

SPRO[®]IP

DHIPD120/28LRW-M

12MP Smart Dual Illumination Fixed-focal
Eyeball Network Camera



COLOURNIGHT 2.0
SMART DUAL ILLUMINATION



12 MEGAPIXEL



2.8 MM



20m LED



30m IR



MICROPHONE



IP67

ONVIF

Key Features:

- H.265
- 12 Megapixel
- 2.8mm Fixed Lens
- Microphone built-in
- Classification of Human & Vehicle
- Warm Light Range: Up to 20m
- IR range: Up to 30m
- Perimeter Protection
- SMD+
- DWDR
- Metal Housing
- IP67 Waterproof



SPECIFICATIONS

Model Number	DHIPD120/28LRW-M
Image Sensor	1/2.5" CMOS
Max. Resolution	4480 (H) × 2512 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s

(continued)

Min. Illumination	0.008 lux@F1.6 (Colour, 30 IRE)
	0.0008 lux@F1.6 (B/W, 30 IRE)
	0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Warm Light: Up to 20 m (65.62 ft)
	Infrared: Up to 30 m (98.43 ft)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	2 (Multi-core (IR + warm) light)
Angle Adjustment	Pan: 0°–360°
	Tilt: 0°–78°
	Rotation: 0°–360°

Lens

Lens Type	Fixed-Focal
Lens Mount	M12
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View	H: 112°; V: 58°; D: 136°
Iris Control	Fixed
Close Focus Distance	3.5 m (11.48 ft)
DORI Distance	Detect: 98.9 m (324.48 ft)
	Observe: 39.6 m (129.92 ft)
	Recognise: 19.8 m (64.96 ft)
	Identify: 9.9 m (32.48 ft)
	*DORI (Detect, Observe, Recognise, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
SMD	SMD Plus
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)
Video Frame Rate	<p>Main stream:</p> <p>4480 × 2512@(1–15 fps)/3072 × 1728@(1–25 fps)</p> <p>Sub stream:</p> <p>704 × 576@(1–25 fps)/704 × 480@(1–25 fps)</p> <p>*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.</p>
Streaming Capability	2 streams
Resolution	<p>12M (4480 × 2512); 8M (3840 × 2160); 6M (3072 × 2048);</p> <p>5M (3072 × 1728/2880 × 1620); 4M (2688 × 1520);</p> <p>3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080);</p> <p>1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);</p> <p>VGA (640 × 480); CIF (352 × 288/352 × 240)</p>
Bit Rate Control	VBR;CBR
Video Bit Rate	<p>H.264: 32 kbps–8192 kbps;</p> <p>H.265: 12 kbps–8192 kbps</p>
Day/Night	Auto(ICR)/Colour/B/W

BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; Natural; Street Lamp; Outdoor; Manual; Regional; Custom
Gain Control	Manual;Auto
Noise Reduction	3D NR
Motion Detection	OFF / ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Smart Dual Light	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
LDC	Yes
Audio	
Built-in MIC	Yes, built-in Mic
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
Network	
Network Port	RJ-45 (10/100 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; PPPoE; P2P; Bonjour; Auto Registration

Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE; Chrome; Firefox
Management Software	Smart PSS Lite; DMSS
Mobile Client	iOS; Android
Security	Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade; Session security; Security warning

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU;
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Power

Power Supply	12 VDC (±30%); PoE (802.3af)
Power Consumption	Basic: 3.1 W (12 VDC); 3.5 W (PoE); Max.: 6.2 W (12 VDC); 7.8 W (PoE) (H.265+ intelligenceon + illuminator intensity)

Environment

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

Anti-corrosion Level	Basic Protection
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*The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.

Structure	
Casing Material	Metal
Product Dimensions	109.5 mm × Φ109.9 mm (4.31" × Φ4.33")
Net Weight	0.38 kg (0.84 lb)
Gross Weight	0.52 kg (1.15 lb)