

ILLUSTRA



ILLUSTRA Panoramic Camera



Unmatched Panoramic Clarity

Capture expansive areas with 14.47 MP ultra-high resolution and seamless stitching of three sensors, delivering a single panoramic view with incredible detail at up to 30 fps.



Intelligent Video Analytic

Built-in AI object classification, face detection, tamper detection, and audio event detection empower proactive monitoring and smarter incident response.



Comprehensive Wide-Angle Coverage

With a 188° horizontal field of view, the camera provides full situational awareness, reducing blind spots and minimizing the need for multiple devices.



Optimized Bandwidth & Storage Efficiency

Illustra IntelliZip® smart codec dynamically reduces bandwidth and storage needs without compromising video quality, lowering infrastructure costs.



Advanced Low-Light & IR Performance

True Day/Night functionality, adaptive IR up to 66 ft (20 m), and ultra-low illumination sensitivity ensure reliable image quality in challenging lighting conditions.



Rugged, Secure & Reliable Design

Certified IP66/IP67, IK10 vandal resistance, and NEMA 4X housing for harsh environments, combined with ISA/IEC 62443 cybersecurity compliance and dual power supply support, ensuring resilience and protection.

Technical Specifications

Camera

Image Sensor	5MP x3 Sony 1/2.8" Progressive Scan RGB CMOS
Lens	2.99 mm, Fixed F2.0
Field of View (FoV)	Horizontal: 188° V: 74°
Day/Night	True Day/Night, automatic IR-cut filter
Minimum Illumination	Color: 0.09 lux 1/30s; 0.01 lux 1/4s B/W: 0.04 lux 1/30s; 0.001 lux 1/4s
Camera Angle Adjustment	Pan 0-370°, Tilt 0-60°, Roll +/-5°
IR Illumination	850 nm, Adaptive IR, up to 65.6 ft (20 m)
Memory	4GB RAM, 8GB Flash

Video

Smart Codec	ILLUSTRA 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)	5952x2432 (14.47 MP)
Max Frame Rate (60 Hz/50 Hz)	14.47 MP @ 30/25 fps
Video Streams	Four Streams, maximum of 5 concurrent shared streams
Dynamic Range	True multi shutter WDR up to 120 dB Off, Smart WDR, True WDR2x, True WDR3x
Defog	SmartDefog (Low, Medium, High)
Noise Reduction	Digital Noise Reduction 2D and 3D
Picture Settings	Auto Exposure (Future Firmware Release), 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
AI Business Intelligence	Person counting (Future Firmware Release)
AI Privacy Mask	Person and Face redaction (Future firmware Release)
AI Face Detection	Will be supported with future firmware release

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
Motion 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, 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, SIP
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

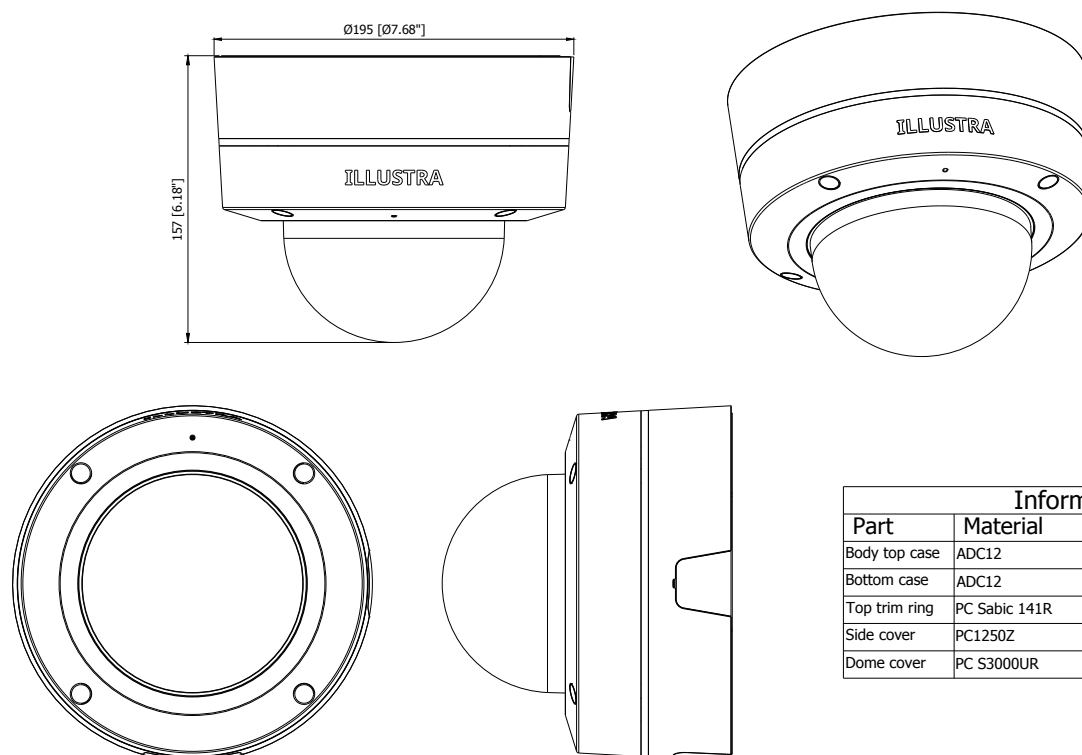
Electrical

Power Supply	IEEE 802.3at Class 4 (PoE+) 0.53A / 25.62W 24 VAC +/-10% 2.5A / 27W (3.5mm 2-pin Terminal block)
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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 Bubble trim ring: Polycarbonate Color: Signal White Pantone RAL 9003
Dimensions	Ø195 x 157 mm (Ø7.68 x 6.18in)
Weight	Net 1.1 kg (2.42 lbs.), Gross 2.8 kg (6.17 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 Sabic 141R	RAL 7024
Side cover	PC1250Z	RAL9003
Dome cover	PC S3000UR	Clear

Ordering Information

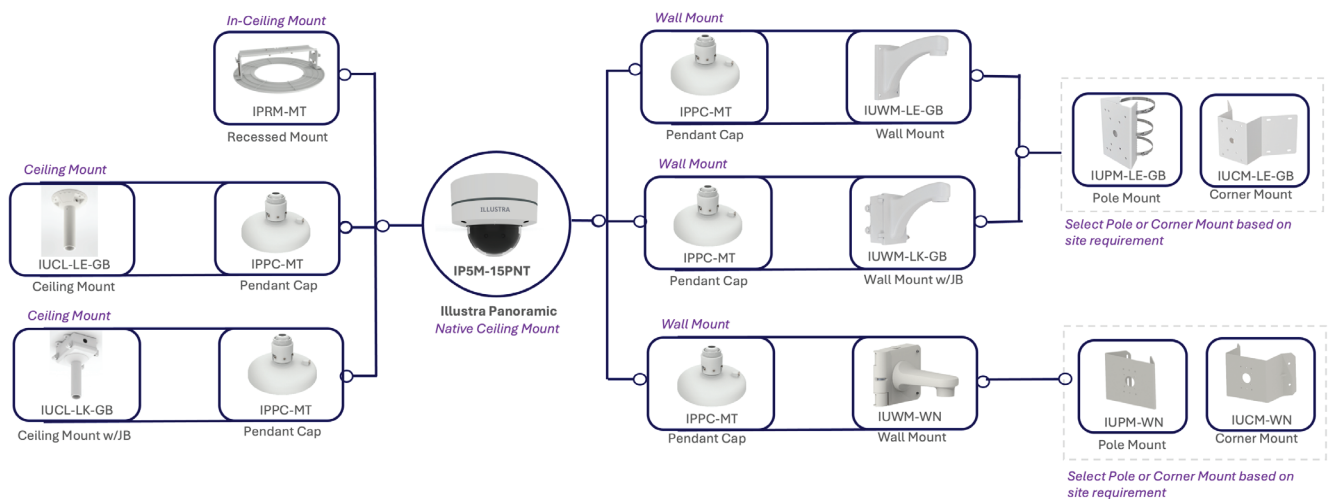
Part Number	Description
IP5M-15PNT	ILLUSTRA 15MP (5MP x3) Multisensor Panoramic (stitched), Fixed, TDN w/IR, TWDR, IP66/67, IK10

Optional Accessory

Part Number	Description
IPPC-MT	Illustra panoramic pendant cap
IPRM-MT	Illustra panoramic recessed mount
IPCA-MT	Illustra panoramic conduit adapter
IPCB-MT	Illustra panoramic clear bubble
IPSB-MT	Illustra panoramic 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-MT	Smoked Bubble kit IPSB-MT	Conduit Adapter IPCA-MT	60W 24V AC Power Supply ADSPOT	90w PoE Injector IA-POE-90-U00 IA-POE-90-U00-EU