

MILITARY SYSTEMS

E T E C H N O L O G Y

GREENRAY

Frequency Control Solutions

ADVENTURE LIGHTS INC.

Manufacturer of Durable Safety
& Signaling Beacons

E-REG COATINGS LTD

Application of Military & Specialist Powder
Coatings & Paint Finishes

MILAN BOX CORPORATION

Wirebound, Wooden Containers
& Boxes for Ammunition

MMIC EOD LTD

Inventors, Manufacturers & Developers
of Specialist Equipment for EOD &
CBRN Environments

TRUCK-LITE EUROPE LTD

Design & Manufacturing of Vision Systems for
Commercial, Military & Defence Vehicles

PLUS...

BREAKING
NEWS FROM...

ANSELL
MARSHALL
GUARTEL
WILL-BURT

Image Courtesy of Guartel

EODSolutions

Explosive and Ordnance Demilitarisation



Explosive and Ordnance Demilitarisation

www.eodsonline.com



Welcome to this edition of the Military Systems & Technology newsletter.

As an established web portal for the International Defence & Aerospace Industry, we strive to provide a comprehensive and detailed listing of Military Equipment Suppliers, Products and Services. This newsletter is designed to keep you up-to-date with latest news and events within the Defence Industry's Governing Bodies, Organisations and Companies.

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Quartz precision...in Motion.

TCXO

Greenray

And the Best g-Sensitivity Performance You Can Buy...period.



T1215

Frequency 10 - 800 MHz
Attributes Hermetic Pkg.
 High Shock & Vibration
Best Stability ± 0.3 ppm
Output CMOS, Cl. Sine, LVPECL
Size 9.0 x 7.0 x 2.8 mm
 0.35 x 0.28 x 0.11 in., SMT



T70 series

Frequency 10 - 50 MHz
Attributes Tight Stability
 High Shock & Vibration
Best Stability ± 0.1 ppm
Output CMOS, Clipped Sine
Size 7.0 x 5.0 x 2.5 mm
 0.28 x 0.20 x 0.10 in., SMT



T52

Frequency 10 - 50 MHz
Attributes Tight Stability
 High Shock & Vibration
Best Stability ± 0.1 ppm
Output CMOS, Clipped Sine
Size 5.0 x 3.0 x 2.2 mm
 0.20 x 0.12 x 0.09 in., SMT

Drawing on more than 50 years' engineering and manufacturing experience and our extensive military and defense heritage, and working together with sister companies Statek Corporation and Advanced Technical Ceramics. **Greenray oscillators are establishing new category standards for low power consumption, tight stability, low phase noise, and high-reliability.**

For example, Greenray's revolutionary ANN-100 (the world's first artificial neural network-compensated crystal oscillator) and the ultra-low g-Sensitivity T1300 tcxo – together with our line of 'standard' TCXOs – are achieving performance standards for g-Sensitivity, phase noise, and temperature stability that validate our commitment to re-Define frequency control.

We provide customers frequency control solutions that simply work better – in some instances, for example g-Sensitivity – orders of magnitude better.

Better on the ground, better in the air. And most definitely, better in motion. That's Greenray.

greenrayindustries.com

frequency control solutions



For Industry, for Defense. Greenray.

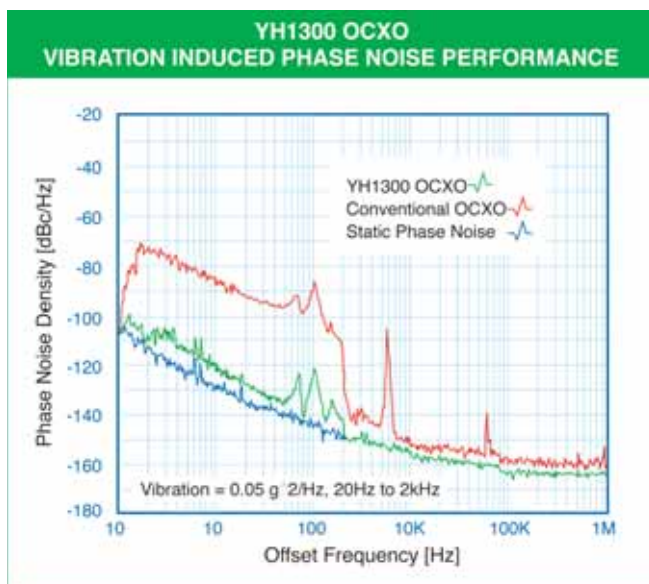
OCXO

YH1300

An Essential Component of Mission Success.

Greenray's newest YH1300 OCXO is relatively impervious to the effects of extreme shock and vibration. And it offers Phase Noise performance improvements of up to 40dB when compared to current, conventional OCXOs.

The latest performance standard for the YH1300 is 0.07 ppb per g, that's $7 \times 10^{-11}/g$ of applied acceleration force. And today, typical performance for the YH1300 is 0.05 ppb or better – a major breakthrough for compact, low-power OCXO performance – and just one more example of our quest to re-define frequency control.



Under vibratory conditions, the YH1300 offers the potential for enhanced phase noise performance for defense and non-defense apps, including position/location recording, GPS, and hand-held or remote instrumentation.

So whether your mission takes you to the cloud tops or mountain peaks, patrolling remote borders or monitoring glacial movements, don't let a noisy or lost signal compromise your critical data or your secure communications.

Talk to a Greenray engineer today and put our high performance, ultra-low g-Sensitivity signal source components to work for you.

greenrayindustries.com

frequency control solutions



For Industry, for Defense. Greenray.



Adventure Lights Inc.

MANUFACTURER OF DURABLE SAFETY & SIGNALING BEACONS



Adventure Lights Inc. is a premier manufacturer of extremely durable safety and signaling beacons for use where positive visual ID is vital. The company manufactures a wide assortment of visual and IR portable lights, remote controls, and interactive/programmable light products that are in use with the Canadian, US, and British military as well as many other countries' Ministry of Defense.

Identification Friend
or Foe (IFF)
Visual and IR
Beacons, Markers and
Tags

Adventure Lights offers many kinds of signal lights that feature a variety of functions and output colors – both overt

and covert. They are all waterproof up to 100 meters (330 feet) and extremely resistant to impact. We were the first to design a one-hand operated, ergonomically considered multi-function LED light back in 1994. We built the VIP with a revolutionary body that melded the housing to the circuit board as one solid unit. This signature design is still unmatched for its durability and intrinsically safe properties, and we have since grown to hold an entire range of products meant to fit all needs. Many of



our lights come with the option to record and playback a unique flashing signature. For more information on specific products, please refer to the supplier documents section of our Company Profile.

Night Vision Compatible Vehicle Lighting

IR Vehicle Illuminators are plentiful, what isn't so common are lights that can take the punishment the military vehicles can put out. We developed this series of illuminators to do their duty in the

harshest environments while enhancing soldier safety. The light is now an installed factory kit on many new Humvees, and can be ordered for Humvees and many other convoy vehicles. This illuminator is popular where extreme use is commonplace.



Universal Digital Remote Control (U.D.R.C)

Airfield Landing Zones, Drop Zones, Helicopter Landing Zones and Beach Head Marking Systems

Our U.D.R.C systems function as a portable runway-in-briefcase for emergency landings of all sorts. They come ready to set-up with all necessary batteries and equipment in a watertight and waterproof protective NANUCK case. We have several systems designed to meet the needs of various types of airfields: landing zones, drop zones, helicopter landing zones and beach head marking systems

We also offer custom kits available for clients with more specific requirements.





e-reg coatings
Military & Industrial Coating Specialists

E-Reg Coatings Ltd

APPLICATION OF MILITARY & SPECIALIST POWDER COATINGS & PAINT FINISHES

E-Reg Coatings Ltd is based in Burnley, East Lancashire, and has over 30 years experience in the finishing industry. Providing a complete service including the application of Military, Defence and Specialist paint finishes, as well as industrial powder coatings, we are committed to offering complete customer care and satisfaction. Specialising in Chemical Agent Resistant Coatings (CARC) for over ten years.

Having earned full ISO 9001-2008 accreditation since September 2004, E-Reg Coatings Ltd has a policy of continuous improvement ensuring the best solutions and quality are given to all our clients, whether its large capacity production runs or small one off projects.

All work is processed to the exact specifications and tolerances detailed by our customers and we have a dedicated team to

care for every aspect of our services, from initial enquiry and order processing to inspection and quality assurance. We work closely on all projects with our clients who are based throughout the UK and overseas, ensuring that quality is to the highest standard and that delivery schedules are always met.

Committed to meeting customer needs and expectations, an environment has been established which encourages all employees to focus on, and pursue, continuous improvement in reliability, performance and the quality of products and services.

Examples of Specifications we currently work to:

Chemical Agent Resistant Coatings (CARC)

These finishes are used extensively on military vehicles, communications systems, weaponry and all ancillary equipment. The coating produces a non-porous surface that impedes chemical, radioactive and biological contaminants from penetrating the paint and base materials. CARC resists chemical attack from the aggressive cleaning detergents used for decontamination of the equipment.



Coatings offered can include IRR Properties and come in various colours and gloss levels.

US CARC Paint Systems

MIL-DTL-64159B Type II

Two component waterbourne polyurethane Infared Reflective and Chemical Agent Resistant Coating for Military equipment.

MIL-DTL-53039 Type II

Single component moisture cure aliphatic polyurethane which is a camouflage chemical agent resistant coating for military vehicles and equipment.

These coatings are available in the following

FED-STD 595 colours:

- **Green 383, 34094**
- **Black 37030**
- **Brown 383, 30051**
- **Tan 686A, 33446**
- **Aircraft Green 34031**
- **Aircraft Grey 36300**

UK MOD CARC Paint Systems Include:

DEF-STAN 80-153 Defence Coating

A single pack, air drying finish with IRR properties used for service vehicles and ancillary equipment

- Colour - Light Stone

DEF-STAN 80-166 Defence Coating

A two pack IRR paint system used for defence equipment which complies with DEF-STAN 00-23 and STANAG 2338

- Colour - NATO Green and Black

We welcome enquiries for other paint systems and will strive to source materials wherever possible. Examples of some other paint systems we regularly use are:

DEF-STAN 208/209

Two pack polyurethane HS low VOC matt / gloss coatings for ground equipment and ancillary items. Satisfies requirements for IRR Camouflage and hydraulic fluid resistance.

MIL-PRF-22750G

This high solids epoxy topcoat is intended for use on the interior of military ground equipment.



- Colours include: Flat Grey, Gloss white and Sea foam green.

DEF-STAN 80-122

Polyester high durability, IRR Powder coating in NATO Green and Tan.

Most paint systems are available upon request.

Quality Control

E-Reg Coatings Ltd holds full ISO 9001:2008 accreditation and uses fully documented quality procedures. These procedures are adhered to at every stage to ensure all components are pre-treated, coated, inspected and packed in accordance with the customer's specifications. Sample panels are processed to full spec, alongside components, which are then tested for paint thickness and adhesion, using fully calibrated equipment.

Staff

One of our most valuable assets is our highly skilled and experienced staff. Using their knowledge and expertise they apply a proactive approach to problem solving on the job. Some of our members of staff have over fifteen years experience working with military contracts and specialist specifications.



Investment

By using the most suitable plant, and using first rate materials, we are able to guarantee consistency and quality. We believe that by investing in our equipment, and our work force, we can provide a superior finished product which, in turn, results in satisfied customers and repeat business. Over the years we have heavily invested in plant and equipment to provide in-house facilities to cover all aspects of pre-treatment and processing required for the Military, Defence, Specialist and Industrial sectors.

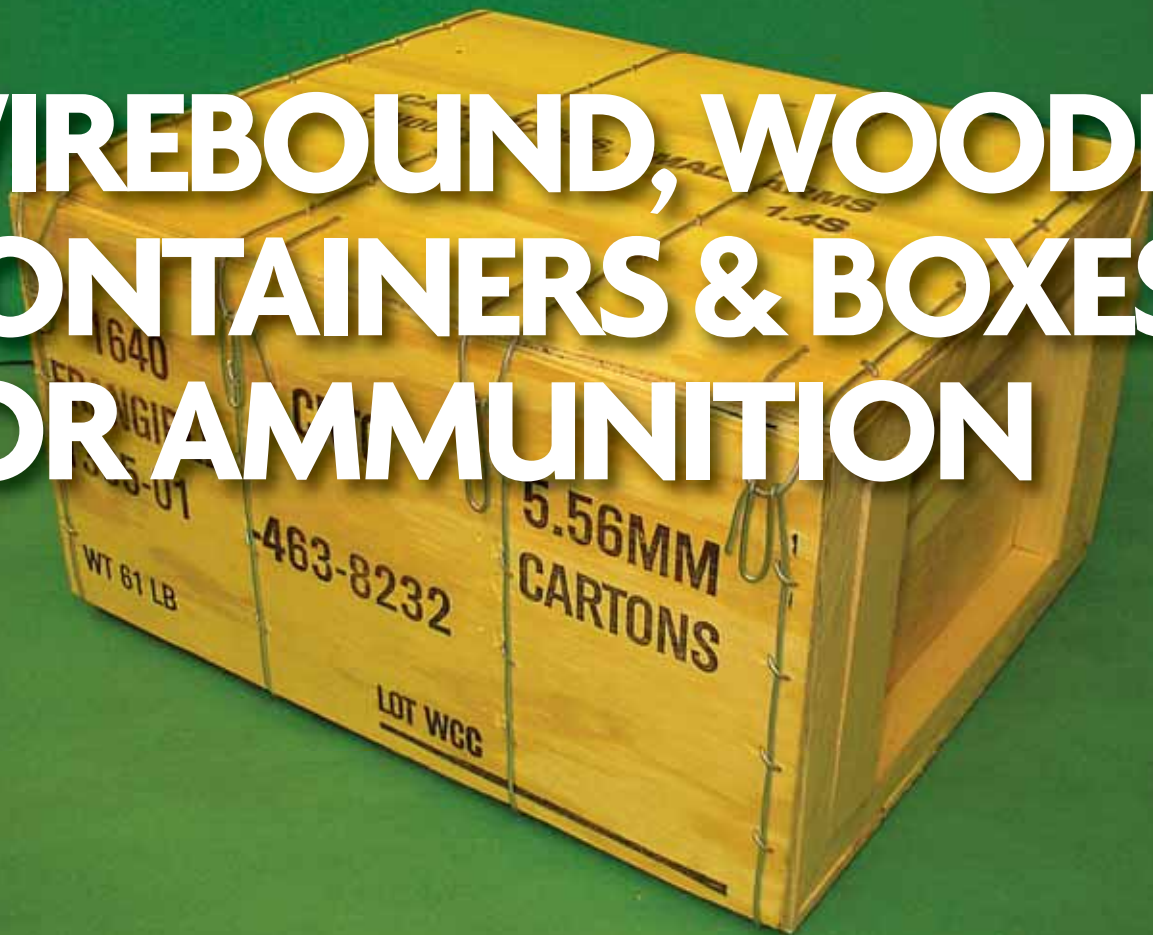
Capacity and Plant

We currently deal with contracts ranging from one off jobs through to regular, large quantities of small components i.e. over 15,000 components per month.

Our plant consists of:

- **3m x 3m Clean air room with water wash spray booth**
- **4m water wash spray booth**
- **3m water wash spray booth**
- **3 cubic meter Electric Oven**
- **5m x 3m x 3m Gas fired oven**
- **5m double pass gas oven with online conveyor track**
- **Alocrom pre-treatment plant 900mm x 900mm x 600mm**
- **2m x 1.2m Vapour De-greasing plant**
- **Specialist Masking / De-masking facilities**
- **2 x Pad Print Machines**
- **2 ton Counter Balance Fork lift truck**
- **Flat bed transport Collection / delivery facilities**
- **Sister Company to E-Reg Sheetmetal Fabricators LTD www.eregsheetmetal.co.uk**

WIREBOUND, WOODEN CONTAINERS & BOXES FOR AMMUNITION



Milan Box Corporation has manufactured boxes and crates since 1927. The company expanded into military ammunition boxes during the Second World War, and now provides wirebound, wooden containers and boxes for ammunition, fuzes, grenades, artillery munitions, rockets, explosives and missile components. Both our military wirebound and nailed wood boxes are made to fit BWAY ammo can dimensions. Throughout our history, Milan Box has maintained its excellent reputation as a high quality manufacturer of plywood and wood packaging.

Our customers include Ensign Bickford, ATK, Raytheon, General Dynamics, Picatinny Arsenal, United Defense, Pine Bluff Arsenal, Olin, BT Fuze, Federal Cartridge, DZI, and many others.

Milan Box is an approved US government SBA Hub Zone Qualified small business

and currently it hopes to acquire more FMS customers (involved in the Foreign Military Sales program supported by the US government).

Main Military Box List - all made to U.S.

Government Specifications:

Wirebound Boxes:

M2A1
M19A1
PA108
40mm
60mm Mortar
81mm Mortar
120mm Mortar

Wood Boxes:

GMLRS
105mm
Bradley Armor Tile
Striker Armor Tile
Hydra 70
M67 Grenade Box

specifications:

- **MIL-DTL-2427**
- **MIL-B-15011**
- **MIL-DTL-46506**
- **PPP-B-585**
- **PPP-B-587**
- **PPP-B-601**
- **PPP-B-621**

Wirebound Containers

Milan Box Corporation's wirebound containers offer maximum protection, withstand rough handling, permit high stacking, occupy less cube, have a low tare weight, and keep packaging costs low.

Our M2A1 wirebound plywood container is used for the 5.56mm, 9mm, 45cal and 7.62mm cartridges. It is manufactured according to military specification

designated PPP-B-585D. It is one of the most popular types used by the US Army and Marines, is per military drawing 7553347, and includes a special heat treatment and a preservative treatment.

Pricing normally includes various military markings prescribed by the customer and is largely governed by the availability of materials and quantities ordered.

Nailed Wood Boxes

The M6 reactive armor tile wooden container is available in several versions, including the M3, M4, M5 and M7, all designed to package various sizes of armor tiles for the Bradley Fighting Vehicle. Similar wooden containers will be used to package armor tiles for the new Stryker Amphibious Vehicle.

These containers are built to military specification designated Mil-B-2427 per drawing number 12590330.

Our wooden fuze box container is used for mortar and artillery fuzes and plastic cord explosives. It is manufactured according to military specification designated Mil-B-2427. It is one of the most common types used by the US Army and Marines and comes in various larger sizes.

Pricing normally includes various military markings prescribed by the customer.

Plywood Ammunition Containers

Our 120mm mortar plywood container is designed to hold two rounds, and is manufactured according to military specification designated Mil-B-46506. It is a popular type also used by international munitions manufacturers. It can be heat treated and preservative treated. It comes with two fiber-tube inner containers.

The TOW missile plywood container is manufactured according to military specification designated Mil-B-46506. This



container represents an integrated packaging effort to source various components including barrier bags, separators, foam inserts and corrugated pieces required per the military drawing. Milan Box has also manufactured a similar missile box for the Stinger Shoulder Fired Missile.

Ammunition Box Hardware

The ammunition box hardware is manufactured according to military specification designated Mil-B-2427G (AR), and features the following:

- 8796520 swivel assembly
- 8796523 hasp
- 8796524 hinge

Integrated Military Packaging Systems

In an effort to better serve our customers, Milan Box Corporation works in conjunction with United Ammunition Container, Inc, a packaging supplier for the armed forces, to provide a one-stop source for your complete packaging needs, including inter-pack requirements.

Whether requiring fiber containers, wooden boxes, wirebound boxes, or specialty skids, this association provides for customers' requirements.

Milan International as our exclusive international marketing representative.

Franklin Dedmon, President and Owner, Milan Box Corp.

Franklin holds a BA Degree from David Lipscomb College in Nashville, Tennessee. He has worked at Milan Box Corporation for over 30 years. He is married and has three children.



Tony Hamaguchi, President, Milan International

Tony holds a BSc Degree in Engineering from the University of California at Los Angeles and an MBA from the University of Colorado at Boulder. He has more than 18 years of international working experience in Saudi Arabia, Cayman Islands, Mexico and Venezuela, largely in connection with offshore holding companies. He is married and has three children. His hobbies include golf and flying (CFI).



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- DF-Ready



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INVENTORS, MANUFACTURERS & DEVELOPERS OF SPECIALIST EQUIPMENT FOR EOD & CBRN ENVIRONMENTS

MMIC EOD are inventors, manufacturers and developers of specialist equipment for EOD and CBRN environments. We have a flair for thinking differently with the ethos "we will find a way or make one". Our expertise is varied, with backgrounds in explosives, EOD/IEDD, engineering, electronics and chemistry.

How We Work

Our work is underpinned by 4 key ideas;

- **Invention**
- **Expertise & Experience**
- **Persistence**
- **Flexibility**

We do have a genuinely different approach. Through our operational experience we know it is not good enough to just think about our part in the process. An EOD team has work through many different steps when dealing with a device and our work is designed to be as focused on the user's goal as they are.

CBW Sampling and Disposal Monica Remote Case Entry Systems

Innovation at the Core

Innovation is an overused word these days but at MMIC EOD we can proudly say we deserve it. In 2006 our Monica Remote Case Entry system was awarded the Queens Award for Innovation. So it is nice to know Her Majesty agrees.



Who We Work With

We have worked with the military for over 20 years producing equipment that exceeds user's requirements. A look at our client list reveals just how demanding those requirements can be.

- **UK Military EOD/CT teams**
- **SIBCRA teams**
- **US Military EOD/WMD units**
- **Swedish EOD units**
- **CBW Disposal organisations**
- **UNMOVIC missions**
- **Special Forces**
- **Classified clients**

Our reputation ensures we continue to have excellent relationships with some of the world's most elite military and civilian response units.



The Advantages of Invasive Technology

Sampling and Disposal of Hazardous Sealed Vessels and Systems

MMIC EOD has built its reputation in the field of invasive technologies for the investigation and disposal of CB devices. Disposal of these devices presents two distinct challenges;

- **What is inside them**
- **How to dispose of them without contaminating the surrounding area**

There are many non-invasive techniques on the market but most are ineffective at handling sealed containers. Those that can "see" inside can be easily fooled. Complete certainty is only achieved by the analysis of a physical sample from inside the device. The problem is how to do that without allowing the contents to contaminate the adjoining environment.

Additionally, non-invasive techniques do not assist when tackling the second issue. Where a device cannot be moved it must be disposed of in-situ. Near sensitive

targets blowing in place (BIP) is not an option as it will simply do the terrorists job for them. In these circumstances invasive technology provides a vital capability.

Not only can it penetrate any device without releasing the contents but it allows operators to sample, drain, neutralize and investigate devices through one hole with no risk to the surrounding area. All this can be done minutes after arrival on-site. In addition, preservation of the device allows for excellent evidential collection to assist criminal investigations and prosecutions.

CBRN and EOD Products

MMIC EOD has a wide range of specialist EOD and CBRN equipment. Our range includes;

CBR EOD – Investigation and Disposal Equipment

- **In-situ sampling & disposal of CB munitions and IEDs**
- **Any agent, target, size, shape or material**
- **Fast, safe investigation and disposal**

MMIC EOD lead the way in developing equipment which can invasively interrogate and dispose of a wide range of munitions and other vessels. This ranges from our flagship Monica system for CBEOD operations to the hand held Midas system for rapid sampling of sealed containers.



CBRN Disposal and Containment Systems

- **Portable equipment for draining and decontamination of CB devices**

Our MATS equipment offers a unique capability for the draining and decontamination of munitions in-situ. Additionally we have a range of portable containment systems for the transportation of hazardous materials.

EOD Equipment

- **Innovative Solutions to EOD Challenges**

At MMIC EOD we pride ourselves on looking at conventional EOD problems slightly differently. From our unique MATE Trepanning system, which cuts disposal times in half, to our Matilda Fuze Removal system we have a range of equipment which significantly assists EOD operations.

Support

We know that our clients will use our equipment in harsh environments. Our support is more than a free phone number. Firstly, all our kit can be maintained by the operator in the field, saving time and cost. Secondly, our kit comes with spares as standard items to minimise downtime. Additionally, our teams will deploy in theatre to assist with maintenance if necessary. We also offer full servicing and upgrades packages, depending on user requirements.

Training

Our equipment always comes fully supported by a comprehensive training package. In our time we have trained units in theatre all over the world. The training covers operational use and in-unit servicing. In addition we offer specialist training on many aspects of EOD and CBRN.



AVIATION

MARITIME

PUBLIC TRANSPORT

SUPPLY CHAIN



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HEAVY GROUND MOBILITY SYSTEM

TRACKWAY TESTED BEYOND LIMITS

In 40 years of designing and building mobility solutions for the defence industry, our products have never been beaten. Every rigorous trial has proven them to be unrivalled global leaders with the highest tolerance levels. Used by more than 30 different armed forces

worldwide each of our advanced engineered products are deployed in minutes, using minimal manpower. With a proven track record for use in the harshest environments by the world's most demanding customers, **TRACKWAY is in a class of its own.**



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 **FAUN**
TRACKWAY



Truck-Lite Europe Ltd



DESIGN & MANUFACTURING OF VISION SYSTEMS FOR COMMERCIAL, MILITARY & DEFENCE VEHICLES

Truck-Lite Europe Ltd is a global leader in the design and manufacturing of vision systems; servicing the Commercial Vehicle, Military and Defence Vehicle, Off-Highway and Automotive sectors of the industry. Alongside our sister companies in the USA and Asia, we have been supplying some of the largest OEM's worldwide with components for fifty years; from the likes of Daimler, Volvo and Scania to some of the largest military organisations in the world; including the US military.

Military Vehicle LED Lighting Technology

A LEADER IN THE DESIGN OF VISION SYSTEMS

Working with such giants of the industry enables us to understand the demanding requirements, our lighting and mirror products have to meet.

Under the brand names of Truck-Lite, Rubbolite, FER and Signal-Stat we have become a fore runner in lighting technology and mirror manufacturing. We have a strong emphasis in the design and innovation of LED technology – a phrase which is now synonymous with Truck-Lite and displaying our ability to adapt to an ever-changing and evolving marketplace.

SPANNING ACROSS THE GLOBE

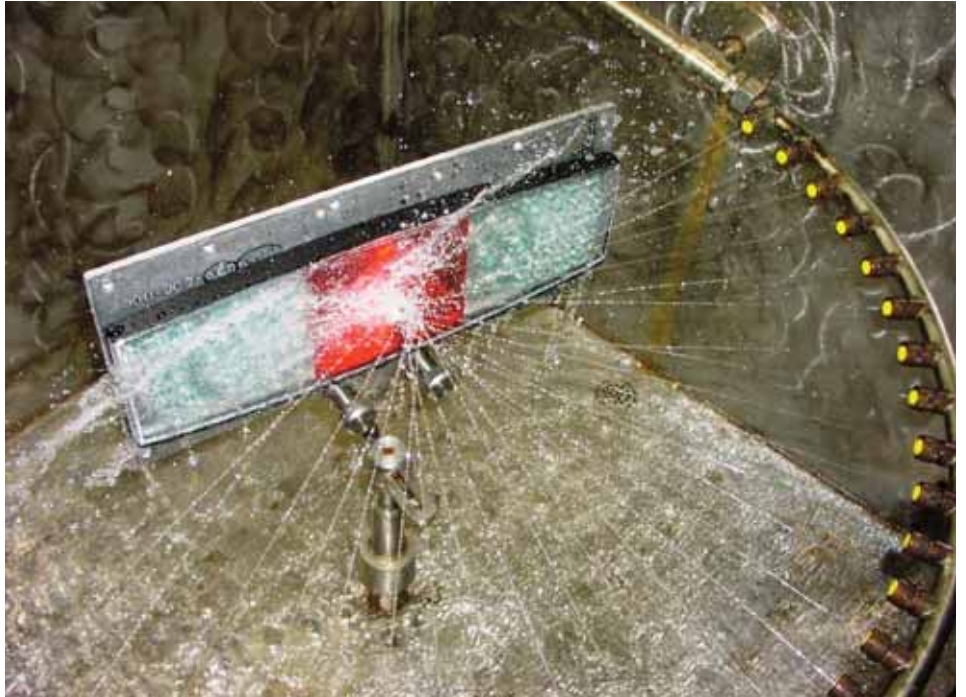
With a strong heritage and 11 manufacturing locations spread over nearly 100,000m² worldwide, we are able to support our customers regardless of their location. Owned by Penske, the largest logistics company in the USA, our plants span the globe: from New York, and Pennsylvania as well as Mexico in North America, to China in Asia, and Germany, Poland and Belarus in Europe. Our UK bases are in Harlow, Essex and Birmingham. Military LED Vehicle Lights.



MILITARY LIGHTING: FROM THE FRONT, DOWN THE SIDE, TO THE BACK

Truck-Lite Europe Ltd has developed its products in accordance with the ever growing demands of both the customers we serve and the technologies we have helped develop. We are evolving the way in which 'Vision Systems' are being viewed, and working with our OEM customers.

We manufacture lighting from the front to the back of the vehicle: headlamps, auxiliary lamps, floodlights, side markers and rear lamps, which are able to be mounted on various applications – from tanks and armoured vehicles, to recovery vehicles, four-wheeled drives and SUVs.



SUPPORTING OUR CUSTOMER WITH OUR TEAM

Truck-Lite globally provides vision solutions to various military organisations within the UN, involved in ISAF engagement. Military lighting systems are mounted to vehicles in both conflict and post-conflict arenas.

We take a 360° approach to our customer relations, keeping the company structure flat; removing the red tape, improving communication and bringing decision makers close to the ground. Our Managing

Director Aaron Ryalnce insists on this. He said: "It's vital to maintain a steady and transparent information flow - from those at the root of our company, right up through to the president. Our employees deal with customers and operations every day and we need to stay connected and remain nimble to meet the demands of those customers." Truck-Lite's global reach is part of our foundation, "...we don't silo ourselves in terms of region," Aaron continued, "We don't have those barriers".

QUALITY AS STANDARD

Our portfolio of off-road customers has led to products being developed to

perform in some of the harshest conditions without dropping performance. Each of our products is put through one of the highest testing-specs in the industry, with up to 15 gruelling examinations: measuring everything from water-resistance and flammability, to dust and particle resistance; as well as being the only unit in the UK equipped to measure photometrics up to 30 metres, with our lab's state-of-the-art optics and reflex bench. Each test ensures the security of our end-users and maintains the reputation of our customer base.





**IMPROVING MISSION READINESS.
IT'S OUR SOLE OBJECTIVE.**

Source: Swiss Federal Office of Topography



That's Why L-3 Link Developed the New Standard for Virtual Simulation Realism.

It's called HD World®, a realistic, high-fidelity synthetic environment that immerses warfighters in dynamic high-definition training scenarios. HD World combines high-definition databases, image generation systems, physics-based processing technology and visual system displays to add unparalleled realism for manned and unmanned training.

To see how L-3 Link is redefining training capabilities, go to www.link.com.

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Ansell Teams Up With Gore For Global Launch of Splash & Flame Resistant Clothing

TRELLEBORG, SWEDEN – 17 September 2013 – Ansell, a global leader in protection solutions, announces the launch of their Sawyer-Tower liquid chemical splash and flame resistant clothing for industrial use. Unique breathable materials, invented by W. L. Gore & Associates, have allowed Ansell to develop a variety of chemical splash protective garments under the Sawyer-Tower brand name. This product line is now being launched globally and will be available worldwide.

“We are very excited to launch our Sawyer-Tower range of products on a global scale” says Thomas Draskovics, President and General Manager Ansell Specialty Markets. “These products already have a track record of successful use within the US industrial market, and we are confident that Safety Managers across the globe will appreciate its features and benefits such as breathability, chemical splash protection and flash fire resistance.”

With more than 100 years of experience in the protective clothing business, Ansell has extensive knowledge about what is needed for industrial use and chemical protection. The Sawyer-Tower range of lightweight clothing is made with GORE® chemical splash fabric, which provides liquid chemical

penetration resistance and moisture vapor breathability. By allowing moisture vapor from sweat to escape through the fabric, suits made with GORE® chemical splash fabric help to manage heat stress while offering exceptional protection. Unlike traditional vinyl or rubber suits that are hot, heavy, and cumbersome, the Sawyer-Tower suits can typically be worn through an entire shift without excessive overheating.

Many industrial operations require chemical splash protection. To address this, Sawyer-Tower products are certified to the NFPA 1992 Standard on Liquid Splash Protective Ensembles and Clothing for Hazardous Material Emergencies. When heat- and flame-resistance performance is needed, Sawyer-Tower suits incorporating GORE® chemical splash fabric with Nomex® textiles meet the requirements of ASTM F2302-08. Additionally, this non-flammable product offers protection from exposures to thermal hazards from momentary electrical arcs and flames, as specified in the NFPA 70E Standard – Standard for Electrical Safety in the Workplace.

Sawyer-Tower protective clothing is designed to be worn whenever the wearer faces potential hazards arising from liquid chemical exposure – industries such as pulp and paper,



mining, chemical / petrochemical, and energy. More information on the Sawyer-Tower suits can be found at

<http://protective.ansell.com/en/Products/Sawyer-Tower/>.

GORE and designs are trademarks of W.L. Gore & Associates. Nomex is a trademark of E. I. du Pont de Nemours and Company.

About Ansell

Ansell is a world leader in providing superior health and safety protection solutions that enhance human well-being.

With operations in North America, Latin America/Caribbean, EMEA and Asia, Ansell employs more than 11,000 people worldwide and holds leading positions in the personal protective equipment and medical gloves market, as well as in the sexual health and well being category worldwide. Ansell operates in four main business segments: Medical Solutions, Industrial Solutions, Specialty Markets and Sexual Wellness.

Information on Ansell and its products can be found at www.ansell.com



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Marshall Provides Shelters for new British Army GEOINT System

Situational awareness will be significantly improved for the British Army following the development of a new battlefield geospatial intelligence system from Team SOCRATES, an industrial group led by Lockheed Martin UK Information Systems and Global Solutions (IS&GS) and including Marshall Land Systems.

The team has developed a coherent set of deployable GEOINT capabilities and services under the Field Deployable GEOINT (FDG) programme, which will be provided to the UK's Joint Force Intelligence Group (JFIG).

Marshall Land Systems has been responsible for the design, manufacture, fit out and integrated logistics for the 11 shelters fitted onto MOWAG Duro II 6x6 vehicles, which provide a two person tactical working environment and form the Tactical Information and Geospatial Analysis System (TIGAS). Marshall has also delivered three deployable shelters, which are used as the Tactical Map Deployment Point (TMDP) and also staffed by two people.

"This UK designed and built system elevates the collection, dissemination and effectiveness of GEOINT on the battlefield to a new level," said Ray Cutting, Director of Marshall Land Systems, adding "We are delighted to have worked as part of Team SOCRATES under the management of Lockheed Martin to deliver this system which will provide a real added benefit for commanders in the field. The interest which

is also being shown in the export market is very encouraging."

FDG provides soldiers with field deployable GEOINT exploitation and map production capabilities to support strategic and tactical level operations. It will enable commanders to dynamically and rapidly brief and equip their frontline troops for operations with up-to-date, customised and digital GEOINT.

The technology consolidates, enhances and extends existing battlefield GEOINT capabilities and integrates digital geoservers that were initially introduced under Urgent

Operational Requirements (UORs) to support recent operations.

Team SOCRATES comprises Lockheed Martin UK as prime and overall systems integrator responsible for hardware and software integration; Marshall Land Systems (container design and manufacture, plus integrated logistic support); SCISYS (software and integration); Atica Consulting (security and communications); KNK (concepts and doctrine); Polaris Consulting (whole life cost modelling) and Safety Assurance Services (safety and environmental work).

 **Marshall**



Marshall Land Systems as part of Team SOCRATES has integrated GEOINT analysis equipment and printers into shelters fitted to the MOWAG Duro II 6x6 vehicle.



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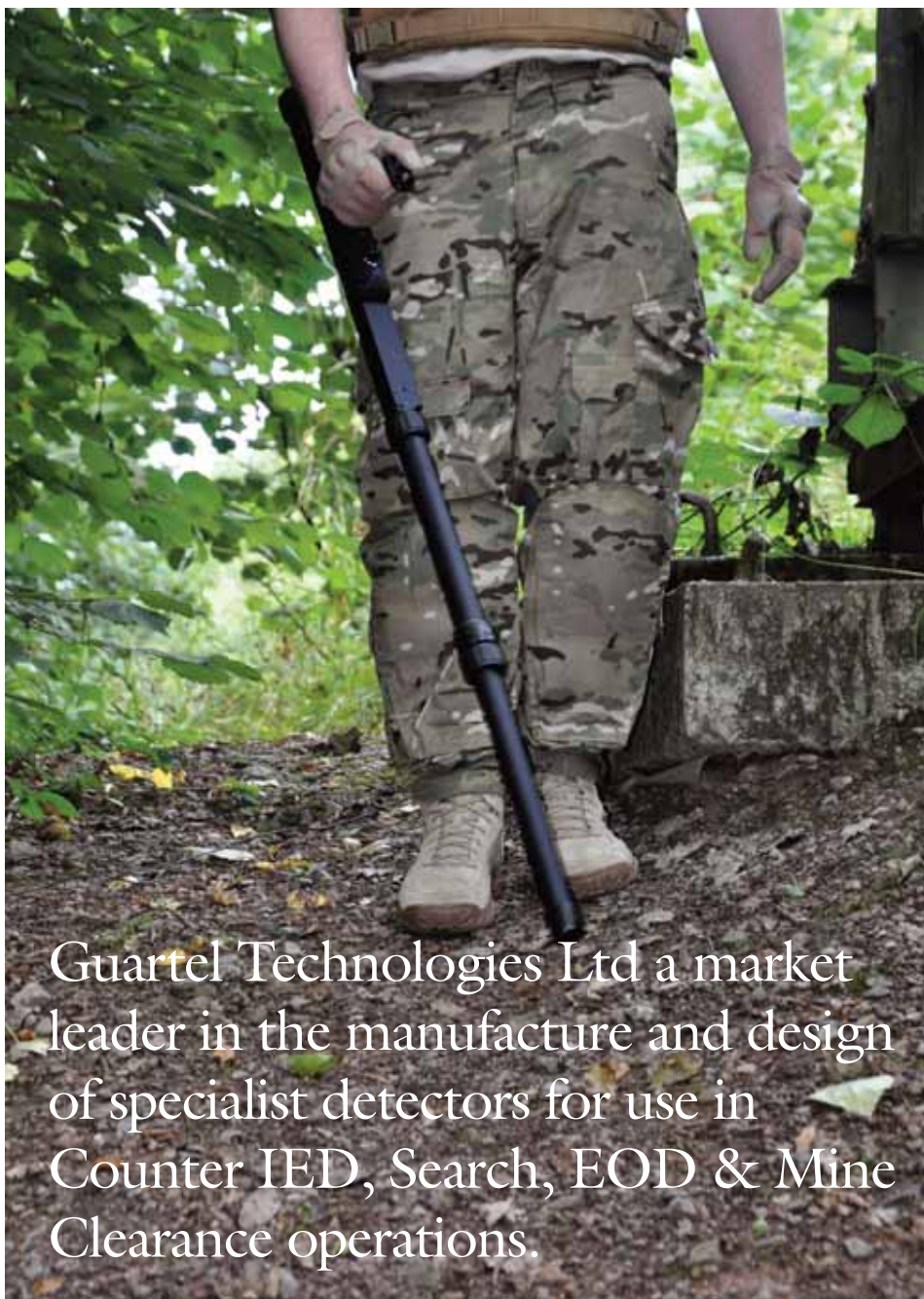
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Guartel are proud to announce the release of a new Metal Detecting product GRIPE



Guartel Technologies Ltd a market leader in the manufacture and design of specialist detectors for use in Counter IED, Search, EOD & Mine Clearance operations.

New Products. Guartel are proud to announce the release of a new metal detecting product GRIPE, this specialist detector is based upon Guartel's well known MD4 Metal Detector. GRIPE is a telescopic, lightweight detector utilising carbon fibre composites and state of the art digital processing detection technology. During the design process Guartel worked closely with the user community to ensure the product meets the demanding specifications expected of equipment that will be utilised by CIED Searchers and Special Forces. GRIPE will be released onto the market in early 2014.

Metal Detector - GRIPE

Strategic Partnership – Guartel Technologies Ltd and Adams Electronics Ltd.

Guartel Technologies and Adams Electronics both respected UK manufacturers of metal detection products for the military, law enforcement and security sectors are pleased to announce their strategic partnership for the design, development and manufacture of a new compact hand worn detector, Aqua-MITT. The product is scheduled for release during the 2nd quarter of 2014. Both the MD of Adams Electronics Robert Adams and the MD of Guartel Technologies Cliff Wright see the partnership as the beginning of a long relationship to the benefit of both companies and to their respective customer bases, future projects are already on the horizon.

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The Will-Burt Company Introduces Snap Dragon™ Stealth Elevation Solution at AUSA

Snap Dragon, the newest elevation product engineered and manufactured by The Will-Burt Company in Orrville, Ohio USA, will be introduced at AUSA 2013. The Snap Dragon delivers stealth and persistent elevated surveillance in a robust On-The-Move capable package.

Snap Dragon™ Stealth Elevation Solution

The Snap Dragon was developed as a result of customer research that indicated the need for a fast, robust and low-profile, elevation solution for cameras and other sensors. The Snap Dragon has a combination of distinctive features that make it particularly well suited to meet the challenges of field operations and border surveillance. A five to one deploy to stow ratio allows payloads to be hidden when not in use affording protection for these sensor payloads. Two power options are available, each providing unique benefits to meet specific mission requirements. A compressed air system provides silent power and extremely fast deployment and retraction of the payload in just 2 seconds. An electro-mechanical option allows for precise positioning of the sensor at any height.

Persistent surveillance is possible with the On-The-Move capable Snap Dragon. The inherently strong structure allows for wheeled vehicle OTM execution up to 15 mph (24 kmph). The robust design is not only OTM capable it also performs in harsh environments. Powered retraction of the system ensures that the payload can be brought down in ice and snow. Dust and dirt will not affect the performance of the moving parts. These capabilities are delivered by a system that requires very little maintenance and will provide optimal sensor positioning cycle after cycle.

"Snap Dragon delivers a unique set of



benefits that further enhance the elevation solutions portfolio of Will-Burt," said Jeffrey O. Evans, President, CEO and Chairman of The Will-Burt Company. "The speed at which Snap Dragon can be deployed and retracted, its low-profile payload concealment and On-The-Move capabilities deliver the elevation advantages needed by today's military missions."

About The Will-Burt Company:

The Will-Burt Company, located in Orrville, Ohio, is the world's premier manufacturer of telescoping mast and tower elevation solutions – the world's one stop shop offering virtually every payload elevation solution from one source – for military, fire, cellular, broadcast, entertainment and other

applications. Will-Burt also designs and manufactures military and other shelters made of all-composite materials that deliver higher performance at lower life cycle cost than metal or partial composite shelters. Will-Burt's LINX security solutions provide integrated access control and intrusion detection certified to protect critical assets. Will-Burt is employee-owned and has a strong commitment to the continuous improvement process set forth by its ISO 9001:2008 certified quality system.



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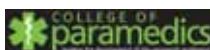
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