

Vistar

NIGHT VISION

Electro-Optical Systems



† X-Craft, US Navy

Applications

- Surveillance
- Anti-terrorism
- Port security
- Vessel security
- Smuggling detection
- Anti-piracy
- Border patrol
- Fisheries protection
- Navigation

Features

- 2 Axis stabilised platform
- High performance at competitive prices
- Flexible choice of sensors
- Easy integration into surveillance systems
- Auto tracking via radar
- COTS
- Designed for harsh marine environments



† Lilian Ngoyi, Cape Town



† "Lilian Ngoyi" built by Farocean Marine (Pty) Ltd, Cape Town. Photographs supplied courtesy of the Department of Environmental Affairs and Tourism, South Africa.

† The Titan Corporation is the prime contractor for the X-Craft. BMT Nigel Gee and Associates designed the ship and Nichols Brothers Boat Builders of Freeland, Washington, built the hull, mechanical and electrical ship systems.

Vistar 350 Electro-optical system specifications

350 Platform		
	Elevation	-45° +20° degrees
	Azimuth	±170° degrees
	Speed	30°/second
	Pointing accuracy	±200 µRad @ 1 sigma
	LOS deviation	±2 mRad @ 1 sigma
	Control interface	RS485 / Ethernet
	Temperature	-25° to + 65°C
	Paint finish	Optional colour finish
	LOS stabilisation	2 Axis
	Weight	<32 Kg
	Dimensions	H534mm x W456mm x D551mm
Sensors		
<i>Typical</i>	Thermal imager	3-5 Micron cooled
	Colour camera	PAL or NTSC / zoom lens and low light
<i>Options</i>	Image intensified camera	100 microlux
	Low light camera	0.7 Lux or 0.01Lux @ 1/3 sec
	Thermal imager	Uncooled 8-12 micron
Control Unit		
	Joystick	2 Axis control
	Weight	3 Kg
	Dimensions	H150mm x W300mm x D110mm
Electronic Unit		
	Video input	Composite or S-video or RGB or digital or VoIP
	Video output	S-Video or VGA or VoIP
	NMEA	0183, RS422 interface to radar, GPS, and compass
	Weight	11 Kg
	Dimensions	H400mm x W400mm x D155mm
Display		
	Viewable screen	15" Diagonal optional 17", 19", 21"
	Video input	S-Video or VGA
	Weight	7 Kg
	Dimensions	H310mm x W485mm x D65mm
System Power Requirements		
	Voltage	24 VDC or 240VAC or 110VAC
	Power	350 Watts
Options		
	Laser range finder (LRF)	Range up to 25 Km
	Touch screen	15",17",19",21"
	Digital video recording (DVR)	Continuous recording, watermarking, DVDR backup
	Auto tracking	Auto video detection / target tracking
	Video processing	3rd axis stability, vibration removal
	UPS	Reduce down time
	Azimuth rotation	Continuous 360°
	Position output to other systems	RS422 / Ethernet (pan & tilt position)
	Multiple display	Slave displays
	Heaters	Extreme temperature conditions

* Design and specification subject to change without notice



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