

DH-SDT3A400-GA-HNP-BX

4MP Starlight+ White Light Network PTZ Camera



WizMind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS, 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.

Series Overview

This PTZ camera raises the bar on conventional PTZ cameras, as it features a built-in video radar that allows for high-precision, real-time monitoring of water levels. It also provides comprehensive surveillance over large areas while delivering high-definition videos. It is suitable for monitoring the water levels of rivers, reservoirs and water treatment plant tanks, as well as tracking the flow of water through the main, branch and field channels in irrigation districts. Additionally, it can detect urban waterlogging and flooding in mountainous areas.

Functions

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Perimeter Protection

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

- 1/1.8" 4Megapixel STARVIS™ CMOS
- Starlight+ technology
- Max. 25/30fps@4MP
- Perimeter protection
- IP66
- Built-in high-precision millimeter-wave radar.
- White light distance up to 30 m.
- Water Level Detection.
- Built-in speaker.



Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Water Level Detection

Dahua Water Level Detection Technology utilizes the millimeter-wave radar for non-contact, high-precision detection of water levels.

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Pixel	4 MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	1 GB
RAM	32 GB
Electronic Shutter Speed	1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	0.005 lux@F1.0 (Color, 30 IRE) 0.0005 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)
Illumination Distance	4 mm: 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Manual; Auto; Off
Illuminator Number	4 (Warm light)

Lens

Focal Length	4 mm
Max. Aperture	F1.0
Field of View	4 mm: H: 90.35° V: 49.03° D: 105.95°
Close Focus Distance	4 mm: 3.5 m (11.48 ft)

	Lens	Detect	Observe	Recognize	Identify
	4 mm	70.3 m (230.64 ft)	28.1 m (92.19 ft)	14.1 m (46.26 ft)	7.0 m (22.97 ft)
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				

PTZ

Pan/Tilt Range	Pan: 0° to 340° Tilt: –20° to +90°
Manual Control Speed	Pan: 0.1°/s–40°/s; Tilt: 0.1°/s–40°/s
Preset Speed	Pan: 40°/s Tilt: 40°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Preset;Pattern;Tour;Scan

PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)
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Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification;
Hydrological Monitoring	Detects engineering trucks and the proportion of floating debris that accumulated in the water within the monitored region.

Active Deterrence

Light Warning	Warm light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low
Sound Warning	Built in 27 voice alarm contents, supporting custom import of voice contents; Sound: 0-100 adjustable; The playback frequency can be adjusted from 1 to 10 times

Video

Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;H.264B;H.264H;MJPEG
Streaming Capability	3 streams
Resolution	(2560 × 1440); 3M (2048 × 1536);(2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@(1–25/30 fps) Sub stream 1: D1/VGA/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: 96 kbps–13056 kbps H265: 38 kbps–7936 kbps
BLC	Yes
WDR	140 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
Image Stabilization	Electronic Image Stabilization (EIS)
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available
S/N Ratio	≥55 dB

Audio

Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Built-in Speaker	Yes

Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;802.1x;SSL;QoS;FTP;UPnP;ICMP;SNMP;IGMP;ARP;RTCP;RTP;PPPoE;RTMP;Bonjour;NFS
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP/SFTP; Micro SD card (512 GB); NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DMSS;DSS Pro
Mobile Client	iOS;Android

Certification

Certifications	CE:EN 55032,EN 61000-3-3,EN IEC 61000-3-2,EN 50130-4,EN 55035
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Port

RS-485	2 (Bit range: 1200 bps–9600 bps)
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive))
Alarm Input	2 (on-off value input: 0–5 VDC)
Alarm Output	1 channel
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Power

Power Supply	12 VDC, 2 A ± 10% (included)
Power Consumption	Basic: 7.0 W Max: 12 W (illuminator + heating glass + PTZ + radar)
Power Adapter	Included

Environment

Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	≤95%
Protection	IP66;TVS 6000 V lightning proof; surge protection; voltage transient protection

Structure

Casing Material	ADC12;PC;PC+GF
Product Dimensions	238.7 mm × 156.6 mm × 208.3mm (9.40" × 6.17" × 8.2") (L × W × H)
Net Weight	1.8 kg (3.97 lb)
Gross Weight	3.5 kg (7.72 lb)

Ordering Information

Type	Model	Description
Network PTZ Camera	DH-SDT3A400-GA-HNP-BX	4MP Starlight+ White Light Network PTZ Camera
Accessories (Optional)	DH-PFB606W	Electric Pan/Tilt Wall Mount Bracket

Accessories

Optional:



DH-PFB606W
Electric Pan/Tilt Wall
Mount Bracket

Wall Mount	Ceiling Mount
DH-PFA160-SG	/

Dimensions (mm[inch])

