Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area. It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Smart IR Technology
With IR illumination, detailed images can be captured in low light or total darkness. The camera’s Smart IR technology adjusts the intensity of camera’s infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera’s integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Protection (IP67, wide voltage)
The camera allows for ±25% 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.

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.

Image Flip
Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera’s image to be rotated in 90° increments for better video optimization.

Interoperability
The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.
## Technical Specification

### Camera
- **Image Sensor**: 1/2.7” 2Megapixel progressive CMOS
- **Effective Pixels**: 1920(H) x1080(V)
- **RAM/ROM**: 256MB/32MB
- **Scanning System**: Progressive
- **Electronic Shutter Speed**: Auto/Manual, 1/3~1/100000s
- **Minimum Illumination**: 0.08Lux/F2.0 (Color,1/3s,30IRE) 0.3Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0 (IR on)
- **S/N Ratio**: More than 50dB
- **IR Distance**: Distance up to 30m (98ft)
- **IR On/Off Control**: Auto/Manual
- **IR LEDs**: 12

### Lens
- **Lens Type**: Fixed
- **Mount Type**: Board-in
- **Focal Length**: 2.8 mm (3.6 mm optional)
- **Max. Aperture**: F2.0/F2.0
- **Lens Detect Observe Recognize Identify**
  - **DORI Distance**
    - 2.8 mm: 40(131ft) 16(52ft) 8(26ft) 4(13ft)
    - 3.6 mm: 53(174ft) 21(69ft) 11(36ft) 5(16ft)

### PTZ
- **Pan/Tilt Range**: Pan:0°~360°, Tilt:0°~90°; Rotation:0°~360°

### Intelligence
- **Event Trigger**: Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, illegal access, Storage anomaly
- **IVS**: Tripwire, Intrusion

### Audio
- **Compression**: N/A

### Network
- **Ethernet**: RJ-45 (10/100Base-T)
- **Protocol**: HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv6; DDoS; UPnP; NTP; Bonjour; IEEE 802.1x; Multicast; ICMP; IGMP; TLS
- **Interoperability**: ONVIF Profile S&G, API
- **Streaming Method**: Unicast / Multicast
- **Max. User Access**: 10 Users / 20 Users
- **Edge Storage**: NAS
- **Web Viewer**: IE, Chrome, Firefox, Safari
- **Management Software**: Smart PSS, DSS, DMSS
- **Smart Phone**: iOS, Android

### Certifications
- **Certifications**: CE (EN 60950:2000)
- **Interfaces**: UL:UL60950-1
- **Electrical**: FCC: FCC Part 15 Subpart B

### Video
- **Compression**: H.265/H.264H/MJPEG(Sub Stream)
- **Smart Codec**: Support H.265+/H.264+
- **Streaming Capability**: 2 Streams
- **Resolution**: 1080P(1920×1080) / 720P(1280×720) / CIF(352×288) / D1(704×576) / VGA(640×480) / CIF (352×288) / CIF (352×288)
- **Frame Rate**: Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: D1(1 ~ 25/30fps)
- **Bit Rate Control**: CBR/VBR
- **Bit Rate**: H.265: 12K ~ 6400Kbps H.264: 32K ~ 10240Kbps

### Day/Night
- **Day/Night**: Auto(ICR) / Color / B/W

### BLC Mode
- **BLC Mode**: BLC / HLC / DWDR

### White Balance
- **White Balance**: Auto/Natural/Street Lamp/Outdoor/Manual

### Gain Control
- **Gain Control**: Auto/Manual

### Noise Reduction
- **Noise Reduction**: 3D DNR

### Motion Detection
- **Motion Detection**: Off / On (4 Zone, Rectangle)

### Region of Interest
- **Region of Interest**: Off / On (4 Zone)

### Electronic Image
- **Electronic Image**: Support

### Smart IR
- **Smart IR**: Support

### Digital Zoom
- **Digital Zoom**: 16x

### Flip
- **Flip**: 0°/90°/180°/270°

### Mirror
- **Mirror**: Off / On

### Privacy Masking
- **Privacy Masking**: Off / On (4 Area, Rectangle)

### Power Supply
- **Power Supply**: DC12V, PoE (802.3af)(Class 0)

### Power Consumption
- **Power Consumption**: <5.5W
## Lite Series | DH-IPC-HDW1230S

### Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2MP camera</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DH-IPC-HDW1230SP</td>
<td>-0280B</td>
<td>2MP IR Eyeball Network Camera, 2.8mm, PAL</td>
</tr>
<tr>
<td>DH-IPC-HDW1230SN</td>
<td>-0280B</td>
<td>2MP IR Eyeball Network Camera, 2.8mm, NTSC</td>
</tr>
<tr>
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### Accessories (optional)

- PFA130-E: Junction box
- PFB203W: Wall mount
- PFA152-E: Pole mount

### Environmental

<table>
<thead>
<tr>
<th>Condition</th>
<th>Operating Conditions</th>
<th>Storage Conditions</th>
<th>Ingress Protection</th>
<th>Vandal Resistance</th>
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<td>N/A</td>
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### Construction

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<th>Material/Size</th>
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<td>Metal+Plastic</td>
</tr>
<tr>
<td>Dimensions</td>
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<tr>
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### Accessories

- Optional:
  - PFA130-E: Junction Box
  - PFB203W: Wall mount
  - PFA152-E: Pole mount

### Dimensions (mm/inch)

- Junction Mount: PFA130-E
- Pole Mount: PFB203W + PFA152-E

Visit www.dahuasecurity.com for more information.