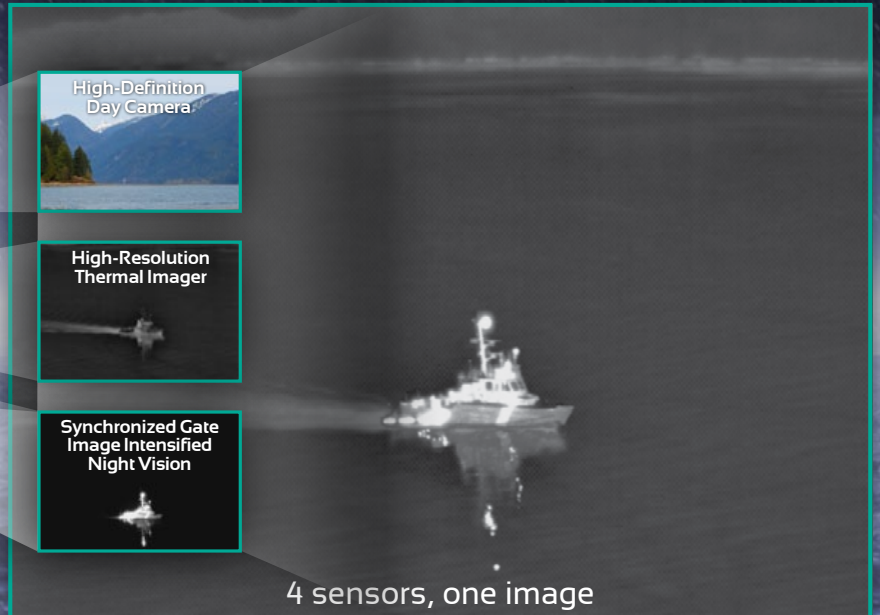


# night navigator SOS™

## Safety On Seas



## See in Adverse Weather Conditions

The Night Navigator SOS™ "Safety On Seas" provides the best image night and day in clear and adverse weather conditions such as clear weather, rain, heavy rain, snow, smog and fog.

A four-sensor actively synchronized system combines to produce one Night Navigator SOS image. The result is unprecedented detail and clarity.

Some features include: automatic object detection, automatic object tracking, dynamic image fusing, 4 weather presets and IP-based control make this the complete system. See what has never been seen before: Night Navigator SOS.

## Main Features

### • 4-Sensor System:

- Image-Intensified Night Vision... Patented algorithm synchronization
- Infrared Active Laser Gating.....
- Highest Resolution Thermal Imager
- High-Definition Day Camera

one fused image

### • Gimbal with Integrated Electronics

- 3-Axis Gyro & Electronic Stabilization
- Sealed & Nitrogen purged

### • Hardware & IP-Based Controls

- Control via controller, iNightNav App for iPod/iPad
- Glass bridge integrable via GUI software

### • Advanced Software Integration

- Automatic object detection, tracking and alarm
- Dynamic image fusion (scalable LGII to Thermal or day)
- Instant automatic replay on automatic detection mode



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## Safety On Seas

### See What Has Never Been Seen Before

#### 4 Sensors, One Image: The only Active, Laser-Gated Imaging System

- Image-Intensified Night Vision (I<sup>2</sup>)
  - Synchronized gate
- Infrared Laser
  - Synchronized gate
  - High-frequency proprietary infrared laser (0-4000m range)
- High-Resolution Thermal Imager
  - 640x480 pixel resolution
  - 20°/6.8° field of view - Navigation System
  - 13.8°/4.6° field of view - SAR/Patrol System
  - Highest quality commercially available
- High-Definition Day Camera
  - 720p or 1080p selectable
- 55-2.7° optical zoom & 12x digital zoom
- Digital cameras, digital fusion
  - Matching optical & digital zoom
  - Depth of field enhancement
  - Dynamic range enhancement
  - Edge enhancement
  - Multi-patented embedded algorithms

#### Environmental

- 3-axis Gyro stabilization resolved through 2-axis positioning
- Sealed & Nitrogen purged

#### Complete Information

- Depth of field
- Colour of lights & beacons
- Shoreline details
- Thermal signature

#### Hardware & IP-Based Controls

- IP-based touchscreen control options such as the iNightNav App for the iPod/iPad
- Glass bridge integrable
- Graphical User Interface

inight nav



#### Integrated Electronics

- Multi-patented embedded algorithms for system processing
- High-frequency electronic stabilization
- No junction box, allowing for easy installation

#### Advanced Embedded Software

- 4 weather presets: clear, rain, heavy rain/snow, fog
- 3 operating modes: Observation/Underway/SAR
- Dynamic image fusing:
  - Scalable LGII or Day to Thermal: 0-100%
- Automatic object detection:
  - Audible/visual alarm
- Instant automatic replay
- Automatic/manual shoreline detection
- Object tracking:
  - Definable region of interest (ROI) with red frame inside ROI, green frame outside ROI indicators
  - Radar target tracking
- Built-In Test (BIT) self diagnostics
- Grey/green scale viewing modes
- 5 preset positions
- Autoscan
- Panoramic imaging
- Depth of field enhancement
- Dynamic range enhancement
- Edge enhancement

