INTELLIO



ILO-743-SD-30

IR PTZ camera, 4MP, 30x

NEO Sentinel

Made in Japan / NDAA certified

Camera	
Max Resolution	2592(H) × 1520(V)
Min Illumination	Color: 0.005 Lux @ (F1.6, AGC ON),
Image Sensor	1/2.8” Progressive Scan CMOS
Shutter Speed	1/5 to 1/100,000s
Day & Night	Auto (ICR)
S/N Ratio	55 dB
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 200 m (656.2 ft)
Control	Auto / Manual
Lens	
Focal Length	5.3 to 159 mm
Max. Aperture	F1.6 to F4.4
Field of View (FOV)	H: 57.1° to 2.4°, V: 33.6° to 1.9°
Optical Zoom	30x
Digital Zoom	16x
Iris	Auto/Manual
Focus Control	Auto/Manual/Semi-automatic
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to +90° (auto-flip)
Pan Speed	Pan speed: 0.1° to 300°/s, preset speed: 300°/s
Tilt Speed	Tilt speed: 0.1° to 300°/s, preset speed: 300°/s
Preset Accuracy	≤ 0.2°
Preset	400
Track	6 Track
Scan	12 Scan
Tour	12 Tour (up to 32 presets each tour)
Intelligent Tracking	Supported Object auto tracking (Person/Vehicle)
Power-Off Memory	Supported
3D Positioning	Supported
PTZ Status Display	Supported
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.

DORI Distance	
Detect	103.1 to 3,089.9 m (338.25 to 10,137.47 ft)
Observe	41.3 to 1,235.9 m (135.50 to 4,054.79 ft)
Recognize	20.7 to 617.9 m (67.91 to 2,027.23 ft)
Identify	10.4 to 308.9 m (34.12 to 1,013.45 ft)
Image Settings	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Scene Mode	Indoor, Outdoor, Mirror
Exposure Mode	Auto, Manual, Shutter priority, Iris 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, Anti-shake
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	Support 40 zones, mask color configurable
Video & Audio Streams	
Number of Streams	3 Streams
Resolution	Stream1: 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 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Supported
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	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	7ch input, 2ch output
RS-485	Supported
CVBS Output	1ch BNC
SD Card Slot	Built-in microSD card slot, up to 1 TB
General Specifications	
Language	English (default), Hungarian, Japanese, Polish, Italian, Portuguese, Spanish, Russian, Chinese, Traditional Chinese, Korean, French, Czech
Power Supply	24 VAC / 36 VDC / PoE++ (802.3bt), Standard Equipped: 36 VDC
Power Consumption	Max. 45 W
Operating Temperature	-40°C to 60°C (-40°F to 140 °F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP66, IK10, NEMA 4X (optional)
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 CE-LVD- EN IEC 62368-1 FCC 47 CFR Part 15 Subpart B
Material	Metal
Dimensions	φ226.11 × 362.81 mm (φ8.9 × 14.28 inch)
Net Weight	5.5 kg (12.13 lb)
Accessories (optional)	
Junction box	 ILA-107
Vertical pole mount bracket	 ILA-303
Corner mount bracket	 ILA-204
Wall mount bracket	 ILA-201

Dimensions (mm)

