

MODEL: IDS-AIPTS4K-20X

8MP VCA AI PTZ Camera 20X Zoom, Auto Tracking & Color Night Vision

PRODUCT OVERVIEW



360° PTZ Control

Pan: 0°~360° · Tilt: -5°~90° · 256 presets · Auto tracking



20X Optical Zoom

4.7-94 mm F1.6-3.5 lens · 64°~2.9° wide-to-tele view



AI Smart Detection

Face, human, vehicle · Line crossing · Perimeter · 16 simultaneous targets



Color Night Vision

6 IR LEDs (80-100 m) + 4 warm light LEDs (40-50 m) for full-color 24/7



IP67 Weatherproof

Strong waterproof housing with 4000 V lightning protection



PoE / 12V DC

Flexible power via IEEE802.3af PoE or 12V DC with H.265/H.264 encoding.

SMART DETECTION SUITE

AI ENGINE · UP TO 16 TARGETS SIMULTANEOUSLY



Face Detection

32x32 - 800x800 px



Human & Vehicle

Real-time classification



Line Crossing

Custom tripwires



Area Leaving

Perimeter zones



Area Intrusion

Perimeter zones



Area Entry

Perimeter zones

KEY FEATURES

- ✓ 1/2.8" 8MP Sony IMX415 CMOS sensor with 4K resolution (3840 x 2160P)
- ✓ Face Detection, Human & Vehicle Detection, Line Crossing, Area Entry/Leaving & Intrusion Detection
- ✓ Low illumination 0.01 Lux with default Color Night mode
- ✓ Day/Night (ICR), AWB, AGC, BLC, 2D/3D-DNR, IR-CUT
- ✓ WDR, Motion Detection, Privacy Mask, Flip
- ✓ 4.7-94 mm 20X optical zoom lens, F1.6-3.5 aperture
- ✓ H.265 / H.264 dual-stream media server + MJPEG
- ✓ RTSP and ONVIF 23.12 compatible (Profiles S, G, T, M)
- ✓ 6 pcs array IR LEDs — IR distance 80-100 m
- ✓ 4 pcs warm light LEDs — light distance 40-50 m
- ✓ RJ45 100 Mbps network port, IEEE802.3af PoE
- ✓ Lightning protection 4000 V, IP67 weatherproof housing
- ✓ Two-way audio with built-in mic & speaker
- ✓ Micro SD slot (up to 512 GB) / Audio alarm to warn intruders
- ✓ Auto tracking with human detection and patrol

GET IN TOUCH

☎ (954) 903-0007
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OUR OFFICE

📍 2850 Stirling Road SUITE G
Hollywood, FL 33020

TECHNICAL SPECIFICATIONS 1 / 2

Model	IDS-AIPTS4K-20X — 8MP VCA AI PTZ Camera with Auto Tracking	
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 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	
LENS & PTZ		
Focal Length	4.7-94 mm (20X optical zoom)	
Iris	F1.6-3.5	
View Angle	64° ~ 2.9°	
Pan Range	0° ~ 360°	
Tilt Range	-5° ~ 90°	
Preset Points	256	
Control Speed	Pan: 0.5°/s ~ 30°/s; Tilt: 0.5°/s ~ 30°/s	
A-B Scanning	Support	
Auto Cruising	8 groups patrol, max 16 presets in group	
Power-on Action	Preset / Scan / Cruise	
Power-off Recovery	Support	
Smart Tracking	Human detection tracking together with patrol	

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TECHNICAL SPECIFICATIONS 2 / 2

VIDEO	
Video Standard	H.264 / H.265 / MJPEG
Main Stream	20fps @ 8MP (3840x2160) default; 30fps @ 6MP / 5MP / 4MP / 3MP / 1080P / 720P
Sub Stream	10fps @ 720P, 30fps @ D1 (704x576) / VGA / QVGA
Third Stream	10fps @ 720P default, 30fps @ D1 / VGA / QVGA
Video Bit Rate	Main: 64 kbps - 8 Mbps; Sub/Third: 64 kbps - 2048 kbps
Bit Rate Type	VBR / CBR, quality (1-9), GOP (1-128)
Image Rotation	0 / 90 / 180 / 270 degree adjustable
Border Crop	Xcrop, Ycrop
Image Mirror	Horizontal / Vertical / Horizontal & Vertical adjustable
OSD Overlay	Font size (1-4), position, Time, Title, AM/PM, Color, User OSD, Alarm OSD
Privacy Mask	4 areas
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 ILLUMINATORS	
Light	6 pcs array IR LEDs, 4 pcs warm light LEDs
Light Distance	IR: 80-100 m; Warm Light: 40-50 m
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 (32 px - 800 px)
Target Detection Type	Human, vehicle, non-motor vehicle, Pet, Face
Trigger Action Linkage	Snapshot, Record, Relay, White LED Flash, Voice siren
Simultaneous Detection	Maximum 16 targets
Storage Type	Schedule/Trigger: Micro-SD (512 GB), Email, FTP, NAS

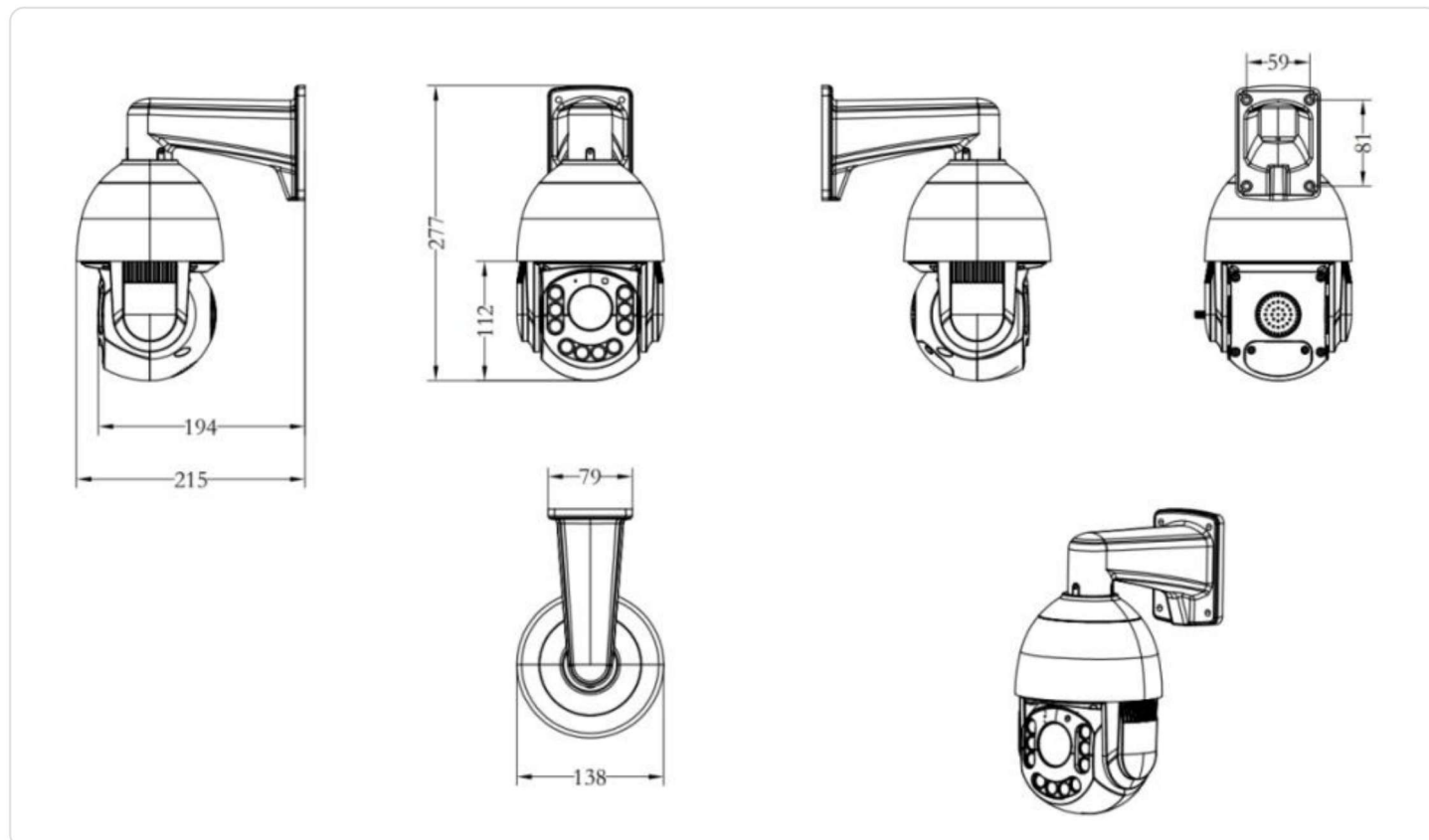
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DIMENSIONS



All dimensions in millimeters. Specifications subject to change without notice.

WHY IDS CCTV



Reliable Security

IP67-rated housing with 4000 V lightning protection and 24/7 dependable operation in any environment.



Smart Detection

On-board AI identifies faces, humans and vehicles in real time — up to 16 targets simultaneously.



Precision PTZ

20X optical zoom with 360° pan and auto tracking — cover vast areas with one camera.

Need a quote or a demo unit?

Our team responds within one business day.

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