

# Drumgrange Limited

Drumgrange Ltd. is an independent defence and security company specialising in the design, development, integration and through-life support of Military Equipment, with a focus on Maritime, Land and Security domains. Drumgrange has projects and products in the following areas:



## Land

- Communication and Information Systems
- Radio Frequency Products
- Training and Simulation
- Special Projects
- Vehicle Integration

## Maritime

- Underwater Systems
- Geospatial & Temporal Referencing (G&TR) Systems
- Communication Systems
- Platform Integration

Drumgrange has achieved an enviable reputation for the rapid, cost-effective realisation of innovative technological solutions to satisfy the most demanding applications, for the quality of its products and, most importantly, for delivering solutions and services on time, to specification and to the Customer's satisfaction.

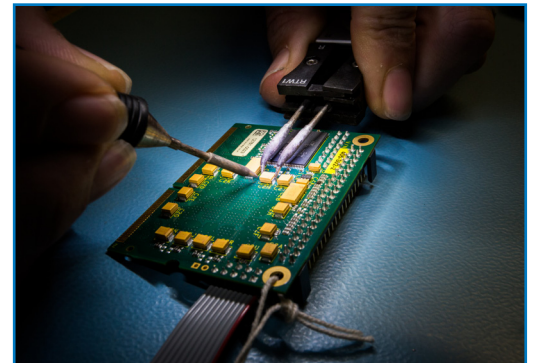
## Areas of Expertise

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

## Security

- Acoustic Hailing Devices
- Diamond Intercom systems (wired and wireless)
- Xtreme Screen and Seaboat PC
- Maritime Interdiction Systems



## UK Sites

An SME, Drumgrange employs over 100 personnel across two sites; Chertsey in Surrey and Portland in Dorset. The Chertsey site is the Head Office and principally responsible for system engineering, product development and support. Resources include a screened EMC test facility and environmental chamber. The Portland site is primarily focused on system integration and in-service support. Facilities include a 20 Tonne overhead crane.

## Underwater Systems

Drumgrange has worked closely with the Royal Navy for nearly 40 years and specialises in niche areas where high performance and high levels of reliability are mandatory. Examples include:

- Intercept and HF Passive Sonars; variants include HIDRA, Leopard and Cerberus
- S2045(IR) Open Architecture Sonar System
- Own Ship Noise Measurement Systems
- Underwater Communication Systems

## VLF Communications

Drumgrange has been involved in VLF Submarine Broadcast Communications (UK, NATO, overseas customers) since the 1980s supplying transmitter, platform and HQ equipment. Examples include:

- Transmitter sites: Keystream Processors, Modulators, Demodulators, OTAM, EOW, Caesium PTFE
- Platforms: MORTICE (Outfit TTL replacement) Special Modes, Demodulators
- HQ sites: MTCC, OTAM, EOW, Closed Loop Test Facility, Bearer Multiplexer Units
- Extension reference systems and test facilities

## Geospatial and Temporal Referencing (G&TR)

Drumgrange has over 20 years' experience providing complementary technologies that support highly resilient position, frequency and timing systems for platforms including warships, survey vessels, auxiliary vessels, off-shore patrol vessels and submarines. These systems include:

- Precise Time and Frequency Equipment (Caesium and Rubidium)
- Naval GNSS Systems; supply of the latest RN GPS solution, Navfix
- Precise fixing systems for MCMVs

## Security Systems

Drumgrange provide a range of products targeted at the security market including the oil and gas industries. These products include:

- Long range Acoustic Hailing Devices including remote control and bird scaring variants
- Diamond Intercom and Radio Combiner System
- Diamond wireless intercom system
- Xtreme Screen and PC

## Communication and Information Systems

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

- Deployable video, audio recording and analysis systems
- Deployable rugged IT networked system with satellite connectivity

## Platform Integration

Drumgrange specialises in the integration of navigation, communications (V/UHF, SatCom & Iridium), tracking and situational awareness systems for military, security and rescue platforms, including RHIBs, landing craft, combat support boats and underwater vehicles and land vehicles. Examples include:

- C4ISR vehicle integration projects
- Military communications installation and integration projects
- RHIB tracking and boarding party systems
- Deployable Dual Theatre Information Operations Capability

## Training and Simulation Systems

Drumgrange has a wide range of experience in the development of Training and Simulation Systems for the defence industry from Computer Based Training (CBT) Systems and Equipment Simulators to fully integrated Live, Virtual and Constructive (LVC) Systems.

- ComSim Product Range: The ComSim family provides a highly versatile communications training solution that allows for safe RF training in live, virtual or constructive environments across HF, VHF, UHF (L and S Band) frequency ranges up to 2.5GHz. Passive matrices are also available.
- MaxSim. A rugged PC software based Array Signal simulator that supplies fully customisable acoustic signals, in analogue or digital format, directly to the sonar processing unit under test.

## RF Products

The RF Product range broadly covers, RF Distribution and switching, Direction Finding and Training and Simulation System components.

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