



DAS-SD8045-LA-500

4MP 45x Starlight Laser WizMind Network PTZ 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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

Functions

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 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Video Metadata

Support human, motor vehicle and non-motor vehicle image capture.

Perimeter Protection

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

- · 1/2.8" 4Megapixel CMOS
- · Powerful 45x optical zoom
- · Starlight technology
- · Max. 25/30 fps@4MP
- · Deep-learning-based auto tracking and perimeter protection
- · Support face detection
- · Laser distance up to 550m
- · Support Hi-PoE
- · SMD PLUS
- · IP67















Face Detection

6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard; Face matting setting: face, single inch photo; Three snapshot methods: real-time snapshot, priority snapshot, quality priority.

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.

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.

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 vehicles intrude.

Ingress Protection

IP67; TVS 8000V lightning proof; Surge protection.



Technical Specification				General Intelligence		
Camera			Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly		
Image Sensor	1/2.8" CMO	1/2.8" CMOS			IVS	Object abandoned/missing
Pixel	4MP	4MP			Artificial Intelligence	
Max. Resolution	2560 (H) × 1	440 (V)			Smart Capture	Support human, motor vehicle and non-motor vehicle
ROM	4GB				Smart Capture	image capture.
RAM	1GB				Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
Electronic Shutter Speed	1/1 s-1/300	1/1 s-1/30000 s				lights, etc.
Scanning System	Progressive	Progressive			Face Detection	Support
Color: 0.005Lux@F1.6 Min. Illumination B/W: 0.0005Lux@F1.6			SMD PLUS	Support		
Will. Illumination	B/W: 0.0005Lux@F1.6 OLux (Laser on)				Auto Tracking	Support
Illumination Distance	550 m (1804	550 m (1804.46 ft)			Video	
Illuminator On/Off Control	Zoom Prio/N	Zoom Prio/Manual/SmartIR/Off			Compression	H.265; H.264B; H.264M; H.264H; H.264; MJPEG; MPEG4; H.265+; H.264+; MJPEG (sub stream)
Illuminator Number	2 IR lights 1 Laser				Streaming Capability	3 streams
Wiper	Support	Support			Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 720P (1280 × 960); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Lens						Main stream: 4M/3M (1–25/30 fps), 1080P/1.3M/720P
Focal Length Max. Aperture	3.95 mm-17 F1.6-F4.9	3.95 mm–177.7 mm			Frame Rate	(1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P (1–25/30 fps), 720P (1–25/30 fps)
Field of View		H: 70.3°–1.8°; V: 37°–1°; D: 69.3°–2°			Bit Rate Control	Variable/Constant
Optical Zoom	45x					Main stream with default resolution:
Focus Control		Auto/Semi-Auto/Manual			Bit Rate H.264:	1.264: 3 Kbps–20480 Kbps 1.265: 3 Kbps–20480 Kbps
Close Focus Distance		0.01 m-3 m (0.03 ft-9.84 ft)			Day/Night	Auto (ICR)/Color/B/W
Iris Control	Auto					
in a control	Detect	Observe	Recognize	Identify	BLC	Support
DORI Distance				, , , , , , , , , , , , , , , , , , ,	WDR	120dB
	3554 m (11660.10 ft)	1421.6 m (4664.04 ft)	710.8 m (2332.02 ft)	355.4 m (1166.01 ft)	HLC	Support Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/
PTZ					White Balance	Natural light/Street lamp
Pan/Tilt Range	Pan: 0°-360				Gain Control	Auto/Manual
T.	Tilt: -20°-+90°, auto flip 180°				Noise Reduction	2D/3D
Manual Control Speed		Pan: 0.1°–200°/s Tilt: 0.1°–120°/s			Motion Detection	Support
Preset Speed	Pan: 240°/s; Tilt: 200°/s				Region of Interest (RoI)	Support
Presets	300				Image Stabilization	Electronic
Tour	8 (up to 32 presets per tour)				Defog	Digital
Pattern	5				Digital Zoom	16x
Scan	5				Flip	180°
Power-off Memory	Support				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Idle Motion	Preset/Tour/Pattern/Scanning				Audio	
Protocol	DH-SD Pelco-P/D (auto recognition)				Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723

Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPOE; ARP; RTCP
Interoperability	ONVIF Profile S&G&T CGI
Streaming Method	Unicast/Multicast
User/Host	19
Storage	FTP; Micro SD card (256G); P2P
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS
Mobile Phone	IOS; Android
Certification	
Certifications	CE: EN62368-1; EN55032; EN61000-3-2; EN61000-3-3; EN55024; EN55035; EN50130-4 FCC: 47 CFR FCC Part15, SubpartB, ClassA; ANSI C63.4: 2014
Port	

Ordering Information			
Туре	Model	Description	
4MP WizMind PTZ Camera	DAS-SD8045-LA-500	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, PAL	
	DAS-SD8045-LA-500	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, NTSC	
	DAS-SD8045-LA-500	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, PAL	
	DAS-SD8045-LA-500	4MP 45x Starlight Laser WizMind Network PTZ Camera, WDR, NTSC	
	PFB303W	Wall Mount Bracket	
	PFA111	Mount Adapter	
	DC36V/2.23A	Power Adapter	
	PFA140	Power Box	
Accessories	PFB300C	Ceiling Mount Bracket	
	PFA120	Junction Box	
	PFA150	Pole Mount Bracket	
	PFA151	Corner Mount Bracket	
	PFB303S	Parapet Mount Bracket	

RS-485	1 (Baud rate range: 1200 bps-115200 bps)	
1/3-403	1 (badd rate range, 1200 bps-113200 bps)	

Audio Input	1
Audio Output	1
Alarm I/O	7/2

Power

Power Supply	DC36V/2.23A (-5% to +10%); HI-PoE
Power Consumption	Basic: 20W Max.: 36W (IR light and PTZ on at minimum voltage)

Environment

Operating Temperature	-40°C ~ 70°C (-40°F to 158°F)
Operating Humidity	≤95%
Protection	IP67; TVS 8000V lightning proof; Surge protection; Voltage transient protection

Structure

Casing	Metal
Dimensions	382 mm × Φ240 mm (15.04" x Φ9.45")
Net Weight	6.8 kg (14.99 lb)
Gross Weight	9.2 kg (20.28 lb)

Accessories

Included:



PFB303W Wall Mount Bracket



PFA111 Mount Adapter



DC36V/2.23A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



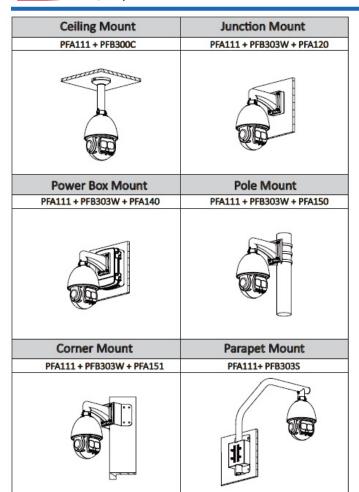
PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



Dimensions (mm[inch])

