



- 1/1.7" 12 Megapixel progressive scan STARVIS™ CMOS
- H.265 & H.264 triple-stream encoding
- 20fps@12M(4000×3000),25/30fps@4K(3840×2160)
- DWDR, Day/Night(ICR), 3DNR,AWB,AGC,BLC
- 4.1mm ~16.4mm zoom lens
- Max. IR LEDs Length 50m
- Micro SD memory, IP67, IK10, PoE+

System Overview

Ultra HD Surveillance is here - now you can capture your surveillance footage in stunning 4K resolution! The new ICIP-8000 series of 4K cameras paired with a compatible 4K series NVR will bring your surveillance system to new, unforeseen levels of clarity and resolution.

The ICIP-D8123-IR is a 12MP (> 4K) Day/Night, Motorized Zoom Dome camera. On top of the sensor sits a 4.1mm ~ 16.4mm motorized zoom lens which delivers a 105° ~ 35° horizontal field of view. 3 high intensity IR illuminators are equipped and yield 164" (50 meters) of IR distance, allowing long range shots as well.

This camera also represents the 'AI' line of smart cameras from ICRealtime. It's AI (Advanced Intelligence) suite of features includes: Tripwire, Intrusion, Missing/Abandoned Object, Face Detection, People Counting, and Heat Mapping. H265 compression is included standard as well to handle these extreme high resolutions.

Functions

ePoE Technology

ePoE technology adopts advanced 2D-PAM3 coding modulation from the physical layer and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. It supports PoE and PoC power supply technology, which has greatly simplified construction and wiring. ePoE technology offer a new way to accomplish long distance transmission between IP cameras and network switches. It allows for a more flexible surveillance system design, improves reliability, and saves on construction and wiring costs.

4K technology

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and

image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Advanced Intelligence (People Counting, Heatmap)

In addition to the basic IVS functions, such as Tripwires and Intrusion Zones, this camera also supports more advanced IVS solutions. Heat Maps will overlay different 'thermographic' colors depending on activity levels in a region ranging from blue to red, while People Counting is used to tally human traffic throughout a region of interest. People Counting and Heat Mapping provide essential analytic data for a variety of business applications by keeping track of key census and crowd density statistics.

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Environmental & Protection

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

Technical Specification

Camera

Image Sensor	1/1.7" 12 Megapixel progressive scan CMOS
Effective Pixels	4000(H)x3000(V)
RAM/ROM	1024MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.01Lux/F1.53(Color,1/3s,30IRE) 0.1Lux/F1.53(Color,1/30s,30IRE) 0Lux/F1.53(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 50m (164ft)
IR On/Off Control	Auto/ Manual
IR LEDs	3

Lens

Lens Type	Motorized /Auto Iris(HALL)				
Mount Type	Board-in				
Focal Length	4.1~16.4mm motorized				
Max. Aperture	F1.53				
Angle of View	H: 105°~35°, V:77°~26°(12MP,4:3) H: 101°~32°, V:57°~18°(8MP,16:9)				
Optical Zoom	4x				
Focus Control	Motorized				
Predictive Focus Algorithm (PFA)	Support				
Close Focus Distance	1m(3.28ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	377ft	151ft	75ft	36ft
	T	909ft	364ft	180ft	92ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°
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Intelligence

Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection, People Counting, Heat Map

Video

Compression	H.265(+)/H.264(+)/H.264B/H.264H/MJPEG(Sub Stream)
Streaming Capability	3 Streams
Resolution	12M(4000x3000)/ 4K(3840x2160)/6M(3072x2048)/ 5M(2560x1920)/ 3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480) / VGA(640x480)/ CIF(352x288/342x240)
Frame Rate	Main Stream: 12M(1~20fps)/ 4K(1~25/30fps) Sub Stream: D1 (1 ~ 25/30fps) Third Stream: 1080P(1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24~ 16384Kbps H.265: 14~ 9984Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR/ SSA
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto / Manual

Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	Support
Smart IR	Support
Defog	Support
Digital Zoom	16x
Flip	0° / 90° / 180° / 270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a/G.711Mu/AAC/ G.726
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Network

Ethernet	RJ-45 (100/1000Base-T)
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;SNMP;TLS
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
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Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

Power Supply	DC12V,AC24V, PoE+ (802.3at)(Class 4)
Power Consumption	<18W

Environmental

Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	159.1mmx117.9mm(6.26"x4.64")
Net Weight	0.96kg(2.12lb)
Gross Weight	1.75 kg(3.56lb)

Accessories

Dimensions (mm/in)

