



DH-ECA3A1404-HNR-XB-F

4MP 4x Explosion-proof IR WizMind Network Camera



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

System Overview

The product is equipped with neural network processor; it supports AI intelligent functions to effectively improve the detection accuracy, supports people, motor vehicle and non-motor capture, and supports perimeter protection.

Functions

PFA+ Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

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.

- 4MP 1/2.8" CMOS
- 4x optical zoom and 16x digital zoom
- Adopts anti-corrosion stainless steel 304, and 316L is customizable
- Starlight technology
- Max. 25/30 fps@4M
- IR distance up to 40 m
- SMD Plus
- Supports perimeter protection, smart capture, and face detection
- Optical Fiber



Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

SMD Plus

With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.

Wiz Mind | DH-ECA3A1404-HNR-XB-F

Technical Specification

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	4MP			
Max. Resolution	2560 (H) × 1440 (V)			
ROM	4 GB			
RAM	1 GB			
Electronic Shutter Speed	1/1 s-1/30000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 Lux@F1.8 B/W: 0.0005 Lux@F1.8 0 Lux (IR on)			
Illumination Distance	40 m (131.23 ft)			
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR/Off			
Illuminator Number	3 IR lights			
Lens				
Focal Length	2.8 mm–12 mm			
Max. Aperture	F1.8-F2.7			
Field of View	H: 42.8°–91.9° V: 23.8°–49.4° D: 49.1°–109.4°			
Optical Zoom	4x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	0.2 m–0.5 m (0.66 ft–1.64 ft)			
Iris Control	Fixed			
	Detect	Observe	Recognize	Identify
DORI Distance	240 m (787.40 ft)	95 m (311.68 ft)	48 m (157.48 ft)	24 m (78.74 ft)
PTZ				
Preset	300			
Power-off Memory	Support			
Idle Motion	Preset			
Artificial Intelligence				
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.			
Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.			
Face Detection	Support			
Video				
Compression	H.265; H.264B; H.264M; H.264H; MJPEG; H.265+; H.264+			
Streaming Capability	3 streams			
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)			

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Mobile Phone IOS; Android Certification CE: EN55032/EN55024/EN50130-4 Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 ATEX: II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db Port Extended IIC T6 Gb, Ex tb IIIC T80°C Db	Browser	Chrome 42 and earlier versions Firefox 52 and earlier versions	
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CertificationsFCC: Part15 subpartB, ANSI C63.4-2014 ATEX: II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db IECEx: Ex db IIC T6 Gb, Ex tb IIIC T80°C DbPort	Certification		
	Certifications	FCC: Part15 subpartB, ANSI C63.4-2014 ATEX: II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db	
Audio Input 1	Port		
	Audio Input	1	

Wiz Mind | DH-ECA3A1404-HNR-XB-F

Audio Output	1
Two-way Audio	Support
Alarm Linkage	Capture; preset; record; alarm digital output; audio; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; abnormal power supply detection
Optical Fiber	100M single fiber Transmission specification: 1310nm TX/1550nm RX Distance: 20 km (65616.80 ft)
Power	
Power Supply	DC12V/1.5A±10%
Power Consumption	Basic: 4W Max.: 9W (IR light on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤ 95%
Protection	IP68; TVS 6000V lightning proof; surge protection; voltage transient protection
Structure	
Casing	SUS304/SUS316L (customizable)
Dimensions	215 mm x 149 mm x 151 mm (8.46" × 5.87" × 5.94") (L × W × H)
Net Weight	3 kg (6.61 lb)
Gross Weight	6.3 kg (13.89 lb)

Accessories

Optional:



DH-EXB109

Wall Mount Bracket

CZ300

Junction Box

(ATEX/IECEx)



DH-ZAZ100W

Universal Joint

ZAEX02

Connector

(ATEX/IECEx)



DC12V/1.5A Power Adapter



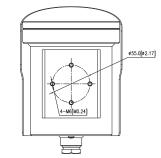
ZANXG

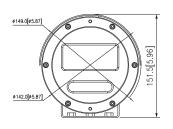
Flexible Tube

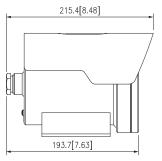
(ATEX/IECEx)

Wall Mount DH-EXB109+DH-ZAZ100W

Dimensions(mm[inch])







Ordering Information

Туре	Model	Description
4MP WizMind Network Camera	DH-ECA3A1404- HNR-XB-F	4MP 4x Explosion-proof IR WizMind Network Camera,PAL
	DH-ECA3A1404N- HNR-XB-F	4MP 4x Explosion-proof IR WizMind Network Camera,NTSC
D Accessories C Z	DH-EXB109	Wall Mount Bracket
	DH-ZAZ100W	Universal Joint
	DC12V/1.5A	Power Adapter
	CZ300	Junction Box (ATEX/IECEx)
	ZAEX02	Connector (ATEX/IECEx)
	ZANXG	Flexible Tube (ATEX/IECEx)