

# VITAVOX



Tactical Communication Systems







### OUTACOM™

A fully qualified vehicle mounted tactical Public Address (PA) system for use on all tracked and wheeled armoured fighting vehicles. The primary and overwhelming tactical advantage is that this will reduce the requirement to dismount soldiers and therefore lower the risk inherent in unprotected exposure to danger.

As a capability improvement it can both reduce the risk of unnecessary collateral damage and the probability of any escalation of violence. The PA system will also allow safer and more precise control of public order. As either a stand-alone or intercom integrated system, it can provide direct communication over a distance of 300 metres.

- Deployed with AJAX and its variants
- Turret, weapon or hull mounted
- Blast proof, shockproof and weatherproof (IP67)
- MIL-STD 461E, MIL-STD 861F and DEF-STAN compliant



### VITAVIC 600

A tactical vehicle loudhailer system designed specifically for messaging and alarms with all the benefits and features of the OUTACOM™. Programmable recurring voice messages in any language allows for communication with local civilians and dismounted soldiers and crew to maintain public order. With a range of up to 300m, VITAVIC 600 can be used as stand-alone or with intercom integrated operation.

- External output isolation switch facility
- Intercom or data device input
- High intelligibility and range (300m)
- MIL-STD 461F and MIL-STD 810G compliant



### VITAVIC 400

VITAVIC 400 is a true Software Defined (SD) fully digital intercom. The system has been designed to work with and integrate in the field seamlessly with all current and potential future headsets and radios in any configuration. The SD system is a Digital Signal Processing (DSP) and Field Programming Gate Array (FPGA) design with the end user in mind, allowing control and manipulation of functionality at user level, in real time, as and when needed.

The system comprises a Central Communication Unit (CCU), Basic Communication Unit (BCU), Cable Set and Personal Headset. The system is suitable for both heeled and lighter tracked armoured and patrol vehicles.

- Solutions for vehicles with up to 21 crew members and 6 combat net radios
- Supports heads-up operation
- Special alarms and warning input catered for
- Dismounted personnel may be remotely connected via a short range soldier radio or field telephone interface



### Combat Net Radio Monitor

3-Way radio monitor for vehicles and installations that do not require either a harness or an intercom. This system allows the user to monitor three separate radio stations and broadcast on the selected radio – or all three in an emergency. Rugged interface for connection with any type of radio, microphone or headset, complete with built-in speaker with volume control. Easy operation and installation.

- Visual indication of individual radio traffic. This can be disabled if required
- Compatible with any in-service combat net radio (CNR) and headset
- MIL-STD-810F and MIL-STD-461E compliant



### Compact Broadcast Loudspeaker

The Vitavox Compact Broadcast Loudspeaker has been designed and developed as an External Output Module (EOM), implemented into the AJAX programme's six variants as part of the OUTACOM™ Vehicle Mounted Tactical Public Address System. Available as a replacement to the Vitavox 2183 Main Broadcast Loudspeaker and the Vitavox 2184 Intercom Loudspeaker, the EOM is available as a more compact 'plug and play' alternative.

- Deployed in AJAX as part of OUTACOM™
- Compliant to DEF-STD-00-35, DEF-STD-61-5, DEF-STD-59-411, MIL-STD-810 and MIL-STD-461
- Shock tested to 200G
- Ingress protection rating IP67



### VITAVIC 407

Boasting a rugged design for integration with existing intercom and on-board warning systems (BMS, NBC, Shot Detection), the VITAVIC 407 provides clear, intelligible, controlled and reliable reproduction of all on-board signals and warnings.

- In service with Foxhound
- Can be driven by intercom system or GVA
- Maximum 4W output controlled in 10 steps
- MIL-STD 461E, MIL-STD 810F compliant



### Main Broadcast and Intercom Loudspeakers

Vitavox main broadcast and intercom loudspeakers are current stock items for Australian, New Zealand and UK Royal Navy. Two versions are available with similar form, fit and function; 2183 Main Broadcast Loudspeaker and the 2184 Loudspeaker with integral amplifier. Main loudspeaker used on Type 23 and new compact version for Type 26 Global Combat Ship.

- 10, 20 and 30 Watt variants and Main Broadcast 31.6V, 70V and 100V
- Ingress Protection rating IP67
- Type shock tested to 70G force by UK MoD
- Used above and below deck in high noise areas
- Survives close proximity explosions and destructive blows



### Compact Submarine Loudspeaker Microphone

Watertight, pressure-tight 5 watt loudspeaker and talkback microphone designed for use in hyperbaric conditions on submarines including the bridge and dive chamber areas.

- Deployed on the Astute Class Submarine.
- Includes talkback microphone
- Exceptional clarity and volume
- Corrosion free
- Proven record in service
- Will withstand maximum dive pressures and submarine bridge shock rating requirements



### UHF Headset

Designed and manufactured to transmit ship or boat main broadcast to crew in high noise environments whilst offering good acoustic protection. The UHF System significantly improves and replaces main broadcast magnetic loop hearing protection systems. UHF is omnidirectional and has no sound dead spots in compartments making the system far safer. It comes with ultra-comfortable ear muffs, passive attenuation and is manufactured from the highest grade ABS attenuating plastic.

- In service on the Astute Class of Submarine
- Protection from sound pressure levels above 80dB
- Operates at 864.5MHz to satisfy the exacting EMC requirements
- Up to 60 hours receiving transmitted signal and out of range and low battery warnings



### Magnetic Loop Headset

Designed and manufactured as a ship's main broadcast magnetic loop receiver system with comfortable, passive attenuation and cost effective future upgrade to UHF receive when required.

- On/Off, out of range and low battery audio and visual warnings
- For protection above 80dB
- User selectable digital or analogue filtering mode



### Type B90 Microphone

Vitavox Type B90 Noryl hand-held microphone, with 'Press-to-Talk' switch is fully watertight (noise cancelling excepted) and proofed against shock and vibration. They are specifically designed to accommodate different types of microphone inset, including a 300ohm Noise Cancelling inset.

- Noise cancelling microphone deployed in AJAX.
- Available in 4 versions; Noise Cancelling inset, Rocking Armature, Carbon inset, Moving Coil inset
- Fully Watertight (noise cancelling excepted)
- Manufactured from moulded black nylon 'NORYL 738' black



### Type B60 Watertight Microphone

Vitavox Type B60 Microphone is completely watertight, is intended for use in all exposed conditions and designed for use in the gloved hand. The construction is particularly robust therefore able to withstand heavy handling.

- Fully watertight withstanding complete immersion in water
- Will operate with cable length up to 150 metres



### Battery-Powered Emergency Handsets

Vitavox Battery-Powered Emergency Handset is based on previously employed handsets but with significant enhancements reflecting user requirements. Multiple handsets can be connected to a dual copper wire forming a stand-alone, non-interfering communication channel. Versions of this handset are in operation on Vanguard, Trafalgar and Astute Class Submarine.

- No requirement for power from any vessel systems
- Up to 50 handsets used in the same circuit
- Handset still operates if ship/boat incurs power failure
- Simple battery change after 24 hours continuous talk time, 3 month standby.
- Sound level is much higher than voice powered emergency systems.