

IPEL-D20V-IRS1

2MP Anti Corrosion Vandal IR Dome Network Camera



- 1/1.9" 2 Megapixel progressive CMOS
- H.265+ & H.264+ encoding
- 25/30fps@1080P(1920x1080)
- 316L stainless steel housing
- 4.1mm ~ 16.4mm motorized lens
- Max. IR LEDs Length 164' / 50m
- Micro SD memory, IP67, IK10, PoE

System Overview

Rated for the toughest, most corrosive marine conditions – the Elite Marine IP line of cameras

The IPEL-D20V-IRS1 is our latest camera designed for marine applications. It is a 2MP HD dome camera, constructed entirely out of stainless steel. The camera blocks the harshest and most abrasive elements from damaging it. The imaging chip is a 1/1.9" 2MP CMOS Starlight sensor that produces the ultimate sharpness in video imaging, while also producing vibrant colors in low-light situations.

Atop the imaging chip sits a powered-zoom, 4.1mm ~ 16.4mm motorized lens. This lens is fully controllable from any of our software interfaces, and the IR LEDs allow for 164' / 50m of night time illumination.

Functions

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Protection (IP67, IK10, Anti Corrosion Housing)

The camera is protected by a 316L Stainless steel housing for the most demanding conditions. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments

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

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265

Wide Dynamic Range(WDR)

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Technical Specification

Camera

Image Sensor	1/1.9" 2 MP progressive scan CMOS
Effective Pixels	1920(H)x1080(V)
RAM / ROM	1024MB / 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Minimum Illumination	0.002 Lux @ F1.53 (Color, 1/3s, 30IRE) 0.01Lux @ F1.53 (Color, 1/30s, 30IRE) 0 Lux @ 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: 92° ~ 32° V:53° ~ 18°
Optical Zoom	4x
Focus Control	Motorized
Close Focus Distance	1m

Intelligence

IVS	Tripwire, Intrusion, Object Abandoned / Missing
Advanced Intelligence	Face Detection, People Counting, & Heat Map

Video

Compression	H.265+ / H.265 / H.264+ / H.264
Streaming Capability	3 Streams
Resolution	1080P (1920x1080) / 1.3MP (1280x960) / 720P (1280x720) / D1 (704x576 / 704x480) / VGA (640x480) / CIF (352x288 / 342x240)
Frame Rate	Main Stream: 1080P (1 ~ 60fps) Sub Stream: D1 (1 ~ 60fps) Third Stream: 1080P (1 ~ 60fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24 ~ 10240Kbps H.265: 14 ~ 6144Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR (120dB) / 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)	N/A
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 (10/100Base-T)
Protocol	HTTP; HTTPS; TCP; ARP; RTPSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Interoperability	ONVIF, PSIA, CGI
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); 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 5V DC 1 Channel out: 1A 30V DC / 0.5A 50V AC

Electrical

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

Environmental

Operating Conditions	-40° F ~ 140° F / -40° C ~ 60° C; Less than 95% RH
Storage Conditions	-40° F ~ 140° F / -40° C ~ 60° C; Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Corrosion Protection	Meets NEMA 4x criteria

Construction

Casing	Metal
Dimensions	6.4"x4.7" / Φ162.5mm×118.1mm
Net Weight	4.96lb / 2.25kg
Gross Weight	6.61lb / 3kg

Accessories



Dimensions (mm/in)

