Eyemax E4152 AI Series | 4MP Outdoor IR Dome Network Camera, H.265+, IP67, Fixed Lens, True WDR (140dB), DC 12V or PoE, Vandal-Resistant



Face Capture, Perimeter Protection and People Counting functions • 1/1.8" Progressive Scan CMOS • 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080) • 2.8mm Lens • H.265 & H.264 triple-stream encoding • WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC • Up to 164ft (50m) IR Range • PoE (Power over Ethernet) • IP67 + IK10 Metal Body • 1/1 Alarm in/out, 1/1 audio in/out • Micro SD Memory slot available.

Mount Accessories

Wall Mount Bracket	**CWB-E203W**
Junction Box	**CJB-E137**

AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Pro AI series contains Face Capture, Perimeter Protection and People Counting functions.Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Perimeter Protection

Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals’ entrance and exit with up to 95% counting accuracy.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for

analysis.

ePoE technology

The ePoE technology, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

SPECIFICATIONS

Camera	
Image Sensor	1/1.8" 4Megapixel progressive scan CMOS
Effective Pixels	2688(H) × 1520(V)
RAM/ROM	512MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto / Manual, 1/3 ~ 1/100,000s
Minimum Illumination	0.002 Lux@F1.6
IR Distance	Distance up to 50m (164ft)
IR On/Off Control	Auto / Manual
IR LEDs	1
Lens	

Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm
Max. Aperture	F1.6
Angle of View	H: 113° V:60°
Aperture Type	Fixed
Close Focus Distance	1.3m(4.27ft)
DORI Distance	Detect: 58m(190ft) Observe: 23m(75ft) Recognize: 12m(39ft) Identify: 6m(20ft)
Pan / Tilt / Rotation	
Pan/Tilt/Rotation Range	Pan:0° ~ 355° Tilt:0° ~ 75° Rotation:0° ~ 355°
Artificial Intelligence	
Face Detection	Support face image capture
Perimeter Protection	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
General Intelligence	
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly
General Intelligence	Object Abandoned/Missing
Heat Map	Yes
Video	
Compression	H.265 / H.264 / H.264B / H.264H / MJPEG (sub stream)
Smart Codec	Yes
Streaming Capability	3 Streams
Resolution	2688 × 1520 / 2304 × 1296 / 1080P(1920 × 1080) / 1.3M(1280 × 960) / 720P(1280 × 720) / D1(704 × 576/704 × 480) / VGA(640 × 480) / CIF(352 × 288 / 352 × 240)

Main Stream Frame Rate	2688 × 1520 (1 ~ 25/30fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Sub Stream Frame Rate	D1 (1 ~ 25/30fps) D1 (1 fps–50/60 fps)
Third Stream Frame Rate	1080P (1 ~ 16fps)
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 32 ~ 8192Kbps H.265: 19 ~ 8192Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR (140 dB)
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	Support
Flip	0° / 90° / 180° / 270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	G.711a / G.711Mu / G.726 / AAC / G.723
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4 / IPv6 / HTTP / HTTPS / TCP / UDP / ARP / RTP / RTSP / RTCP / RTMP / SMTP / FTP / SFTP / DHCP / DNS / DDNS / QoS / UPnP / NTP / Multicast / ICMP / IGMP / NFS / PPPoE / 802.1x / SNMP
Interoperability	ONVIF (Profile S / Profile G / Profile T) / CGI / Milstone / Genetec / P2P
Streaming Method	Unicast / Multicast
Max. User Access	20 Users

Edge Storage	NAS / FTP / SFTP / Mirco SD card 256GB
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	Smart PSS, DSS, DMSS
Smart Phone	iOS, Android
Certifications	
Certifications	CE-LVD: EN60950-1M CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Interface	
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Electrical	
Power Supply	DC 12V (±30%), PoE(802.3af) (Class 0)
Power Consumption	<6.1W(IR on)
Environmental	
Operating Conditions	−30° C ~ +60° C (−22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	−30° C ~ +60° C (−22° F ~ +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ122mm × 88.9mm (4.80" × 3.50")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.63Kg (1.39lb)