



ALFEA

Active Low Frequency Electro-Acoustic Sonobuoy SSQ 926

Features

- 'A' Size
- High Power
- 1-2 kHz Source
- Programmable waveform types
- Autonomous Ping capability
- Robust to RF interference
- Commandable depth capability
- Autonomous/Electronic Function Select
- Command Function Select
- GPS fitted

Features

The Ultra ALFEA sonobuoy has been designed specifically for use as a high power, low frequency electro-acoustic source for use in multi-static buoy fields. The powerful acoustic technology incorporated into ALFEA derives from our hull mounted sonar countermeasure devices.

The buoy incorporates a UHF Command Function Select capability to control its operation post launch.

ALFEA can be used with current in-service and next generation passive buoy types.

Ultra provides a complete solution to multi-static search operations from sensor-to-display, including the complete range of sonobuoys, and the latest airborne receivers and acoustic processors.





Ultra's total solution for a Multi-Static Active System

The Ultra Multi-Static Active System (MSA) comprises a field of transmit and receive buoys and the necessary processing to detect and track a target without overloading the operator. The system uses combinations of the following buoy types, all of which are available from Ultra with GPS, in standard and MSA optimised versions:

- SSQ 926 ALFEA Electro-Acoustic Source
- SSQ 955 HIDAR High Dynamic Range DIFAR
- SSQ 981 Multi-Mode Barra (Horizontal Planar Array)

Processing

The on-board system centres on the latest Acoustic Processors of Ultra and Computing Devices Canada. The AQS 971 is in service with the current Nimrod MR2 aircraft and the AQS 970 is being delivered to the Nimrod MRA4. The aircraft are able to:

- Monitor a range of buoys in any combination
- Provide Tactical Aids for the operator
- Incorporate Clutter Reduction techniques
- Give automatic Detection and Classification



Receivers

Ultra also supplies the ARR 970 sonobuoy receiver in 16, 32 and 64 buoy configurations, including a sonobuoy positioning system for use with non-GPS buoys.



Ultra Electronics Limited
 SONAR AND COMMUNICATION SYSTEMS
 419 Bridport Road
 Greenford
 Middlesex UB6 8UA
 England
 Tel: +44 (0) 208 813 4567
 Fax: +44 (0) 208 813 4568
 e-mail: mktg@ultra-scs.com

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