

HDEL-P2032X-IRW1

2MP 32x IR PTZ HD-AVS Camera



- 1/2.8" 2 Megapixel STARVIST™ CMOS
- Powerful 32x optical zoom, 4.5 mm–144 mm lens
- 120dB true WDR, 3D DNR
- Max. 25/30 fps@1080P, 25/30/50/60 fps@720P
- IR distance up to 492ft
- IP66, TVS 6KV lightning protection

System Overview

IC Realtime's HDEL-P2032X-IRW1 features a powerful 32x optical zoom and accurate pan/ tilt/ zoom performance in a tough, IP66 rated housing. The PTZ also features Starlight technology, enabling enhanced low-light imaging with a max IR distance of up to 492 feet (150m).

The camera delivers 1920x 1080P resolution at 30fps, with 120db WDR. The HDEL-P2032X series PTZ is also compatible with AVS/ AHD/ TVI and CVBS formats, making it suitable in a wide range of surveillance applications.

Functions

Simplicity

HD-AVS technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HD-AVS 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 Technology

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

The camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920 (H) × 1080 (V)
RAM/ ROM	256MB/ 16MB
Scanning System	Progressive
Electronic Shutter Speed	1/3 s–1/100000 s
Minimum Illumination	Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6 0 Lux@F1.6 (IR on)
IR Distance	150 m (492.13 ft)
IR On/Off Control	Auto/Manual
IR LEDs	4

Lens

Lens Type	4.5 mm–144 mm			
Max. Aperture	F1.6–F4.0			
Angle of View	H: 60.14°–2.75°; V: 34.41°–1.54°			
Optical Zoom	32x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto/Manual			
DORI Distance	Detect	Observe	Recognize	Identify
	6515ft	2575ft	1305ft	649ft

Pan/Tilt/Rotation

Pan/Tilt Range	Pan: 0°–360°; Tilt: -15°–+90°; auto flip 180°
Manual Control Speed	Pan: 0.1°–300%/s; Tilt: 0.1°–200%/s
Preset Speed	Pan: 400%/s; Tilt: 300%/s
Presets	300
Tour	8 (32 presets/ tour)
Pattern/ Scan	5 each
Speed Adjustment	Support
Power up Action	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	ICR-SD, Pelco-P/D (Auto recognition)

Video

Resolution	1080P (1920 × 1080); 720P (1280 × 720); D1 (704 × 576/704 × 480)
Frame Rate	1080P (25/30 fps); 720P (25/30/50/60 fps)
Supported Formats	AVS, TVI, AHD, CVBS (SD)
Day/Night	Supported
OSD Menu	Supported
BLC Mode	Supported
WDR	120dB
White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural/Street lamp

HLC	Supported
Gain Control	Auto / Manual
Noise Reduction	2D/3D
Defog	Support
Digital Zoom	16x
Flip	0°/180°
Privacy Masking	Up to 24 areas

Audio

Compression	G.711a; G.711Mu
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Certifications

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL62368-1+CAN/CSA C22.2.No. 62368-1
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Interface

Video Interface	1-channel BNC
Audio Interface	1 (Line In; bare wire)
RS485	1 (baud rate range: 1200 bps–9600 bps)
Alarm I/O	2/1

Electrical

Power Supply	DC24V/2.5A ± 25%
Power Consumption	Basic: 9.6W Max: 22W (IR light on, PTZ functions)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F)
Operating Humidity	≤ 95%RH
Ingress Protection	IP67
Lightning Protection	TVS 6000V lightning protection; surge protection

Construction

Casing	Metal
Dimensions	310.0 mm × Φ186.0 mm (12.20" × Φ7.32")
Net Weight	3.9 kg (8.60 lb)
Gross Weight	7.2 kg (15.87 lb)

Application

Dimensions (mm/in)

