

WISE 8K MARINE CAMERA

41 MP marine-grade camera for long-range detail



The WISE 8K Marine Camera is a robust, industrial-grade camera engineered for reliable operation in the most demanding offshore environments. Its 316L stainless steel housing withstands extreme temperatures and the corrosive, salt-laden atmospheres common to offshore wind, coastal and marine installations.

Equipped with an 8K ultra-high-resolution sensor, the camera delivers low-latency video for real-time monitoring of assets, activity and wildlife at long range. Its exceptional low-light performance produces clear, highly detailed imagery around the clock, supporting safety, compliance and operational awareness in the most challenging offshore conditions.

Built on industry-proven imaging technology and ruggedised in WISE Group's marine-grade 316L stainless steel enclosure.

Key Benefits:

- **Ease of Installation:** Ball-mount arms or wall brackets for flexible field mounting.
- **Exceptional Low-Light Performance:** Large 4/3" sensor for clear imagery in low light.
- **Versatile Deployment:** Built for offshore wind, coastal and industrial environments.

Advanced Features:

- **High-Resolution Imaging:** 41 MP at up to 15 fps, or 8K at up to 30 fps.
- **Rugged Build:** 316L stainless steel, IP66/IP67 rated.
- **Edge AI Ready:** On-camera analytics for wildlife, security and operations.
- **Cybersecurity:** FIPS 140-3 Level 3 key storage, signed firmware, secure boot.
- **Network Compatibility:** ONVIF-S compliant; broad standard protocol support.
- **Power:** PoE+ (IEEE 802.3at).

Applications:

- **Wildlife & environmental monitoring:** AI-assisted bird and bat observation to support offshore wind environmental compliance.
- **Turbine and infrastructure observation:** long-range visual monitoring of turbines, substations and offshore assets.
- **Site surveillance:** safety, security and situational awareness across offshore, coastal and industrial installations.
- **Remote operations:** visual verification of unmanned or manned assets from an onshore control room.

Technical Specifications:

CAMERA UNIT:	
Resolution / Frame Rate:	41 MP (7424 × 5568) at up to 15 fps; 8K at up to 30 fps.
Sensor:	4/3" progressive-scan RGB CMOS
Zoom:	50–150 mm, F4.0
Day / Night Functionality:	Automatically removable IR-cut filter in day mode and IR-pass filter 800–900 nm in night mode
Minimum Illumination:	0.2 lux at 50 IRE, F4.0
Protocols:	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS 2, TLS, HTTP/, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIBII), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP/ RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/ v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)
Video Compression:	H.264 / H.265
Power:	PoE+ (IEEE 802.3at, Type 2 Class 4).
Power Consumption:	35W max
Max Cable Length (PoE):	75m

HOUSING :	
Material:	316L stainless steel
Dimensions:	Ø178mm x 272mm
Weight:	9.65kg
Ingress Protection:	IP66 / IP67
Vandal Rating :	IK10 Body, IK08 glass
Operating Temperature:	-40°C to +55°C
Cable Entries:	2x M20
Mounting Options:	Wall mounting bracket Adjustable ball mount

CYBERSECURITY:	
Secure Key Storage:	FIPS 140-3 Level 3 certified
Boot Integrity:	Signed firmware, secure boot
Secure Communications:	TLS, HTTPS, SRTP
Network Hardening:	Role-based access control, 802.1X network authentication

Built for ultra-detailed, long-range surveillance