

NEPTUNE

Naval / costal
security system



dat con



This revolutionary turn-key system, provides unprecedented capabilities for naval security. Combining long range of the high-end pulse compensation radar with a military spec Electro optical head, it is designed to function in the harshest marine environment.

The system has been designed to provide security for off-shore installations, ports and on-boat installation.

With many options and customisable features, the Neptune can meet your coastal, off-shore and marine security needs.

Combined with the Command and control software SOVA, which is currently in use around the world, protecting borders and ports, the Neptune becomes a very powerful tool.



KEY COMPONENTS:

- Military spec continuous rotation pan/tilt unit
- Solid state pulse compensation radar
- Long-range low light camera
- Long-range spotlight
- Control centre workstation

KEY FEATURES:

- Easy installation and integration
- Low light camera for target identification
- Spotlight for night time operation (3km range)
- Target detection, warning and tracking
- Automatic sue to cue and zoom on target
- Integrated software SOVA
- Compatible with existing surveillance and radar installations (SDK and integration available)
- Able to run of multiple power sources (12/24/48V DC or 110/230V AC)

TECHNICAL SPECIFICATIONS:

Radar:

- True 48nm range with 3-foot open array antenna
- Beam Sharpening for enhanced target separation
- Simultaneous Dual Range operation
- Dedicated Harbour, Offshore and Weather modes
- High-speed 48 RPM operation for rapid updates
- Ready instantly from standby, and in 16-25 seconds from power-on
- MARPA target tracking (up to 10 targets, 20 in dual range)
- IPX6 protection

Camera:

- Lens F4.6 30 - 750mm
- HD 1920 x 1080@25/30fps
- Support regional cropping, details can be seen with low bandwidth
- Code smoothness setting for different requirements of image quality and fluency
- H.264/MJPEG/MPEG4 video compression
- Basic/Main/High Profile H.264 encoding complexity
- 120dB WDR is supportable for backlight environment
- Installed in a marine grade enclosure (IP67 protection)

Spotlight:

- Long range operation (3000m)
- Remote controlled (zoom, power, strobe)
- High Operating Temperature: +60°C as per MIL-STD-810G High Temperature Operating Test, Method 505.5, Procedure 1
- Salt/Marine Environment: As per MIL-STD-810G Salt Fog Test, Method 509.5, Procedure 1
- Ingress Protection Rating: IP67 as per CEI/IEC 60529:2001

Pan - tilt platform:

- Smooth motion
- High accuracy
- Gyro stabilization (optional)
- Static top radar mount
- Big speed range
- Broadband and high frequency signal
- Multiple communication options
- Integrated Eth router option
- Built to MIL-STD specifications



SYSTEM UPGRADE OPTIONS:

- Un-cooled thermal camera (6-10km range)
- Gyro stabilisation
- Video tracking and digital stabilisation
[camera is replaced with HD-SDI for this option]
- Automatic lens cleaning system
[air and water only – no wipers]
- Battery power supply (2 x 260Ah professional deep cycle gel batteries with inverter/charger)
- Solar panels for battery charging
- Generator power supply (generator status show in command and control software – temperature, fuel level)
- Boat display for radar (compatible with Navigation, Autopilot, Sonar...) – multiple models available upon request

ITEM DESCRIPTION (order code):
NEPTUNE - Marine surveillance system (DC/NE-XX voltage)
Options:
Gyro stabilisation (GS)
Video Tracking and Digital stabilisation (VSU)
Thermal camera - ULRT 225 - as replacement for spotlight or addon (UT/R or UT/A)
Radar control - boat display (RC/XXX - model)
Automatic lens cleaning system
Battery power 520 Ah with inverter/charger (BP)
Marine diesel generator 4kW (DG)
Solar panel power supply with base stands 4 x 325W (can only be used with battery power upgrade) – (SP)

* Order code example of a 12V system with Gyro stabilisation and battery power: DC/NE-12-GS-BP

* Specifications and prices are subject to change without further notice





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