



4K/8MP Dual-Illumination Full-Colour Turret

CODE: EAGLE-8COL-TUR3-FW



- Max. 15 fps@4K.
- 120 dB true WDR, 3D NR.
- Smart Dual-Illumination.
- 40 m illumination distance.
- Super Adapt.
- Built-in MIC.
- 2.8mm fixed lens
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



Function

Wide Dynamic Range

With its advanced Wide Dynamic Range (WDR) technology, the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, including scenes with backlighting or shadows.

Broadcast-Quality Audio

The camera supports audio signal transmission over coaxial cables. It employs unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information collected. This is crucial for video surveillance applications that use audio information as supplementary evidence.

Smart Dual-Illumination

Featuring a smart dual-light mechanism, the camera automatically activates the white light when the Perimeter Protection/SMD Plus function of AI XVR detects a target in the designated area, capturing clear, vivid images. Once the target exits the area, the camera switches from white light to IR light, significantly reducing light pollution.

Super Adapt

Equipped with an intelligent algorithm, the camera automatically adjusts its parameters to deliver optimal performance and vivid images.

Advanced 3DNR

The camera's advanced 3DNR technology reduces image noise with minimal impact on image sharpness, especially in low-light conditions. It detects noise and compares sequential frames to effectively reduce it, also efficiently using bandwidth and saving storage space.

Protection (IP67, Wide Voltage)

IP67: The camera has passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, capable of functioning normally while submerged in 1 metre of water for up to 30 minutes. **Wide voltage:** The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for various outdoor scenarios.

4 Signals over 1 Coaxial Cable

The technology supports four signals (video, audio, data, and power) transmitted simultaneously over a coaxial cable. Dual-way data transmission allows the camera to interact with the XVR for actions such as sending control signals and triggering alarms. This technology also supports PoC, making the camera easy and quick to install.

Long Distance Transmission

The technology provides long-distance transmission in real-time without transmission loss. It supports transmission distances up to 700 metres for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 metres through UTP cables. These results were obtained and verified through rigorous testing.

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HD
ANALOGUE



Technical Overview

Camera

Image Sensor	4K CMOS
Max. Resolution	3840 (H) × 2160 (V)
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s
Min. Illumination	0.01 lux@F2.0 (Colour, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>65 dB
Illumination Distance	IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (Warm light); 2 (IR light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm
Max. Aperture	F2.0
Field of View	2.8 mm: H: 106°; V: 56°; D: 125°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	88 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)

Video	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (17.1 ft)

Video Frame Rate	CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4K@15 fps NTSC: 4K@15 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps CVBS: PAL: 960H NTSC: 960H
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Resolution	4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Colour/B/W
BLC	BLC; HLC; WDR; HLC-Pro
WDR	120 dB

White Balance	Auto; Area white balance
Gain Control	Auto/Manual
Noise Reduction	3D NR
Illumination Mode	Smart IR&WL; WL Mode; IR Mode
Defog	Electronic defog
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)

Certification

Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14
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Port

Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Audio Input	One channel built-in MIC

Power

Power Supply	12 VDC ± 30%
Power Consumption	Max 5.7 W (12 VDC, LED on)

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	Low

Structure

Casing Material	Metal
Product Dimensions	φ106.0 mm × 99.2 mm (φ4.17" × 3.91")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.69 kg (1.52 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

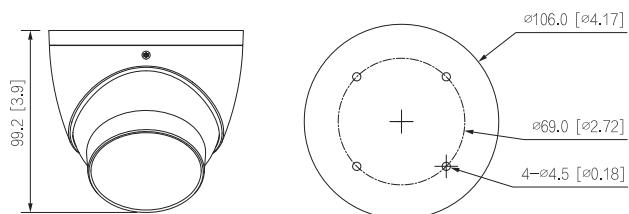
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Dimensions (mm/inch)



Accessories



RING-J1
Water-Proof
Junction Box



WALL-BK-W2
Wall Mount
Bracket