

# Own Ship Noise Measurement Systems

Drumgrange can provide a range of Own Ship Noise Measurement Systems (OSNMS) for organically monitoring the radiated acoustic emissions of Warships and Submarines.



Our OSNMS has been developed as a stand-alone system comprising transducer arrays, data acquisition and data distribution sub-systems and PC based operator work-stations. Alternatively, we can offer the transducers with network based telemetry and embed the software application within the platform's existing Sonar or Combat system.

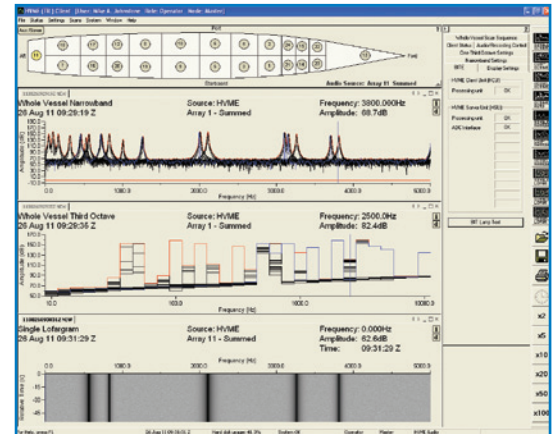
The transducers comprise arrays of hull internally mounted accelerometers and external hydrophones which can be populated throughout the platform or localised in particular compartments to provide real-time radiated noise estimates and to aid the localisation of noise sources.

The software provides a modular acoustic analysis toolkit and an equipment database which allows the operators to customise the system to suit the platform configuration.

## Key features of the software include:

- Windows based application operated independently or within a networked combat system
- Single transducer, compartment or whole platform acoustic measurements
- Narrowband or third octave analysis
- Single or summed Lofargram displays
- Frequency coverage 0-44 kHz depending on transducers
- Raw data capture for post-processing

Drumgrange can also provide fully customised solutions to suit bespoke requirements.



Versatile Software Toolkit



Bulkhead Mountable Control Panel

*“We design, develop and manufacture innovative products and are also experts at integrating existing technology to create successful, cost effective solutions.”*



**Drumrange Limited**  
Unit A, The Forum, Hanworth Lane, Chertsey, Surrey, KT16 9JX.  
Tel: +44 (0) 1932 581100 Fax: +44 (0) 1932 569646  
Email: [info@drumrange.co.uk](mailto:info@drumrange.co.uk) [www.drumrange.com](http://www.drumrange.com)

