

MODEL: IDS-PTZAIT-5X

8MP Perimeter Protection Smart AI Dual Light 5X PTZ Turret IP Camera

PRODUCT OVERVIEW



4K 8MP Resolution

1/2.8inch Sony IMX415 CMOS,
3840x2160 @ 20fps, H.265/H.264



AI Smart Detection

On-board AI detects faces,
humans, vehicles, pets.



Dual Light Technology

4pcs IR LEDs + Warm Light, 30-40m
range, colorful night.



5X Optical PTZ

2.7-13.5mm motorized, 5X zoom,
pan 0-280, tilt 0-90.



IP67 Weatherproof

IP67 housing, 4000V lightning, -30C
to +60C.



Two-Way Audio/SD

Built-in mic/speaker, micro-SD
512GB, audio alarm.

AI DETECTION SUITE

FACE DETECTION . LINE CROSSING . PERIMETER PROTECTION



Face Detection

Detects faces 32-
800px, up to 16 targets.



Human/Vehicle Detect

Identifies
human/vehicle/non-
motor/pet targets.



Cross Line Detection

Programmable lines
with direction/target
filter.



Area Intrusion

Perimeter intrusion with
relay/audio/LED alarm.



Entry/Leaving Detection

Entry/leaving with
recording and siren.



Motion Detection

Customizable
sensitivity, privacy
mask.

KEY FEATURES

- ✓ 1/2.8" Sony CMOS sensor, 4K resolution 3840 x 2160P, low illumination 0.01Lux
- ✓ 2.7-13.5mm motorized lens, 5X optical zoom, pan 0-280 deg, tilt 0-90 deg, control speed 15 deg/s
- ✓ 4pcs IR LEDs & Warm Light, light distance 30-40m, warm light on and colorful imaging when detect human body or vehicle
- ✓ Face Detection, Human & Vehicle Detection, Line Crossing, Area Entry/Leaving Detection, Area Intrusion Detection
- ✓ Up to 16 targets simultaneous detection with snapshot, recording, relay, white LED flash, voice siren
- ✓ H.265/H.264 dual-stream media server
- ✓ Day/Night (ICR), AWB, AGC, BLC, 2D/3D-DNR, IR-CUT, WDR, Motion Detection, Privacy Mask, Flip
- ✓ Two way audio / Reset key, Micro-SD slot (Max. 512G), support audio alarm to warn intruders off
- ✓ 10 preset points, guard position, power-off recovery
- ✓ RJ45 100Mbps network port, IEEE802.3af PoE, lightning protection 4000V
- ✓ Strong water-proof housing, IP67, lightning protection 4000V
- ✓ RTSP and ONVIF 23.12 compatible, easy-to-use P2P cloud service
- ✓ Micro-SD slot up to 512GB with schedule/trigger recording, email, FTP, NAS storage
- ✓ 1 pair alarm-in/alarm-out, normally open/normally close
- ✓ Multi web browser, PC Client, Mobile APP, remote access, multi-language support

GET IN TOUCH

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OUR OFFICE

📍 2850 Stirling Road SUITE G
Hollywood, FL 33020

TECHNICAL SPECIFICATIONS 1 / 2

Model		IDS-PTZAIT-5X
CAMERA		
Image Sensor	1/2.8" 8MP Sony IMX415 CMOS	
SoC Chip	Sigmastar SSC378QE	
Effective Pixels	3840(H) x 2160(V)	
Exposure Shutter	AUTO/Manual: 1/10s ~ 1/8000s, Max. Shutter speed adjustable	
Day/Night	Auto(Active/passive/schedule)/Day/Night, switch threshold, sensitivity	
IMAGE		
Image Adjust	Brightness, Saturation, Sharpness, Contrast, Denoise (0-100%) adjustable	
White Balance	AWB / MWB	
WDR	Yes	
Light Mode	Smart(dual-light) / Infrared / White light, adjustable	
Light Control	Auto/Manual, Brightness level (0-100%) adjustable	
DNR	2D/3D DNR	
ENCODE		
Video Standard	H.264 / H.265 / MJPEG	
Main Stream	20fps@8MP(3840x2160)(default), 30fps@6MP(3072x2048)/5MP(2592x1944)/4MP(2560x1440)/3MP(2304x1296)/1080P/720P	
Sub Stream	10fps@720P, 30fps@DI(704x576)(default)/(720x480)/VGA(640x480)/QVGA(640x360)	
Third Stream	10fps@720P(default), 30fps@DI(704x576)/(720x480)/VGA(640x480)/QVGA(640x360) (disabled when Face/Perimeter enabled)	
Video Bitrates	Main: 64kbps-8Mbps; Sub/third: 64kbps-2048kbps; VBR/CBR, quality(1-9), GOP(1-128)	
Image Rotation	0 / 90 / 180 / 270 degree adjustable	
Border Crop	X crop, Y crop	
Image Mirror	Horizon / vertical / horizon & vertical adjustable	
OSD Overlay	Font size(1-4), position, Time, Title, AM/PM, Color, User OSD, Alarm OSD	
Privacy Mask	4 areas	
Region of Interest	ROI: Each stream supports 8 areas	
Audio Standard	G.711-u/G.711-a/AAC/PCM, AEC	
Built-in Mic	Yes	
Built-in Speaker	Yes	
LED		
Light	4pcs IR LEDs & Warm Light	
Light Distance	30-40m	

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TECHNICAL SPECIFICATIONS 2 / 2

LENS	
Focal Length	2.7-13.5mm Motorized Lens
Zoom	5X Optical Zoom
PTZ	
Pan/Tilt Range	Pan: 0-280 deg; Tilt: 0-90 deg
Preset Points	10
Control Speed	Pan: 15 deg/s; Tilt: 15 deg/s
Guard Position	Support
Power-off Recovery	Support
SMART DETECTION	
Motion Detection	Yes
Digital IO Alarm	1 pair Alarm-in/Alarm-out, normally open/normally close
Human & Vehicle Detection	Support
Cross Line Detection	Support
Perimeter Protection	Support
Face Detection	Support
DETECTION DETAILS	
Target Detection Type	Human, vehicle, non-motor vehicle, Pet, Face (32px-800px)
Trigger Action Linkage	Snapshot, Record, Relay, White LED Flash, Voice siren; Micro-SD, Email, FTP, NAS (optional)
Simultaneous Detection	Maximum 16 targets simultaneously
Storage Type	Schedule/Trigger: Micro-SD(512G), Email, FTP, NAS
NETWORK	
Protocol	HTTP(s)/RTSP/FTP/SMTP/DHCP/NTP/DST/RTP/RTMP/P2P/HiK/IPv4/IPv6/NFS
P2P Mobile APP	Android, iOS
Web Access	IE, Firefox, Chrome, Edge, Safari, etc.
PC Tool	Windows, Mac
ONVIF	23.12 compatible (Profile S, G, T, M)
Language	English, Simplified Chinese, Chinese Traditional, Japanese, Korean, German, Polish, Italian, Turkish, Ukrainian, Russian, etc.
GENERAL	
Network Port	1-RJ45, 100Mbps, PoE 48V in
Power Supply	12 VDC +/- 10% 2A
Power Consumption	< 15 W
Operating Temp.	-30C to +60C, 10-90%RH
Size	Phi120(mm) x 110(mm)
Weight	0.68kg

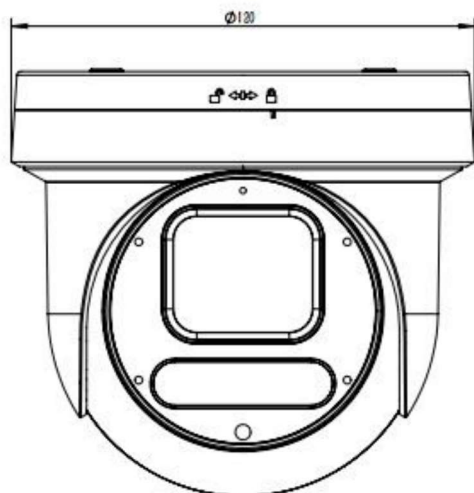
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DIMENSIONS



All dimensions in millimeters (Phil20mm x 110mm). Weight: approx. 0.68kg.

WHY IDS CCTV



Reliable Security

IP67-rated weatherproof housing,
4000V lightning protection, -30C to
+60C operation.



Smart Detection

On-board AI identifies faces, humans,
vehicles, and pets with line crossing,
intrusion, entry/leaving detection - up
to 16 targets.



Precision PTZ

5X optical zoom with 280 deg pan and
90 deg tilt, 10 presets, guard position
with dual-light color night vision.

Need a quote or a demo unit?

Our team responds within one business day.

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