

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;UD-P;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 | 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 | 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)

