night navigator 3000



Long-Range Thermal Imaging

The Night Navigator[™] 3000 series come equipped with a Long-Range Cooled Thermal Imager and High-Definition Day Camera. This unit provides superior longrange detection and resolution (640x512) for a variety of targets and applications. A Thermal-only system that removes the HD Day Camera is optionally available.

Applications:

- Patrol vessels
- Early detection of potential security threats
- SAR operations
- Coast Guard
- Long-range surveillance: illegal immigration,
 - smuggling, fisheries

Main Features

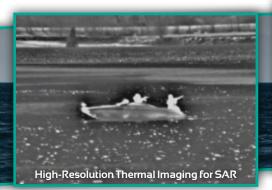
- Long-Range Cooled Thermal Imager
 - 640x512 pixel resolution
 - 25° to 2° field of view
 - 12.5x continuous optical zoom
 - 12x digital zoom

• High-Definition Day Camera

- 1080i or 720p selectable
- 10x optical continuous zoom
- 12x digital continuous zoom
- 3-Axis Gyro Stabilization
 - Resolved through 2-axis positioning
- Multiple Control Options
 - Panel mount hardware controller
 - IP controllable



night navigator³⁰⁰⁰







High-Resolution, Long-Range Cooled Thermal Imager

Field of View	25° - 2°
Detector Type:	InSb Focal Plane Array
Pixel Resolution:	640 x 512
Detector Pitch:	≤ 15 µm
NETD:	≤ 20 mK
Optical Zoom:	12.5x continuous
Digital Zoom:	12x
Focal Length:	22 to 275 mm
Focus Control:	Auto, manual
Spectral Range:	3 - 5 µm
Frame Rate:	25-30 Hz
Color Palettes:	7
Window coating:	Hard Carbon protective coating
MTBF:	20,000 hours

High-Definition Color Day Camera

Sensor Type:	CMOS
HD & SD Formats:	1080i/720p HD selectable
Field of View:	50° to 5.4°
Optical/Digital Zoom:	10x/12x continuous
Focus:	Auto & Manual
Window Coating:	Hydrophobic

Video Display and Signal

NTSC (RS170) or PAL (CCIR) format:	Must be specified at time of order
On-Screen Information Display:	Data, Position, Heading, Speed over
	Ground, Reticle, & Camera Functions

Payload Platform Specifications

Configuration	Domoulo
Configuration:	Dome up
Width:	41.1 cm (16.2 in)
Height (above mounting surface):	42.9 cm (16.9 in)
Weight:	~40 kg (88 lbs)
Tilt Range:	-30° to +90°
Pan Range:	360° Continuous
Operating Temperature Range:	-20°C to +50°C
Voltage:	20 to 34VDC
Maximum Angular Velocity:	40°/second
3-Axis Gyro stabilization:	Resolved through 2-axis positioning
Line of Sight Stabilization:	1°
Stabilization Accuracy:	13 mrad
Ingress Protection	IP65
Weatherized Pan $artheta$ Tilt Unit Sealed for the Marine Environment	

Panel-Mount Controller

Radar Cursor & ARPA Target Slaving:	Protocol: NMEA0183 (RS422/RS232)
Integrated graphical information display:	Position, Heading & Camera Functions
Dimensions (W x H):	16.7 x 23.6 cm (6.6 x 9.3 in)
TCP/IP control with Night Navigator or Customer Supplied Graphical User Interface (GUI)	

Options

Cold Weather Package	Allows system to operate at -40°C
IP Network Controllable	Network control of Night Navigator
Video Tracking Module	Allows for the selection/tracking of objects and electronic stabilization (in addition to gyro stabilization)



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