# DH-SD60230T-HN

2MP 30x PTZ Network Camera

- 1/2.8” 2Megapixel Exmor CMOS
- Powerful 30x optical zoom
- Support Triple-streams encoding
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- Max 600°/s pan speed, 360° endless pan rotation
- IVS(Optional)
- Support PoE+
- IP67, IK10

## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD60 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 30x optical zoom. SD60 series PTZ is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

## Functions

Smart H.264+
Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

Environmental
With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection
This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Interoperability
The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.

## Technical Specification

| | | |
|---|---|---|
| Camera | | |
| Image Sensor | | 1/2.8" Exmor R CMOS |
| Effective Pixels | | 1920(H) x 1080(V), 2 Megapixels |
| RAM/ROM | | 256M/128M |
| Scanning System | | Progressive |
| Minimum Illumination | | Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6 |
| S/N Ratio | | More than 55dB |
| IR Distance | | N/A |
| IR On/Off Control | | N/A |
| IR LEDs | | N/A |
| Lens | | |
| Focal Length | | 4.5mm~135mm |
| Max. Aperture | | F1.6 ~ F4.4 |
| Angle of View | | H: 67.8° ~ 2.4° |
| Optical Zoom | | 30x |
| Focus Control | | Auto/Manual |
| Close Focus Distance | | 100mm~ 1000mm |
| PTZ | | |
| Pan/Tilt Range | | Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°,auto flip 180° |
| Manual Control Speed | | Pan: 0.1° ~300° /s; Tilt: 0.1° ~150° /s |
| Preset Speed | | Pan: 600° /s; Tilt: 500° /s |
| Presets | | 300 |
| PTZ Mode | | 5 Pattern, 8 Tour, Auto Pan ,Auto Scan |
| Speed Setup | | Human-oriented focal Length/ speed adaptation |
| Power up Action | | Auto restore to previous PTZ and lens status after power failure |
| Idle Motion | | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period |
| Protocol | | DH-SD, Pelco-P/D (Auto recognition) |
| Intelligence | | |
| Auto Tracking | | N/A |
| IVS (optional) | | Tripwire, Intrusion,Abandoned/Missing, Face Detection |
| Video | | |
| Compression | | H.264+/H.264 / MJPEG |
| Streaming Capability | | 3 Streams |
| Resolution | | 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) |
| Frame Rate | Main stream | 1080P/ D1 (1 ~ 25/30fps), 720P(1~50/60fps) |
| | Sub stream1 | D1/CIF(1 ~ 25/30fps) |
| | Sub stream2 | 720P/D1/ CIF (1 ~ 25/30fps) |

| | |
|---|---|
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264+/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps |
| Day/Night | Auto(ICR) / Color / B/W |
| Backlight Compensation | BLC / HLC / DWDR |
| White Balance | Auto,ATW,Indoor,Outdoor,Manual |
| Gain Control | Auto / Manual |
| Noise Reduction | Ultra DNR (2D/3D) |
| Motion Detetion | Support |
| Region of Interest | Support |
| Electronic Image Stabilization (EIS) | N/A |
| Defog | Support |
| Digital Zoom | 16x |
| Flip | 180° |
| Privacy Masking | Up to 24 areas |
| Audio | |
| Compression | G.711a/G.711u(32kbps)/PCM(128kbps) |
| Network | |
| Ethernet | RJ-45 (10/100Base-T) |
| Protocol | IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x |
| Interoperability | ONVIF, PSIA, CGI |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 20 users |
| Edge Storage | NAS (Network Attached Storage),Local PC for instant recording, 128GB |
| Web Viewer | IE10/Google/Firefox/Safari... |
| Management Software | Smart PSS, DSS |
| Smart Phone | iPhone, iPad, Android, Windows Phone |
| Certifications | |
| Certifications | CE: EN55032/EN55024/EN50130-4<br>FCC: Part15 subpartB,ANSI C63.4- 2014<br>UL: UL60950-1+CAN/CSA C22.2,No.60950-1 |
| Interface | |
| Video Interface | 1 |
| Audio Interface | 1/1 |
| RS485 | 1 |
| Alarm | 7/2 |
| Electrical | |
| Power Supply | AC24V/3A(±25%), PoE+(802.3at) |
| Power Consumption | 13W,20W (Heater on) |

| Environmental | |
|---|---|
| Operating Conditions | -40ºC ~ 70ºC (-40°F ~ +158°F) / Less than 90% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |
| **Construction** | |
| Casing | Metal |
| Dimensions | Φ222(mm) x 297(mm) |
| Net Weight | 6.2kg(13.67lb) |
| Gross Weight | 7.5kg(16.53lb) |

## Ordering Information

| Type | Part Number | Description |
|---|---|---|
| 2MP PTZ Camera | DH-SD60230T-HN | 2MP 30x PTZ Network Camera, PAL |
| | DH-SD60230TN-HN | 2MP 30x PTZ Network Camera, NTSC |
| | SD60230T-HN | 2MP 30x PTZ Network Camera, PAL |
| | SD60230TN-HN | 2MP 30x PTZ Network Camera, NTSC |
| Accessories | PFB303W | Wall Mount |
| | PFA111 | Mount Adapter |
| | AC24V/3A | Power Supply |
| | PFA140 | Power box |
| | PFB300C | Ceiling Mount |
| | PFA120 | Junction Box |
| | PFA150 | Pole Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet mount |

## Accessories

Included:

PFB303W
Wall Mount

PFA111
Mount Adapter

AC24V/3A
Power Supply

Optional:

PFA140
Power box

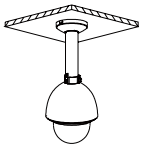
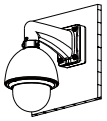
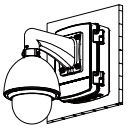
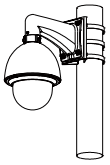
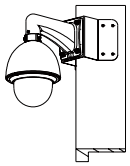
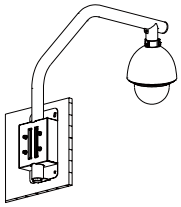
PFB300C
Ceiling Mount

PFA120
Junction Box

PFA150
Pole Mount

PFA151
Corner Mount

PFB303S
Parapet Mount

| Ceiling Mount | Junction Mount |
|---|---|
| PFA111 + PFB300C | PFA111 + PFB303W + PFA120 |
|  |  |
| **Power Box Mount** | **Pole Mount** |
| PFA111 + PFB303W + PFA140 | PFA111 + PFB303W + PFA150 |
|  |  |
| **Corner Mount** | **Parapet Mount** |
| PFA111 + PFB303W + PFA151 | PFA111+ PFB303S |
|  |  |

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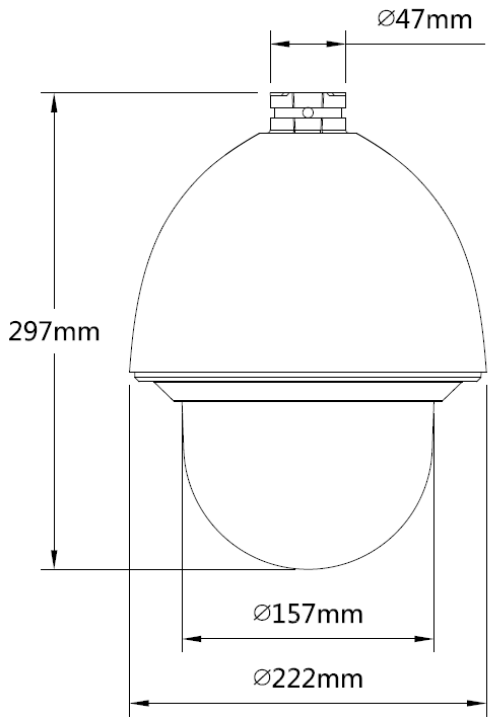
**Dimensions (mm)**





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