NDAA COMPLAINT

TYPE APPROVED PRODUCT
DNV
DNV.COM/AF
Pending



**SKULD**
360 DEGREES MARINE CAMERA

# SKULD

## External Marine 360° Fixed Camera

### 0482-6052-ST

#### Benefits

- 12 Megapixel CMOS sensor
- 360° imaging technology / no moving parts
- Rugged IP67 316L stainless steel housing
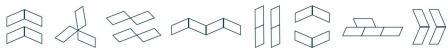- IR illuminators
- 180° Panoramic view

#### Applications

- Situational Awareness
- Commercial Vessels
- Naval Surface Ships
- Offshore Platforms

**imenco**
FUTURE TECHNOLOGIES

# 0482-6052-ST
## External Marine 360° Fixed Camera

## Performance, Electrical & Network

| | |
|---|---|
| Resolution | Sensor up to 2944 x 2944, 12MP (12MP Sensor with 8.6MP usable resolution) |
| Scene Illumination | 0.1Lux @ F2.0 colour day mode / 0.005 Lux @ F2.0 monochrome night mode |
| Sensor Type | 1/2.3" progressive CMOS |
| Video Compression | H.265, H.264 and MJPEG |
| Video Streaming | 3 simultaneous streams |
| Frame Rate | 1 to 30fps, 30fps at 2944 x 2944 resolution (WDR off); 20fps at 2944 x 2944 resolution (WDR on) |
| Digital Zoom | 12x digital zoom with client side de-warping software |
| IR Illuminators | Built in IR illuminators, effective up to 20 metres |
| Audio | Built-in microphone, effective range 5m; audio compression: G.711, G.276 |
| Network Interface | 10/100 Mbps Ethernet, ONVIF support & Milestone XProtect® compatible |
| Security | Access list, Account block, Audit log, Configurable password strength protection, CSRF protection, Digest authentication, HTTPS, IEEE 802.1x, Secure boot, Session timeout, Signed firmware, Trend Micro IoT Security (Brute force attack event, Cyberattack event, Quarantine event), User access log, User account management |
| Protocols | 802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP |
| Edge Storage | Micro SD/SDHC/SDXC card slot |
| Power Input | PoE+ IEEE802.3at Class 4, 22.5W Max IR On / 9.5W Max IR Off |
| Electro-Magnetic Compatibility | CISPR 22 EN55032, CISPR 24 EN55024, EN62368-1, EN60950-22 |
| DORI (Detection, Observation, Recognition, Identification) | D= 25PPM/ 8PPF– 31.5metres, O= 63PPM/ 19PPF– 12.5metres, R= 125PPM/ 38PPF– 6.3metres, I= 250PPM/ 76PPF– 3.1metres |
| Analytics | SoC with built-in hardware deep learning accelerator, Object Detection, Attribute Extraction, Deep Learning VCA, Smart Motion Detection, Loitering Detection, Line Crossing Detection, Unattended Object Detection, Missing Object Detection, Face Detection |

## Optical

| | |
|---|---|
| Standard Lens | 180°, F2.0, focal length 1.22mm |
| Iris Control | Electronic, automatic |
| Focus | Fixed focal |
| AOV in air | 180° horizontal x 180° vertical x 180° diagonal |

## Mechanical

| | |
|---|---|
| Dimensions | 190mm (Ø) x 76.4mm (H), including baseplate |
| Weight | 3.9Kg |
| Standard Housing | Electropolished 316L Stainless Steel, polycarbonate dome |
| Connector/Cable | In-line IP67 sealed RJ45 Tee Tube coupler on 3m LSZH CAT5e cable tail |
| MTBF | 996,484 hours |

## Environmental

| | |
|---|---|
| Approvals | CE, LVD, FCC, DNV Marine Type Approval to EN 60945 & IACS E10 (Pending) |
| Housing | IP67, IP66, IK10 |
| Temperature Operating / Storage | –40°C to +70°C / 95% RH (start-up should be done at above –25°C) / Storage: –40°C to +70°C |
| Shock | 30g, 25ms duration, shock handling test |
| Vibration | (Designed to) MIL-STD-167-1A Shipboard, 4 to 33Hz |

*Specification subject to change without any further notice*

For further information, email
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