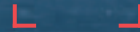OSCAR

smart vision safe navigation

920 m
12 kn

YOUR VESSEL'S THIRD EYE

OSCAR detects floating objects early, using thermal and optical cameras to catch even objects that escape conventional systems such as Radar or AIS: unsignalled craft, floating obstacles, buoys, inflatables, kayaks and persons over board.

NOW
YOU
SEE.

- OSCAR is your intelligent, untiring 24-hour multi-purpose lookout. OSCAR detects, identifies and monitors floating obstacles of any size and kind, by day and night, and even in the most adverse conditions.

- OSCAR computes input from lowlight and thermal cameras, using latest Machine Vision technology, best-in-class deep learning capabilities and a proprietary database of millions of annotated marine objects.

- OSCAR boosts situational awareness by displaying safety-relevant information in an easy-to-understand way. Operate your OSCAR intuitively without prior training.

- OSCAR uses intelligent object recognition and makes smart decisions. Rely on OSCAR to sound the appropriate alarms at the appropriate moment.

- OSCAR systems come in a multitude of versions to fit the profiles of recreational motor and sailing yachts, commercial fleets, authorities (Police, Coast Guard, Navy), first responders (DGzRS, RNLI, SNSM etc.), and autonomous vehicle manufacturers (USV)
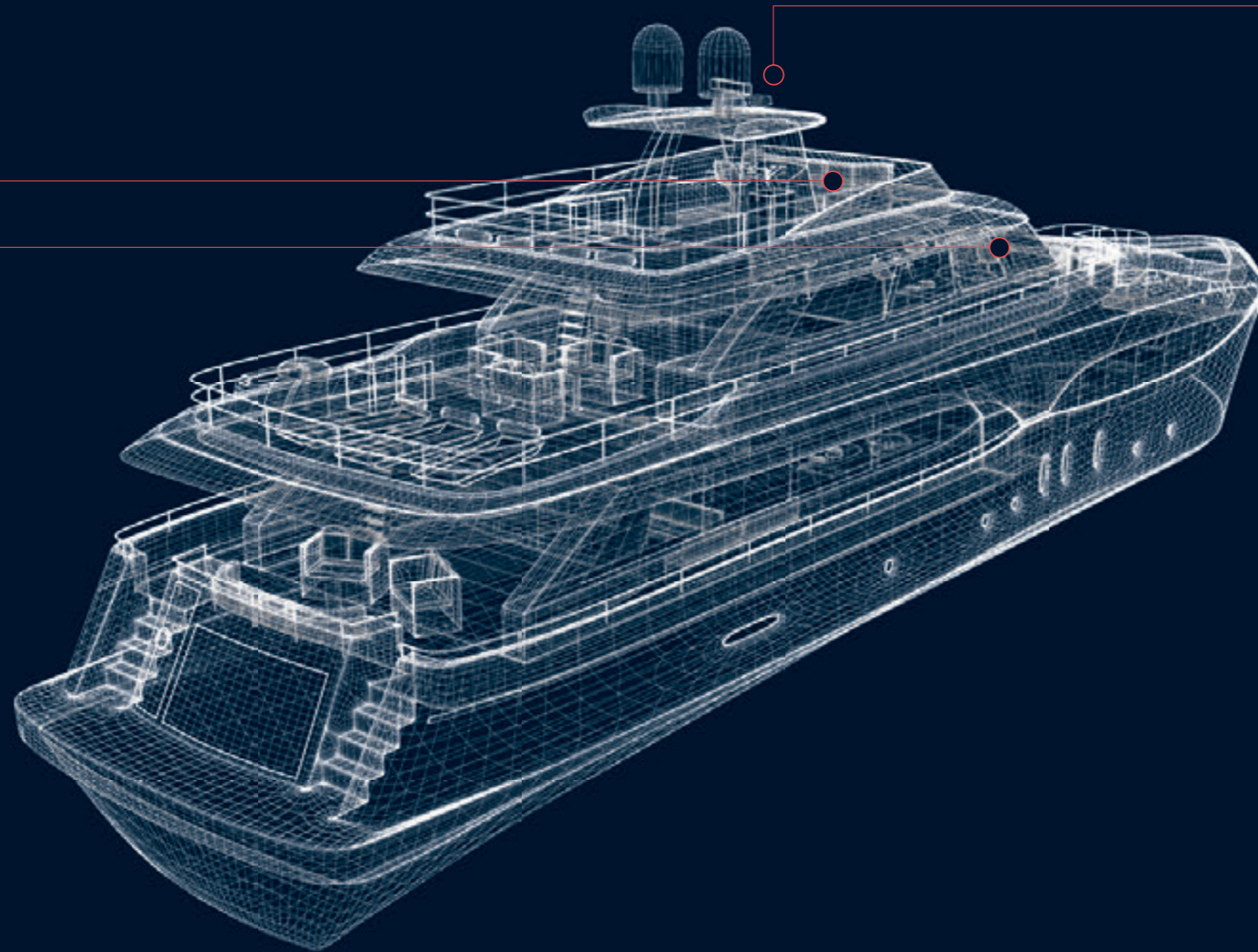
	AIS	Radar	OSCAR
Detecting land structures	–	✓	–
Detecting squalls / weather fronts	–	✓	–
Detecting ships / large boats	✓	✓	✓
Recognizing ships / large boats	✓	–	✓
Detecting small boats	–	–	✓
Recognizing small boats	–	–	✓
Detecting persons in water	–	–	✓
Dectecting other floating obstacles	–	–	✓

HOW IT WORKS

ON-BOARD CAMERAS WITH INTEGRATED IMAGE PROCESSING

- Combination of high-resolution lowlight and thermal cameras. Detection of temperature differences up to 0.05°C
- Real-time learning of water surface patterns. Discriminating water from non-water
- Detecting anomalies on the water surface
- Comparing anomalies with data base using neural network with 100,000s of filters to detect and identify marine objects

ON-BOARD UI / UX

- Augmented reality video stream combined with map view
- Intelligent alarming based on threat level

REGULAR UPDATES

PROPRIETARY OSCAR DATABASE

- 5+ million annotated marine objects
- 300,000+ nautical miles on-water experience around the world
- Continuously growing and improving
- Regular over-the-air updates (e.g. red sea update, iceberg update)

OSCAR SENTRY

Comprehensive optical and thermal camera setup, complemented with a powerful external processing unit. Longest detection range, widest detection angle and fastest detection frequency improve performance in unfavorable sea conditions. Object tracking and manual panning/tilt support 360° perimeter surveillance both at anchor and under way.

Superior 360° situational awareness and surveillance for commercial vessels, government craft, first responders and motor yachts.

1,780 m
15 kn

AWARD WINNER 2021

INNOVATION AWARDS
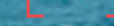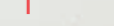
OSCAR SENTRY

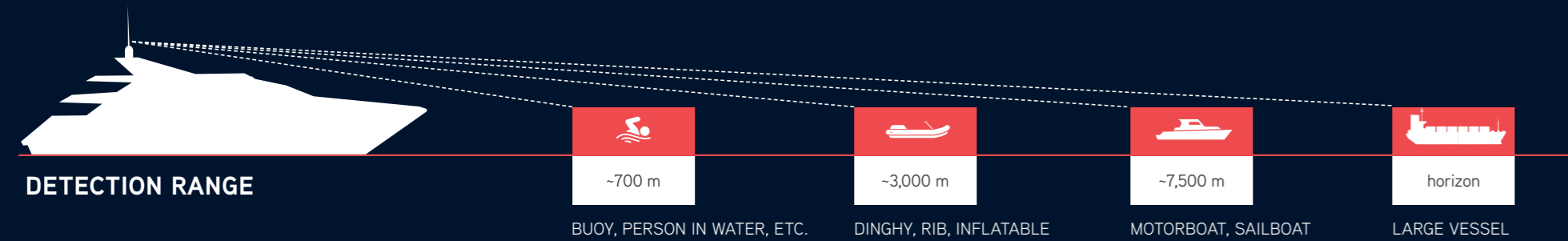|	DETECTION ANGLE DAYLIGHT & TWILIGHT	DETECTION ANGLE NIGHT	DETECTION FREQUENCY	RESOLUTION	PAN tilt	WEIGHT AT MAST	MSRP
OSCAR SENTRY	360°	360°	10/sec	2x thermal: 640x512 px 2x lowlight: 2592x1944 px	360° +/- 20°	5.4 kg	€ 39,999

DETECTION RANGE

~700 m	~3,000 m	~7,500 m	horizon
BUOY, PERSON IN WATER, ETC.	DINGHY, RIB, INFLATABLE	MOTORBOAT, SAILBOAT	LARGE VESSEL

TOTAL AWARENESS

OSCAR SENTRY KEY FUNCTIONS

COLLISION AVOIDANCE
Forward panning. Intelligent alarming of impending collision risk with objects in the vessel's path.

PERIMETER SURVEILLANCE
360° scanning of a vessel's surroundings. Intelligent alarming of approaching objects entering a selected perimeter.

OBJECT TRACKING
Keep selected object in the screen center to track a tender or keep an eye on suspicious developments.

MANUAL CONTROL
Investigate areas and objects of interest using 16x electronic zoom.

OSCAR OFFSHORE

State-of-the-art AI-based safety and convenience for blue water sailing.

1,250 m
6 kn

OSCAR OFFSHORE ONE

The compact sailing OSCAR: A revolutionary design with 3 cameras (1 RGB, 2 thermal) and AI processing unit contained in one single masthead unit to save space, weight and energy.

OSCAR OFFSHORE 320

The ocean wanderer´s OSCAR: Standard detection range for safe offshore cruising with an eye on energy consumption. Advanced electronic image stabilization and 6 frames/second detection frequency for reliable performance even in unfavorable sea conditions.

OSCAR OFFSHORE 640

The ultimate sailing OSCAR: Full processing power together with highest resolution thermal cameras deliver higher display resolution, improved e-zoom capabilities and superior detection performance (extended range, smaller objects) for serious offshore sailing in uncompromising safety.

OSCAR OFFSHORE

	DETECTION ANGLE DAYLIGHT & TWILIGHT	DETECTION ANGLE NIGHT	DETECTION FREQUENCY	RESOLUTION	PAN tilt	WEIGHT AT MAST	MSRP
OSCAR OFFSHORE ONE	50°	50°	3/sec	2x thermal: 320x256 px 1x lowlight: 2592x1944 px	n.a. (no tilt)	990 g	€ 9,999
OSCAR OFFSHORE 320	110°	50°	6/sec	2x thermal: 320x256 px 1x lowlight: 2592x1944 px	n.a. (no tilt)	990 g	€ 19,999
OSCAR OFFSHORE 640	110°	50°	6/sec	2x thermal: 640x512 px 1x lowlight: 2592x1944 px	n.a. (no tilt)	990 g	€ 29,999
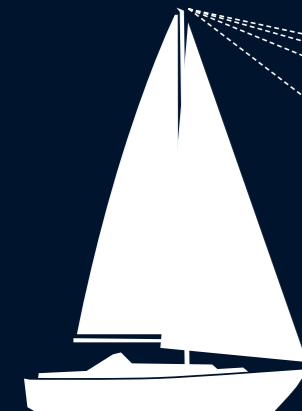
DETECTION RANGE

	OSCAR OFFSHORE 320	OSCAR OFFSHORE 640
BUOY, PERSON IN WATER, ETC.	~100 m	~150 m
DINGHY, RIB, INFLATABLE	~450 m	~750 m
MOTORBOAT, SAILBOAT	~1,300 m	~2,000 m
LARGE VESSEL	horizon	horizon
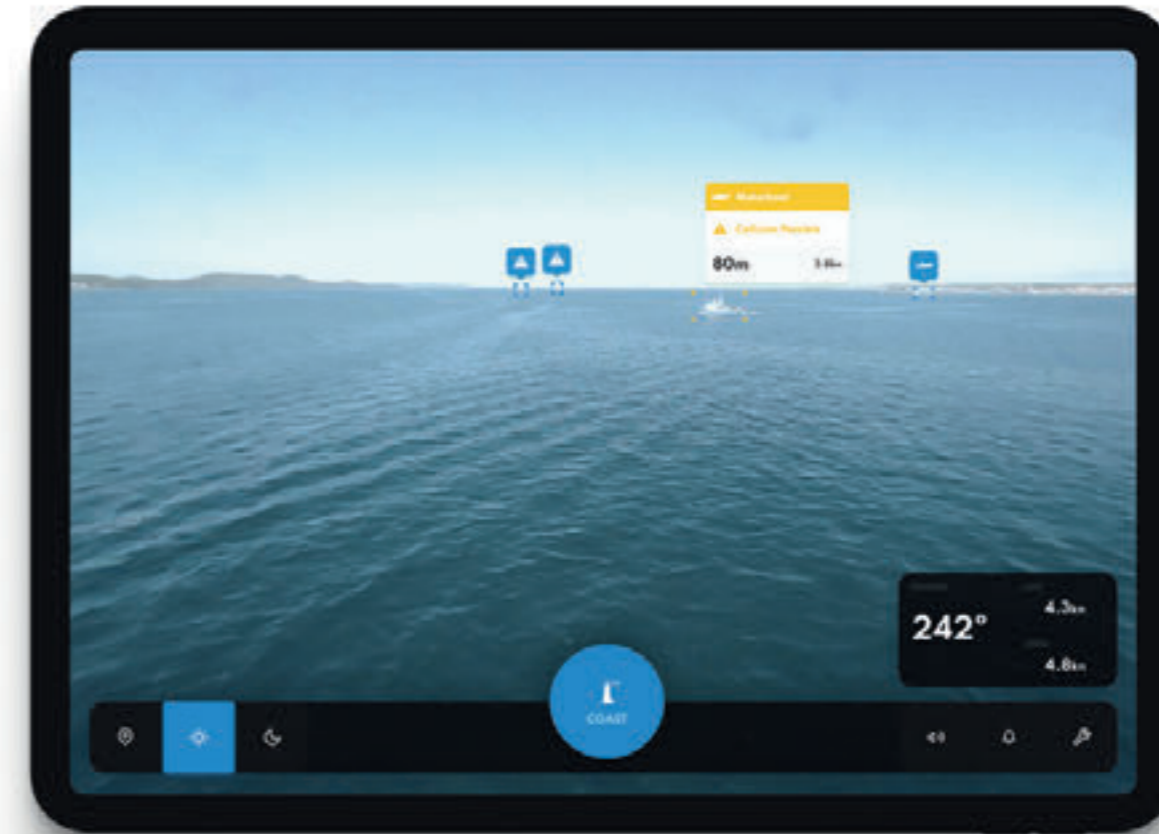
The OSCAR system feeds into your chart plotter, on-board computer, tablet or smartphone. The user interface displays a choice of three viewing modes: low light augmented reality view, thermal augmented reality view and map view.

OSCAR COMPETITION

Ultra-lightweight units for rotating masts of performance yachts and offshore raceboats provide reliable object detection when the name of the game is "go to the limits and come back alive".

OSCAR COMPETITION 320

The reduce-to-the-max racing OSCAR: Ultra-lightweight 750g masthead camera unit for rotating rigs. Standard detection range, electronic image stabilization, automatic mast rotation compensation, +/-50˚ manual panning, reduced energy consumption.

OSCAR COMPETITION 640

The radical racing OSCAR: Ultra-lightweight 750g masthead camera unit for rotating rigs. Extended detection range, advanced electronic image stabilization, automatic mast rotation compensation and +/-50˚ manual panning.

OSCAR COMPETITION

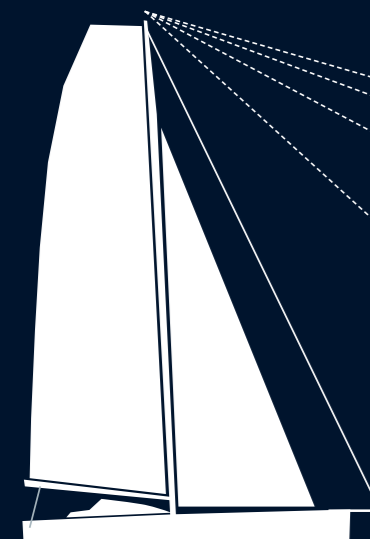|	DETECTION ANGLE DAYLIGHT & TWILIGHT	DETECTION ANGLE NIGHT	DETECTION FREQUENCY	RESOLUTION	PAN tilt	WEIGHT AT MAST	MSRP
OSCAR COMPETITION 320	110°	50°	3/sec	2x thermal: 320x256 px 1x RGB: 1920x1080 px	+/- 50° (no tilt)	750 g	€ 23,999
OSCAR COMPETITION 640	110°	50°	3/sec	2x thermal: 640x512 px 1x RGB: 1920x1080 px	+/- 50° (no tilt)	750 g	€ 34,999

DETECTION RANGE

OSCAR COMPETITION 320 OSCAR COMPETITION 640	~100 m ~150 m	~450 m ~750 m	~1,300 m ~2,000 m	horizon horizon
	BUOY, PERSON IN WATER, ETC.	DINGHY, RIB, INFLATABLE	MOTORBOAT, SAILBOAT	LARGE VESSEL

242°   4.3km   4.6km
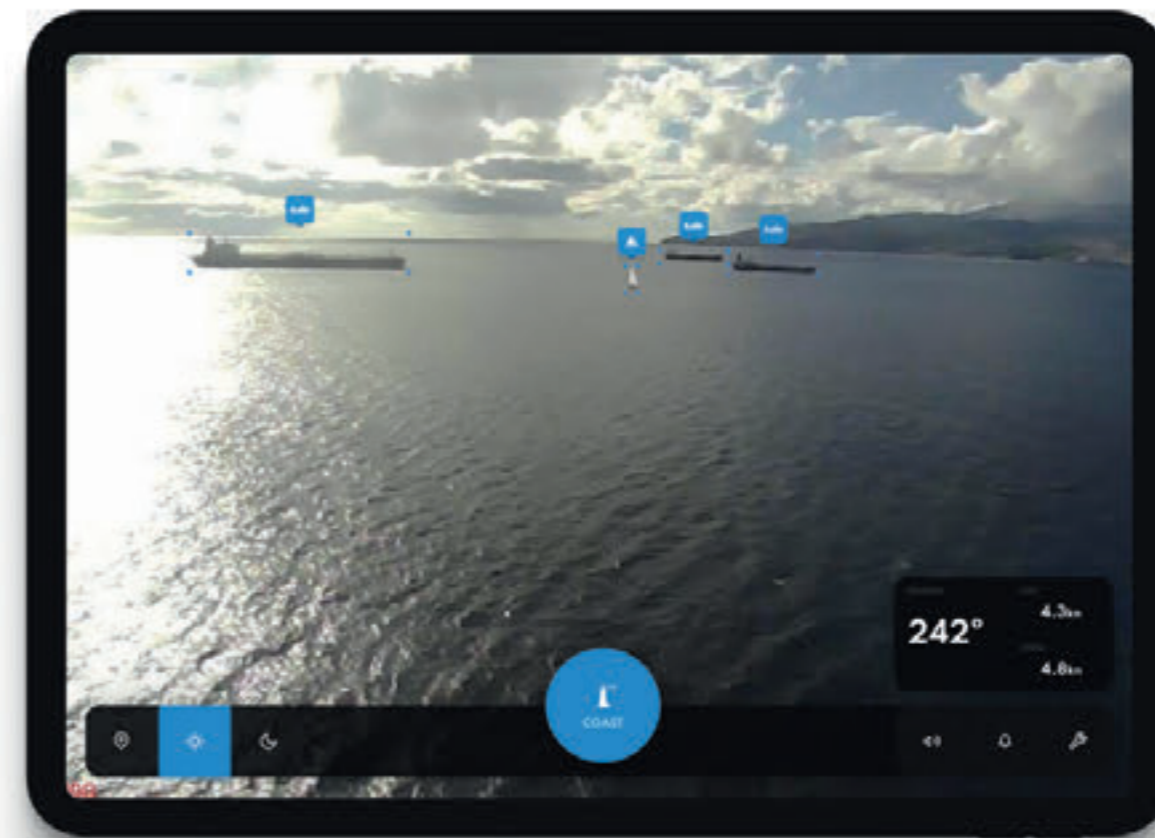
Control your OSCAR system with the OSCAR APP on your smartphone or tablet (android and iOS), your chart plotter or an onboard computer.

AT YOUR SERVICE

INSTALLATION SUPPORT

The OSCAR dealer and service network is growing fast. For professional installation of OSCAR units and ongoing support, please consult your nearest dealer.

OVER THE AIR UPDATES & PERFORMANCE IMPROVEMENTS

OSCAR Artificial Intelligence draws from an ever-growing database. Updates at regular intervals make your OSCAR system smarter and smarter.

REMOTE SOFTWARE SERVICE SUPPORT

Remote support ensures the reliable performance of your OSCAR system wherever your yacht is headed - and that includes the remotest corners of the planet.

OSCAR SENTRY

Art. Nr.	Product	Description	MSRP Incl. 20% VAT (€)
6100	OSCAR SENTRY	OSCAR Sentry unit; 2 thermal cameras 640 x 512 px, 25° HFOV, 14 mm and 640 x 512, 8° HFOV , 50 mm; 2 low light RGB cameras 2560 x 1944 px , 34° HFOV , 8 mm and 2560 x 1944 px , 8° HFOV, 35 mm; p-an and tilt range 360°/±20°	39,999
6120	OSCAR SENTRY Installation kit, 10 m	Special OSCAR Sentry cable set with connectors (power and data combined) for connection between Sentry unit and boat systems; 10m length; mounting bracket, mounting screws; suitable for item 6100	790
6121	OSCAR SENTRY Installation kit, 20 m	Special OSCAR Sentry cable set with connectors (power and data combined) for connection between Sentry unit and boat systems; 20m length; mounting bracket, mounting screws; suitable for item 6100	1,290

An annual software license must be paid one year after the software registration (the first year is free), to ensure the full functionality of the system. The cost of the annual software license is € 999 (incl. VAT) for OSCAR SENTRY. The annual software license is required for performance improvements (object detection, AI functionality) and compatibility updates (smartphones, tablets, ...) and does not include installation nor services. Expired licences will limit the alarming function.

OSCAR OFFSHORE

Art. Nr.	Product	Description	MSRP Incl. 20% VAT (€)
1100	OSCAR OFFSHORE ONE	OSCAR Offshore One unit; 2 thermal cameras 320 x 256 px (50° vision) 1 low light RGB camera 2592 x 1944 px (110° vision)	9,999
3100	OSCAR OFFSHORE 320	Vision unit Offshore 320, processing unit (2nd generation) 2 thermal cameras 320 x 256 px (50° vision) 1 low light RGB camera 2592 x 1944 px (110° vision)	19,999
3110	OSCAR OFFSHORE 640	Vision unit Offshore 640, processing unit (2nd generation) 2 thermal cameras 640 x 512 px (50° vision) 1 low light RGB camera 2592 x 1944 px (110° vision)	29,999
1110	OSCAR OFFSHORE ONE Installation kit B&G/Simrad	Mounting bracket, windsensor bracket, screws, 25m cable set (power cable, Ethernet cable, connectors) for connection to B&G/Simrad devices suitable for item 1100	599
1111	OSCAR OFFSHORE ONE Installation kit Raymarine	Mounting bracket, windsensor bracket, screws, 25m cable set (power cable, Ethernet cable, connectors) for connection to Raymarine devices; suitable for item 1100	599
1112	OSCAR OFFSHORE ONE installation kit Garmin	Mounting bracket, windsensor bracket, screws, 25m cable set; (power cable, Ethernet cable, connectors) for connection to Garmin devices; suitable for item 1100	599
1113	OSCAR OFFSHORE ONE Installation kit universal (RJ45 and NMEA2000)	Mounting bracket, windsensor bracket, screws, 25m cable set (power cable, Ethernet cable, connectors)for connection to all RJ45 devices and NMEA2000 networks suitable for item 1100	599
3120	OSCAR OFFSHORE 320 / 640 installation kit, 30 m	Mounting bracket, windsensor bracket, screws, 30m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation); suitable for item 3100, 3110	499
3121	OSCAR OFFSHORE 320 / 640 installation kit, 35 m	Mounting bracket, windsensor bracket, screws, 35m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation); suitable for item 3100, 3110	549
3122	OSCAR OFFSHORE 320 / 640 installation kit, 45 m	Mounting bracket, windsensor bracket, screws, 45m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation); suitable for item 3100, 3110	699
3123	OSCAR OFFSHORE 320 / 640 installation kit, 55 m	Mounting bracket, windsensor bracket, screws, 55m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation); suitable for item 3100, 3110	749
3124	OSCAR OFFSHORE 320 / 640 installation kit, 70 m	Mounting bracket, windsensor bracket, screws, 70m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation); suitable for item 3100, 3110	999

OSCAR OFFSHORE

Art. Nr.	Product	Description	MSRP Incl. 20% VAT (€)
3140	Ethernet cable Processing Unit (2nd generation) - B&G/Simrad, 7 m	Connection cable between processing unit (2nd generation) and B&G/Simrad devices, 7m length; suitable for item 2200, 2210, 3100, 3110	179
3141	Ethernet cable Processing Unit (2nd generation) - B&G/Simrad, 15 m	Connection cable between processing unit (2nd generation) and B&G/Simrad devices, 15m length; suitable for item 2200, 2210, 3100, 3110	249
3142	Ethernet cable Processing Unit (2nd generation) - Raymarine, 10 m	Connection cable between processing unit (2nd generation) and Raymarine Raynet, 10m length; suitable for item 2200, 2210, 3100, 3110	179
3143	Ethernet cable Processing Unit (2nd generation) - Raymarine, 20 m	Connection cable between processing unit (2nd generation) and Raymarine Raynet, 20m length; suitable for item 2200, 2210, 3100, 3110	249
3144	Ethernet cable Processing Unit (2nd generation) - Garmin, 6 m	Connection cable between processing unit (2nd generation) and Garmin devices, 6m length; suitable for item 2200, 2210, 3100, 3110	129
3145	Ethernet cable Processing Unit (2nd generation) - Garmin, 12 m	Connection cable between processing unit (2nd generation) and Garmin devices, 12m length; suitable for item 2200, 2210, 3100, 3110	179
3146	Ethernet cable Processing Unit (2nd generation) - universal (RJ45), 6 m	Connection cable between processing unit (2nd generation) and standard Ethernet devices (RJ45), 6m length; suitable for item 2200, 2210, 3100, 3110	129
3147	Ethernet cable Processing Unit (2nd generation) - universal (RJ45), 20 m	Connection cable between processing unit (2nd generation) and standard Ethernet devices (RJ45), 20m length; suitable for item 2200, 2210, 3100, 3110	179

An annual software license must be paid one year after the software registration (the first year is free), to ensure the full functionality of the system. The cost of the annual software license is € 199 (incl. VAT) for OSCAR OFFSHORE ONE, € 499 (incl. VAT) for OSCAR OFFSHORE 320 and € 699 (incl. VAT) for OSCAR OFFSHORE 640. The annual software license is required for performance improvements (object detection, AI functionality) and compatibility updates (smartphones, tablets,..) and does not include installation nor services. Expired licences will limit the alarming function.

OSCAR COMPETITION

Art. Nr.	Product	Description	MSRP Incl. 20% VAT (€)
2200	OSCAR COMPETITION 320	Vision unit Competition 320, processing unit (2nd generation); 2 thermal cameras 320 x 256 px (50° vision) 1 RGB camera 1920 x 1080 px (110° vision) pan range: +/-50°	23,999
2210	OSCAR COMPETITION 640	Vision unit Competiton 640, processing unit (2nd generation); 2 thermal cameras 640 x 512 px (50° vision) 1 RGB camera 1920 x 1080 px (110° vision) pan range: +/-50°	34,999
2220	OSCAR COMPETITION Installation kit (<30 m)	Mounting bracket, screws, 30m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation) suitable for item 2200, 2210	499
2221	OSCAR COMPETITION Installation kit (35m)	Mounting bracket, screws, 35m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation) suitable for item 2200, 2210	549
2222	OSCAR COMPETITION Installation kit (45m)	Mounting bracket, screws, 45m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation) suitable for item 2200, 2210	699
2223	OSCAR COMPETITION Installation kit (55m)	Mounting bracket, screws, 55m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation) suitable for item 2200, 2210	749
2224	OSCAR COMPETITION Installation kit (70m)	Mounting bracket, screws, 70m cable set (power cable, Ethernet cable, connectors) for connection between vision unit and processing unit (2nd generation) suitable for item 2200, 2210	999
2130	OSCAR COMPETITION wind sensor mounting bracket	Lightweight reinforced wind sensor bracket (CFRP), universal mount, suitable for item 2200, 2210	299

An annual software license must be paid one year after the software registration (the first year is free), to ensure the full functionality of the system. The cost of the annual software license is € 499 (incl. VAT) for OSCAR COMPETITION 320 and € 699 (incl. VAT) for OSCAR COMPETITION 640. The annual software license is required for performance improvements (object detection, AI functionality) and compatibility updates (smartphones, tablets,...) and does not include installation nor services. Expired licences will limit the alarming function.