INTELLIO

ILO-242-TR-IR

IR Motorized Varifocal Turret camera, 4MP



NEO Core

Made in Japan / NDAA certified

Camera & Sensor	
Max Resolution	4MP, 2560(H) × 1440(V)
Min Illumination	Color: 0.0008 Lux @ (F1.3, AGC ON), B/W: 0.0003 @ (F1.3, AGC ON), 0 Lux with IR on
Image Sensor	1/1.8” Progressive Scan CMOS
Shutter Speed	1/5 to 1/20,000s
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0˚ to 355˚, Tilt: 0˚ to 80˚, Rotation: 0˚ to 360˚
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 50 m (164.0 ft)
Control	Auto/Manual
Lens	
Lens Type	Varifocal lens, Motorized focal
Focal Length	3.6 to 11 mm
Max. Aperture	F1.3
Field of View (FOV)	H: 113.9° to 50.8°, V: 59.5° to 28.5°
Iris	Fixed Iris
DORI Distance	
Detect	60.1 to 129.9 m (197.2 to 426.2 ft)
Observe	24.1 to 51.9 m (79.1 to 170.28 ft)
Recognize	12.1 to 25.9 m (39.7 to 84.97 ft)
Identify	6.1 to 12.9 m (20.01 to 139.93 ft)
Image Settings	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Scene Mode	Indoor, Outdoor, Mirror, Corridor mode
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day, Night, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	4 areas

Video & Audio Streams	
Number of Streams	3 Streams
Resolution	Stream1: 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA
Frame Rate	Up to 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 Zone, Rectangle)
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
Events & Alarms	
Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, Alarm output, FTP upload, SMTP upload, Snapshot, Audible alarm output
Intelligent Analytics	
Smart Tracking	Supports face, human, and vehicle detection with snapshot capture
Smart Detectors	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, and perimeter detection. - Supports alarm triggering based on specified target types (human/vehicle)
Statistical Detectors	People Counting
Security	
OS / Firmware Protect	Encrypted firmware, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access / System / Event Log management
Secure Storage	SDcard partition encrypt (AES-256), Secure element
Supply Chain Security	SBOM

Network	
Protocols	IPv4/IPv6, TCP/UDP, DNS, DHCP, HTTP/HTTPS, DDNS, PPPoE, RTSP/ RTCP/RTP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile G/S/T/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users; 3 levels: Administrator, Operator, Media User
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Interfaces	
Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Built-in Microphone	Supported
Built-in Speaker	Supported
Audio Interface	1ch Input, 1ch Output
Alarm Interface	1ch Input, 1ch Output
SD Card Slot	Built-in, up to 256 GB
Reset Button	Supported
General Specifications	
Language	English (default), Hungarian, Japanese, Polish, Italian, Portuguese, Spanish, Russian, Chinese, Traditional Chinese, Korean, French, Czech
Power Supply	12 VDC (-15% to +25%) / PoE (802.3af)
Power Consumption	Max 10.5 W
Operating Temperature	-40°C to 55°C (-40°F to 131°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP66
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy body, Decoration ring: plastic
Dimensions	φ140.01 × 119.21 mm (5.51 × 4.69 inch)
Net Weight	Approx. 0.92 kg (2.03 lb)

Accessories (optional)

Junction box	 ILA-106
Pole mount	 ILA-302

Dimensions (mm)

