INTELLIO

ILO-282-VD-IR

IR Motorized Varifocal Dome camera, 8MP



NEO Core

Made in Japan / NDAA certified

Camera & Sensor	
Max Resolution	8MP, 3840(H) × 2160(V)
Min Illumination	Color: 0.004 Lux @ (F1.3, AGC ON), B/W: 0.0009 Lux @ (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 75˚, Rotation: 0˚ to 355˚
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: 113.3° to 48.9°, V: 58.9° to 26.7°
Iris	Auto Iris
DORI Distance	
Detect	85.5 to 184.7 m (280.5 to 605.9 ft)
Observe	34.3 to 73.8 m (112.5 to 242.1 ft)
Recognize	17.2 to 37.1 m (56.4 to 121.7 ft)
Identify	8.6 to 18.4 m (28.2 to 60.4 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: 3840×2160, 2592×1944, 2592×1520, 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 16 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, fullbody, and vehicle detection & capture Supports fullbody and vehicle attribute detection Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic
Attribute Extraction	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest Vehicle Attributes: Type, color, brand, orientation
Smart Detectors	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection - Supports alarm triggering based on specified target types (human/vehicle)
Statistical Detectors	People Counting
Security	
OS / Firmware Protect	Encrypted firmware, Secure boot, 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, SMTP, 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
Audio Interface	1ch Input, 1ch Output
Alarm Interface	1ch Input, 1ch Output
SD Card Slot	Built-in microSD card slot, up to 1 TB
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 (-10% to +25%) / PoE (802.3af)
Power Consumption	Typical: 3.5 W (12 VDC) / approx. 4.4 W (PoE) Max (IR on + Focusing): 7 W (12 VDC) /approx. 8.8 W (PoE)
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP67, IK10
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, 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, bubble: plastic
Dimensions	φ130.01 × 113.33 mm (φ5.12 × 4.46 inch)
Net Weight	Approx. 0.8 kg (1.76 lb)

Accessories (optional)

Junction box		ILA-104
Wall mount		ILA-202
Vertical pole mounting bracket		ILA-302
In-ceiling mounting bracket		ILA-401

Dimensions (mm)

