

OS-I8-DEN12M-ALS | 12MP IR Dome Network Camera



- 1/1.7" 12Megapixel 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
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) &DMSS
- 4.1mm ~16.4mm zoom lens
- Max. IR LEDs Length 50m
- Micro SD memory,IP67,IK10,PoE+



System Overview

Ultra series adopts high performance DSP and Sony advanced image sensor technology, which can provide excellent image effects for users. With Osiris advanced software algorithm, the series is able to support people counting and heat map which brings extra business analysis value for customers. In addition, IP67, IK10 and heater compliance ensure the series can be applied in a harsher environment.

Functions

ePoE technology

The ePoE technology of Osiris, designed internally, adopts advanced 2D-PAM3 coding modulation from 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. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Osiris ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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.

E-PTZ function

E-PTZ (electronic -PTZ (pan / tilt / zoom function) . Is a virtual technology . Through E-PTZ function can be achieved on the local area pan, zoom and other functions . Mostly It appeared in Megapixel or more cameras.

Business intelligent analysis (People counting, Heatmap)

Osiris Camera also supports more advanced intelligent features such as people counting and heat map besides basic IVS functions. These two functions can be applied to business intelligence and bring extra values to customers. It is available to acquire daily, weekly, monthly and yearly people flow via people counting and output data report. Heat

map can be based on a moving object in time of space movement for analysis, find the most active area and output the report, which is to provide valuable data support for commercial applications.

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.)

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Technical Specifications

Camera					
Image Sensor	1/1.7" 12Megapixel 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	115 m (377 ft)	64 m (151 ft)	23 m (75 ft)	11 m (36 ft)
	T	227 m (909 ft)	111 m (364 ft)	55m (180 ft)	28 m (92 ft)
Pan / Tilt / Rotation					
Pan / Tilt / Rotation	Pan:0°~355° Tilt:0°~65° Rotation:0°~355°				
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)
Smart Codec	Support H.265+/H.264+
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
Private Masking	0°/90°/180°/270°
Audio	
Compression	G.711a/G.711Mu/AAC/ G.726
Network	
Ethernet	RJ-45 (100/1000Base-T)
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;RT-CP;SMTP; FTP;DHCP;DNS;D-DNS;PP-POE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Interoperability	ONVIF Profile S&G, API

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Technical Specifications (2)

Network (2)	
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Soft-ware	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android
Certifications	
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
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	DC 12V, AC 24V, 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	Φ159.1mm×117.9mm(Φ6.26"×4.64")
Net Weight	0.96kg(2.12lb)
Gross Weight	1.75 kg(3.56lb)

Accessories (optional)

In-Ceiling Mount PFB201C	Junction Mount PFA138
Wall Mount PFB210W	Pole Mount PFA152-E
Ceiling Mount PFB300C	Mount Adapter PFA101
ePoE Over Coax Converter LR1002	

Dimensions (mm/inch)

