



TEOSS 350

- Stabilised marine night vision system for patrol boats and larger vessels.
- Unstabilised night vision system for coastal, vehicle and land applications.
- Built to withstand the harsh marine environment.



DESCRIPTION

The TEOSS 350 has been designed to fulfil the expectations of ships officers, operators and navies who have used similar systems world wide. Our systems are renowned for their long service life at sea. The TEOSS 350 has been developed to operate continuously for long periods when exposed to severe marine conditions and is designed to be upgradeable to avoid redundancy and minimise lifetime cost. Modular design and fully digital command and control ensure that the TEOSS 350 system is very flexible and able to accommodate a wide range of sensors to achieve the desired performance levels at a competitive price. Standard features include internal heating and wash wipe and NMEA interface with radar, GPS and heading gyro. The date, time, ship position and heading can be displayed and recorded for evidence using the VCR output. Laser range finder is optional. The control unit is user friendly with separate controls for each major function including the joystick, main camera controls and wash wipe. The extensive menu system permits operators to set up the system to their own requirements and to designate advanced functions such as sector scanning, picture in picture, for their particular circumstances.

TEOSS 350

Stabilized marine night vision system for patrol boats and larger vessels

OPERATIONAL ROLE

The stabilised TEOSS 350 system is purpose designed for use on patrol boats from 10m upwards for control of smuggling, prevention of illegal immigrants, fisheries protection, monitoring of Economic Exclusion Zone and pollution. It is suitable for installation on all classes of vessel including tankers, cruise liners, fast ferries, fire tugs and mega yachts for applications including navigation, surveillance, security, anti piracy and anti terrorism. The TEOSS 350 system is also available for port and coastal security, vessel traffic control applications and for mounting on land vehicles. For integration into large surveillance networks the tracker heads can be supplied separately and multiple units may be operated remotely from a control centre. Compact and low mass, the system comprises a tracker head and weatherproof sensor enclosure, control unit, display screen, and an electronics unit.

TRACKER HEAD

The Tracker Head is stabilised in two axes and can be fitted with up to three sensors depending on size. The normal fit is thermal imager and daylight colour TV. Laser range finder is an option. The tracker head is usually installed at the highest practical position for best visibility. The paint finish and seals are built to last in harsh marine conditions.

Azimuth	± 170° (Option 360° continuous)
Elevation	-25° to +45°
Pointing accuracy	± 200 µrad. (± 0.01°)
Stabilisation	± 2 mrad. (± 0.11°)
Control interface	RS485 or RS422
Weight	< 25 kg. (typical with 1 sensor)
Overall dimensions	360 x 510 x 465 (wxhxd in mm.)

ALBATROSS THERMAL IMAGER

The Albatross camera is a new 3rd generation thermal imager based on a cooled IR-CCD focal plane detector, which is working within the 3-5 µm mid-wave band.

The Albatross has superior performance in humid environments due to this waveband. The image is significantly improved by using a unique and patented Non Uniformity Correction (NUC) method. The Albatross camera has two Fields of View and can be used for medium to long distance observation and tracking.

CONTROL PANEL AND DISPLAY

The flush mounting Control Unit is ergonomically designed to be user friendly and simple to operate when at sea. There are separate knobs or switches for each major function including the joystick, main camera controls and wash wipe and the extensive menu system permits operators to set up the system to their own requirements and to designate advanced functions such as sector scanning and picture in picture for their particular circumstances. The panel labels have adjustable illumination.

Control Panel	300 x 465 x 510 (wxhxd in mm.)
Mass	< 3 kg.
Display	TFT 15" diagonal Flat Panel 400 x 400 x 150 (wxhxd in mm.)
Mass	< 5 kg.

ELECTRONICS UNITS

The Electronics Unit contains the central processor, azimuth gyro and electronic function cards for real time image processing. There are no user controls and the unit can be mounted wherever convenient near the control unit.

POWER SUPPLY

The TEOSS 350 system operates from 24 volt DC supply or 220 volt AC 50/60 Hz. using power supply option. The unit is protected from over voltage, under voltage and voltage spikes. Reverse polarity protection is provided for DC supplies. Power consumption of typical system configuration is less than 300 watts.

Dimensions	400 x 400 x 150 (wxhxd in mm.)
Mass	< 11 kg.