NORBIT
GuardPoint™

GUARDPOINT DIVER DETECTION SONAR

Underwater Sensing Technology for Defense and Security

A powerful surveillance tool effective in detecting underwater intruders.

Guardpoint can recognize Open-Circuit and Close-Circuit Divers, Diver and Swimmer Delivery Vehicles (DDV and SDV) and Submersibles. One single GuardPoint sonar head offers a surveillance range of up to 1000m.

GuardPoint is designed to detect difficult targets in the toughest environments, while remaining an easy to use system for professionals as well as non-sonar operators. Multiple sonar heads can be networked together to achieve maximum coverage. GuardPoint automatically detects, tracks, classifies and alerts to the presence of underwater intruders.

Features

✓ Automatic Alarm Generation

✓ Long Range

✓ 7 days 24 Hours Operation

✓ Ease to Use Interface

✓ Network of Multiple Sonar Heads

✓ Marine Mammal Mitigation

✓ Long Pulse Length

✓ Unattended Operation

✓ Easy Maintenance

Applications

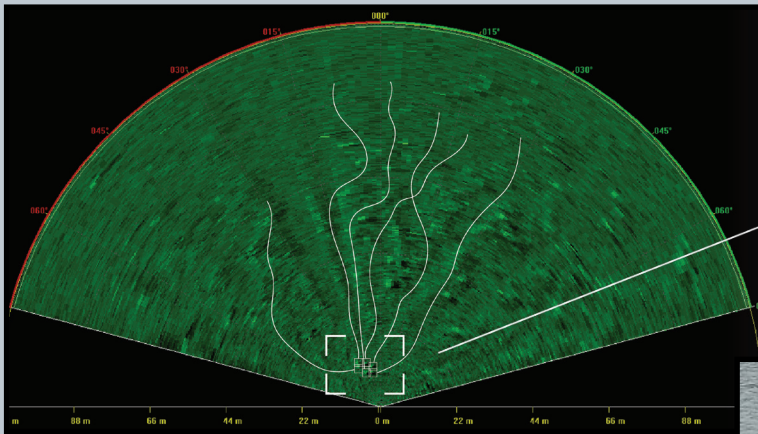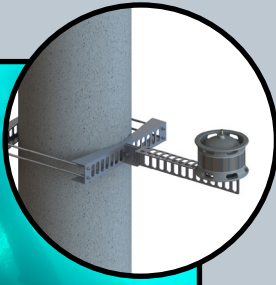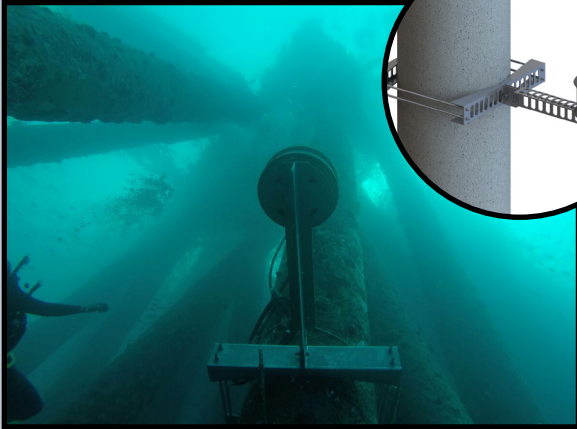✓ LNG and Oil Terminals

✓ Power Plants

✓ Naval Bases

✓ Commercial Ships

✓ Naval Units

✓ Offshore Rigs

✓ Mega Yachts

✓ Cruise Ships

Options

✓ Seabed, Pier Pile, Portable or Rigidly Mounted Deployment

✓ Integration to Underwater Loudhailer

✓ Mobile Application for Intervention Team

✓ Interfacing 3rd Party Systems and Command and Control Software

✓ Remote Monitoring

✓ NORTrace Performance Prediction Tool

✓ Integration to NORBIT SeaCOP

EXPERTS in sensor equipment providing telemetry and communication solutions for harsh environments.
NORBIT develops and delivers innovative products - allowing you to explore more.
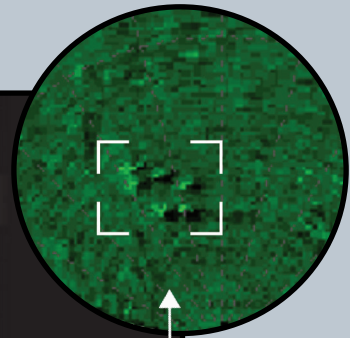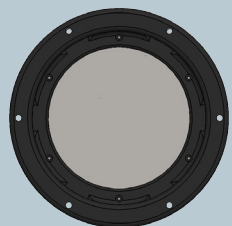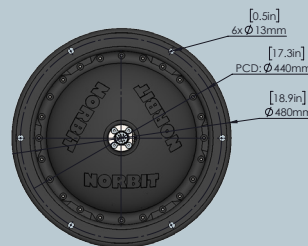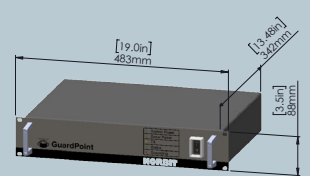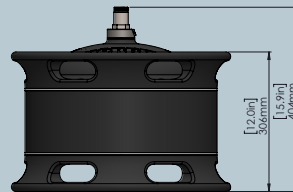
GUARDPOINT DIVER DETECTION SONAR

NORBIT Tracking Software provides

- PPI Scope, B/Scan, Magnifier, EchoGram, Map Underlayed Displays, Markers and Cursors for On-Screen Measurements
- Data and Annotation Recording and Replay
- Track Information (position and arrival time to asset)
- Automatic Wake Suppression
- Suppression and Alarm Zones

TECHNICAL SPECIFICATION

HORIZONTAL COVERAGE	**360° (SECTORAL TRANSMISSION AVAILABLE)**
VERTICAL COVERAGE	**12°**
DEPLOYMENT DEPTH	**5 TO 30m (SURVIVAL DEPTH 50m)**
FREQUENCY	**70kHz**
SOURCE LEVEL	**206 dB re1µPa@1m**
PULSE LENGTH	**UP TO 128ms**
DETECTION RANGE (IDEAL CONDITIONS)	**OPEN CIRCUIT DIVER: 800m (1600m DIAMETER)** **CLOSED CIRCUIT DIVER: 400m (800m DIAMETER)** **SDV AND MIDGETS: 1000m (2000m DIAMETER)**
WEIGHT	**<50kg (SONAR HEAD)** **<10kg (TOPSIDE UNIT)**
INPUT VOLTAGE	**90 – 240 VAC**
OPERATING TEMPERATURE	**SONAR HEAD -4°C TO +40°C** **TOPSIDE UNIT -20°C TO +45°C** **(COOLING OPTIONS AVAILABLE FOR TROPICAL AREAS)**

GuardPoint Sonar PN: 24117, Topside Unit PN: 29062