












Vision UNIT				
Range				
Model	OSCAR Advanced 320	OSCAR Advanced 640	OSCAR One 320	OSCAR Custom Power
Thermal Cameras	2 x FLIR BOSON™	2 x FLIR BOSON™	2 x FLIR BOSON™	3 x FLIR BOSON™
Total HFOV	320 x 256 50°	640 x 512 50°	320 x 256 50°	640 x 512 123°
Colour Camera RGB	1920 x 1080	1920 x 1080	1920 x 1080	-
Field of View	120°	120°	120°	-
Onboard Inertial Measurement Unit	6 DoF sensor	6 DoF sensor	6 DoF sensor	6 DoF sensor
Onboard Processing Unit	Quad Core 1,2GHz	Quad Core 1,2GHz	1x NVIDIA™ Jetson™	1x NVIDIA™ Jetson™
Horizontal Rotation	±50°	±50°	-	-
Power Supply	12 or 24V DC	12 or 24V DC	12 - 24V DC	12 or 24V DC
Mean Power Consumption Typical	11W - Max 12W	11W - Max 12W	16W - Max 20W	16W - Max 20W
Interfaces	Power Ethernet	Power Ethernet	Power connector Ethernet connector USB 2.0 (service only) NMEA 2000 Alarm Buzzer	Power connector Ethernet connector USB 2.0 (service only)
Operating Temperature	-5 to 50°C	-5 to 50°C	-5 to 50°C	-5 to 50°C
Weight	750g	750g	990g	990g
Dimensions	144 x 114 x 96 mm	144 x 114 x 96 mm	190 x 143 x 106mm	190 x 143 x 106mm
Mast Fixation Vertical adjustable bracket	±15° / 150g	±15° / 150g	±15°	±15°
Shock resistance / IP Code	12G / IP67	12G / IP67	10G / IP67	10G / IP67
Processing UNIT				
Onboard Processing Unit			-	
Interfaces	1x NVIDIA™ Jetson™ 2 x Power connectors 2 x Ethernet connectors USB 2.0 Wi-Fi NMEA 2000 Alarm Buzzer Fuse holder	2x NVIDIA™ Jetson™ 2 x Power connectors 2 x Ethernet connectors USB 2.0 Wi-Fi NMEA 2000 Alarm Buzzer Fuse holder	-	2x NVIDIA™ Jetson™ 2 x Power connectors 2 x Ethernet connectors USB 2.0 Wi-Fi NMEA 2000 Alarm Buzzer Fuse holder
Power Supply	12 or 24V DC	12 or 24V DC	-	12 or 24V DC
Mean Power Consumption	Typical 16W - Max 20W	Typical 16W - Max 20W	-	Typical 16W - Max 20W
Operating Temperature	-5 to 50°C	-5 to 50°C	-	-5 to 50°C
Weight	1550g	1550g	-	1550g
Dimensions	219 x 187 x 81 mm	219 x 187 x 81 mm	-	219 x 187 x 81 mm
Boat Fixation	Assembly bracket 100g / Industrial Velcro	Assembly bracket 100g / Industrial Velcro	-	Assembly bracket 100g / Industrial Velcro
User APP				
Object detection				
Object detection	1x1m² in up to 75m	1x1m² in up to 150m	1x1m² in up to 75m	1x1m² in up to 250m (HFOV 25°) 1x1m² in up to 100m (HFOV 123°)
Detection limit	600m	1000m	600m	2000m
Object Tracking	yes	yes	yes	yes
Obstacle Map	yes	yes	yes	yes
Customized Danger Zone	yes	yes	yes	yes
Customized Alarm	yes	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	Latest Firefox, Chrome or iOS, Android App
MFD Integration	B&G, Garmin	B&G, Garmin	B&G, Garmin	B&G, Garmin