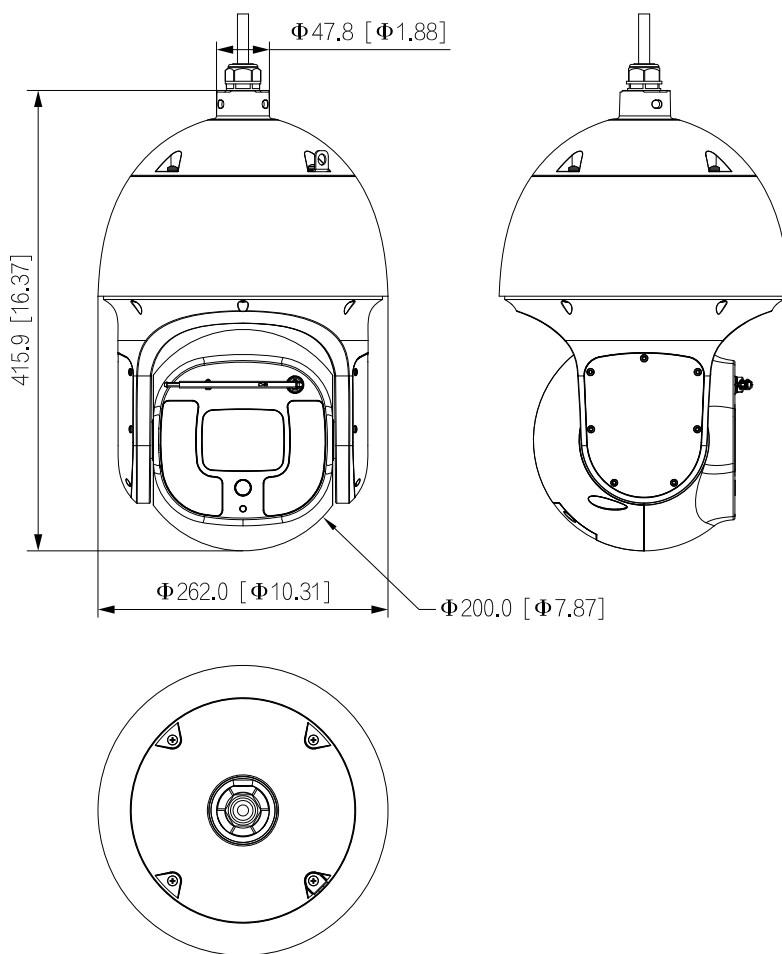


8MP 40x Starlight IR PTZ AI Network Camera



- 1/1.8" 8Megapixel STARVIS™ CMOS
- Powerful 40x optical zoom
- Starlight technology
- Perimeter protection
- Metadata
- Face Recognition
- Auto-tracking
- Smart wiper
- IP67

Dimensions (mm[inch])



Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Pixel	8 MP
Max. Resolution	3840 (H) x 2160 (V)
ROM	8 GB
RAM	2 GB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.4 B/W: 0.0005 lux@F1.4 0 lux@F1.4 (illuminator on)
Illumination Distance	500 m (1640.42 ft)
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR
Illuminator Number	10 IR lights
Wiper	Smart wiper

Lens

Focal Length	5.6 mm–223 mm			
Max. Aperture	F1.4–F4.5			
Field of View	H: 63.9°–2.0°; V: 37.3°–1.1°; D: 71.2°–2.3°			
Optical Zoom	40x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.5 m–2 m (1.64 ft–6.56 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	4,400 m (14,435.70 ft)	1,740 m (5,708.66 ft)	880 m (2,887.14 ft)	440 m (1,443.57 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° Tilt: –30° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°/s–240°/s Tilt: 0.1°/s–100°/s
Preset Speed	Pan: 240°/s; Tilt: 120°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Speed Adjustment	Yes
Power-off Memory	Yes
Idle Motion	Preset; Tour; Pattern; Scanning
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)

Smart Event

Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly
IVS	Object Abandoned/Missing

Intelligence

Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Face Recognition	Yes
Auto Tracking	Yes

Video

Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG (Sub Stream 1)
Streaming Capability	3 streams
Resolution	4K (3840 × 2160); 4M (2560 × 1440); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	Main stream: 4K/4M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Bit Rate Control	CBR; VBR
Video Bit Rate	H264: 512 kbps–16384 kbps H265: 256 kbps–10240 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Defog	Optical
Digital Zoom	16x
Image Rotation	0°; 180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥55 dB

Audio

Audio Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2-Layer2; G723
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Network

Network Port	RJ-45 (10/100 Base-T)
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Network Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP v1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP; RTMP
Interoperability	ONVIF (Profile S&G&T); CGI
Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512GB)
Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS
Mobile Client	iOS; Android

Certification

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
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Port

Analog Output	1 BNC
RS-485	1 (baud rate range: 1200 bps–9600 bps)
Alarm I/O	7/2
Audio I/O	1/1

Power

Power Supply	36 VDC, 2.23 A (±25%) Hi-PoE
Power Consumption	Basic: 30 W Max.: 48 W (illuminator + PTZ working)

Environment

Operating Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	≤95% (RH)
Protection	IP67; TVS 6000 V lightning protection; surge protection; voltage transient protection

Structure

Casing	Metal
Product Dimensions	415.6 mm × Φ26.2 mm (16.36" × Φ10.31")
Net Weight	10 kg (22.05 lb)
Gross Weight	12 kg (26.46 lb)

Ordering Information

Type	Model	Description
8M WizMind PTZ Camera	DH-SD8A840-HNF-PA	8 MP 40x Starlight WizMind Network PTZ Camera, PAL
	DH-SD8A840N-HNF-PA	8 MP 40x Starlight WizMind Network PTZ Camera, NTSC
	SD8A840-HNF-PA	8 MP 40x Starlight WizMind Network PTZ Camera, PAL
	SD8A840N-HNF-PA	8 MP 40x Starlight WizMind Network PTZ Camera, NTSC
Accessories	DC36V/2.23A	Power Adapter
	PFB306W	Wall Mount Bracket
	PFA118	Mount Adapter
	PFB710C	Ceiling Mount Bracket
	PFA150	Pole Mount Bracket
	PFB301S-E	Plane Mount Bracket
	PFA120	Junction Box
	PFB301C	Ceiling Mount Bracket
PFA151	Corner Mount Bracket	