



Camera

Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2688x1520 (OS04A10)
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON), B/W: 0 Lux with IR ON
Shutter Speed	1/5 s to 1/20,000 s
WDR	120dB
S/N Ratio	TBD
BLC	Yes
HLC	Yes
Digital NR	3D NR

Lens

Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm
Aperture	F1.2
FOV	horizontal FOV: 111° to 40°, vertical FOV: 57° to 22°, diagonal FOV: 137° to 46°
Iris Type	fixed
Lens Mount	All In One Lens

DORI

Wide:	D: 60 m, O: 23 m, R: 12 m, I: 6 m
Tele:	D: 149 m, O: 59m, R: 29 m, I: 14 m

Illuminator

Supplement Light Type	IR & Warm light
Supplement Light Range	IR: Up to 30 m, Warm light: Up to 25m
Smart Supplement Light	Yes

Mobile communication

SIM Card Type	Micro SIM
Frequency	LTE-TDD: Band 38/39/40/41; LTE-FDD: Band 1/2/3/4/5/7/8/12/13/18/19/20/25/26/28; WCDMA: Band 1/5/8; GSM: Band 2/3/5/8
Standard	LTE-TDD, LTE-FDD, WCDMA, GSM, 4G Cat4

In an era where security must be smarter, more adaptable, and untethered from traditional infrastructure, the iPAC AI Solar 4MP Camera + 4G delivers a breakthrough solution. Designed for environments where connectivity and power access are limited—or where rapid deployment is essential—this fully autonomous surveillance system operates with solar power, edge recording, and 4G connectivity to provide real-time, AI-driven security without reliance on wired infrastructure.

Whether securing remote construction sites, oil fields, large-scale agricultural operations, transportation hubs, or emergency response zones, the iPAC AI Solar 4MP ensures seamless monitoring and advanced AI analytics

FEATURES

- True Autonomy – Edge recording, Solar-powered & 4G-enabled for seamless, untethered deployment
- Advanced AI Analytics – Facial recognition, LPR, and a suite of cutting-edge security capabilities
- Deploy Anywhere – No trenching, no wiring, no limits

Illuminator	
Video Compression	Main stream: H.265+ / H.265/ H.264+ / H.264 Sub stream: H.265+ / H.265/ H.264+ / H.264 / MJPEG Third stream: H.265+ / H.265/ H.264+ / H.264
H.265 Compression Standard	Main Profile
H.264 Compression Standard	Baseline Profile/Main Profile/High Profile
Resolution	4MP(2688x1520),3MP(2304x1296),1080P(1920x1080), 720P(1280x720),VGA(640x480), QVGA (320x240)
Main Stream	60 Hz: 30 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720) 50 Hz: 25 fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720)
Sub Stream	60 Hz: 30 fps (1280 x 720, 640 × 480, 320 × 240) 50 Hz: 30 fps (1280 x 720, 640 × 480, 320 × 240)
Third Stream	60 Hz: 30 fps (640 × 480, 320 × 240) 50 Hz: 30 fps (640 × 480, 320 × 240)
Bit Rate	16Kbps ~ 16Mbps
Bit Rate Type	VBR/CBR
Audio Compression	G711A / U
Image Settings	Saturation, brightness, contrast, sharpness, Hue and white balance adjustable by client software or web browser
ROI	4 fixed regions for main stream

Interface	
Network	1 RJ45 10 M/100 M self-adaptive Ethernet port
Wi-Fi	IEEE802.11b/g/n ; 2.4 G
Audio	1 CH line-in, 1 CH line-out built-in MIC and Speaker
Alarm	1 input, 1 output
On-Board Storage	Built-in micro SD card slot, up to 512GB
Reset	Yes

General	
Power	4-pin waterproof connector 3.5DC connector
Startup and Operating Conditions	-20 °C to 60 °C (-4 °F to 140 °F). Humidity 95% or less (non-condensing)
Gross Weight	TBD

Protection	
Protection	Camera: IP67

Funcios	
Remote Monitoring	Web /VMS/APP IE10/11
Web Browser	Safari V12.1 above Firefox V.52 above Google chrome V.57 above Edge V.79 above
Online Connection	15 User/ 14 channels
Network Protocol	IPv4,IPv6,TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP, SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Interface Protocol	ONVIF,API
Intelligent Analytics	Pedestrian & Vehicle, Perimeter Intrusion, Line Crossing, Object Detection, Cross Counting, Rare Sound, Intrusion, Region Entrance, Region Exiting, License Plate
Linkage	Upload to memory card/eMMC/FTP, notify surveillance center, audible warning, trigger recording, trigger capture, send email
Security	Password protection, complicated password, HTTPS encryption, IP address filter,control timeout, illegal login lock
Gross weight	25kgs
Dimensions	1000mmx500mmx550mm(39.37" x 19.69" x 21.65"), Volume weight if we ship by UPS or DHL: 55kgs