

OS-H2-BENS2M-PT | 2MP Starlight HDCVI PoC IR Bullet Camera



- Starlight, 120dB true WDR, 3DNR
- Max 30fps@1080P
- HD and SD output switchable
- 2.7-13.5mm motorized lens
- Max. IR length 60m, Smart IR
- IP67, PoC/DC12V



System Overview

Experience 1080P full HD video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Starlight HDCVI camera with 120dB true WDR presents a high quality image with rich details even in extreme low-light conditions. This model is a PoC camera which can be powered by PoC XVR or PoC transmitter over a single coaxial cable with video, requiring no separate power supplies. PoC reduces installation time and costs, making it an ideal choice for applications with complex deployment but a tight budget.

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. PoC power supply supports transmission distance up to 400m for 1080P via coaxial cable.*

*Actual results verified by real-scene testing in Osiris'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.

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. Osiris's 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. Please note that PoC can be supported only in the HDCVI video format.

Smart IR

The camera is designed with array LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Osiris's 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 F1.3 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 against water and dust with IP67, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °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.

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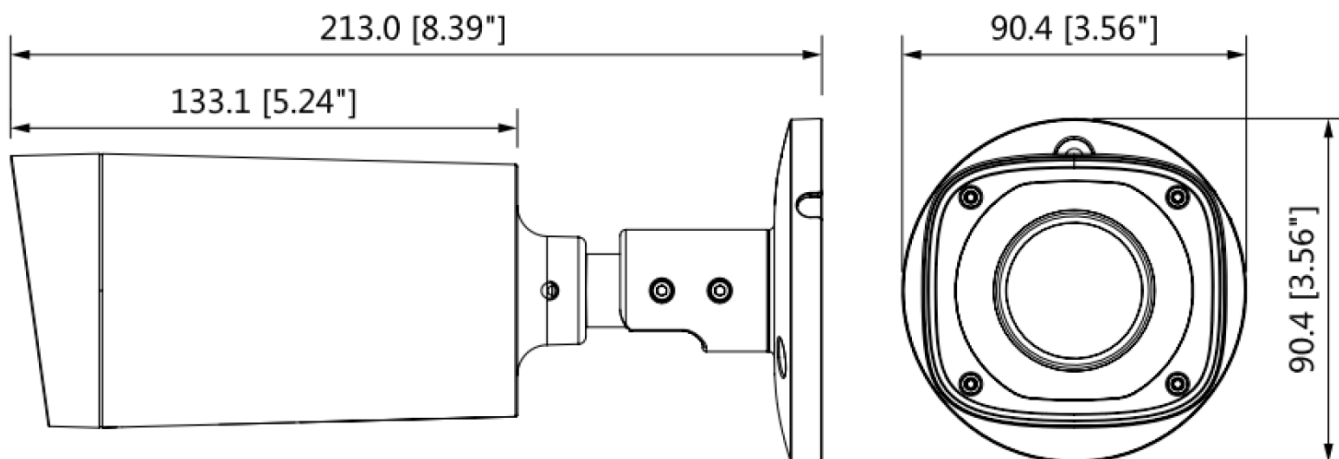
Technical Specifications

Camera					
Image Sensor		1/2.8" CMOS			
Effective Pixels		1937(H)×1097(V), 2.1MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/4s~1/100000s NTSC: 1/3s~1/100000s			
Minimum Illumination		0.005Lux/F1.3, 30IRE, 0Lux IR on			
S/N Ratio		More than 65dB			
IR Distance		Up to 60m (197feet)			
IR On/Off Control		Auto / Manual			
IR LEDs		4			
Lens					
Lens Type		Motorized lens / Fixed iris			
Mount Type		Board-in			
Focal Length		2.7-13.5mm			
Max. Aperture		F1.3			
Angle of View		H: 102°~29°			
Focus Control		Auto / Manual			
Close Focus Distance		200mm 7.87"			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	47m (153ft)	19m (61ft)	9m (31ft)	5m (15ft)
	T	153m (502 ft)	61m (201ft)	31m (100ft)	15m (50ft)
Pan / Tilt / Rotation					
Pan / Tilt / Rotation		Pan: 0° ~ 360° Tilt: 0° ~ 87° Rotation: 0° ~ 360°			
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	POC/12V DC ±25%
Power Consumption	Max 6.8W (12V DC, IR on)
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
Interface	
Casing	Aluminium
Dimensions	213.0mm×90.4mm×90.4mm (8.39"×3.56"×3.56")
Net Weight	0.63kg (1.39lb)
Gross Weight	0.76kg (1.68lb)

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Dimensions (mm/inch)



* The information contained in this document (photos, drawings, dimensions, specifications) may be subject to change without prior notice.

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