

# Drumgrange Limited Company Profile



Drumgrange is a thriving, independent, privately-owned, UK technology company operating in the Defence and Security industry, providing design, development, manufacture and through-life support capabilities for electronics and communications systems in the Maritime and Land domains.

## Maritime Mission Systems

- Sonar Systems & Signal Processing
- Acoustic Signature Monitoring Systems
- Position and Precision Timing Systems
- Data Acquisition, Distribution & Networking
- Special to Type Test Equipment
- Maritime Installation and Maintenance Services
- Sea Trials and Sonar Calibration

## Maritime Communications (VLF)

- World-class niche technology developed over 40 years
- Equipment spanning the complete communications chain
- NATO STANAG 4724/5030 compliant products
- Studies and technical support to nations wishing to develop the VLF communications capability

## Command, Control, Communications, Computers Intelligence, Surveillance, and Reconnaissance (C4ISR)

- Shared Situational Awareness (SSA) and Platform Integration
- Communication and Information Systems
- Training and Simulation
- Radio Frequency (RF) Products

## Innovation and Consultancy

- Engineering & Technical Studies
- Research & Development
- Computer Modelling and Algorithm Development
- Technical Demonstrators



INNOVATIVE SOLUTIONS FOR DEFENCE AND SECURITY

## Maritime Mission Systems

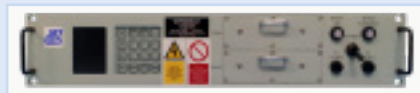
Drumgrange develops bespoke systems, equipment and software for Naval Applications specialising in complex, high performance solutions to meet demanding functional, environmental, shock and information assurance requirements. Examples include:

- Active Intercept and Surveillance Sonar Processing
- Hull Vibration Monitoring Equipment
- Digital Data Acquisition and Sensor Systems
- Video Processing and Storage Systems
- Precise Time and Frequency Equipment (Caesium and Rubidium)
- Military GPS acquisition and distribution solutions (Navfix)
- Open Architecture software applications
- Embedded software solutions



HVME Display

## Maritime Communications (VLF)



MSK VLF Single or Dual Demodulator System

Drumgrange has been involved in VLF Submarine Broadcast Communications (UK, NATO and overseas customers) since the 1980s, supplying transmitter, platform, and HQ equipment conforming to STANAG 4724 and the latest STANAG 5030 standards.

Examples include:

- Transmitter sites: Keystream Processors, Modulators, Demodulators, OTARM EOW, Caesium PTFE
- Platforms: Demodulators
- HQ Sites, MCTCC, OTAM, EOW, Closed Loop Test Facility, Bearer Multiplexer Units
- Extensive reference systems and test facilities



MSK VLF Dual Modulator Sub-System

Current products include:

- MSK VLF Single or Dual Demodulator System
- MSK VLF Dual Modulator Sub-System
- MSK VLF 3003 E Single 1U Demodulator (developed in collaboration with Hagenuk Marinekommunikation as the OEM)



MSK VLF 3003 E Single 1U Demodulator

## Innovation and Consultancy

With innovation at the heart of the Company mission, Drumgrange strives to develop new products, find novel solutions and improve upon existing capabilities by building on the momentum from previous years. In addition to engineering services, Drumgrange also offers consultancy services to conduct:

- Technical Studies
- Research & Development
- Computer Modelling & Algorithm Development
- Technical Demonstrators



## Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR)



Walk-on-Fit (WOF)

Drumgrange specialises in the tactical multi-domain integration of C4ISR Shared Situational Awareness (SSA) capability, integrating systems with systems, with bearers, with software, with platforms, and with people. Drumgrange's expertise focuses on delivering a full comprehensive capability, ensuring that all the systems work seamlessly.

- Walk-on-Fit (WOF), SSA capability suitable for small boats and vehicles
- C4ISR vehicle integration projects
- Military communications installation and integration projects
- Craft and boarding party Shared Situational Awareness systems
- Deployable Multi Theatre Information Operations Capability

Drumgrange has established wide-ranging expertise in the design, manufacture, and integration of communication systems, telecommunications and related technologies for demanding requirements, including:

- Deployable video, audio recording, and analysis systems
- Deployable rugged IT networked systems with satellite and bearer of choice connectivity
- Drumgrange is a Gold level UK reseller for Milestone Video Management Software (VMS)
- ComSim Product Range providing a highly versatile communications training solution that allows for safe RF training in live, virtual, or constructive environments
- Acoustic Hailing Device long distance communications including remote controlled and bird-scaring variants
- Diamond Intercom and Radio Combiner System providing crystal clear, reliable communication in the harshest of user environments. Ideal for fast boat platforms and patrol vehicles.



Acoustic Hailing Device (AHD)



Diamond Intercom and Radio Combiner System

To view and download detailed product datasheets, scan the QR code:

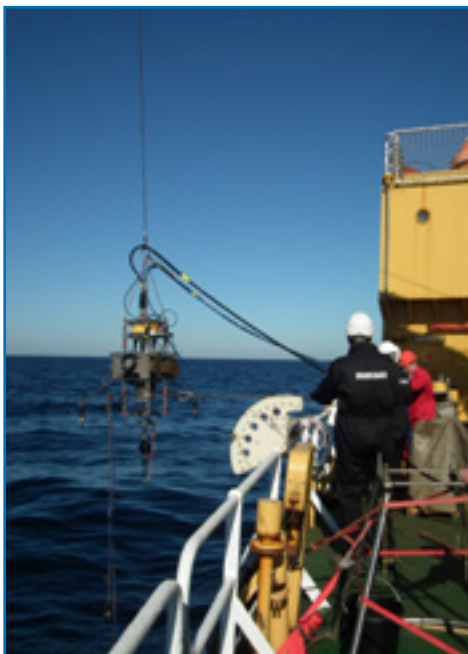
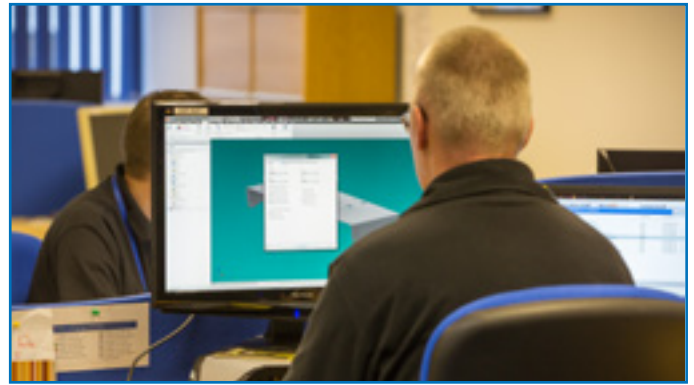




# Key Facts and Figures



Since its establishment in 1979, Drumgrange has maintained its organic growth to become a thriving small-medium enterprise with over 120 employees spread across two sites in Chertsey and Portland. The Chertsey site serves as the Head Office, principally responsible for system engineering, product development, and support, and the Portland site is primarily focused on system integration and in-service support. With Service Leavers making up 15% of the company workforce, Drumgrange maintains close ties with the Armed Forces Community, demonstrated by its signing of the Armed Forces Covenant in 2015.



## Areas of Expertise

Drumgrange maintains the following core capabilities and expertise:

- Prime contract management
- System engineering and integration
- Electronic hardware and PCB design
- Software development including real-time embedded
- Mechanical design (AutoCAD and Inventor)
- Simulation and modelling (Matlab and Simulink)
- Documentation and technical publications including handbooks
- Safety management, safety case production and Independent Safety Advisor
  - In-service Support
  - Integrated Logistics Support (ILS)
  - Contractor Logistics Support (CLS) and Contracting for Availability (CFA)
  - Post Design Services (PDS)
  - Obsolescence Management and Resolution

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