



Diamond Intercom

Wired Intercom & Radio Combiner System

The Diamond Intercom and Radio Combiner System is a communication solution that provides voice connectivity between users and on-board radios and also integrates boat alarms to ensure boat and crew safety. In the most austere conditions, it provides crystal clear, reliable communications.



Do you require reliable communication on the water in all weather conditions?



The Diamond Intercom is the intercom of choice for special forces, police patrol and race chase boats because it is battle-tested in the harshest of environments and stands up to the tough salt-water conditions. The Diamond system is designed to Def Stan 00-35 Environmental and Def Stan 59-41 I EMC requirements, and while it is headset agnostic, Big Blue offers a range of headsets to pair with the Diamond Intercom system that are purpose-built to thrive in the same conditions.

Do you require clearer, safer audio solutions?

The Diamond system is intuitive, robust and low-maintenance—ideally suited for those that must go to sea. Crew members can be confident in its ability to provide independent access to both secure and non-secure communications, uninterrupted facilities and voice-activated comms. The Diamond system also offers wireless components that can be used in conjunction with the wired system to provide a tailor-made solutions for your intercom and radio needs.

The Diamond intercom system and the Big Blue Headset range are designed to work together to provide crystal clear communications in the most austere environments.





Technical Specifications

General	
Audio interfaces and processing:	High quality, digital intercom audio (300Hz – 8kHz). User-controllable VOX function
Power:	9-32 VDC 700mA @12V
Controls:	Full isolation for static/lightning protection
Temperature:	Operating: -20 to +60 °C Storage: -40 to +80 °C
Enclosure size (ea) (W x H x D):	Hub: 276mm x 159mm x 79mm User Node: 160mm x 75mm x 61mm Radio Node: 160mm x 75mm x 61mm
Weight (ea):	Hub: 2kg User Node: 0.53kg Radio Node: 0.53kg
Connectors:	Fischer UltiMate™ Series
Interfacing	
Headset interface:	Headset output ≤ 110 dB Flexible headset options for different microphones and sensitivities Monaural or binaural options
Radio interface:	Fully isolated radio audio and Push-To-Talk (PTT)
Alarm interface:	8 user-definable audible alarms (spoken, tonal, etc.)
User Controls	
Control Subsets on User Node:	Radio Selection Volume (Up/Down) VOX Sensitivity (Up/Down) Push-To-Talk button (Selected Radio) Push-To-Talk button (Intercom) Illumination activation button to check radio selection
Push-To-Talk (PTT)	User can select to talk on any radio or intercom Remote PTT available for any user position
Additional features:	Fuzzy noise added to give user confidence of system operation Suitable for use with Night Vision Goggles (NVG)

Key Features

- User-specific VOX sensitivity control (ability to personalise voice-activated comms at any time)
- Ruggedised for maritime use (IP67)
- Can accommodate any radio/user combination with up to 8 radios and 8 users
- Simple operation, compact footprint, lightweight, low power, fast and easy maintenance
- Fully isolated for secure and non-secure operation
- 8 user-defined audible alarm inputs, e.g. engine alarm
- Ergonomic for single hand operation under high-speed transit

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