

ILLUSTRA



ILLUSTRA Multisensor Varifocal



Flexible Zoom & Autofocus for Precise Coverage

Each of the four sensors includes motorized varifocal lenses with one-touch autofocus and remote zoom/focus, allowing customized views from wide-area coverage to detailed close-ups.



Optimized Bandwidth & Storage Efficiency

IntelliZip® smart codec and H.264/H.265 compression minimize bandwidth and storage usage during low activity, while encrypted onboard storage (up to 2TB) ensures secure video retention.



AI-Powered Smart Surveillance

Integrated AI analytics deliver object classification, face detection (coming soon), tamper alerts, and business intelligence tools enabling precise event monitoring and real-time alerts to strengthen proactive security and optimize operations.



Enterprise-Grade Cybersecurity & Compliance

Equipped with TPM 2.0, secure boot, encrypted firmware, and ISA/IEC 62443 certification - providing strong protection for sensitive deployments and full NDAA/TAA compliance.



Exceptional Imaging in Tough Conditions

True Day/Night performance, Adaptive IR up to 100 ft (30m), and ultra-low light sensitivity deliver clear, dependable video in low-light and nighttime environments.



Rugged, All-Weather Construction

IP66/IP67, IK10, and NEMA 4X-rated aluminum housing resists extreme temperatures, humidity, and physical impact—ideal for demanding indoor and outdoor environments.

Technical Specifications

Camera

Image Sensor	Sony 1/2.8" Progressive Scan CMOS imager
	3.42 (±5%) mm - 6.85 (±5%) mm, Motorized
Lens	F1.85(W) – F2.4(T)
	One touch auto focus, manual, and remote zoom and focus
Field of View (FoV)	Horizontal: 99.7°(Wide) – 45.5°(Tele) V: 68.1°(Wide) – 32.7°(Tele)
Day/Night	True Day/Night, automatic IR-cut filter
Minimum Illumination	Color: 0.07 lux 1/30s; 0.01 lux 1/4s B/W: 0.03 lux 1/30s; 0.001 lux 1/4s
Camera Angle Adjustment	Orbital Pan 0-180°, Tilt 0-70°, Rotation 359°
IR Illumination	850 nm, Smart IR, up to 30m (98.4 ft)
Memory	4GB RAM, 8GB Flash

Video

Smart Codec	ILLUSTRATE IntelliZip® (Automatically reduces bandwidth during low scene activity, helping save storage and network resources)
Video Compression	H.264/H.265/MJPEG/H.264 IntelliZip®/H.265 IntelliZip®
Bitrate Control	CBR/VBR/CVBR (configurable)
Exposure range	1/4s to 1/32000s
Max Resolution (H x V) & Aspect Ratio	4:3: 2560 x 1920 (5MP) to 480x272 Default: 16:9: 2560 x 1440 (4MP)
Max Frame Rate (60 Hz/50 Hz)	5MP: 30/25 fps [2MP: 60/50 fps (April 2026)]
Video Streams	Four Streams, maximum of 16 concurrent shared streams across 4 sensors
Dynamic Range	True multi shutter WDR up to 120 dB Off, Smart WDR, True WDR2x (Sensor1 & Sensor2), True WDR3x (Sensor1 & Sensor2)
Defog	SmartDefog (Low, Medium, High)
Noise Reduction	Digital Noise Reduction 2D and 3D
Corridor Mode	Supported, rotate +90° or -90°
Picture Settings	Auto Exposure: Multiple weighting method, Multiple ROI (incl AI ROI: Object, Person), Gain Control, Flickerless 60(50) Hz, White Balance, text overlay
Privacy Zones	10 user definable rectangular zones Future Firmware Release

Analytics

AI Object Classification	Classes: Person, Bicycle, Bus, Car, Motorbike, Train, Truck, Cart, backpack, Suitcase, Handbag, Any Class Sub-Classes (attributes): Person Clothing Color (Upper, Lower), Vehicle Color Rules: Object Detected, Perimeter, Linger, Dwell, Abandoned, Removed, Enter, Exit, Crowd, Queue, Direction, Tripwire
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AI Business Intelligence	Person counting (Future Firmware Release)
AI Privacy Mask	Person and Face redaction (Future Firmware Release)
AI Face Detection	Supported
AI Tamper Detection	Blackout, Whiteout, Scene Change (FoV change) and Blur detection
AI Audio Detection	Sound type: Loud Abnormal Sound, Glass Break, Fire/Smoke Alarm, Low Pitch, Scream (Future Firmware Release)
AI Metadata	Supported
AI Audio Detection	Supported
Network	
Network	IEEE 802.3, 10/100/1000 Base-T/TX, autosensing, 1 x RJ45
Cyber security	ISASecure ISA/IEC 62443-4-1 certified secure development Secure boot, Signed and encrypted firmware
Authentication and Security	TLS, HTTPS (HTTP over TLS), WS-Security, Certificate Management, Multi-level password protection, IP address filtering, TPM 2.0, HTTPS encryption, Enhanced Security: One-Click Security Hardening, User Access Log, Validate Complex Credentials, Disables Unused Protocols IEEE 802.1x including: PEAP, EAP-TLS, EAPoL
Protocols	ARP, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4/v6, NTP, RTSP, RTCP, RTP, QoS, SMTP, SNMPv1/2c/3, TCP/IP, TLS/TLS, UDP, UPnP, 802.1X, Bonjour, DNS, DDNS, PPPoE, LDAP, UDP, SFTP, DHCP, Zeroconf, Static IP address, LLDP, Unicast, Multicast,
Network management	SNMP v2c/v3
Users	10 simultaneous users
System Integrations	
Application Programming Interface	ONVIF Profile S, G, T, M (Phased future release) Illustra iAPI via Connected partner program
Event Triggers	Motion Detection, Tamper Detection, face detection (Future firmware release), AI Object classification, Alarm Input, Network Loss
Event Actions	Record to SD card, Snapshot, SMTP e-mail file transfer, FTP file transfer, CIFS, Auxiliary output, Audio clip playback
Audio compression	G.711 9KHz/16 bits (μ -law)
Audio Input/Output	Built-in microphone; 1x Line input and 1x Line output, Bi-directional
External I/O Terminals	1x Alarm In and 1x Alarm Out
Peripherals	
Onboard Storage	microSDXC slot, Class 10 or better, up to 2TB supported (Card not included) Pre event / Post event 1- 10 sec Encrypted storage and streaming TrickleStor offline recording and backfilling (encrypted)
Wireless configuration	Micro USB via optional USB Wi-Fi Dongle IA-KIT-WD-UUA

Electrical

Power Supply	IEEE 802.3at Class 4 (PoE+) 0.53A / 25.5W 24 VAC +/-10% 2.5A / 30W (3.5mm 2-pin Terminal block)
Dual Power Supply	Supported, PoE+ and 24VAC
Surge Protection	6KV contact 8KV air

Physical

Operating conditions	-40°C (-40°F) to +60° C (140°F) (IR off at +50° C/122° F) Start-up temperature: -40°C (-40°F) Humidity up to 90% RH, Non-Condensing
Casing	IP66, IP67, NEMA 250 Type 4x and IK10 Housing: Aluminum Alloy Dome: Polycarbonate Color: Signal White Pantone RAL 9003
Dimensions	Ø260 x 116 mm (Ø10.2 x 4.6 in)
Weight	Net 3.2 kg (7.05 lbs.), Gross 4.5 kg (9.9 lbs.)

Regulatory

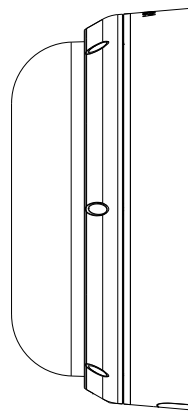
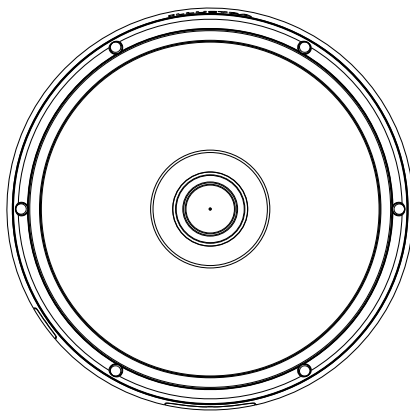
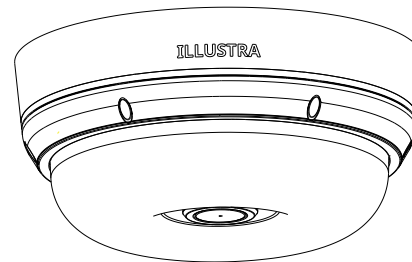
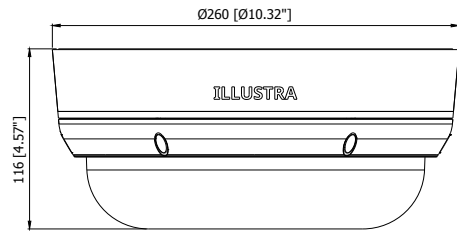
Emissions	FCC Part 15 Class A; EN55032 Class A; ICES-003:2020 Issue 7 Class A; VCCI-CISPR32: 2016 ClassA
Safety	UL 62368-1, 3rd Ed, 2021-10-22 CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22
Immunity	EN50130-4
Environmental	IEC 60529 IP66, IEC 60529 IP67 IEC 62262 IK10 ROHS, REACH, WEEE NEMA 250 Type 4x

General

Web Browsers	Microsoft Edge, Firefox, Safari, Chrome
NDAA & TAA Compliant	Yes
Warranty	5 Years

Camera Dimensions

Unit: mm(in)



Information		
Part	Material	Color
Body top case	ADC12	RAL9003
Bottom case	ADC12	RAL9003
Top trim ring	PC Sabcic 141R	RAL 7024
Side cover	PC1250Z	RAL9003
Dome cover	PC S3000UR	Clear

Ordering Information

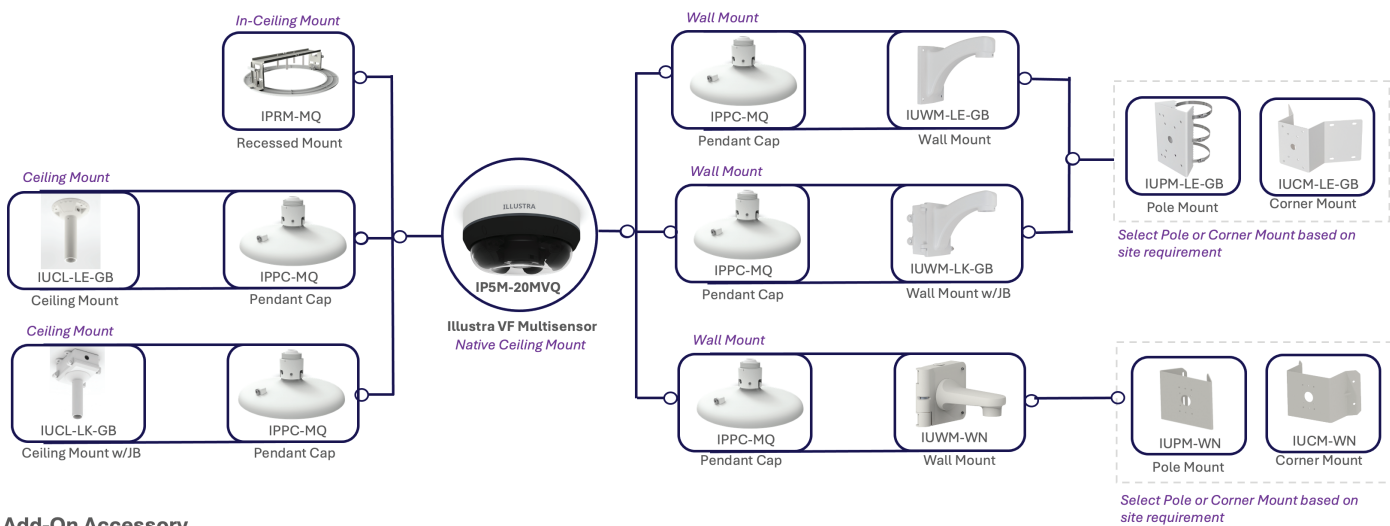
Part Number	Sales Description
IP5M-20MVQ	ILLUSTRA 20MP (5MP x4) Multisensor, MFZ, TDN w/IR, TWDR, IP66/67, IK10

Optional Accessory

Part Number	Sales Description
IPRM-MQ	Illustra multisensor recessed mount
IPPC-MQ	Illustra multisensor pendant cap
IPCA-MQ	Illustra multisensor conduit adapter
IPCB-MQ	Illustra multisensor clear bubble
IPSB-MQ	Illustra multisensor smoked bubble
IUWM-WN	Illustra Universal wall mount
IUPM-WN	Illustra Universal pole mount
IUCM-WN	Illustra Universal corner mount

IUWM-LE-GB	GB Wall Mount for large cameras
IUWM-LK-GB	GB Wall Mount with Junction Box for large cameras
IUPM-LE-GB	GB Pole Mount for large cameras
IUCM-LE-GB	GB Corner Mount for large cameras
IUCL-LE-GB	GB Ceiling Mount for large cameras
IUCL-LK-GB	GB Ceiling Mount with Junction Box for large cameras

Accessory Chart



Add-On Accessory

USB Wi-Fi Dongle IA-KIT-WD-UUA	Clear Bubble Kit IPCB-MQ	Smoked Bubble kit IPSB-MQ	Conduit Adapter IPCA-MQ	60W 24V AC Power Supply ADSPOT	90w PoE Injector IA-POE-90-U00 IA-POE-90-U00-EU