# <u>ComNav</u>®







## V2 Thermal Night Vision & Low Light Camera Systems

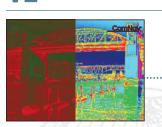
Com

## Gyro Stabilized Crystal Clear Vision

HOMELAND SECURI

- Crisp thermal images in Black Hot, White Hot, Rainbow, Iron
- TEC Cooled Thermal detector
- Unbeatable 60Hz frame rate with unmatched sensitivity of <40 mK
- Available in 9Hz
- ComNav image enhancement provides superior high resolution in absolute darkness, light fog, smog or low light environments
- Easy touch 4x electronic zoom in 0.1 step increments
- Rugged construction exceeds military standards to operate in challenging navigation environments, lightweight aluminum design with mono-crystalline germanium tempered glass weatherproof to IP67
- 360 degrees continuous pan and +/-90° tilt provides seamless view coverage
- Low-Lux, high resolution integrated camera with 36x optical zoom coupled with 12x digital zoom, giving sharp magnification of up to 432x
- LowLight window with built-in heater for auto defrost in freezing environments
- Wide angle and narrow angle thermal imagers available
- Scene Selection Modes: Auto, Day, Night
- Flexible mounting gimbal sphere up or down
- Watch thermal and low light video simultaneously on single or multiple displays
- Home position and auto scan sweeps can be easily programmed. Camera system can be parked and protected when not in use
- LCD and keypad backlighting adjustable for night applications
- Optional up to four station remote joystick control units and up to four cameras in multiple configurations
- Compass data input with on screen heading display
- IP Network Control interface capability
- NMEA0183 and NMEA2000 compatible
- CE, FCC certified and RoHS compliance

### SYSTEM CONFIGURATION & OPTIONS



 $\mathbf{V2}$ 

Easy Navigation - Various Colors Assists by enhanced visual capability in darkest environments, allows for increased manoeuvring when twilight docking; long range distance awareness in low light conditions;



Man Overboard Rescue Can assist with faster response times in man overboard search and rescue applications;



Security Helps to identify and track vessels or objects on perimeter security; collision avoidance; vessel and crew protection;

**JOYSTICK KEYPAD** 



Situational Awareness Anti-piracy security tool; allows for comprehensive multi-zone monitoring, long range viewing and greater night vision; iceberg detection; fire detection;

V2 THERMAL & LOW LIGHT CAMERA

#### **THERMAL IMAGING PERFORMANCE:**

Focal Plane Array Detector:

Pixel:

Lens:

Focus:

**Field of View:** 

**Electronic Zoom:** 

Spectral Range:

**Detection Range:** 

**Thermal Sensitivity:** 

Uncooled Vanadium Oxide (VOx) Microbolometer 320 x 240 8.6° (H) 20° (H) 35mm 50mm 1 - 4 x<40 mK @ f/1.0 @ 25°C 8 – 14 µm Fixed 2.3Km 3.4Km

#### **LOW LIGHT CAMERA:**

**Detector Type:** Lines of Resolution: Minimum Illumination: Field of Pan View: **Optical Zoom: Digital Zoom:** 

#### **SPECIFICATIONS:**

Stabilization:

**Operating Voltage: Power Consumption:** 

**Operating Temperature: Storage Temperature:** Waterproof:

Wind Resistance: **Encapsulation:** 

**Shock Resistance:** 

Compliance

### ComNo



ComNav Marine Ltd. #15-13511 Crestwood Place, Richmond, British Columbia • Canada • V6V 2G1

Phone: 604-207-1600 • Fax: 604-207-8008 E-mail: sales@comnav.com

www.comnav.com Worldwide Service

Printed in Canada

1/4" HAD CCD 752 (H) x 582 (V) 0.01 LUX / F1.4 57.8° (@1x), 1.7° (@36 x) 36 x (maximum zoom 432 x) 12 x (maximum zoom 432 x)

Gyro compensated optimized for high speed vessels 10 to 30 VDC 10 W standby 25 W nominal 50 W max with heaters operating -25°C to +55°C -40°C to +85°C Sealed to IP67 standards; marine cables & corrosion resistant connectors 100 Knots Sand & dust proof Salt mist & humidity 15 q vertical; 9 q horizontal Additional built-in features: Auto window de-icing & defrost, Lightning & surge protection CE, FCC, RoHS



39.7cm/15.6 inches in height Joystick Keypad:

OPTIONAL

DECODER UNIT

16cm (6.1 inches) x 12cm (4.5 inches) Weight: camera: 10 kg

#### **ADDITIONAL FEATURES:**

- LED backlit 12", 15" and 19" sunlight LCD display options
- Multi-function joystick control keypad remote
- Multiple Thermal Display Modes
- Multi-protocol decoder: PELCO-P/D, RS422
- Power-off memory function and programmable home position
- Auto scan function; preset positioning tour
- On Screen Display password protection
- Park Mode camera protection when not in use
- Auto internal heater for cold temperatures
- Joystick controller can be surface or flush mounted
- Auto or fixed focus lens options
- Extra remote station capability
- Accurate on screen heading information via NMEA0183/NMEA2000 interface to vessels compass

Represented by:



### 16cm/ 6.1 in

23.4cm/

9.21 in.

