DS-2XC6244G1-LIRY
Stereo Vision 15m underwater camera



- Dual-lens with stereo vision for analytics, up to 4MP@50/60fps each channel
- Reliable polymer enclosure material with special anti-fouling coating effectively improves biofouling conditions
- Built-in dual wipers system both for illuminator and camera lens
- IP68 protection with maximum 15m depth underwater usage
- Switchable IR and white light illuminators
- Support large scale model training of algorithm to do fish counting and measurement

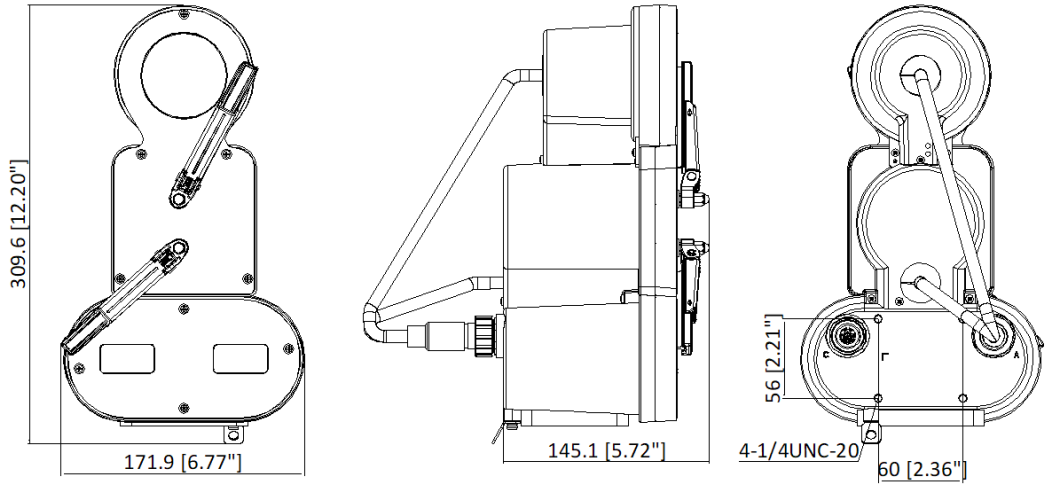
▪ Specification

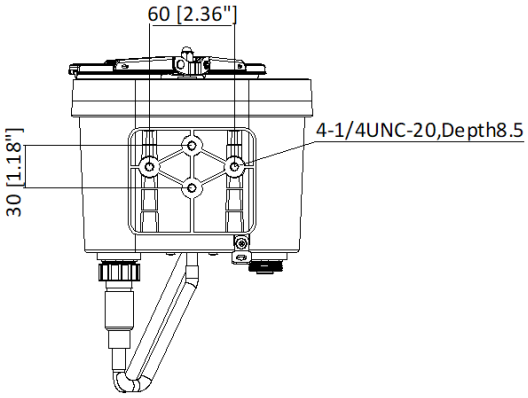
Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.0028 Lux @ (F1.2, AGC ON),B/W: 0.0014 Lux @ (F1.2, AGC ON)
Shutter Time	1/25 s to 1/100,000 s
Lens	
Focal Length & FOV	2.8 mm, horizontal FOV 69°, vertical FOV 39°, diagonal FOV78.6°
Lens Mount	M16
Illuminator	
Supplement Light Type	IR,White Light
Supplement Light Range	Turbidity (NTU) : 0 to 5, up to 2.5 m ; Turbidity (NTU) : 5 to 15, up to 1.5 m ; Turbidity (NTU) : > 15, up to 0.5 m
HEOP	
Open Resources	Memory: 150 MB, Smart RAM: 2700 MB, eMMC: 3200 MB
Computing Power	10 TOPS
Open Capability	HEOP 2.0 OpendevSDK Basic service, basic media capability, deep learning reasoning acceleration capability
Deep Learning Structure	Caffe,PyTorch,TensorFlow
Programming Language	C,C++
AI Open Platform	
Model Specification	Supports 4 model packages. The device runs only 1 model at the same time.
Task Type	Algorithm orchestration package combining object detection and image instance segmentation. Supports image capture polling analysis.
Event Type	Region target number counting, area overlap ratio counting
Rule Setting	Up to 16 rules. The number of rules that can be added for detection is consistent with the number of detection algorithm objects. The number of rules that can be added for instance segmentation is consistent with the number of instance segmentation algorithm objects.
Video	
Main Stream	【Channel 1】 50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 【Channel 2】 50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)

Sub-Stream	【Channel 1】 50 Hz：12.5 fps（3840*1080，1920*540） 60 Hz：10 fps（3840*1080，1920*540） 【Channel 2】 50 Hz：12.5 fps（3840*2160） 60 Hz：10 fps（3840*2160）
Third Stream	【Channel 1】 50 Hz：10 fps（1920*1080，1280*720，704*576，640*480） 60 Hz：12 fps（1920*1080，1280*720，704*576，640*480） 【Channel 2】 50 Hz：10 fps（1920*1080，1280*720，704*576，640*480） 60 Hz：12 fps（1920*1080，1280*720，704*576，640*480）
Video Compression	Main stream: H.265/H.265+/H.264/H.264+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile,Main Profile,High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR,VBR
Region of Interest (ROI)	8 fixed regions for main stream and sub-stream
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP
API	ONVIF (Profile S, Profile G),ISAPI,SDK,Ehome
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	iVMS-4200,Hik-Connect,Hik-Central
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Image Stabilization	EIS
Image Enhancement	BLC,3D DNR,Defog
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.
SNR	≥ 52 dB
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Alarm	2 inputs, 2 outputs (max. 12 VDC, 30 mA)

RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Deep Learning Function	
Fish Analytics	Support fish detection and counting with sample training
General	
Power	36 VDC, 0.7 A, max. 25 W Power Supply: 15 to 36 VDC, reverse polarity protection PoE: IEEE 802.3at, Class 4
Material	PPS
Dimension	171.9 mm × 309.6 mm × 145.1 mm (6.77" × 12.19" × 5.71")
Package Dimension	1381 mm × 351 mm × 329 mm (54.37" × 13.82" × 12.95")
Weight	Approx. 3990 g (8.8 lb.)
With Package Weight	Approx. 5430 g (11.97 lb.)
Startup and Operating Conditions	-20 °C to 40 °C (-4 °F to 104 °F)
Language	English
General Function	Heartbeat,password protection,flash log,pixel counter,anti-banding
Wiper	Yes
Approval	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, EN 50121-4: 2016+A1:2019
Safety	CE-LVD: EN 62368-1:2014/A11: 2017,CB: IEC 62368-1: 2014+A11
Protection	IP68:IEC 60529-2013

▪ Dimension





Unit: mm [inch]

Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
8-1/4UNC-20(60*30)	8-1/4UNC-20(2.36×1.18)

▪ Accessory

▪ Included

DS-1706ZJ-Y-AC(OS)


See Far, Go Further

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