



# DHIPD60/28LRW-M-E

6MP ColourNight 2.0 Smart Dual Illumination  
Fixed-focal Eyeball Network Camera

**COLOURNIGHT 2.0**  
SMART DUAL ILLUMINATION

**AOC**  
AUDIO OVER CAT5e



6 MEGAPIXEL



2.8 MM



30m LED



30m IR



MICROPHONE



IP67

## Key Features:

- 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3200 × 1800) @20 fps, and supports 2688 × 1520@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in Multi-core Light, the max. IR distance is 30 m and the max.warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Built in Microphone.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Supports human detection.



## SPECIFICATIONS

<b>Model Number</b>	DHIPD60/28LRW-M-E
<b>Image Sensor</b>	1/2.7" CMOS
<b>Max. Resolution</b>	3200 (H) × 1800 (V)
<b>ROM</b>	128MB
<b>RAM</b>	256MB
<b>Scanning System</b>	Progressive

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<b>Electronic Shutter Speed</b>	Auto/Manual 1/3 s-1/100,000s
<b>Min. Illumination</b>	0.007 lux@F1.6 (Colour, 30 IRE); 0.0007 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)
<b>S/N Ratio</b>	>56 dB
<b>Illumination Distance</b>	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)
<b>Illuminator On/Off Control</b>	Auto; Manual
<b>Illuminator Number</b>	1 (Multi-core (IR + warm light))
<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>	2.8mm: H:110°; V:58°; D: 132°
<b>Iris Control</b>	Fixed
<b>Close Focus Distance</b>	2.8mm: 1.1m (3.61 ft)
<b>DORI</b>	<b>Detect:</b> 63.6m (208.66 ft) <b>Observe:</b> 25.4m (93.33 ft) <b>Recognise:</b> 12.7m (41.67 ft) <b>Identify:</b> 6.4m (21.00 ft)

## Intelligence

<b>Human Detection</b>	Support the classification and accurate detection of human
<b>Smart Search</b>	Work together with smart NVR to perform refine intelligent search, event extraction and merging to event videos.

## 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+

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<b>Video Frame Rate</b>	Main stream: 3200 × 1800@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 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>	2 streams
<b>Resolution</b>	6M (3200 × 1800); 4M (2880 × 1620/2688 × 1520); 3M (2048 × 1536/2304 × 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>	VBR; CBR
<b>Video Bit Rate</b>	H.264: 32 kbps–8192 kbps; H.265: 12 kbps–8192 kbps
<b>Day / Night</b>	Auto(ICR)/ Colour / B/W
<b>BLC</b>	Yes
<b>HLC</b>	Yes
<b>WDR</b>	DWDR
<b>White Balance</b>	Auto; natural; street lamp; outdoor; manual; regional; custom
<b>Gain Control</b>	Auto / Manual
<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>Smart Dual Light</b>	Yes
<b>Image Rotation</b>	0°/90°/180°/270°  (Support 90°/270° with 2688 × 1520 resolution and lower)
<b>Mirror</b>	Yes
<b>Privacy Masking</b>	4 areas
<b>Audio</b>	
<b>Built-in Microphone</b>	Yes, built-in microphone
<b>Audio Compression</b>	G.711a; G.711Mu; PCM; G.726

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**Alarm**

<b>Alarm Event</b>	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception
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**Network**

<b>Network Port</b>	RJ-45 (10/100 Base-T)
<b>SDK and API</b>	Yes
<b>Network Protocol</b>	IPv4; IPv6; HTTP; TCP;UDP; ARP; RTP; RTCP; RTMP; SMTP; FTP DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
<b>Interoperability</b>	ONVIF (Profile S & Profile T); CGI
<b>User/Host</b>	20 ( Total bandwidth: 48M)
<b>Storage</b>	FTP
<b>Browser</b>	IE; Chrome; Firefox
<b>Management Software</b>	Smart PSS Lite; DMSS
<b>Mobile Client</b>	iOS; Android
<b>Cyber Security</b>	Video Encryption; Configuration; Encryption; Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; HTTPS; Trusted boot; Trusted execution; Trusted upgrade

**Certification**

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

<b>Power Supply</b>	12VDC/PoE (802.3af)
<b>Power Consumption</b>	Basic: 2 W (12 VDC), 2.9 W (PoE); Max. : 4 W (12 VDC); 5.3 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)

**Environment**

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

## Structure

**Casing Material**

Metal

**Product Dimensions**

85.6 mm ×  $\Phi$ 94.0 mm (3.37" ×  $\Phi$ 3.7")

**Net Weight**

0.34 kg (0.75 lb)

**Gross Weight**

0.45 kg (0.99 lb)

Dimensions (mm[inch])

