ITRL18P-40UM

8MP Pro AI ISP Turret Network Camera



Overview

The 8MP Pro AI ISP Turret Network Camera pairs a 1/1.8" SONY Starvis2 sensor with an F1.0 lens for clear images day and night. Its smart hybrid-light illumination switches between IR and warm light to deliver full-color video when needed, while built-in analytics distinguish humans and vehicles to reduce false alarms.

Key Features

- 8MP resolution (3856 × 2180), main stream up to 3840 × 2160 @ 60fps
- 1/1.8" SONY Starvis2 sensor, F1.0 aperture
- Color: 0.0001 Lux, 24/7 full-color imaging
- Dual light (IR + warm light): IR: 40m, Warm light: 30m; smart / manual / timed control
- 120dB true WDR, 3D DNR, BLC, HLC, defog
- H.264 / H.264+ / H.265 / H.265+ / MJPEG compression
- Intrusion Detection/Line Crossing Detection/Enter Area Detection/Leave Area Detection/Line Crossing Count, Loitering Detection/People Gathering Detection, Motion Detection, Face Detection, Illegal Parking
- Built-in microphone, alarm I/O, microSD up to 512 GB
- Metal IP67, PoE (IEEE 802.3af), ONVIF Profile S/T/G/M

8MP	Dual Light	40m	H.265+	AI	IP67
3856 × 2180	IR + warm light	IR range	video compression	human & vehicle detection	weatherproof

Quick Specifications

Image Sensor	1/1.8" SONY Starvis2 Back-illuminated CMOS sensor
Lens	4 mm, F1.0
Field of View	horizontal FOV 109°, vertical FOV 59°, diagonal FOV 131°
Supplement Light	IR: 40m, Warm light: 30m
Audio	Built-in Mic
Power	DC12V±10%, 600mA / PoE
Housing	Metal, IP67
Operating Temp.	-30°C ~ +60°C RH95% Max

Specification

Camera	
Image Sensor	1/1.8" SONY Starvis2 Back-illuminated CMOS sensor
Max. Resolution	8MP (3856 × 2180)
Min. Illumination	Color: 0.0001 Lux@(F1.0, AGC ON), 0 Lux with white light, B/W: 0 Lux with IR
Shutter Time	Auto: 1/3-1/100000Sec
Day & Night	Color/ B&W (IR-CUT)
IR Cut Filter	Yes
S/N Ratio	60dB
Scanning System	Progressive
TV System	PAL/NTSC
Lens	
Focal Length & FOV	4 mm, horizontal FOV 109°, vertical FOV 59°, diagonal FOV 131°
Lens Type	Fixed focal lens
Focus Control	Fixed
Aperture	F1.0
Lens Resolution	8MP
Illuminator	
Supplement Light Type	IR: 2PCS, Warm light: 2PCS
Supplement Light Range	IR: 40m, Warm light: 30m
Supplement Light Control	Auto Control
Smart Supplement Light	Smart, Manual & Timed mode
Video	
Main Stream	3840 × 2160 @ 60fps, 3200 × 1600 @ 60fps 2560 × 1440 @ 60fps, 1920 × 1080 @ 60fps 1280 × 720 @ 60fps
Sub-Stream	1280 × 720 @ 30fps 720 × 480 @ 30fps
Third Stream	1280 × 720 @ 30fps, 720 × 480 @ 30fps
Video Compression	H.264/H.264+/H.265/H.265+/MJPEG
Video Output	Network
Audio	
Audio Compression	G711A/U, AAC, MP2L2
Network	
Protocols	TCP/IP, IPv4/v6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTMP, RTCP, PPPoE, NTP, SMTP, UDP, SNMP, Qos, 802.1x
ONVIF	Support ONVIF 24.12(Profile S/T/G/M)
P2P	Yes
Video Delay	300ms (Within the Lan)
Recording Mode	NVR/CMS/Web
Mobile Client	iPhone, Android
Web Browser	Microsoft Edge, Google Chrome, Firefox, Mac Safari

Image	
Image Settings	Saturation/Brightness/Contrast/Sharpness, Mirror, 3D NR, White Balance, Anti Flicker, Video Tampering, HLC, Distortion, Scene Change Detection
Wide Dynamic Range (WDR)	120dB
Full Color	Support
Corridor Mode	Support
Defog	Support
Region of Interest (ROI)	Support
BLC	Support
Privacy Mask	3 Rectangular Zone
Interface	
Ethernet Interface	RJ-45 (10/100Base-T)
Audio	Built-in Mic Support Sound Detection
Alarm	Default: Alarm I/O
On-Board Storage	Default: External SD card slot (Max 512GB)
Reset Key	Optional
Event	
Basic Event	Support(support enable the detection based on human and Vehicle movement)
Smart Event	Intrusion Detection/Line Crossing Detection/Enter Area Detection/Leave Area Detection/Line Crossing Count(based on human, vehicle and non-motor vehicle detection); Loitering Detection/People Gathering Detection(based on human detection); Motion Detection(supports the detection based on human, vehicle and non-motor vehicle movement); Face Detection; Illegal Parking(based on vehicle shape and license plates); License Plate Detection; Abandoned Object Detection; Removed Object Detection; Heat Map; Face Recognition; Fire Detection; Video Structured Analytics
General	
Power	DC12V±10%, 600mA; PoE (Internal, Support IEEE 802.3af)
Housing	Metal, IP67
Anti-cut Bracket	No
Dimension	Ø115 x113(H) mm
Weight (N.W. / G.W.)	Approx. 680 g / Approx. 820 g
Operating Conditions	-30°C ~ +60°C RH95% Max
Storage Conditions	-30°C ~ +60°C RH95% Max
Language	Chinese Simplified, Chinese Traditional, English, Korean, Polish, French, Japanese, Spanish, Portuguese, Italian, Hebrew, Ukrainian, Arabic, Vietnamese, Thai, Hungarian, Czech

Dimension



Available Model	**ITRL18P-40UM** (4 mm)
Dimension	Ø115 x113(H) mm
Weight (N.W. / G.W.)	Approx. 680 g / Approx. 820 g

Accessory (Optional)



JB-320



JB-173-01

Specifications are subject to change without notice.