

# DH-SD10A260WA-HNF

2M 60x Starlight + IR PTZ AI Network Camera



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua Al includes network (PTZ) cameras, network video recorders, servers, and more devices. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

#### System Overview

Dahua PTZ AI network camera adopts advanced CNN deep learning algorithms to support face recognition with high accuracy. This camera possess wide monitor range, PFA algorithm that can always present a clear, focused image while zooming, and smart wiper technology that supported by RainSensor.

#### **Functions**

#### Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ AI camera: human face, human body, motor vehicle and non-motor vehicle metadata. Facial information includes gender, age, glasses, masks, beards, etc. Human body information includes hat, top, top color, bottom, bottom color, bag, etc. Motor vehicle information includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspection sticker, etc. Non-motor vehicle information includes type, color, top type, top color, people number, etc.

#### **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.

- · 1/1.8" 2Megapixel CMOS
- · Powerful 60x optical zoom
- · Starlight+ technology
- · IR distance up to 450m
- · Deep-learning-based auto tracking and perimeter protection
- · Support metadata
- · Support Hi-PoE
- · Smart wiper
- · SMD Plus
- · IP67













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

#### **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.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### Protection

The camera allows for-5%~+10% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

#### **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 vehicle intrude.



Technical Specification				General Intelligence			
Camera	1/1 Q" CTAD	1/1 O" CTADVICIM CAMOC			Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly	
Image Sensor	1/1.8" STARVIS™ CMOS				General Intelligence	Object Abandoned/Missing	
Effective Pixels		2MP			Artificial Intelligence		
Max. Resolution		1920 (H) × 1080 (V)			Al uncial intelligence		
ROM		8GB			Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes	
RAM		2GB				extraction.	
Electronic Shutter Speed	1/3 s-1/100	1/3 s-1/100000 s				Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering	
Scanning System	Progressive S				Perimeter Protection	false alarms caused by animals, rustling leaves, bright lights, etc.	
Min. Illumination	B/W: 0.0001	Color: 0.001Lux@F1.4 B/W: 0.0001Lux@F1.4 OLux (IR light on)			Auto Tracking	Support	
IR Distance	450 m (1476	450 m (1476.38 ft)			Face Recognition	Support	
IR On/Off Control	Zoom Prio/N	Zoom Prio/Manual/SmartIR			Video		
IR LEDs Number	10				Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)	
Wiper	Smart Wiper	Smart Wiper			Streaming Capability	3 streams	
Lens					Resolution	1080P (1920 × 1080); 1.3 M (1280 x 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)	
Focal Length	5.6 mm-336 mm				Frame Rate	Main stream: 1080P/1.3 M/720P (1–25/30fps) Sub stream 1: D1/CIF (1–25/30fps) Sub stream 2: 1080P/1.3 M/720P (1–25/30fps)	
Max. Aperture		F1.4-F4.5			Bit Rate Control	Variable Bit Rate/Constant Bit Rate	
Field of View		H: 64.9°–1.4°; V: 38.0°–0.8°; D: 72.2°–1.7°			Bit Rate	H.264: 32 kbps-8192 kbps	
Optical Zoom		60x				H.265: 32 kbps–8192 kbps	
Focus Control		Auto/Semi-Auto/Manual			Day/Night	Auto (ICR)/Color/B/W	
Close Focus Distance		0.01 m-1.5 m (0.03 ft-4.92 ft)			BLC	Support	
Iris Control	Auto/Manua	Auto/Manual			WDR	120 dB	
	Detect	Observe	Recognize	Identify	HLC	Support	
DORI Distance	5120 m (16797.90 ft)	2048 m (6719.16 ft)	1024 m (3359.58 ft)	512 m (1679.79 ft)	White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp	
PTZ					Gain Control	Auto/Manual	
Pan/Tilt Range	Pan: 0° 360° (andless)				Noise Reduction	2D/3D	
, 0		0° (auto-flip 18	30°)		Motion Detection	Support	
Manual Control Speed		Pan: 0.1°/s–200°/s Tilt: 0.1°/s–120°/s			Region of Interest (RoI)	Support	
Preset Speed	Pan: 240°/s Tilt: 200°/s				Electronic Image Stabilization	Support	
Presets	300	300			Defog	Optical Defog	
Tour	8 (up to 32 p	8 (up to 32 presets per tour)			Digital Zoom	16x	
Pattern Number	5	5			Flip	180°	
Scanning Number	5	5			Privacy Masking	Up to 24 areas, and up to 8 areas in the same view	
Speed Adjustment	Support				Audio		
Power-off Memory	Support				Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2- Layer2	
Idle Motion	Preset/Tour/Pattern/Scanning				Network		
Protocol	DH-SD  Pelco P/D (auto recognition)				Ethernet	RJ-45 (10/100Base-T)	
	Pelco-P/D (auto recognition)					, , , , , , , , , , , , , , , , , , , ,	

# Ultra Al Series | DH-SD10A260WA-HNF

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 CGI
Streaming Method	Unicast/Multicast
User/Host	20
Edge Storage	FTP; Micro SD card (256 G)
Browser	IE7 and newer versions Chrome 45 and newer versions Firefox 52ESR and earlier versions Safari (no version restrictions)
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS/Android

## Certification

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

#### Port

Video Interface	1 port (BNC, 1.0V[p-p], 75Ω)
RS-485	1
Audio In	1
Audio Out	1
Alarm Port	7/2

#### Power

Power Supply	DC36V/2.23A ( ±25% ) Hi-PoE
Power Consumption	19W 42W (PTZ Pan/Tilt, IR light on, wiper on)

#### Environment

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

#### Structure

Casing	Aluminium alloy ADC12
Dimensions	Φ300 mm × 527 mm (11.81" × 20.75")
Net Weight	13 kg (28.66 lb)
Gross Weight	18.2 kg (40.12 lb)

Ordering Information			
Туре	Model	Description	
DH- 2M PTZ HNI Camera SD1	DH-SD10A260WA-HNF	2M 60x Starlight+ IR PTZ AI Network Camera, WDR,PAL	
	DH-SD10A260WAN- HNF	2M 60x Starlight+ IR PTZ AI Network Camera, WDR,NTSC	
	SD10A260WA-HNF	2M 60x Starlight+ IR PTZ AI Network Camera, WDR,PAL	
	SD10A260WAN-HNF	2M 60x Starlight+ IR PTZ AI Network Camera, WDR,NTSC	
Accessories	PFB710W	Wall Mount	
	E080-1A360223B3	Power Adapter	
		Mount Adapter	

## Accessories

#### Included:



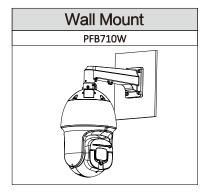




PFB710W Wall Mount

E080-1A360223B3 Power Adapter

Mount Adapter



# Dimensions (mm[inch])

