

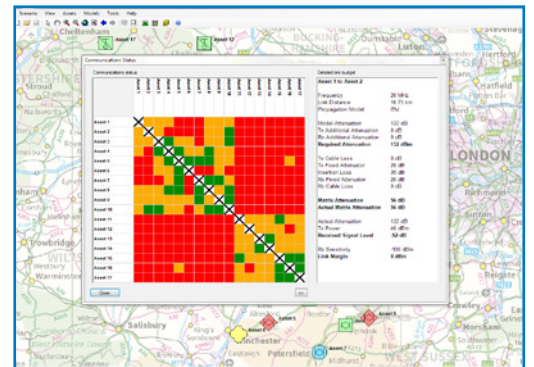
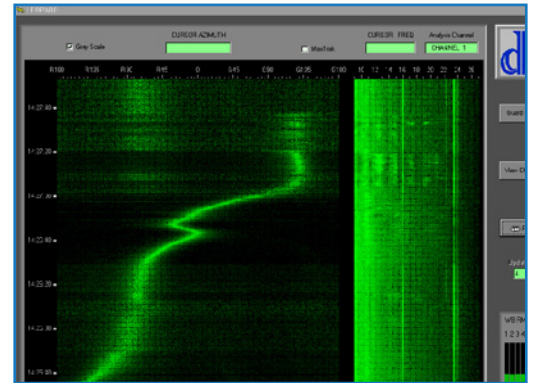
Drumgrange Limited



Drumgrange Ltd. is an independent defence contractor specialising in the development, integration and through-life support of military systems with a particular focus in eight business areas:

- Underwater Systems
- VLF Communications
- Navigation and Precise Timing Systems
- Security Systems
- Communication and Information Systems
- Boat Systems Integration
- Training and Simulation Systems
- RF Products

The company has achieved an enviable reputation for rapid, cost-effective realisation of innovative technological solutions to suit demanding applications, for the quality of its products and, most importantly, for delivering solutions and services on time and to specification.



AREAS OF EXPERTISE

Drumgrange maintains the following core capabilities and expertise within the Company:

- Prime contract management
- System engineering, system integration and platform integration
- Electronic hardware and PCB design
- Software and embedded software development
- Mechanical design (AutoCAD and Inventor)
- Simulation and modelling (Matlab and Simulink)
- Documentation and Technical Publications Authoring
- Safety Management, Safety Case Production and Independent Safety Advisor
- In-service Support
 - Integrated Logistics Support (ILS)
 - Contract Logistics Support (CLS) and Contracting for Availability (CFA)
 - Post Design Services (PDS)
 - Obsolescence Management and Resolution

UK SITES

The Company is located on two sites; at Chertsey, Surrey and Portland, Dorset. The Chertsey site is the Head Office and principally responsible for system engineering and product development with facilities that include a screened EMC test facility. The Portland facility is the Company's Centre of Excellence for in-service support and has specialised facilities including an anechoic water tank for testing sonar systems.

Underwater Systems

In the underwater domain, Drumgrange has worked closely with the Royal Navy for over 30 years and specialises in niche areas where high performance and high levels of reliability are mandatory.

- 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 actively involved in the VLF Submarine Broadcast Strategic Communications programme since the 1980s supplying both platform and HQ equipment.

- Outfit TTL Special Modes Equipment
- HQ Equipment: Bearer Multiplexer Units, Keystream Processors and Modulators

Navigation and Precise Timing Systems

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.

- Precise Time and Frequency Equipment
- Naval GNSS Systems; supply of the latest RN GPS solution, Navfix

Security Systems

We offer bespoke and customised equipment designs and solutions to support User requirements.

- Long range, flexible, Acoustic Hailing Devices
- Deployable Surveillance Systems

Communication and Information Systems

Drumgrange has established a wide range of 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

Boat Systems Integration

Drumgrange specialise in the integration of navigation, communications (V/UHF, SatCom & Iridium), tracking and situational awareness systems for military, security and rescue craft, including RIBs, landing craft, combat support boats and underwater vehicles.

- Xeres system is operated by the Royal Navy on Type 23 Frigates and Type 45 Destroyers providing military communications between the deployed RIBs and the platform, shared situational awareness, RIB tracking and boarding party systems.

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.

- Generic Comsim. An RF Simulator allowing safe, controlled and repeatable scenarios for radio communication within an office or classroom environment
- Maxim. 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

Drumgrange purchased Raven Research Ltd, a unique RF engineering design and production company which specialised in developing custom RF products for the defence and security industries. The RF Product Range broadly covers, RF Distribution, Direction Finding and Training and Simulation System components.



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