

DHE8800600

8MP 48x Starlight Laser AI Network Positioning System



Wiz Mind

- 1/1.8" 8MP CMOSSTARVIS™
- 48x Zoom Optical
- Starlight Technology
- Max. 25/30 fps at 8m Laser
- distance up to 1000m
- H.265 encoding
- Two-way audio
- IP67
- Automatic tracking
- Perimeter protection
- Facial recognition
- Optical fiber

System Overview

The Dahua AI series products incorporate the most advanced AI technologies, including deep learning algorithms focused primarily on people and vehicles, providing greater flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as facial recognition, ANPR, metadata, people counting, and traffic statistics. The full Dahua AI range includes network cameras (PTZ), network video recorders, servers, and more. In addition to seeing the world, the power of AI enables devices to perceive their surroundings and better understand the world.



Environment (-40°C to +70°C, IP67)

Designed to operate in extreme conditions, the Dahua camera can operate in temperatures ranging from -40°C to +70°C (-40°F to +158°F) with 95% humidity. It has undergone rigorous water and dust immersion tests, earning an IP67 rating, making it ideal for demanding outdoor applications.

Functions

Perimeter protection

Automatically filters out false alarms caused by animals, rustling leaves, lights bright and more, and uses secondary reconnaissance during target detection to improve alarm accuracy.

Starlight Technology

For low-light conditions, Dahua's Starlight Ultra Low Light technology offers the best light sensitivity, capturing colors in great detail even in illumination as low as 0.005 lux. The camera uses a suite of optical functions to balance light across the entire scene, producing sharp images in dark environments.

PFA Technology

PFA technology has introduced new evaluation methods that ensure the precision and predictability of the subject distance adjustment direction. The result is a set of advanced focusing algorithms that ensure the clarity of the image when using the zoom and shorten the focusing time. This makes the camera very advanced in its functions, substantially improving the quality of your experience.

Automatic tracking

This function controls the pan, tilt and zoom actions of the camera to automatically track a moving object and keep it in view. Tracking can be activated manually or automatically by defined rules. Once activated a rule, the camera can zoom and automatically follow the defined target.

H.265+ Smart

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

Scenes

The Dahua AI PTZ network camera incorporates advanced CNN deep learning algorithms for perimeter protection. This high-precision camera features a wide monitoring range and the PFA algorithm, allowing it to consistently present a sharp and focused image when zoomed in. With the latest Starlight technology, the camera offers excellent low-light performance, smooth controls, high-level protection, and produces high-quality images, meeting most video surveillance application requirements.

Technical specification

Camera

Image sensor	1/1.8" CMOS
Pixel	8 MP
Maximum resolution	3840 (height) × 2160 (vertical)
read-only memory	8 GB 2 GB
RAM	1/1 s–1/30,000 s
Electronic shutter speed	
Scanning system	Progressive
Minimum lighting	Color: 0.005 lux at F1.4 Black and white: 0.0005 lux at F1.4 0 lux (laser on)
Illumination distance	1,000 m (3,280.84 ft)
Illuminator on/off control	Priority Zoom; Manual; Disabled
Illuminator number	1 (laser)
Wiper	Yeah

Lens

Focal length	6.25 mm–300 mm
Maximum opening	F1.4–F4.5
Field of view	Height: 64.9°–1.8°; West: 38°–1.3°; Depth: 71.3°–1.9°
Optical zoom	48×
Focus control	Automatic; semi-automatic; manual
Close focusing distance	0.5 m–2 m (1.64 ft–6.56 ft)
Iris control	Automatic; manual

DORI Distance	Detect	Notice	Recognize	Identify
	6,000 meters (19,685.04 feet)	2,381 meters (7,811.68 feet)	1,200 meters (3,937.01 feet)	600 meters (1,968.50 feet)
	* DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) which defines the ability of a person watching the video to distinguish people or objects within a covered area. The values of This table does not reflect the distances of the smart functions. For To know the distances of the smart functions, refer to the manual installation and commissioning or the project design tool.			

PTZ

Pan/tilt range	Panoramic: 0° to 360° endless Tilt: –45° to +90°
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Manual speed control	Pan: 0.1°/s–160°/s Tilt: 0.1°/s–60°/s
Preset speed	Pan: 160°/s; Tilt: 60°/s
Program	300
Route	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off memory	Yeah
Inactive movement	Default; Pattern; Path; Scan
PTZ protocol	DH-SD Pelco-P/D (automatic recognition)

Intelligence

Video metadata	Supports human body, human face, motorized and non-motorized vehicle image capture and attribute extraction.
IVS (Perimeter Protection)	Tripwire; intrusion; fence climbing; loitering detection; object abandoned or missing; fast moving; detection of Parking; Gathering of people; Alarm classification vehicles/humans.
Facial recognition	Yeah

Video

Video compression	H.265;H.264M; H.264H; MJPEG; Smart H.265; Intelligent H.264
Transmission capacity	3 currents
Resolution	8M (3840 × 2160); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280×960); 720p (1280×720); D1 (704 × 576/704 × 480); VGA (640×480); CIF (352 × 288/352 × 240)
Video frame rate	Main stream: 8M/4M/1080p/960p/720p (1–25/30 fps) Substream 1: D1/VGA/CIF (1–25/30 fps) Substream 2: 1080p/960p/720p (1–25/30 fps)
Bit rate control	CBR; VBR
Video bit rate	H.264: 3328–16384 kbps H.265: 1280–9984 kbps
Day/Night	Automatic (ICR); Color; Black and white
BLC	Yeah
Wide Dynamic Range (WDR)	Yeah
High-level health center	Yeah
White balance	Automatic; indoor; outdoor; tracking; manual; sodium lamp; natural light; streetlight
Gain control	Automatic; manual
Noise reduction	2D Noise Reduction; 3D Noise Reduction
Motion detection	Yeah
Region of Interest (RoI)	Yeah
Defog	Optical
Digital zoom	16×
Image rotation	180°
Privacy Masking	Up to 24 areas can be configured, with up to 8 areas in the same view.
Signal-to-noise ratio	≥55 dB

Audio	
Audio compression	G.711a; G.711Mu; G.726; MPEG2-Layer 2; G722.1; G729; PCM
Grid	
Network port	RJ-45 (10/100 Base-T)
Network protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; IGMP; RTP; PPPoE; RTMP; TCP
Interoperability	ONVIF (S&G&T Profile); GB/T28181; CGI
Transmission method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD Card (512 GB); NAS
Browser	IE 7 and later Chrome 45 and later Firefox 52ESR and earlier Safari
Management software	Intelligent PSS; DSS; IVSS
Mobile client	iOS; Android
Port	
Analog output	1 channel (CVBS, BNC output)
RS-485	1 (baud rate: 1200 bps~115200 bps)
Audio input	1 channel (LINE IN, bare wire)
Audio output	1 channel (LINE OUT, bare wire)
Two-way audio	Yeah
Alarm input	7 (On/Off value input: 0-5 VDC)
Alarm output	2
Alarm linkage	Capture; preset; tour; pattern; SD card recording; digital alarm input; electronic customer map; email sending
Alarm event	Motion/tampering detection; audio detection; Network disconnection; IP conflict detection; status detection Decoder; Memory card status detection; Space detection memory; power exception detection
Optical fiber	100M Single Fiber FC Specifications: 1310nm TX/1550nm RX Distance Transmission: 20 km (12.43 mi)
Force	
Power supply	36 VDC, 5 A (± 25%)
Energy consumption	Basic: 22 W Max: 63W (illuminator + wiper + PTZ)
Atmosphere	
Operating temperature	- 40°C to +70°C (-40°F to 158°F)
Operating humidity	≤95% IP67; TVS 6000V lightning protection; surge protection; voltage transient protection
Protection	
Structure	
Box	ADC12
Product Dimensions	344.6 mm × 252.2 mm × 499.8 mm (13.57" × 9.93" × 19.68") (length × width × height)
Net weight	15.4 kg (33.95 lbs)
Gross weight	23.7 kg (52.25 lbs)

Ordering Information		
Guy	Part number	Description
8M Chamber	DH8800600	Laser AI Network Positioning System 8MP 48x Starlight
	DHE8800600	Laser AI Network Positioning System 8MP 48x Starlight
Accessories	DC 36V/5A	Power adapter
	DH-PFB741W	Wall mount bracket

Accessories

Including:



DC 36V/5A
Adapter

Optional:



DH-PFB741W
Wall mounting
Medium

Plane Mount	Plane Mount	Wall Mount
		DH-PFB741W

Dimensions (mm[inches])

