

# Vistar 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.**

## ■ System Description

The Vistar 350 builds on over 20 years experience in marine night vision and has been designed to fulfil the expectations of ships officers, operators and navies who have used Vistar systems world wide. Vistar systems are renowned for their long in service life at sea. The Vistar 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 Vistar 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.

Compact and low mass, the system comprises a tracker head and weatherproof sensor enclosure, control unit, display screen, and an electronics unit. 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 and image intensified cameras are options. 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.

## ■ Operational Role

The stabilised Vistar 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 Vistar 350 system is available unstabilised 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.

# Vistar 350 - Brief Specifications

## 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 and image intensifier cameras are options. 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.

<b>Azimuth</b>	170 at > 30°/sec (Option 360 continuous)
<b>Elevation</b>	-20 to +45 at > 30°/sec
<b>Pointing accuracy</b>	200 Rad. ( 0.01 )
<b>Stabilisation</b>	2 mRad. ( 0.11 )
<b>Control interface</b>	RS485 or RS422
<b>Weight</b>	< 32 Kg (typical with two sensors)
<b>Overall dimensions</b>	490mm wide x 520mm high x 550mm deep



## 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** 300mm wide x 150mm high x 130mm deep  
Weight < 3 Kg

**Display** TFT 15.1" diagonal Flat Panel  
483mm wide x 312mm high x 63mm deep  
Weight < 6.5 Kg

## Electronics Unit

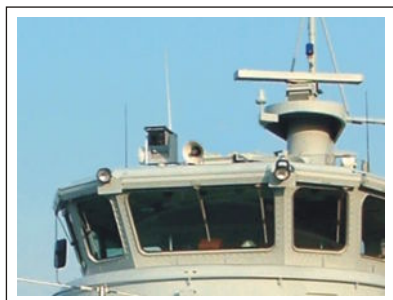
The Electronics Unit contains the central processor, azimuth gyro and electronic function cards for real time image processing. There are no user controls and the unit can be mounted wherever convenient near the control unit.

**Dimensions** 400 mm wide x 400 mm high x 150mm deep  
Weight < 11 Kg.



## Power Supply

The Vistar 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.



*This document gives only a general description of the products and services offered and shall not form part of any contract. From time to time, changes may be made in the products or the conditions of supply.*

*Vistar Night Vision Limited is Certified to ISO9001 - Design, Development and Manufacture of Electro-Optical systems.*



# Vistar

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