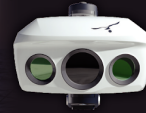


# OSCAR

www.oscar-navigation.com



## Smart Detection of Floating Objects Day & Night



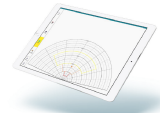
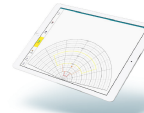
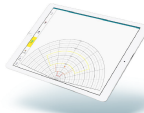
Model	OSCAR Advanced 320	OSCAR Advanced 640	OSCAR One 320
<b>Vision Unit</b>			
Thermal Cameras	2 x FLIR BOSON™ 320 x 256	2 x FLIR BOSON™ 640 x 512	2 x FLIR BOSON™ 320 x 256
Field of view (HFOV / VFOV)	50° / 34°	50° / 32°	50° / 34°
Daylight (RGB) Camera	1920 x 1080	1920 x 1080	1920 x 1080 (no object detection on RGB)
Field of view (HFOV / VFOV)	110° / 96°	110° / 96°	110° / 96°
Onboard Inertial Measurement Unit	6 DoF sensor	6 DoF sensor	6 DoF sensor
Onboard Processing Unit	Quad Core 1.2GHz	Quad Core 1.2GHz	1x NVIDIA Jetson Xavier NX
Pan range	±50°	±50°	-
Power Supply	24V DC	24V DC	12 - 24V DC
Mean Power Consumption	11W - Max 12W	11W - Max 12W	16W - Max 20W
Interfaces / connectors	Power Ethernet	Power Ethernet	Power Ethernet USB 2.0 NMEA 2000 Alarm Buzzer
Operating Temperature	-15 to 50°C	-15 to 50°C	-15 to 50°C
Weight	750g; cables: 104g/m	750g; cables: 104g/m	990g; cables: 104g/m
Dimensions	144 x 114 x 96 mm	144 x 114 x 96 mm	190 x 143 x 106mm
Mast Fixation Vertical adjustable bracket	±15° / 150g	±15° / 150g	±15° / 95g
Shock resistance / IP Code	12G / IP67	12G / IP67	10G / IP67

### Processing Unit



Onboard Processing Unit	2x NVIDIA™ Jetson™	2x NVIDIA™ Jetson™	Processing Unit included in Vision Unit
Interfaces / connectors	2 x Power 2 x Ethernet USB 2.0 Wi-Fi NMEA 2000 Alarm Buzzer Fuse holder	2 x Power 2 x Ethernet USB 2.0 Wi-Fi NMEA 2000 Alarm Buzzer Fuse holder	-
Power Supply	24V DC	24V DC	-
Mean Power Consumption	16W - Max 20W	16W - Max 20W	-
Weight	1550g	1550g	-
Dimensions	219 x 187 x 81 mm	219 x 187 x 81 mm	-
Assembly bracket	100g	100g	-

### User interface - OSCAR NAVIGATION application



Thermal detection	yes	yes	yes
RGB detection	yes	yes	no
Large-sized object detection range (e.g. yacht, fishing vessel, cargo)*	1000m	1500m	1000m
Medium-sized object detection range (e.g. RIB, channel marker)*	250m	375m	250m
Small-sized object detection range (e.g. mooring buoy)*	100m	150m	100m
Min. mounting height above water (vision unit)	8m	8m	8m (max. 24m)
Obstacle Map	yes	yes	yes
Customized Danger Zone	yes	yes	yes
Customized Alarm	yes	yes	yes
Display options:	Latest Firefox, Chrome or iOS, Android App	Latest Firefox, Chrome or iOS, Android App	Latest Firefox, Chrome or iOS, Android App
MFD Integration	B&G: Zeus3, Zeus 3S, Zeus 3S Glass Helm Simrad: Evo 3S Raymarine: Axiom, Axiom Pro Furuno: TZtouch3 Series TZ19F/12F/16F/19F Garmin: GPSMAP 922 Plus	B&G: Zeus3, Zeus 3S, Zeus 3S Glass Helm Simrad: Evo 3S Raymarine: Axiom, Axiom Pro Furuno: TZtouch3 Series TZ19F/12F/16F/19F Garmin: GPSMAP 922 Plus	B&G: Zeus3, Zeus 3S, Zeus 3S Glass Helm Simrad: Evo 3S Raymarine: Axiom, Axiom Pro Furuno: TZtouch3 Series TZ19F/12F/16F/19F Garmin: GPSMAP 922 Plus

\*Actual object detection range performance may vary depending on environmental and weather conditions.  
All specifications are subject to change without notice - visit [www.oscar-navigation.com](http://www.oscar-navigation.com) for the most up-to-date specifications