

MODEL: IDS-IPPAIF-8MP

8MP VCA AI Fisheye 360 Panoramic IP PoE Camera

PRODUCT OVERVIEW

IDS-IPPAIF-8MP



8MP 4K 360 Panoramic

3840x2160 @ 20fps, Sony IMX415, H.265/H.264 for immersive 360 panoramic surveillance.

AI Smart Detection

On-board AI detects humans, vehicles, faces with line-crossing, intrusion, perimeter.

Face Detection

Advanced face detection 12px-1000px with up to 16 simultaneous targets.

Day/Night and WDR

Auto ICR day/night with True WDR, 2D/3D-DNR, AWB, AGC, BLC, HLC from 0.01 Lux.

18pcs SMD IR LEDs

18 high-power SMD IR LEDs with 10-20m IR distance for 360 night coverage.

Two-Way Audio and P2P

Built-in mic/speaker, G.711-u/G.711-a/AAC audio, SD slot, P2P Cloud.

AI DETECTION AND ANALYTICS SUITE

FACE DETECTION . HUMAN/VEHICLE DETECTION . PERIMETER PROTECTION

Face Detection

Advanced face detection 12px-1000px with up to 16 simultaneous targets.

Human and Vehicle Detection

Identifies humans, vehicles, non-motor vehicles, pets.

Line-Crossing Detection

Configurable crossing with direction and trigger settings.

Area Entry/Leaving

Detects objects entering or leaving defined areas.

Area Intrusion

Triggers alarm when objects intrude into restricted zones.

Perimeter Protection

Complete monitoring with motion detection and privacy masks.

KEY FEATURES

- ✓ 8MP 4K 3840x2160 @ 20fps, Sony IMX415 CMOS Sigmastar SSC378QE SoC
- ✓ 360 panoramic fisheye with 0.98mm wide-angle fixed lens, F1.6 IRIS
- ✓ Display modes: Ceiling/Wall/Table with Fisheye+PTZ de-warp views
- ✓ AI detection: face, human, vehicle, line-crossing, intrusion, entry/leaving
- ✓ Up to 16 simultaneous targets with snapshot, record, relay, email, FTP, NAS
- ✓ 18pcs SMD IR LEDs, 10-20m IR distance for full 360 night coverage
- ✓ H.265/H.264 dual-stream, 64kbps-8Mbps, VBR/CBR with quality and GOP control
- ✓ True WDR, Day/Night ICR, 2D/3D-DNR, AWB, AGC, BLC, HLC, Privacy Mask
- ✓ Two-way audio with built-in mic and speaker G.711-u / G.711-a / AAC
- ✓ SD card slot, P2P Cloud, RTSP, ONVIF 23.12 Profile S/G/T/M
- ✓ RJ45 100Mbps, PoE 802.3af, 12VDC +/-10%, less than 8W consumption
- ✓ IP67 rated with 4000V lightning protection, -20C to +60C operation

GET IN TOUCH

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OUR OFFICE

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 Hollywood, FL 33020

TECHNICAL SPECIFICATIONS 1 / 2

Model		IDS-IPPAIF-8MP — 8MP VCA AI Fisheye 360° Panoramic IP PoE Camera
CAMERA		
Image Sensor	1/2.8-inch 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 (True WDR)	
DNR	2D/3D DNR	
ENCODE		
Video Standard	H.264/H.265/MJPEG	
Resolutions	Main: 20fps@8MP(3840x2160) (default), 30fps@6MP(3072x2048)/5MP(2592x1944)/4MP(2560x1440)/3MP(2304x1296)/1080P/720P Sub: 10fps@720P, 30fps@D1(704x576)/VGA(640x480)/QVGA(640x360) Third: 10fps@720P (default), 30fps@D1(704x576)/VGA(640x480)/QVGA(640x360)	
Bit Rate	Main: 64kbps-8Mbps; Sub/Third: 64kbps-2048kbps; VBR/CBR, quality (1-9), GOP (1-128)	
Rotation	0/90/180/270 deg 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	
ROI	Each stream supports 8 areas	
Audio	G.711-u/G.711-a/AAC	
Built-in Mic/Speaker	Yes, two-way audio	

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TECHNICAL SPECIFICATIONS 2 / 2

LED AND LENS	
LED Light	18 pcs SMD IR LEDs
IR Distance	10-20 meters
Focal Length	0.98 mm fixed wide-angle
FOV	360 deg panoramic fisheye
IRIS	F1.6
Min. Illumination	0.01 Lux @ F1.6 (AGC ON)
MOUNT AND DISPLAY MODE	
Mount Type	Ceiling/Wall/Table
Ceiling	Fisheye, 360P+IPTZ, 180P, Fisheye+3/4/6/8PTZ
Wall	Fisheye, Panoramic, Panoramic+3/4/8PTZ
Table	Fisheye, 360P+IPTZ, 180P, Fisheye+3/4/6/8PTZ
SMART DETECTION	
Motion Detection	Yes
Digital IO Alarm	No
Human/Vehicle Detection	Support
Cross Line Detection	Support
Perimeter Protection	Support
Face Detection	Support (12px-1000px)
Target Detection	Human Shape, vehicle, non-motor vehicle, Pet, Face (12px-1000px)
Trigger Action	Snapshot, Record, Relay, Email, FTP, NAS storage (optional)
Simultaneous	Max 16 targets
Storage Type	Schedule/Trigger: Email, FTP, NAS
NETWORK SERVICES	
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 (profiles S, G, T, M)
GENERAL	
Network Port	1-RJ45, 100Mbps, PoE optional
Power Supply	12VDC +/- 10%
Power Consumption	Less than 8W
Operating Temp	-20°C to +60°C, 10%-90% RH
LANGUAGE	
Supported	English, Simplified Chinese, Chinese Traditional, Japanese, Korean, German, Polish, Italian, Turkish, Ukrainian, Russian, etc.

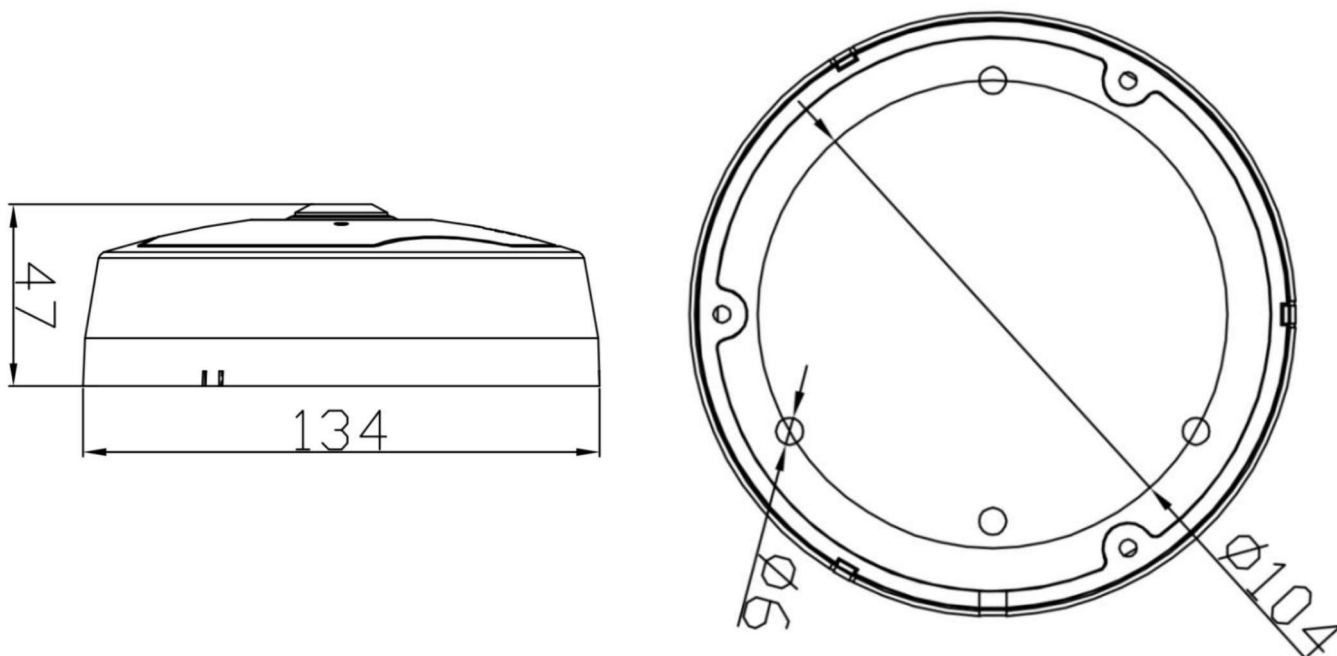
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DIMENSIONS



All dimensions in mm. Specs subject to change. Mount: Ceiling/Wall/Table.

WHY IDS CCTV



360 Panoramic Coverage

Immersive 360 fisheye with 0.98mm ultra-wide-angle provides complete coverage, eliminating blind spots.



Advanced AI Analytics

On-board AI detects faces, humans, vehicles with 16 simultaneous detection.



Easy Installation and P2P

Ceiling/wall/table mount with PoE and P2P Cloud for instant remote access via mobile APP.

Need a quote or a demo unit?

Our team responds within one business day.

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