# night navigator<sup>1</sup>



## High-Performance & Compact

The Night Navigator<sup>™</sup> 1 is a compact camera system and is equipped with a High-Resolution Uncooled Thermal Imager or High-Definition Day Camera.

Measuring only 22 cm in diameter, the unit provides sharp imagery in conditions ranging from full daylight to complete darkness. The unit can be mounted upright or inverted.

### **Applications:**

- Night and day navigation
- Obstacle detection: small craft, debris, ice/bergy bits, etc
- SAR support
- Early detection of
- potential security threatsWhale and whale spout
- detection

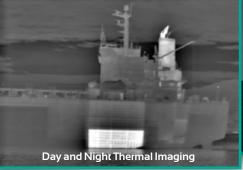
### Main Features

- High-Resolution Uncooled Thermal Imager
  - 384x288 pixel resolution
  - 21.7° field of view
  - 2x and 4x digital zoom
- Compact, rugged design
- Hardware & IP-Based Controls
  - Panel mount controller
  - IP control option
- **Optional High-Definition Day Camera** - 1080i or 720p selectable
  - 10x optical/12x digital continuous zoom
- Optional 3-Axis Gyro Stabilization - Resolved through 2-axis positioning



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#### High-Resolution Uncooled Thermal Imager

Field of View:	21.7°
Detector Type:	VOx Microbolometer
Pixel Resolution:	384 x 288
Detector Pitch:	25 μm
NETD:	≤ 50 mK
Digital Zoom:	2x & 4x
Focus:	Fixed
Spectral Range:	8 - 14 µm
Frame Rate:	50-60 Hz
Anti-Blooming Mechanism:	Included
Window coating:	N-C Hard Diamond-like (DLC)

#### **Optional: High-Definition Color Day Camera**

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

#### Video Display and Signal

NTSC (RS170) or PAL (CCIR) format: Must be specified at time of order

#### **Payload Platform Specifications**

Configuration:	Dome up or dome down
Diameter:	22 cm (8.7 in)
Height (above mounting surface):	24.5 cm (9.6 in)
Weight:	10.2 kg (22.4 lbs)
Tilt Range:	-40° to +90°
Pan Range:	360° Continuous
Operating Temperature Range:	-40°C to +50°C
Lens Defrost System:	Built-in
Voltage:	24VDC
Ingress Rating:	IP66
Weatherized Pan & 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

3-Axis Gyro stabilization:	Resolved through 2-axis positioning
IP Network Controllable:	Network control of Night Navigator



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