

**SPRO**<sup>®</sup>**IP**



# DHIPD40/28RW/50-M-I2

4MP IP Turret Camera with AI Technology



## Key Features:

- 4-MP 1/1.8" CMOS image sensor
- 4 MP (2688×1520) @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)
- 140dB WDR
- IP67 waterproof
- DC 12V/POE



## SPECIFICATIONS

<b>Model Number</b>	DHIPD40/28RW/50-M-I2
<b>Image Sensor</b>	1/1.8" CMOS
<b>Max. Resolution</b>	2688 (H) x 1520 (V)
<b>ROM</b>	4GB
<b>RAM</b>	1GB

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<b>Scanning System</b>	Progressive
<b>Electronic Shutter Speed</b>	Auto/Manual 1/3 s-1/100,00 s
<b>Min. Illumination</b>	0.0007 lux@F1.6 (Colour, 30IRE) 0.0004 lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)
<b>S/N Ratio</b>	>56 dB
<b>Illumination Distance</b>	50 m (164.04 ft) (IR)
<b>Illuminator On/Off Control</b>	Auto; Manual
<b>Illuminator Number</b>	2 (IR LED)
<b>Angle Adjustment</b>	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

## Lens

<b>Lens Type</b>	Fixed-focal
<b>Lens Mount</b>	M12
<b>Focal Length</b>	2.8mm
<b>Max. Aperture</b>	F1.6
<b>Field of View</b>	2.8 mm: H: 112°; V: 58°; D: 139°
<b>Iris Control</b>	Fixed
<b>Close Focus Distance</b>	2.8 mm: 1.3 m (4.27 ft)
	<b>2.8mm</b>
<b>DORI Distance</b>	Detect: 61.5 m Observe: 24.6 m Recognise: 12.3 m Identify: 6.2 m

Intelligence	
<b>IVS</b>	Intrusion, tripwire, fast moving ( the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering and parking detection
<b>Smart Object Detection</b>	Smart abandoned object; smart missing object
<b>SMD 3.0</b>	Less false alarm, longer detection distance
<b>AI SSA</b>	Yes
<b>Face Detection</b>	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.
<b>People Counting</b>	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.
<b>Heat Map</b>	Yes
<b>Video Metadata</b>	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.
<b>Smart Search</b>	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
<b>Smart Sound Detection</b>	Yes

Video	
<b>Video Compression</b>	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
<b>Smart Codec</b>	Smart H.265+; Smart H.264+
<b>AI Coding</b>	AI H.265+; Smart H.264+
<b>Video Frame Rate</b>	Main stream: 2688 × 1520 (1 fps–25/30 fps) / 1920 × 1080 (1 fps–50/60 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 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.
<b>Stream Capability</b>	4 streams
<b>Resolution</b>	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535); 3M (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)
<b>Bit Rate Control</b>	CBR/VBR
<b>Video Bit Rate</b>	H.264: 32 kbps–16384 kbps H.265: 12 kbps–11008 kbps
<b>Day / Night</b>	Auto(ICR)/Colour/B/W
<b>BLC</b>	Yes
<b>HLC</b>	Yes
<b>WDR</b>	140 dB
<b>Scene Self-adaptation</b>	Yes
<b>White Balance</b>	Auto; natural; street lamp; outdoor; manual; regional custom
<b>Gain Control</b>	Auto
<b>Noise Reduction</b>	3D NR
<b>Motion Detection</b>	OFF/ON (4 areas, rectangular)
<b>Region of Interest (ROI)</b>	Yes (4 areas)
<b>Smart Illumination</b>	Yes
<b>Defog</b>	Yes
<b>Image Rotation</b>	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower)

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<b>Mirror</b>	Yes
<b>Privacy Masking</b>	8 areas
<b>Audio</b>	
<b>Built-in MIC</b>	Yes
<b>Audio Compression</b>	G.711a; G:711Mu; PCM; G.726; G.723
<b>Alarm</b>	
<b>Alarm Event</b>	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
<b>Network</b>	
<b>Network Port</b>	RJ-45 (10/100 Enhancement Base-T)
<b>SDK and API</b>	Yes
<b>Network Protocol</b>	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
<b>Interoperability</b>	ONVIF (Profile S / Profile G / Profile T); CGI
<b>User / Host</b>	20 (Total bandwidth: 80M)
<b>Storage</b>	FTP; SFTP; Micro SD card (support max. 512 GB); NAS
<b>Browser</b>	IE; Chrome ; Firefox
<b>Management Software</b>	DMSS
<b>Mobile Client</b>	iOS; Android
<b>Cyber Security</b>	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 &amp; CAN/CSA C22.2 No. 62368-1-14

## Port

**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

**Power Supply** 12 VDC/PoE (802.3af)/ePoE

**Power Consumption** Basic: 4.3 W (12 VDC); 5.5 W (PoE);

Max. (H.265+ WDR+ Intelligence on+IR on): 8.2 W (12 VDC); 9.7 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

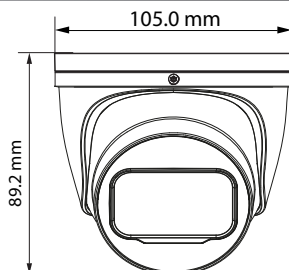
**Casing Material** Metal

**Product Dimensions** 89.2 mm × Φ105.0 mm

**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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