NEXUS-BASE

A high-performance, full-featured internationally-certified Class D VHF/DSC radio and high-powered AIS Class B (5W SOTDMA). In addition to the standard features expected in any commercial standard DSC/VHF radio, NEXUS-incorporates a range of innovative new functionalities that deliver a new level of seamless integration and user convenience.

At its core is a new dual SRT-developed AIS/VHF transceiver engine that leverages 25 years' advanced radio communications technology development heritage and experience to deliver exceptional radio performance within a size and cost-optimised design. This is integrated within a quality engineered and built ruggedized, water and weather-proof case, with a high resolution 3.5" full-colour display, and ergonomic user interface.

NEXUS-CONNECT

A free-to-download mobile phone app that enables any smartphone (Android or iOS) to wireless connect to NEXUS-Base and operate as a full function Command-Mic. All functions of the radio can be controlled wirelessly from the phone and calls made and received. This enables the user to freely roam their vessel whilst continuously being able to monitor and use VHF communications.

KEY FEATURES

> High-powered AIS Class B (5W SOTDMA) – receive and transmit

> Integrated GNSS and IMU for orientation stabilisation

> Bluetooth and WiFi

> 3.5" full-colour display with configurable brightness, night and day modes

> NMEA2000 and NMEA0183 interfaces for control I/O and output of AIS data

> Integrated amplifier for external loudhailer and/or public address support

> Ruggedized – shock, vibration, water (IP67), extreme temperature, solar

> Ergonomic user interface with configurable back lighting

> VHF-Link – NEXUS-Connect smartphone remote command-mic application

> MOB-Link™ - MOB and PLB alert, track-and-find functionality

> AIS-Link – stream AIS targets simultaneously to multiple devices

> MFD-Link – embedded system to enable radio functionality integration within MFD

> 217mm (w) x 84mm (h) x 130mm (d) and only 1.2kg

NEXUS-HANDHELD

A high-performance, full-featured internationally-certified Class H VHF/DSC portable radio with an integrated high-performance multi-channel AIS receiver. In addition to the standard features expected in any commercial standard DSC/VHF radio, NEXUS incorporates a range of innovative new functionalities that deliver a new level of seamless integration and user convenience.

At its core is a new dual SRT-developed AIS/VHF transceiver engine that leverages 25 years' advanced radio communications technology development heritage and experience to deliver exceptional radio performance within a size and cost-optimised design. This is integrated within a quality engineered and built ruggedized, water and weather-proof (submersible) case, with a high resolution 3" full-colour display, and ergonomic form factor and user interface.

KEY FEATURES

> Class D VHF/DSC 25W radio

> AIS receivers can decode and display data from Class A and Class B devices, as well as SART, SAR and AtoN

> Integrated GNSS

> Bluetooth and WiFi

> 3.5" full-colour display with configurable brightness, night and day modes

> Submersible and ruggedized – shock, vibration, water (IP68), extreme temperature, solar

> Ergonomic user interface with configurable back lighting

> Integrated strobe light with configurable options

> 2,200 mAh lithium battery, with 10 hours operating life, and rapid wired and wireless charging

> MOB-Link™ - MOB and PLB alert, track-and-find functionality AIS-Link – stream AIS targets simultaneously to multiple mobile devices

> Jack for wired external mic

> 61mm (w) x 170mm (h) x 48mm (d) and 400g

NEXUS

REDEFINING MARITIME COMMUNICATIONS

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SYSTEM OVERVIEW

NEXUS seamlessly integrates AIS and Class D DSC/VHF radio to provide a new level of safety critical functionality, convenience and robust reliability. The NEXUS range comprises two waterproof and ruggedized marine radios, a fixed-mount (NEXUS-Base) and a handheld (NEXUS-Portable), each engineered for complete reliability and longevity in the harshest environments, and with a massive range of innovative and useful functionality.

NEXUS-BASE

Feature-rich VHF/DSC radio of the highest quality with integrated high-powered AIS Class B transceiver (receive and transmit). Built-in wired and wireless connectivity enables simultaneous connectivity to multiple devices (smartphones, tablets, PCs and MFD/chartplotters) and the innovative NEXUS-Connect app enables any smartphone to connect wirelessly and become a full-function VHF/DSC radio command mic. The unique MOB-Link™ feature ensures that any MOB is alerted on all connected devices, tracked and found in minimum time.

NEXUS-PORTABLE

Tough, submersible, full-feature DSC/VHF radio with integrated high-performance AIS receiver and wireless connectivity using Bluetooth and WiFi that enables live streaming of AIS targets to your smartphone or tablet, and connection to a remote headset. MOB-Link™ support enables NEXUS-Portable to become a PLB. Rapid wireless charging and 10 hours of operating time between charges maximise convenience.

FUNCTIONALITY HIGHLIGHTS

> Enhanced VHF/DSC radio functionality that effortlessly maximises the convenience of digital marine radio.

> AIS-Link™ system enables simultaneous sharing of AIS information to multiple devices with full interoperability with any navigation software – smartphones, tablets, PCs, and chartplotters/MFDs.

> MOB-Link™ system enables Intelligent MOB alert, track-and-find functionality.

> VHF-Link™ system enables your smartphone to become a full-function VHF radio command-mic with freedom to roam the boat.

> Ultra fast and optimised user interface ergonomics that ensure intuitive easy operation.

> Engineered to deliver exceptional sound clarity.

> Engineered and built to operate reliably in the harshest conditions – fully waterproof.

> Power efficient – the NEXUS-portable has rapid wireless charging and long battery life.

FUNCTIONALITY HIGHLIGHTS

ABOUT VHF-LINK™

This function is available in NEXUS-base only. It enables your smartphone to be a full-function command-mic for the NEXUS-Base. The NEXUS-Connect application is downloaded on to any Android or iOS-powered phone, and connects using WiFi. Once connected, you can continue to use your phone normally for internet browsing and calls, whilst also as a full VHF radio with two-way calling, channel changes, digital vessel information, and much more, including MOB and collision, and close approach alerts.

ABOUT AIS-LINK™

This function is available in both NEXUS devices and enables you to connect multiple devices to your NEXUS device and stream real-time AIS information to all devices, simultaneously connecting up to 10 devices wirelessly. From phones to tablets to PCs and chartplotters, with full interoperability with any navigation application supporting NMEA serial or WiFi connectivity.

ABOUT MOB-LINK™

This function is available in both NEXUS devices. It enables NEXUS-Portable and Android or Apple Smartwatches, cell phones and off-the-shelf wearable crew trackers to act as an MOB alert tag. Multiple devices can be connected simultaneously with built-in intelligence to prevent false alerts. If the connection between them and the NEXUS Base is broken, a MOB alert is triggered across all connected devices. NEXUS-Base will immediately display the location of the event and clear orientation (distance and bearing) for the skipper to manoeuvre back to the MOB location. If the MOB device is the NEXUS-Portable, then this will transmit its location to the base and the latest position and continuously updated vessel manoeuvring instructions.