LTDHIP3542W-28/36ISMLC

4MP WDR Eyeball AI Network Camera



System Overview

Pro Al 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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (Electronic), 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
- · Max. LEDs Length 20 m
- · Micro SD memory, IP67











Full-color Starlight

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With two warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total darkness. It also provides visible By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

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.



Technical Specification						2688 × 1520/2560 × 1440/2304 × 1296/1080P		
Camera						Resolution	(1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF	
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS						(352 × 288/352 × 240)
Effective Pixels		2688 (H) × 1520 (V)					Main Stream: 2688 × 1520 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)	
RAM/ROM		512 MB/128 MB					Frame Rate	
Scanning System		Progressive						Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s						Third Stream: 1080P (1 fps–16 fps)
Minimum Illumination		0.002 Lux@F1.6					Bit Rate Control	CBR/VBR
LED Distance		Distance up to 20 m (66 ft)					Bit Rate	H.264: 32 Kbps-8192 Kbps
LED On/Off Con	trol	Auto/Manual					Sichate	H.265: 19 Kbps-8192 Kbps
LEDs		2					Day/Night	Day/Night: Electronic Auto/Color/B/W
Lens							BLC Mode	BLC/HLC/WDR (140 dB)
Lens Type		Fixed-focal					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Mount Type		Board-in					Gain Control	Auto/Manual
Focal Length		2.8 mm, 3.6 mm, 6.0 mm					Noise Reduction	3D DNR
Max. Aperture		F1.6					Motion Detection	Off/On (4 Zone, Rectangle)
Angle of View		H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°					Region of Interest	Off/On (4 Zone)
Aperture Type		Fixed	Fixed				Electronic Image Stabilization (EIS)	N/A
Close Focus Dist	tance	1.3 m (4.27 ft	t)/1.9 m (6.23	ft)/3.8 m(12	47 ft)		Smart IR	Yes
	Lens	Detect	Observe	Recognize	Identify		Defog	Yes
DORI Distance	2.8mm	58m(192ft)	23m(75ft)	12m(39ft)	6m(20ft)		Flip	0°/90°/180°/270°
	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)		Mirror	Off/On
							Privacy Masking	Off/On (4 Area, Rectangle)
Pan/Tilt/Rota	tion						Audio	
Pan/Tilt/Rotatio	on Range	Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360°					Compression	G.711a, G.711Mu, G.726, AAC, G.723
Artificial Intel	ligence							,,,,
Face Detection		Support face image capture					Network	21.45/42/422
Perimeter Prote	ection	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking					Ethernet	RJ-45 (10/100 Base-T)
Perimeter Protection		detection and people gathering Support Line crossing/Region/Queueing people					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;PPP0E;802.1x;SNMP
People Counting		counting; Support 4 accesses independent detection, 4 areas independent detection					Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
General Intelligence		Motion detection, Video tampering , Scene					Streaming Method	Unicast/Multicast
Event Trigger		changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly					Max. User Access	20 Users
General Intelligence		Object Abandoned/Missing					Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Heat Map		Yes					Web Viewer	IE (versions newer than IE8), Chrome,
Video		H.265,H.264,H.264B,H.264H,					web viewer	Firefox, Safari (versions newer than Safari 12)
Compression		MJPEG (sub stream)					Management Software	Smart PSS, DSS, DMSS
Smart Codec		Yes					Smart Phone	iOS, Android
Streaming Capa	3 Streams					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

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 × 99.2 mm (4.17" × 3.91")
Net Weight	0.55 kg (1.21 lb)
Gross Weight	0.71 kg (1.57 lb)

Ordering Information				
Туре	Part Number	Description		
4MP	LTDHIP3542W-28ISMLC	4MP WDR Eyeball Al Network Camera, WDR, PAL		
Camera	LTDHIP3542W-36ISMLC	4MP WDR Eyeball Al Network Camera, WDR, PAL		

Accessories

Optional:





PFA130-E Junction box

PFB204W Wall Mount

Junction Mount	Wall Mount
PFA130-E	PFB204W

Dimensions (mm[inch])



