

# HCC3I159TH-IRAPV/28

5MP Smart Dual Illuminators Active Deterrence HDCVI Bullet Camera



#### **System Overview**

The ENS Diamond Series offers a multi-dimensional system that links surveillance videos to alarms, audio prompts and various types of information to assist with verifying potential risks. Cameras in this series actively warn off intruders with light and sound, while keeping you up to date of events in real-time through alarm-over-coax and its live view.

#### **Functions**

## **Smart Dual Illuminators**

With its smart dual illumination mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in therule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR illuminator to significantly reduce light pollution.

#### **Protection Against Red-Blue Light Interference**

Leveraging smart exposure technology, the camera uses the CMOS image sensor to exercise time-sharing control over image capture and the red and blue lights to eliminate interference by switching off the lights when pictures are being taken.

### Active Deterrence(Red-blue Light)

Designed with active deterrence technology, the camera turns on a siren and a red-blue light that flashes in intervals to deter and warn off intruders. The siren has customizable settings.

#### **Wide Dynamic Range**

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

- · Max 25 fps@5 MP (16:9 video output).
- 120 dB true WDR, 3D NR.
- · Smart Dual Illuminators.
- · Protection Against Red-Blue Light Interference.
- · Active deterrence with red blue light, siren and alarm out interface.
- 40 m illumination distance.
- · Super Adapt.
- Built-in MIC.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.















#### **Broadcast-quality Audio**

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

#### **Super Adapt**

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

#### Advanced 3DNR

Advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

#### Protection (IP67, Wide Voltage)

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.

Technical Specification							WDR	120dB
Camera	•					l	White Balance	Auto; Area white balance
Pixel		5MP					Gain Control	Auto; manual
Image Sensor		5MP CMOS					Noise Reduction	3D NR
Max. Resolu	tion	2880 (H) × 1620 (V)					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Scanning Sys	stem	Progressive					Defog	Electronic defog
Electronic Sh	nutter Speed	PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					Digital Zoom	4×
		0.001 lux@F1.0 (Color, 30 IRE)					Mirror	Yes
Min. Illumination		0.0001 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Active Deterrence	
Illumination Distance		IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)					Sound Warning	Audio 1: Alarm Audio 2: No parking here Audio 3: Private land no entry. Audio 4: Warning zone keep off Audio 5: Welcome Volume: high/medium/low;
Illuminator On/Off Control								
Illuminator Number		2 (IR light)						
		2 (Warm light)						duration: 5 s–60 s; 110 dB
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					Red/Blue Light Warning	Flash: 5 s–60 s; frequency: high/medium/low
rany mity Notation Range		Rotation: 0°–360°					Certification	
Lens		Fixed-focal					Certifications	CE (EN55032:2015, EN61000-3-2:2014, EN61000- 3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017)
Lens Type  Lens Mount		M12						FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)
Focal Length		2.8 mm; 3.6 mm					Port	
Max. Aperture		F1.0					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Field of View		2.8 mm: H: 111°; V: 57°; D: 131°					Audio Input	one channel built-in MIC
Iris Control		3.6 mm: H: 89°; V: 47°; D: 104° Fixed					Alarm Output	1 channel
		2.8 mm: 1.5 m (4.92 ft)					Power	2 5.6.1.1.2.
Close Focus Distance Lens		3.6 mm: 2.2 m (7.22 ft)  Detect Observe Recognize Identify				Power Supply	12 VDC ± 30% (It is recommended to use a power adapter	
DORI Distance		66.0 m	26.4 m	13.2 m	6.6 m		Power Consumption	to supply the power for one camera)  Max 10.5W (12 VDC, IR on)
	2.8 mm	(216.54 ft) 78.0 m	(86.61 ft) 31.2 m	(43.31 ft) 15.6 m	(21.65 ft) 7.8 m		Environment	IVIAX 10.39V (12 VDC, IN OII)
	3.6 mm	(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)			
Video							Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Video Frame Rate		CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@30 fps; 4M@30 fps; 1080p@30 fps; AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps; TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps; CVBS: PAL: 960H; NTSC: 960H					Operating Humidity	<95% (RH), non-condensing
							Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
							Protection	IP67
							Structure	
							Casing Material	Metal front cover + plastic rear barrel + metal bracket
		5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)					Product Dimensions	240.7 mm × Φ90.7 mm (9.48" × Φ3.57")
Resolution							Packaging Dimensions	299 mm × 119 mm × 111 mm (11.77" × 4.69" × 4.37")
							Net Weight	0.48 kg (1.06 lb)
Day/Night		Auto (ICR)/Color/B/W					Gross Weight	0.74 kg (1.63 lb)
BLC		BLC; HLC; WDR; HLC-Pro					Installation	Wall mount; ceiling mount; vertical pole mount

## Accessories

## Optional:



PFA130-E Junction Box (For use alone or with PFA152-E)



PFA152-E Pole Mount Bracket (For use with PFA130-E)

## Dimensions (mm[inch])

