

HCC3320M-IR/28-V2

2MP HDCVI IR Turret Camera



System Overview

The ENS Diamond Series offers simple and highly cost-effective HDCVI solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving cost on both material and labor force. It is also designed and built to the specific standards of ENS.

Functions

Smart IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Long Distance Transmission

HDCVI technology provides long distance transmission in real-time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables.

- · Max. 30 fps@1080p
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- · Max. IR length 20 m, Smart IR
- IP67,12 VDC











Protection

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep 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 a variety of outdoor scenarios.

Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

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Technical Specification					
Camera					
Pixel		2 MP			
Image Sensor		2MP CMOS			
Max. Resolut	ion	1920 (H) × 10	80 (V)		
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1 NTSC: 1/30 s-			
Min. Illumination		0.04 lux@F2.0 (Color, 30 IRE) 0.004 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB	>65 dB		
Illumination Distance		20 m (65.62 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		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; 3.6 mm; 6 mm			
Max. Apertur	Max. Aperture		F2.0		
Field of View		2.8 mm: H: 100°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 42°; D: 98° 6 mm: H: 53°; V: 30°; D: 60°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.6 r 3.6 mm: 1.0 r 6 mm: 2.0 m	n (3.28 ft)		
	Lens	Detect	Observe	Recognize	Identify
DORI	2.8 mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)
Distance		CO O	24.2	122	C 4

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Distance

3.6 mm

6 mm

Video Frame Rate	CVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps TVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps AHD: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)
Day/Night	Auto (ICR)/Color/B/W
BLC	BLC; HLC; DWDR

60.9 m 24.3 m 12.2 m

82.8 m 33.1 m

(199.80 ft) (79.72 ft) (40.03 ft) (20.01 ft)

(271.65 ft) (108.60 ft) (54.46 ft) (27.23 ft)

16.6 m

6.1 m

8.3 m

WDR	DWDR
White Balance	Auto; Area white balance
Gain Control	Auto/Manual
Noise Reduction	2D NR
Smart Illumination	Yes
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)

Certification

	CE (EN55032:2015, EN61000-3-2:2014, EN61000-
Certifications	3-3:2013, EN55024:2010+A1:2015, EN55035:2017,
	EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017)
	FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)

Port

Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC
video Odtput	port

Power

Power Supply	12 VDC ± 30%
Power Consumption	Max. 2.7 W (12 VDC, IR 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)
Protection	IP67

Structure

Casing	Metal
Product Dimensions	Φ94 mm × 78 mm (Φ3.70" × 3.07")
Packaging Dimensions	109 mm × 109 mm × 85 mm (4.29" × 4.29" × 4.17")
Net Weight	0.27 kg (0.60 lb)
Gross Weight	0.32 kg (0.71 lb)
Installation	Wall mount; ceiling mount; horizontal pole mount

Accessories

Optional:



PFA13A-E Junction Box

Dimensions (mm[inch])



