

SPRO[®]**IP**

AI
ARTIFICIAL
INTELLIGENCE

DHIPD80/28RG/50-M-I2

8MP IP Turret Camera with AI Technology



SMD 3.0
Smart Motion Detection 3.0

**PERIMETER
PROTECTION**

AUDIO
OVER CAT5e CABLE



Key Features:

- 8-MP 1/1.8" CMOS image sensor
- 8 MP (3840 (H) × 2160 (V)) @25/30fps
- AcuPick
- 2.8mm Lens
- Up to 50m IR distance
- SMD 3.0 (Smart motion detection 3.0)
- Intrusion (human & vehicle classification)
- Tripwire (human & vehicle classification)
- Microphone built-in (audio over CAT5e cable)
- 120dB WDR
- IP67 waterproof
- DC 12V/POE



SPECIFICATIONS

| | |
|------------------------|----------------------|
| Model Number | DHIPD80/28RG/50-M-I2 |
| Image Sensor | 1/1.8" CMOS |
| Max. Resolution | 3840 (H) × 2160 (V) |
| ROM | 4GB |
| RAM | 2GB |

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|-----------------------------------|---|
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s-1/100,00 s |
| Min. Illumination | 0.0008 lux@F1.6 (Colour, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) |
| S/N Ratio | >56 dB |
| Illumination Distance | 50 m (164.04 ft) (IR) |
| Illuminator On/Off Control | Auto; Manual |
| Illuminator Number | 2 (IR LED) |
| Angle Adjustment | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° |

Lens

| | |
|-----------------------------|---|
| Lens Type | Fixed-focal |
| Lens Mount | M16 |
| Focal Length | 2.8mm |
| Max. Aperture | F1.6 |
| Field of View | 111°; V: 59°; D: 131° |
| Iris Control | Fixed |
| Close Focus Distance | 2.8 mm: 1.8 m |
| | 2.8mm |
| DORI Distance | Detect: 85.4 m (280.18 ft) Observe: 34.2 m (112.20 ft) Recognise: 17.1 m (56.10 ft) Identify: 8.5 m (27.89 ft) |

| Intelligence | |
|-------------------------------|--|
| IVS | Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection |
| Smart Object Detection | Smart abandoned object; smart missing object |
| SMD | SMD 3.0 |
| AI SSA | Yes |
| Face Detection | Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting. |
| People Counting | Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management; generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management. |
| Heat Map | Yes |
| Video Metadata | Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle colour, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, colour, number of people, top type and colour, hat. Human body attributes: gender, top/bottom type and colour, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard. |
| Smart Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos. |
| Smart Sound Detection | Yes |

| Video | |
|---------------------------------|--|
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) |
| Smart Codec | Smart H.265+; Smart H.264+ |
| AI Coding | AI H.265+; Smart H.264+ |
| Video Frame Rate | Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–10 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Stream Capability | 4 streams |
| Resolution | 3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2560 × 1440; 2048 × 1535; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps |
| Day / Night | Auto(ICR)/Colour/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| Scene Self-adaptation | Yes |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control | Auto |
| Noise Reduction | 3D NR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Region of Interest (ROI) | Yes (4 areas) |
| Smart Illumination | Yes |
| Defog | Yes |
| Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower) |

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|----------------------------|---|
| Mirror | Yes |
| Privacy Masking | 8 areas |
| Audio | |
| Built-in MIC | Yes |
| Audio Compression | G.711a; G:711Mu; PCM; G.726; G.723 |
| Alarm | |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception |
| Network | |
| Network Port | RJ-45 (10/100 Enhancement Base-T) |
| SDK and API | Yes |
| Network Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P |
| Interoperability | ONVIF (Profile S / Profile G / Profile T); CGI |
| User / Host | 20 (Total bandwidth: 80M) |
| Storage | FTP; SFTP; Micro SD card (support max. 512 GB); NAS |
| Browser | IE; Chrome ; Firefox |
| Management Software | DMSS |
| Mobile Client | iOS; Android |
| Cyber Security | Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification |

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Certification

Certifications

CE-LVD: EN62368-1

CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

FCC: 47 CFR FCC Part 15, Subpart B

UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Port

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|---------------------|--|
| Audio Input | 1 channel (RCA port) |
| Audio Output | 1 channel (RCA port) |
| Alarm Input | 1 channel in: wet contact, 5mA 3V-5V DC |
| Alarm Output | 1 channel out: wet contact, 300mA 12V DC |

Power

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|--------------------------|--|
| Power Supply | 12 VDC/PoE (802.3af)/ePoE |
| Power Consumption | Basic: 4.1 W (12 VDC); 5.2 W (PoE);Max. (H.265+ WDR+ Intelligence on+IR on): 6.8 W (12 VDC); 8.8 W (PoE) |

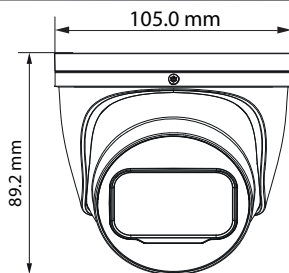
Environment

| | |
|------------------------------|--------------------------------------|
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Operating Humidity | ≤95% |
| Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Storage Humidity | 10%-95% (RH), non-condensing |
| Protection | IP67 |

Structure

| | |
|---------------------------|--------------------------------------|
| Casing Material | Metal |
| Product Dimensions | 99.1 mm × Φ121.9 mm (3.90" × Φ4.80") |
| Net Weight | 500 g (1.10 lb) |
| Gross Weight | 770 g (1.70 lb) |

Dimensions (mm[inch])



Accessories



BASE05-W



WALLBRACKET02-W



POLEBRACKET01



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