

Eyemax 1080P Starlight True WDR IR Dome Camera with 2.7-13.5mm Motorized Lens



Starlight • 120dB true WDR • 3DNR • Max 30fps@1080P • HD and SD output switchable • 2.7-13.5mm motorized lens • Max. IR length 30m • Smart IR • IP67 • IK10 • DC 12V

System Overview

Experience full HD 1080P video with the simplicity of using existing coaxial infrastructure. The starlight HDCVI camera presents high quality image with rich details even under extreme lowlight environment and

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supports 120dB true WDR. It offers various motorized/fixed lens models with multi-language OSD and HD/SD switchable output. The outstanding performance and true WDR feature make the camera an ideal choice for mid to large-size business and common projects where both highly reliable surveillance and construction flexibility are concerned.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility. * Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full HD video via coaxial cable, and up to 300m via UTP cable.* *Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Starlight

With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

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Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Eyemax advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820 (UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

Smart IR

The camera is designed with micro-crystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Eyemax unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Large Aperture Lens

The camera adopts high-end F1.6 large aperture lens. With higher amount of absorbed light, the camera presents an impressive lowlight performance.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected

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against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of $\sim 40^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$), the camera is designed for extreme temperature environments. Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

SPECIFICATIONS

Camera	
Image Sensor	1/2.8" CMOS
Effective Pixels	1937(H) \times 1097(V), 2.1MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/4s \sim 1/100000s NTSC: 1/3s \sim 1/100000s
Minimum Illumination	0.005Lux/F1.3, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 30m (98feet)
IR On/Off Control	Auto / Manual
IR LEDs	2
Lens	
Lens Type	Motorized lens / Fixed iris
Mount Type	Board-in
Focal Length	2.7 \sim 13.5mm
Max Aperture	F1.3
Angle of View	H: $102^{\circ} \sim 29^{\circ}$
Focus Control	Auto / Manual
Close Focus Distance	200mm 7.87"
DORI Distance	
Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676 \sim 4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.	

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		Distance	
		Wide	Tele
Detect	25px/m (8px/ft)	47m(154ft)	153m(502ft)
Observe	63px/m (19px/ft)	19m(62ft)	61m(200ft)
Recognize	125px/m (38px/ft)	9m(30ft)	31m(102ft)
Identify	250ppm (76px/ft)	5m(16ft)	15m(49ft)
Pan / Tilt / Rotation			
Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355°		
Video			
Resolution	1080P (1920 × 1080)		
Frame Rate	25/30fps@1080P, 25/30fps@720P		
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)		
Day/Night	Auto (ICR) / Manual		
OSD Menu	Multi-language		
BLC Mode	BLC / HLC / WDR		
WDR	120dB		
Gain Control	AGC		
Noise Reduction	2D / 3D		
White Balance	Auto / Manual		
Smart IR	Auto / Manual		
Certifications			
Certifications	CE (EN55032, EN55024, EN50130 ~ 4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4 ~ 2014) UL (UL60950 ~ 1+CAN/CSA C22.2 No.60950 ~ 1)		
Interface			
Audio Interface	N/A		
Electrical			
Power Supply	DC 12V±25%		
Power Consumption	Max 8W (12V DC, IR on)		

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Environmental	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67 & IK10
Construction	
Casing	Aluminium
Dimensions	Φ122mm × 88.9mm (Φ4.8" × 3.5")
Net Weight	0.48kg (1.06lb)
Gross Weight	0.63kg (1.39lb)