



Diamond Intercom

Wired Intercom & Radio Combiner System

The Diamond Wired Intercom and Radio Combiner System is an ideal solution for those that must go to sea and require voice connectivity between multiple users and on-board radios. The Diamond Wired system also allows for the integration of engine and system alarms ensuring platform and crew safety.

The Intercom and Radio Combiner system has been battle-tested in the most austere environments—providing crystal clear, reliable communications in a robust, compact and low-maintenance design. Users can be confident in their independent access to both secure and non-secure communications, a full duplex intercom and voice-activated comms.

Key Features of the Diamond Wired Intercom & Radio Combiner System



- Clear, reliable communications
 - User-specific VOX sensitivity control
 - Up to 8 wired users
 - Up to 6 programmed radios
 - Battle-tested: proven both on and off the water
 - Easy to use with compact footprint and low power
 - IP 66/67—still operational even after full submersion
 - Designed for single-hand operation under high-speed transit
- Programmable engine alarms



- Headset agnostic through use of smart cables
- Designed to Def Stan 00 35 Environmental Requirements
- Designed to Def Stan 59-411 and EN60945:2002 ACI:2008 EMC
- Can be integrated with the Diamond Wireless Intercom System





Technical Specifications

General	
Audio Interfaces and Processing	High quality, digital audio (300Hz–8kHz) User-controllable VOX function
Power	9-32 VDC 700mA @12V
Weight (ea)	Hub: 2.5kg User Node: 0.7kg
Size (W x H x D)	Hub: 220mm x 160mm x 89mm
Storage / Operating Environment	
High Temperature	Storage: 70°C Operating: 55°C
Low Temperature	Storage: -34°C Operating: -25°C
Sealing	IP66/67 Protected against dust, powerful water jets and temporary immersion in water Tested in accordance with DEF-STAN 00-35 Part 3, Issue 4, Test CL25, Blowing Dust and Blowing Sand 3 CL5
Random Vibration	Tested in accordance with DEF STAN 00-35, Issue 3, Part 3, Test M1 Annex A Figure a26 + A27—Light Vehicle—Material on Sponson or Installed in Hull, Tracked Vehicle—High Level Test (Vertical Level Only) Annex A, Figure A29—Material Deployed in Ships Smaller than Mine Sweepers
Shock	Tested in accordance with DEF Stan 00 35, Part 3, Issue 4, Test M3, Table 1
Interfacing	
Headset Interface	Flexible headset option for different microphone and sensitivities (monaural or binaural)
Radio Interface	Flexible radio input/output allows use of any radio Fully isolated analogue output to radio audio and PTT lines
Alarm Interface	8 user-definable audible alarms (spoken, tonal, etc.)
User Controls	
Control Subsets on User Node	Radio selection; Volume (Min/Max); VOX Sensitivity (PTT/Open); Push-to-talk button (Selected Radio); Push-to-talk button (Intercom); Illumination activation button to check radio selection
Radio TX Inhibit	Single switch places system in radio 'listen only' mode

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