## night navigator<sup>2526</sup>

### COMPACT. RUGGED. MARINIZED. LOW MAINTENANCE.



LWIR - UNCOOLED THERMAL 4X OPTICAL ZOOM

#### COMPACT. RUGGED. GYRO-STABILIZED. LOW MAINTENANCE.

The Night Navigator<sup>™</sup> 2526 is the most rugged, low maintenance, compact electro-optical system designed for USV, automated ships, paramilitary missions, commercial vessels and leisure craft alike. Mast mounted payload platform, this multi spectrum imaging system offers exceptional performance. It integrates an uncooled high-resolution thermal imager with continuous optical zoom with an HD day camera with the best low light sensitivity in a gyro-stabilized sensor platform with additional video stabilization. Controllable from the bridge of a ship or through IP network onboard and remotely, this COTS system is built to military standard.

#### APPLICATIONS

CURRENT

- ISR (Intelligence, Surveillance and Reconnaissance)
- Special operations
- Unmanned Surface Vessels (USV)
- Maritime SAR
- Safety and security at anchor and in harbor
- Tracking of potential threat or man overboard
- Situational awareness
- Anti-smuggling operations

HD DAY / LOW LIGHT CAMERA

#### BENEFITS

- Compact, rugged, marinized, low maintenance design
- Full paramilitary functionalities in entry level system: Radar cursor, ARPA target, AIS and video tracking
- LWIR uncooled thermal imager with 4x continuous optical zoom for best surrounding awareness and detecting a NATO target at 6.8km
- HD Day / low light camera with 30x optical zoom and 0.013Lux low light sensitivity
- Streams H.264 (HD) video with PiP and communicates digitally over IP network (Ethernet)
- Outputs video in dedicated coax cable to the bridge in HD-SDI
- Instant image on power ON
- Single payload with no junction boxes or interface modules simplifies installations and retrofit, while reducing maintenance.
- Standardized mounting and cabling for all Night Navigator 2000 series enables ease of payload swaps and future upgrades.
- Designed to withstand marine environmental conditions and proven by over 10 years and hundreds of successful operating installations worldwide.

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### SYSTEM FEATURES

		P
Spectral range:	8 – 14 um Uncooled thermal imager	
Sensor type:	I WIR	
Resolution:	640x480 pixels	-
Field of View:	39.9° to 8.3° continuous optical zoom	
Zoom:	4x continuous optical zoom & 4x digital zoom	
Format:	SDI & H.264 video streaming on IP network	
Focal length:	15 to 75mm	
Detection range <sup>1</sup> :	NATO target to 6.8 km <sup>1</sup> / Human to 2.8km <sup>1</sup>	
DAY / LOW LIGHT CAMERA		
Sensor type:	High Definition Day CMOS	
Resolution:	HD 1080p30	
Field of View:	63° to 2.3° FoV in HD mode	
Zoom:	30x continuous Optical zoom + 12x Digital zoom	
Low light sensitivity:	≤ 0.013Lux in B&W mode	
Focus:	Auto & Manual	
Window coating:	Hydrophobic	
RADAR CURSOR, ARPA & AIS TARGET	TRACKING	
Radar Cursor, ARPA and AIS target track Network Interface Box	king via NMEA0183 (RS422/RS232) through supplied NMEA 0183	
VIDEO TRACKING OPTION		
Video target auto scanning, detection a	nd tracking in HD mode	
CONTROLLER: HARDWARE OR GUI, IP	BASED AND REMOTE-CONTROLLED SOLUTIONS	
<ol> <li>82mm)</li> <li>GUI (Graphical User Interface) SW, et window in PC; with USB joystick (two b</li> <li>GUI SW integrating the video feed, f</li> <li>All controllers offer Built in Test for rem remote control</li> </ol>	either on <b>dedicated touchscreen</b> display (Panel PC) or as pop up utton joystick or Rugged Rigid Grip) for use on portable PC note diagnostic and are configured for optional additional controllers or	in
PAYLOAD SPECIFICATIONS (DESIGNED	FOR MARINE APPLICATIONS)	
System type:	3 axis gyro-stabilization <sup>2</sup> , c./w. enhanced video stabilization	
Pan range:	continuous 360° AZ rotation	
Tilt range:	+/-90° elevation movement, including stow position	
Color:	Snow White glossy. Custom on request	
SYSTEM INTERFACE		100.00 H12 0 A/2 +
Video format:	HD-SDI convertible to HDMI or DVI	
Video streaming:	H.264 in HD	
Data:	RS422 or RS232 (NMEA0183), Ethernet for control	2. GL
ENVIRONMENTAL		pane
Ingress Protection Mark:	IP67	wind
Built to:	MIL-STD 461 & MIL-STD 810 with MIL SPEC connectors	
Operational temperature:	-20°C to +50°C	
WEIGHT AND DIMENSIONS		
Weight:	~ 11 kg (~24 lbs.)	
Diameter payload:	292mm (11.4 in) <sup>3</sup>	
Height payload:	368mm (14.4 in) <sup>3</sup>	
POWER REQUIREMENTS		
Voltage:	20 to 34 VDC	
Power:	100W based on configuration	



<sup>1</sup> theoretical calculation using Johnson's criteria & not accounting for atmospheric conditions / <sup>2</sup> resolved by 2 axis positioning /

<sup>3</sup> Larger movement space required



**CONTROL SOLUTIONS** 





II SW either stand alone in dedicated el PC (touchscreen display) or pop up dow in PC with optional USB joystick [2.1] or RRG [2.2]



