

# DIAMOND Wireless Intercom System



With over 30 years military communications experience Drumgrange has developed its Diamond Wireless Intercom system to fit the needs of not only its defence customers, but also those who need a robust, functional and cost-effective solution that provides crystal clear communications in the most austere of environments.

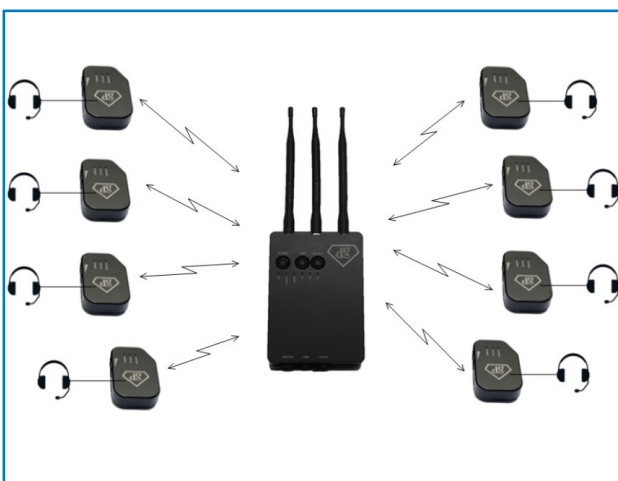
Driven by the toughest user requirements the Diamond Wireless Intercom System provides a full duplex wireless intercom designed for the harshest of conditions encountered on both fast boat platforms and professional racing yachts.

The Diamond Wireless Intercom System provides communications from 4 to 32 users wirelessly via a small lightweight IP67 rated body mounted unit with a sealed rechargeable battery providing over 12 hours of operation. Its simple operation and robust design make it the system of choice for crews. The Diamond system demonstrated its status by being selected as the intercom of choice for one of the premier professional yacht racing teams in the UK and provided intercom capability throughout its campaign for the Americas Cup 2017 and towards the 2021 competition.

The Diamond system balances intuitive functionality and ease of use with a robust, low-maintenance design. In the most challenging situations, crew members can be confident of uninterrupted intercom facilities. Diamond's modular design and small footprint allow for simple installation and operation.

## Key Features

- Over 50m line-of-sight from Hub to Body Pack
- Over 100m line-of-sight from Hub to Hub
- Full duplex voice communication.
- Simple, lightweight user interface.
- Easy system configuration
- Interfaces to the Wired Diamond Intercom and Radio Combiner System



## Technical Specification

### General

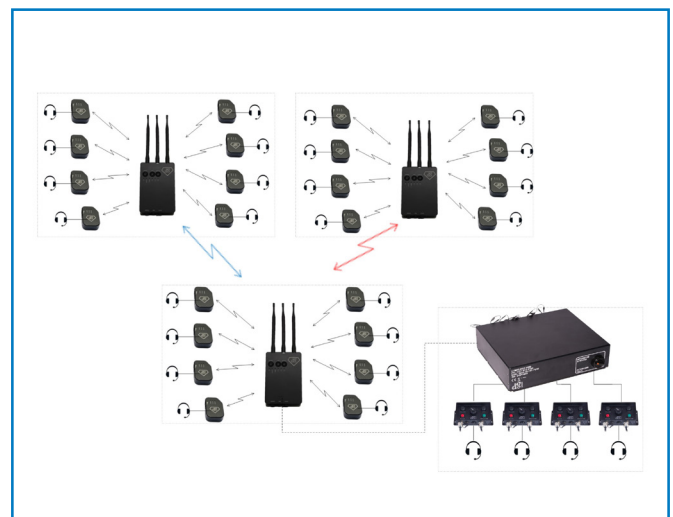
Audio interfaces and processing:	High quality, digital intercom audio (200Hz – 2kHz)
Frequency	1870 MHz to 1930 MHz
Range	Hub to Body Pack : 50m line-of-sight Hub to Hub: 100m line-of-sight
Power	> 10hrs continuous operation on internal batteries. USB charger System hub may be permanently wired to a 9->36V platform supply.
Battery	10 hours (approx.) Charge time: 5 hours (approx.)
Sealing	Enclosure: IPx7 Connectors: IPx7 when mated
Temperature (Hub and Bodypack)	Operating: -20 to +70°C Storage: - 40 to +80°C
Enclosure Size (L x W x H)	Hub: 180mm x 125mm x 40mm (excluding antenna) Body Pack: 110mm (H) x 70mm (W) x 35mm (D)
Weight	Hub: 0.8kg Body Pack: 0.26kg

### Interfacing

External Interface	Interfaces with Diamond Intercom and Radio Combiner System
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### User Controls

Control Subsets on Body Pack	On/Off button Volume Up/Down Push-To-Talk button Illumination – Power/Charge/Status
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