

CAM-5541 5MP WDR IR Eyeball AI Network Camera



\cdot 1/2.7" 5Megapixel progressive scan CMOS

- · H.265 & H.264 triple-stream encoding
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)
- · Built-in MIC

201

- \cdot Max. IR LEDs Length 50 m
- · Micro SD memory, IP67



System Overview

Pro AI series contains Face Detection, 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 standard.

Functions

Face Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter Protection

Dahua's 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.

Protection(IP67, wide voltage)

The camera allows for $\pm 30\%$ 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), the camera is the choice for installation in even the most unforgiving environments.

ePoE technology

The ePoE technology of Dahua, 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.



Pro Al Series |CAM-5541

Technical Specification

C.

Smart Codec

Streaming Capability

Camera						
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS				
Effective Pixels		2592 (H) × 1944 (V)				
RAM/ROM		512 MB/128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s				
Minimum Illumination		0.005 Lux@F1.6				
IR Distance		Distance up to 50 m (164 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs		2				
Lens						
Lens Type		Fixed-focal				
Mount Type		Board-in				
Focal Length		2.8 mm, 3.6 mm, 6.0 mm				
Max. Aperture		F1.6				
Angle of View		H: 102°, V: 71°/H: 84°, V: 58°/H: 51°, V: 37°				
Aperture Type		Fixed				
Close Focus Distance		0.9 m (2.95 ft)/1.6 m (5.25 ft)/3.1 m (10.17 ft)				
	Lens	Detect	Observe	Recognize	Identify	
	2.8mm	56m(184ft)	22m(72ft)	11m(36ft)	6m(20ft)	
DORI Distance	3.6mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)	
	6.0mm	120m(394ft)	48m(157ft)	24m(79ft)	12m(39ft)	
Pan/Tilt/Rota	ation					
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°				
Artificial Inte	lligence					
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 Intel	ligence					
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)				

Yes

3 Streams

Resolution	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 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: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)		
Frame Rate	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)		
	Third Stream: 1080P (1 fps-17 fps)		
Bit Rate Control	CBR/VBR		
Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC Mode	BLC/HLC/WDR (120 dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	Off/On (4 Zone, Rectangle)		
Region of Interest	Off/On (4 Zone)		
Electronic Image Stabilization (EIS)	N/A		
Smart IR	Yes		
Defog	Yes		
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 (10/100 Base-T)		
Protocol	IPv4;IPv6;HTTP;HTTP5;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 Micro SD card 256 GB		
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: EN60950-1 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		

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Interface

Gross Weight

Interface					
Audio Interface	Built-in MIC				
RS485	N/A				
Alarm	N/A				
Electrical					
Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)				
Power Consumption	<7.2W				
Environmental					
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH				
Storage Conditions	-30° C to +60° C (-22° F to +140° F)				
Ingress Protection	IP67				
Construction					
Casing	Metal				
Dimensions	Φ106 mm × 93.6 mm (4.17" × 3.69")				
Net Weight	0.55 kg (1.21 lb)				

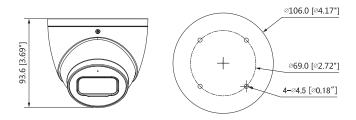
0.71 kg (1.57 lb)

Accessories Optional:



Junction Mount	Corner Mount	
Wall Mount	Ceiling Mount	
Ceiling Mount	Pole Mount	

Dimensions (mm[inch])





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