal Length | Lens Type | | Fixed | | | | |
| Max. Aperture F1.6(F1.6) Ethernet RJ-45 (AB) Angle of View H:98° (69°), V:67° (48°) Ethernet RJ-45 (AB) Optical Zoom N/A Protocol FFP, Dr. Dr. PFP, Dr. PFP, Dr. Dr. Dr. PFP, Dr. | Mount Type | | Board-in | | | | |
| Ry | Focal Length | | 2.8mm (3.6r | mm optional) | | | |
| Angle of View H: 98* (69*), V: 67* (48*) HTTP; FTP; D Optical Zoom N/A Fixed Protocol FTP; D Close Focus Distance 0.9m(1.7m) Interoperability ONVIE, IGNMP; IGN | Max. Aperture | | F1.6(F1.6) | | | | |
| Fixed | Angle of View | | H: 98° (69°), V: 67° (48°) | | | | |
| Fixed | Optical Zoom | | N/A | | | | |
| Lens | Focus Control | | Fixed | | | | |
| DORI Distance 2.8 mm 69m(226ft) 28m(92ft) 14m(46ft) 7m(23ft) Max. User Access 10 User Access | Close Focus Dis | tance | 0.9m(1.7m) | | | | |
| 3.6 mm | | Lens | Detect | Observe | Recognize | Identify | |
| Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0'~360'; Tilt:0'~90'; Rotation:0'~360' Web Viewer Itelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Certifications Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 streams (3072×2048)/(3072×1728)/(2592×1944)/(2688×1520)/(2560×1440)/(2304×1296)/1080P(1920×1080)/(5XGA(1280×120)/101(704×576/704×480)/(2If(352×288/352×240)) Frame Rate Main Stream: D1(1~25/30fps) Main Stream: D1(1~25/30fps) Bit Rate Control Ceal Feder Storage Meb Viewer Management Software Smart Phone 10S, Arr Certifications Certifications Certifications Certifications Video Interface Video Interface N/A RS485 N/A Alarm N/A Frame Rate Electrical Power Supply DC12V Bit Rate Power Consumption https://doi.org/10.104/14.14/">https://doi.org/10.104/14.14/ Frame Rate 6.65W | DORI Distance | 2.8 mm | 69m(226ft) | 28m(92ft) | 14m(46ft) | 7m(23ft) | |
| Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0~360'; Tilt:0^~90'; Rotation:0^~360' Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Certifications Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 streams (3072×2048)/(3072×1728)/(2592×1944)/ (2688×1520)/(2560×1440)/ (2688×1520)/(2560×1440)/ (2688×1520)/(2180×1204)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) Frame Rate Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~25/30fps) Bit Rate Control Certifications Certifications Certifications Certifications Video Interface Video Interface N/A Audio Interface N/A Alarm N/A Flectrical Power Supply DC12v Bit Rate Power Consumption Alarm Power Consumption 4.55: 14K~9984Kbps | | 3.6 mm | 89m(292ft) | 36m(118ft) | 18m(59ft) | 9m(30ft) | |
| Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Smart Phone IOS, Ard Advanced Intelligent Functions Face Detection Certifications Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 Streams IOS (2688×1520)/(2560×1440)/ (2688×1520)/(2560 | Pan/Tilt/Rot | ation | | | | | |
| Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Smart Phone IOS, And Advanced Intelligent Functions Face Detection Certifications Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 Streams Interface Interface (3072×2048)/(3072×1728)/(2592×1944)/ (2688x1520)/(2568x1440)/ (2688x1520)/(2568x1440)/ (2688x1520)/(2568x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/(250x1440)/ (2688x1520)/(2560x1440)/ (2688x1520)/ (2688x1520)/(2560x1440)/ (2688x1520)/ (2688x1520)/(2560x1440)/ (2688x1520)/ (2688x1520)/ (2688x1520)/ (2688x1520)/ (2688x1520) | Pan/Tilt/Rotati | on Range | Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360° | | | | |
| No. Advanced Intelligent Functions Face Detection Certifications | Intelligence | | | | | | |
| Advanced Intelligent Functions Face Detection Certifications Video Certifications Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 Streams Interface Video Interface N/A Resolution Video Interface N/A Audio Interface N/A Audio Interface N/A RS485 N/A Audio Interface N/A RS485 N/A Alarm N/A Frame Rate Sub Stream: D1(1~25/30fps) Alarm N/A Electrical Bit Rate Control CBR/VBR Power Supply DC12v Bit Rate H.264: 24K ~ 10240Kbps Power Consumption <6.5W | | | Tripwire, Int | rusion, Obiec | t Abandoned | /Missing | |
| Video Certifications CE (ENULY) (EVENT OF COMMERCE OF COM | | igent Functions | | | | | |
| Compression H.265+/H.265/H.264+/H.264 FCC: FC Streaming Capability 3 Streams Interface (3072×2048)/(3072×1728)/(2592×1944)/ (2688×1520)/(2560×1440)/ (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Video Interface N/A RS485 N/A Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) Alarm N/A Frame Rate Sub Stream: D1(1~25/30fps) Electrical Bit Rate Control CBR/VBR Power Supply DC12V Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption <6.5W | | | | | | | |
| Streams | | | H.265+/H.26 | 65/H.264+/H. | 264 | | |
| Company | | bility | | | | | |
| Resolution (2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Audio Interface N/A RS485 N/A Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) Alarm N/A Frame Rate Sub Stream: D1(1~25/30fps) Electrical Bit Rate Control CBR/VBR Power Supply DC12V Bit Rate H.264: 24K~10240Kbps H.265: 14K~9984Kbps Power Consumption <6.5W | | | | | | | |
| 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) Frame Rate Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~25/30fps) Bit Rate Control CBR/VBR Power Supply DC12V Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption <a #"="" href="https://doi.org/10.1016/10.10</td><td>Resolution</td><td></td><td>(2304×1296</td><td colspan=5>(2304×1296)/1080P(1920×1080)/</td></tr><tr><td> Main Stream: 6MP (1~20fps), 4MP(1~25/30fps) Alarm N/A </td><td colspan=2></td><td colspan=4>960)/720P(1280×720)/D1(704×576/704×480)/</td></tr><tr><td>Frame Rate Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~25/30fps) Bit Rate Control CBR/VBR Power Supply DC12V Bit Rate H.264: 24K~10240Kbps H.265: 14K~9984Kbps Power Consumption Alarm N/A Electrical Power Supply C6.5W | Frame Rate | | | | | | |
| Third Stream: 1080P(1~25/30fps) Bit Rate Control CBR/VBR Power Supply DC12V Bit Rate H.264: 24K~10240Kbps H.265: 14K~9984Kbps Power Consumption <6.5W | | | | | | | |
| Bit Rate Control CBR/VBR Power Supply DC12V Bit Rate H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps Power Consumption <6.5W | | | | | | | |
| BIT Rate H.265: 14K ~ 9984Kbps | Bit Rate Control | | | | | | |
| H.265: 14K ~ 9984Kbps | Bit Rate | | • | | | | |
| | | | Auto(ICR) / Color / B/W | | | | |

Environmental

| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
|----------------------|---|
| Strorage Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | N/A |

Construction

| Casing | Metal |
|--------------|-------------------------------------|
| Dimensions | 180mm×70mm×70mm (7.09"×2.76"×2.76") |
| Net Weight | 0.41kg (0.91lb) |
| Gross Weight | 0.53 kg (1.17lb) |

| Ordering Information | | | | | |
|---------------------------|-----------------------------------|--|--|--|--|
| Туре | Part Number | Description | | | |
| | DH-IPC- HFW4631EP-SE- 0360B | 6MP IR Mini Bullet Network Camera, WDR, PAL | | | |
| | DH-IPC- HFW4631EN-SE- 0360B | 6MP IR Mini Bullet Network Camera, WDR,NTSC | | | |
| | IPC-HFW4631EP-SE- 0360B | 6MP IR Mini Bullet Network Camera, WDR,PAL | | | |
| 6MP camera | IPC-HFW4631EN-SE- 0360B | 6MP IR Mini Bullet Network Camera, WDR,NTSC | | | |
| | DH-IPC- HFW4631EP-SE- 0280B | 6MP IR Mini Bullet Network Camera, WDR, PAL | | | |
| | DH-IPC- HFW4631EN-SE- 0280B | 6MP IR Mini Bullet Network Camera, WDR,NTSC | | | |
| | IPC-HFW4631EP-S- 0280B | 6MP IR Mini Bullet Network Camera, WDR,PAL | | | |
| | IPC-HFW4631EN-SE- 0280B | 6MP IR Mini Bullet Network Camera, WDR,NTSC | | | |
| | PFA121 | Junction box | | | |
| Accessories (optional) | PFA152-E | Pole Mount | | | |
| | LR1002 | ePoE Over Coax Converter | | | |

Accessories

Optional:



PFA121 Junction Box





PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

| Junction Mount | Pole Mount |
|----------------|-------------------|
| PFA121 | PFB121 + PFA152-E |
| | |

Dimensions (mm/inch)

