

# MILITARY SYSTEMS

TECHNOLOGY

## ARGON

Chemical, biological, radiological nuclear (CBRN) high-fidelity training simulators & HazMat training exercises

## BIBBY SCIENTIFIC

The BV, still providing hot water to the troops And now cools as well

## GINCH

worldwide design & manufacture of interconnect products

## TSS

Specialists in Armour Mobility

## MMIC EOD LTD

Inventors, manufacturers & developers of specialist equipment for EOD & CBRN environments

PLUS...

BREAKING NEWS FROM...

BCB  
BRÜEL & KJÆR  
HESCO  
L-3 WESCAM  
OXLEY  
PEI-GENESIS  
PELI-HARDIGG

Image Courtesy of MMIC EOD Ltd.

# MAKING THE WORLD A SAFER PLACE

## SURPLUS AND OBSOLETE SMALL ARMS AMMUNITION DESTRUCTION

In the new global economy many Armed Forces are downsizing to reflect the budgetary constraints of their respective countries. This brings with it surplus items which, because of the reduction in the number of personnel, are put into storage until a suitable method of disposal is found. High on the priority list is ammunition of all types and nature. Small Arms Ammunition (SAA) accounts for a large percentage of any military organisation's arsenal. It also contributes significantly to the stockpile of surplus, obsolete and shelf life expired ammunition.

EOD Solutions Ltd in conjunction with CALDO engineering have developed the Transportable Ammunition Destruction System (TRADS) to destroy SAA in an environmentally responsible manner. There are two systems available, the TRADS 40 and the TRADS 20, both of which employ ceramic filtration backed up with a catalytic filter to ensure complete cleaning of the gases. Recent improvements have allowed the system to clean the gases even more efficiently to comply with EC Emissions Directive 2007 and the USA Environment Protection Agency guidelines - one of the most stringent in the world.

Both systems are constructed in ISO 20 foot container frames to allow sea and air freight delivery and vehicle transportation. The frames also allow for ease of maintenance and observation during ammunition processing. The TRADS 20 system shown here is designed to undertake medium and small-scale destruction of SAA where the ammunition is dispersed in different locations.

TRADS 20 will destroy a minimum of one and a half tonnes of ammunition per day. The system destroys all SAA and their secondary effect components except high explosive rounds and is completely enclosed to make it safe for the end user.



TRADS 20 utilises a furnace that allows small quantities of ammunition to be destroyed and then emptied into a bin for further processing such as Free from Explosives Inspection. It can then be filled again with the next batch of ammunition. Because this system is enclosed it means that the destruction process and the emptying is a continual cycle, automatic and completely safe for the operators.

EOD Solutions Ltd has recently manufactured the TRADS 20 and 40 for a client to operate in Afghanistan. The TRADS has proven itself in the most arduous of conditions over a two-year period during which time the system destroyed all types of SAA up to and including 14.5 mm ammunition.

It requires no infrastructure as electrical power and compressed air are built into the system. It can be positioned on site and can be working within 36 hours requiring only diesel fuel to begin operations. TRADS 20 is the ideal system for disposing of disbursed stockpiled SAA at an affordable cost.

[www.eodsonline.com](http://www.eodsonline.com)



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## 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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# ARGON™

World leaders in CBRN/  
HazMat training systems

# CHEMICAL, BIOLOGICAL, RADIOLOGICAL NUCLEAR (CBRN) HIGH-FIDELITY TRAINING SIMULATORS & HAZMAT TRAINING EXERCISES

Argon Electronics provides high-fidelity training simulators to enable safe, cost-effective chemical, biological, radiological nuclear (CBRN) and HazMat training exercises to take place both in open areas and internally at sensitive facilities.

## Simulators to Enhance CBRN Training

Argon's advanced CBRN simulation platform enables you to create multiple simulated

hazards over time within the same exercise, enabling students to practice how to use a number of different simulated detector technologies.

A modular design concept enables you to start with a basic simulation system and progress to our world renowned PlumeSIM instrumented wide-area and table-top CBRN training systems. This simple but effective approach enables you to ensure your students enjoy what we at Argon call 'real experience training' (RET).

In use by many Military, First Responder, and Nuclear emergency response teams, training

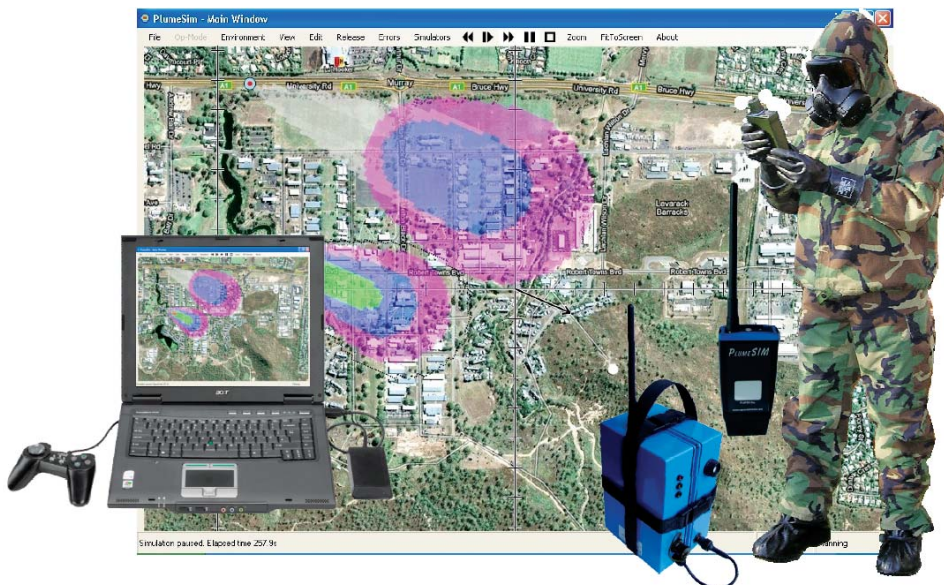


facilities, specialist groups and industrial organisations worldwide, our CBRN training systems are making a real difference to response planning and preparedness.

## Chemical Warfare - HazMat Training Simulators

Argon is proud of its relationship with many of the world's leading detector manufacturers. We have developed simulators for the JCAD, LCD3.2e, LCD3.3, AP2C, AP4C, RAIDM-100, Hapsite and ChemPro 100 and many other detectors.

The simulation technology employed enables your students to experience the difference between the use of different detector technologies such as ion mobility spectrometry, flame photometry and gas chromatography



mass spectrometry (GC/MS).

These easy-to-use simulators do not require any consumables (with the exception of batteries), preventative maintenance or regular calibration, assuring you a low ongoing cost of ownership. You can set up most scenarios within 15 minutes and implement chemical warfare agent (CWA) / HazMat exercises in virtually any environment.

Argon simulators enable you to replicate persistency, wind direction, full and partial decontamination and certain simulated detector faults, in addition to depletion of simulated consumables such as hydrogen cylinder or sieve packs.

Electronic simulation sources mean you avoid the need to use chemical simulants and the challenges associated with health, safety and site remediation cost. You can also quickly set up exercises in sensitive locations without causing concern.

The simulators provide you with powerful student monitoring facilities so that you can ensure any potentially costly user errors form part of your after action review and student improvement process, without the risk of costly damage and subsequent lack of availability of your actual detectors.

## Radiological Training Simulators

Argon has alpha, beta and gamma simulators for many of the commonly used radiological detection instruments. Our simulation sources can be used to provide indications on gamma survey simulators, dosimeter simulators and also



spectrometer simulators.

Our product range includes simulators for the AN/VDR-2, AN/PDR-77, RDS100, RDS200, FH40G, EPD-Mk2 and many more.

A variety of contamination simulation technologies and simulation probes / instruments ensures you meet your every training need. Argon has also developed simulation spectrometer probes that operate with the SAM935 and SAM940 spectrometers. Should you have any specific requirement, our extensive and highly capable product development team enjoy a good challenge.

## PlumeSIM Wide Area Instrumented CBRN

PlumeSIM has the ability to transform your CBRN / HazMat exercises. This powerful but easy-to use-simulation system and has four modes of operation:

- **Planning:** lets you prepare your exercise without the need to use any simulation system infrastructure
- **Table top mode:** allows students to practice their skills in a semi virtual world without leaving the classroom
- **Field exercise mode:** our advanced player is worn by the student to track their movements in real-time while driving the simulators with the CBRN scenario you have created

- **After action review:** you can replay all player movement, threat readings and mistakes made throughout the exercise to discuss how effectively your students carried out their mission and define areas for improvement

PlumeSIM has won acclaim from many organisations that now use this system at their CBRN training facilities. The flexible simulation architecture means that it can grow with you as your simulation and training needs advance.



# Bibby Scientific

## THE BV, STILL PROVIDING HOT WATER TO THE TROOPS AND NOW COOLS AS WELL



The BV (boiler vessel) is well known throughout the British Forces as it has been proving troops in vehicles, of all shapes and sizes, with continuous hot water for brewing up or cooking rash packs. It has been called the morale booster, amongst other things, and its rugged design has meant that it has been accompanying troops in theatres across the

world for many decades in the Challenger, Foxhound, Scorpion, and the Jackal, to name but a few.

It draws its power from the vehicle which means there is no need to stop to take a much needed rehydration break, which could make

vehicles and troops vulnerable to attack and slow the mission. Excellent insulation means that it keeps water hot for hours, the outside is cool to touch and it has a very low thermal image.

The company, Electrothermal, that first designed the BV, in conjunction with the MOD



back in the 1980's, and it is estimated that there are over 20,000 deployed today. Recently this innovative company has taken a step forward and developed the cooled BV! Not only does this device provide the same heated water and rash pack solutions as the original BV, it now also has the capacity to deliver cooled water on

demand! It cools at 1°C per minute to 20°C below the ambient temperature, so can deliver the troops cooled water during those hot drives and deployment . . . and then as the ambient temperature dives, it can simply be switched to heat and it will provide heated water for drinks or for chow.

Electrothermal has been supporting troops on the move for years and is an active supporter of Help the Heroes . . . Let's give our guys the best support we can, cold and hot water is a must on the move!



 **Electrothermal**  
[www.feedtheforces.com](http://www.feedtheforces.com)



**cinch**  
 CONNECTIVITY SOLUTIONS  
 a bel group

# WORLDWIDE DESIGN & MANUFACTURE OF INTERCONNECT PRODUCTS



Cinch Connectivity Solutions designs and manufactures a broad range of interconnect products with facilities around the world.

In operation since 1917, Cinch supplies high quality, high performance, and high speed connectors and cables globally to the Aerospace, Military and Defense, Industrial, Transportation, and Computer markets.

Our diverse product offerings include: connectors, enclosures and cable assemblies utilizing multiple contact

technologies including copper and fiber optics.

Our product engineering and development activities employ cutting edge technologies for design and modeling, and our various technologies and expertise enable us to deliver custom solutions and products for our strategic partnerships.

We aim to exceed our customer's expectations, and to continually provide innovative solutions to the rapidly changing needs of the markets, and customers, we serve.

## Cinch Custom Capabilities

Cinch specializes in providing specialty interconnect and system solutions to the Military and Defense Market. We provide custom solutions with our creative, hands on engineering and end to end approach.

## Fiber Optic Connectivity Solutions Cinch EBOSA™ Expanded Beam Technology

Expands and collimates the optical beam up to 2000 times (single-mode) the original beam size making airborne dirt nearly benign to beam continuity and integrity.

Our patented active alignment technology aligns a standard LC ferrule to Cinch's EBOSA™ with ultra-high precision. This results in insertion loss and reflectance performance that meets the MIL-DTL-83526/20 & /21 specification and can





exceed the specification for customer specific applications for expanded beam connectors.

### Why use Cinch's Expanded Beam

#### Technology:

- Very short lead-times
- Easy to use
- Extremely durable
- Standard assembly tooling
- COTS ferrules & termination tooling
- Field repairable
- Reduced training, maintenance and total ownership cost

#### Features

- Contact based technologies to suit various connector form factors
- Patented active alignment production process
- Provides superior performance in harsh environments
- Full range of Fibreco expanded beam connectors
- Supports multimode or single mode cable
- 1 to 16 optical channels
- Fiber optic / copper hybrid assemblies
- Custom lengths; high quality military tactical cable
- Wide range of deployable cable reels

## MIL-C-26500 – Cylindrical Connectors: Omega

The C48 Series is a family of connectors qualified to MIL-C-26500. While maintaining the MIL-C-26500 mating interface, this product has also been expanded to include qualifications to numerous Boeing specifications to satisfy general purpose requirements and unique product challenges for shielding, environmental sealing, fluid resistance, and vibration.

#### Features

- Qualified to MIL-C-26500
- Styles qualified to Boeing BACC45 Series
- Styles qualified to Boeing BACC63 Series
- Power Contact Sizes: 20, 16, and 12
- Coax Contacts Available: Size 12 and 8
- Contacts: Crimp – Front release
- Optional Fixed Contacts: PC Termination
- Coupling Styles: Bayonet and Threaded
- Environmentally Sealed



## Fuel Quantity Indicating Systems (FQIS)

Cinch is the original equipment manufacturer of high performance wire harness assemblies qualified for the critical application of aircraft Fuel Quantity Indicating Systems (FQIS).

#### Specialized Applications:

- In-tank qualified harnesses feature aluminum shell hermetic receptacles
- Shielded and grounded out-tank harnesses and bussing plugs
- Custom designed products with high reliability configurations in harsh environments

#### FQIS Harness Features and Benefits:

- Gas tight crimp and solder termination to enhance electrical conductivity and prevent corrosion
- Superior insulation for increased durability and environmental protection
- Lightweight hermetically sealed spar connectors
- Cinch feed through connectors reduce replacement and repair downtime
- Modular harness design increases ease of installation

#### Certified Quality Management System

- ISO9001
- AS9100
- Certificate of Compliance
- Airworthiness Approval Tag (FAA Form 8130-3)
- BQMS D6-82479 Approved

## CIN::APSE Compression Technology

It takes more than an ordinary connector to support advanced performance interconnect applications. It takes CIN::APSE, a proven solderless compression connector technology that offers exceptional mechanical and electrical performance at signals well above 20 GHz.

If you have an interconnect challenge, and need to overcome the restrictions of ordinary connector devices, CIN::APSE can provide the versatile and reliable interconnect solution you need.

## Innovative Compression-Mount Technology

CIN::APSE is a unique, compression interconnect technology which provides superior mechanical and electrical performance. The contact construction consists of randomly wound gold plated molybdenum wire, formed into a cylindrical shape (Figure 1). Standard contact diameters are 0.020" (0.508 mm) and 0.040" (1.016 mm).

The basic CIN::APSE contact configuration consists of a contact installed into a customized plastic insulator with the patented Cinch hourglass hole design. Once in place, the contact extends on both sides of the insulator.



## Quick, Solderless Installation

CIN::APSE is easily installed in two basic steps, without soldering. First, using alignment features, the CIN::APSE interconnect is positioned between two components with matching connection footprints. Next, the two components are compressed and fastened together. It's as simple as that.

## Low Compression Force, Low Contact Resistance

The CIN::APSE contact offers one of the best force/deflection ratios in the industry. An average compression force of only 2.5 ounces will yield a typical contact resistance of less than 20 mOhms. This means high I/O count applications can achieve excellent electrical performance with only minimal compression force.

\*Test results are pass/fail criteria, not limitations of the technology.

### Features

- Solderless RoHS compatible
- High density/low profile

- Multi-point contact/mechanical wipe
- Minimum contact spacing of 1.0mm (.039)
- Low profile height of .8mm (.032)
- High frequency capability up to 50 GHz and beyond
- Short signal path allows for minimal FEXT/NEXT
- Custom Configurations

## Microminiature-D Connectors: Dura-Con

The Cinch Microminiature Dura-Con line of connectors qualified (QPL) to MIL-DTL-83513 is one of the most widely used .050 inch (1.27mm) pitch connectors for military and high-end commercial applications. Dura-Con is ideal where packaging requires a small size and low weight, as well as a highly reliable and rugged connector that has electrical and mechanical integrity under extreme vibration and shock conditions. The heart of the Dura-Con System is the unique wire form pin that provides seven points of contact when mated to the socket. Applications include



electronics in missiles, aircraft, launch vehicles, satellites and computers.

Dura-Con connectors are available as all plastic in 9, 15, 21, 25, 31, 37 and 51 positions and metal shell versions in 9, 15, 21, 25, 31, 37, 51 and 100 positions. In addition, Cinch also offers Metal Shell Micro Edge Dura-Con Connectors in 128 and 184 positions, strip connectors up to 60 positions and connector savers. Termination can be solder cup, wired leads or PC mount.

As well as Standard Parts, Cinch provides a wide variety of specials and wired harnesses to industry. Please contact us with your custom or harness needs.

### Features

- Meets and exceeds requirements for Mil-DTL-83513, available in all standard shell sizes and configurations.
- Available as part of harness assemblies manufactured by Cinch. Highly customizable to meet any application requirement.
- Hermetics available that meet 1X10-8 at half the cost and time of traditional hermetic solutions.



## Military Cable Assemblies

**wCinch has capability to design and produce military systems cable assemblies.**

- Designed to operate in harsh environmental conditions when subjected to high vibrations, shock and temperature extremes
- Available in simple point-to-point to more complex harnesses with multiple branches as well as flex circuitry
- Over 25 years experience in designing custom micro harnesses

# IMASS™: Integrated Multiplex Assay and Sampling System

Fast bioidentification

- + Simultaneous identification of up to 8 biowarfare agents
- + Visual results in 15 minutes
- + Ergonomic, user-friendly design
- + Direct sampling



BBI Detection specialises in the development and supply of innovative technologies for rapid sampling and detection of biothreats and explosives for the global military, first responder and security markets.

➤ Contact us to obtain a demonstration IMASS™ device



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# SPECIALISTS IN ARMOUR MOBILITY

TSS International BV specialises in keeping special purpose vehicles moving. Often, these vehicles are armoured conversions of commercial vehicles. These include SUV's such as the Toyota LandCruiser, Nissan Patrol, Mercedes G-class, VW Touareg and Chevrolet Suburban. Limousines served include the Mercedes S-class, Audi A8, BMW 7-series, Hyundai Equus, Maybach 62S, Bentley Mulsanne and many more. Besides these passenger

vehicles, TSS also has solutions for various truck applications, such as Riot Control, Military, Off-Road, High Value Transportation (or CIT) and Utilities.

As these vehicles and their passengers often operate in increasingly dangerous areas, their mobility becomes exponentially more important. Therefore, a reliable package of mobility and safety products is crucial.

OEM wheel with Rodgard Runflat installed



Wheel protection, heavy duty brakes, explosion proof and self-sealing fuel tanks, two-way intercoms and bomb-detection are all part of the product line-up which enable uninterrupted mobility under the toughest of circumstances. If the vehicles need to go off-road, TSS can even provide a Central Tyre Inflation System, which allows for optimal tyre pressure in varying road conditions.

As TSS believes in quality, it also regularly tests certain products at the German institute TÜV, well known all over the world for its automotive testing standards and facilities.

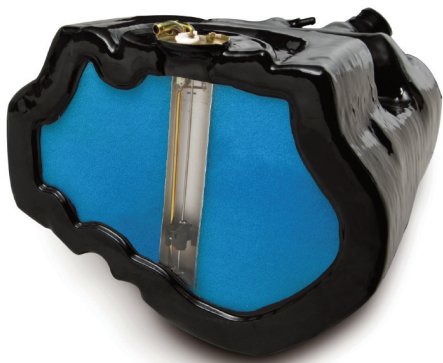
Looking at the developments on the market, and therefore customer requirements, TSS was one of the first to recognise the need for heavy duty wheels. These aftermarket alloy wheels



Armoured Mercedes-Benz S-Class with 20" TSS Heavy Duty Wheel and Rodgard Runflat



*Armoured Nissan Patrol with TSS Heavy Duty Wheels, Rodgard APX Runflats and MOV'IT brakes transporting government officials at IDEX 2015 in Abu Dhabi*



*Cut-out example of TSS ProtecTank® with flame-retardant, explosion suppressant and self-sealing treatment*

are available in 18" and 20" and have a payload of 1800kg and 1600kg, respectively. Working closely together with American runflat manufacturer Rodgard and German brake manufacturer MOV'IT, TSS can offer a complete package of Heavy Duty Wheels (including runflat) and an upgraded brake system, which can safely and reliably handle the extra weight of an armoured vehicle, without the wheels giving the vehicle a conspicuous, aggressive or military look.

tank, TSS can treat the original tank in such a way that it becomes self-sealing, flame retardant and if required, explosion suppressant, while adding only a fraction of the weight of armour.

TSS is proud to be able to work with renowned manufacturers and OEM's world-wide, to make a contribution to the vehicle safety of police forces, armies, NGO's, government officials, Cash in Transit companies, VIP's, aid workers and civilians alike.

Although most products are heavy duty and therefore also often heavy, TSS does have an innovative solution for fuel tank protection, which can save the weight of armoring a fuel tank. Instead of adding a steel casing around the

Curious about the Armour Mobility Essentials? TSS International's team is happy to discuss the possibilities for your requirements.

<http://www.tssh.com>



*Example of product synergy: TSS Heavy Duty Wheel, Rodgard APX Runflat and MOV'IT Security Brake System*



*Armoured Toyota LC200 with TSS Heavy Duty Wheels, Rodgard APX Runflats and MOV'IT brakes in Syria*



# 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.



# Anti-smuggling innovation floated to Defence Secretary



In a week that has seen the human cost of people smuggling in the Mediterranean sink to new tragic depths, the UK Defence Secretary, Michael Fallon, was briefed about the merits of a British company's boat stopping system which can quickly stop boats used in human trafficking without harming the boat or its passengers.

## Boat Stopping Systems



During a visit to Cardiff, the UK's Secretary of State for Defence, Michael Fallon, met with Andrew Howell, the Managing Director of UK-based maritime security and safety specialists, BCB International Ltd, who have developed a new range of life-saving boat stopping systems which use compressed air and interchangeable barrels to project floating entanglement lines and other vessel disabling projectiles.

Following the meeting BCB Boss, Andrew Howell, said: "No one wants a repeat of the recent tragic events in the South Mediterranean. These tragedies have shone a light on the inadequacy of methods currently used to stop non-compliant boats, which usually consists of either ramming a boat or shooting at the engines. Both of these options present grave and unacceptable dangers to the lives of desperate passengers crammed into overcrowded boats."

BCB's boat stopping systems were inspired by the police road stingers used to stop speeding and runaway cars. Some of the boat stopping

systems have been purchased by maritime law enforcement agencies in the United States and in South East Asia.

Mr. Howell went on to explain the merits of including the Boat Stopping Systems in the mix of technologies used by authorities to clamp down on people smuggling: "Our versatile boat stopping systems will stop large and small vessels. They are non-lethal, safe and can be deployed quickly. They could be used by merchant ships or Local navies close to the North African Coast to stop human trafficking at source; thereby preventing the unnecessary loss of life linked with the growing number of attempted perilous sea journeys in the Mediterranean".







# CBRNe SUMMIT

## Asia and Europe

*2nd – 4th December 2015 – Hilton Singapore Hotel – Singapore  
2nd – 4th March 2016 – Hyatt Regency Hotel – Paris, France*

With the threat of infectious diseases and CBRNe attacks becoming more prominent across the globe, we are pleased to announce that we will be hosting our CBRNe Summit conference & exhibition in Singapore on the 2-4 December 2015 and in Paris on the 2-4 March 2016. These events will allow you to meet with leading CBRNe officials from civil and military agencies from the regions at one place.

## INTELLIGENCE-SEC

### Book your place today!

*Sponsorship Opportunities available for both our CBRNe Summits  
Book onto both events and receive a discount off both our Asian and European events*

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**AVON**  
PROTECTION

protected by **emergent**  
biosolutions™

**Tracerco**

**PROGENIN**  
Chemical and biological decontamination systems

# Bobcat's structural analysis gets its machines purring

Construction equipment expert reduces human vibration with whole-vehicle analysis system

Global construction equipment specialist Bobcat has reduced the effects of vibration on operators of tracked vehicles, with a complete structural analysis system for assessing and improving its vehicle design.

Bobcat is a leading provider of compact equipment for many industries, including construction, agriculture, government and mining. In recent years, the company's compact track loader has become increasingly popular, but posed a unique challenge to user comfort due to vibration from the metal tracks it runs on.

To improve operator comfort, Bobcat's engineers approached Brüel & Kjær to improve their understanding of vibration by assessing its causes and transmission.



Brüel & Kjær worked with its strategic consulting partner, Sound Answers, to create a system for Bobcat to assess the structure of an entire vehicle and use the results to improve the design of its machines.

The system consists of a 40-channel data acquisition and analysis system, accelerometers, and PULSE Reflex™ post-processing software. The team also trained Bobcat's engineers, while demonstrating the system in use on a test vehicle, in a project to characterize a T630 compact track loader.

Bobcat engineer, Patrick Stahl said: "Being

able to test an entire machine has been helpful to determine the critical components. Just reviewing the mode shapes was useful."

Patrick continues: "This project gave us the beginning that we needed, providing the spark that began the investigations we are now continuing on our own."

The full case study is available to read on Brüel & Kjær's website: [www.bksv.com](http://www.bksv.com)

**Brüel & Kjær**   
BEYOND MEASURE

# The New YH1485 OCXO



## Ultra-low Phase Noise Reference for Mission Critical Apps.

Greenray Industries' new YH1485 OCXO is designed for use as a reference for **radar, instrumentation, and military** applications that require **very low phase noise** in order to optimize system sensitivity.

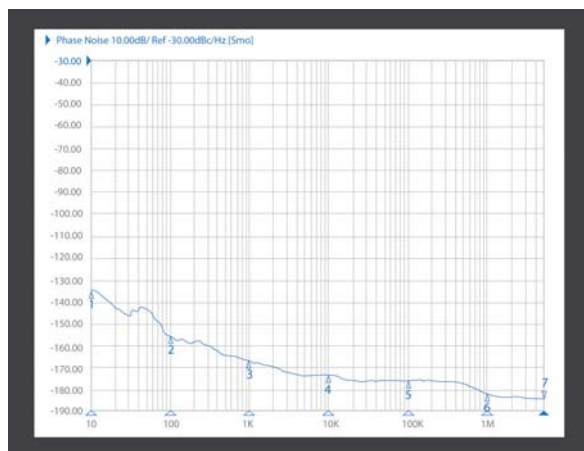
The ultra-low phase noise YH1485 delivers **phase noise performance below -175 dBc/Hz** and **excellent short and long term stability** for reference requirements.

The YH1485 features a 1" square hermetic package and supply voltage of +15V or +12V. Optional **reduced acceleration sensitivity** – down to  $3 \times 10^{-10}/g$  in the worst axis – is also available to satisfy high shock or vibration environments and improve performance.

For more information about our full line of high performance oscillators, call Greenray at +1 717-766-0223. You can also visit us at [www.greenrayindustries.com](http://www.greenrayindustries.com).



### See for Yourself:



YH1485 Phase Noise @ 10MHz



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# Profits surge as innovative product development continues



Hesco has emerged from 2014 in a stronger position, reporting a healthy increase in turnover from £20million to over £25million for 2015.

Last year Hesco began investing in new product innovation and the success of this proactive innovative action is highlighted in these financial results and reflected in the expansion of the Group's activities into new markets.

Hesco Armor, Inc. has been hugely successful in securing new business in its first year; the acquisition of the ballistic resistant body armor company took place 2014 and Hesco Armor, Inc. have secured a share of a \$49.5M indefinite delivery /

indefinite quantity (IDIQ) body armor contract to supply the next generation of Small Arms Protective Inserts (SAPI) to the US Army.

Michael Hughes, CEO said;

"This activity is just one area where we are fulfilling our commitment to expand into new markets. Our Financial Statements reveal an increase in turnover, which shows a promising sign that our strategy of investment and diversification is working. We remained committed to building upon our strong reputation as the market leader in our niche sector and building on the success of our new products in the ballistic armor and flood protection arena."

Other significant new product innovations that are contributing to Hesco's growth include a new flood product called JACKBOX™ and FRONTLINE™ a range of perimeter security products. JACKBOX is a lightweight, non-metallic and recyclable flood barrier. Each JACKBOX unit is light, self-supporting and can be recycled. FRONTLINE is a series of ground-mounted, hostile vehicle mitigation security fences engineered to provide a rapidly deployable high-level security fence.

Rigorous testing for the JACKBOX was undertaken both in the United States and at a 300 metre; international white-water rafting course in Teeside, originally built to train 2012 Olympians, re-configured with eddies and slaloms. With the ability to simulate and control the force of flash flooding, the facilities were closed off from public use as Hesco deployed barriers to build dams and obstacles to test the product against the extreme. The product is now being successfully deployed to assist with flood protection.

Hesco continue to work in flood protection projects across the world and continue to work with leading security and peacekeeping organisations, provided protection of people and assets whenever and wherever it is needed.



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- Supports both laser designator and shortwave IR (SWIR) imagers to meet evolving threats
- Offers 360° scanning capability independent of the gun turret axis
- Interfaces to a dual-channel gun resolver

To learn more, visit [WESCAM.com](http://WESCAM.com).

# L-3 WESCAM and ADASI Partner to Open an Authorized Service Center in the United Arab Emirates

BURLINGTON, Ontario, Canada, November 10, 2015 – L-3 WESCAM announced today that it has signed an agreement with Abu Dhabi Autonomous Systems Investments Company (ADASI), a subsidiary of Emirates Defence Industries Company (EDIC), to open an L-3 WESCAM Authorized Service Center (WASC) in Abu Dhabi, United Arab Emirates (UAE). The new service center will offer maintenance and repair solutions to regional customers who operate L-3 MX™-10 or MX™-15 electro-optical and infrared (EO/IR) imaging and targeting systems.

The Dubai Airshow marks the beginning of operations in Abu Dhabi for this latest WASC. Rod Till, vice president of customer service at L-3 WESCAM, and Ali Al Yafei, chief executive officer of ADASI, were part of a signing ceremony that took place at the show's EDIC pavilion earlier today.

“We are very proud to welcome ADASI as a partner in expanding our growing worldwide network of service centers,” said Mr. Till. “Our customer base within the Middle East has grown significantly over the past few years, and offering the convenience of a local support center further underscores the commitment we’ve made to servicing the mission systems of our regional customers.”

ADASI offers clients a comprehensive range of services to cover all types of autonomous systems. ADASI offers holistic solutions, starting with joint analysis of end-users’ needs, through formalization of their requirements, to equipment selection and procurement.

“ADASI is very proud to have partnered with L-3 WESCAM to create a WASC in Abu Dhabi,” said Mr. Al Yafei. “The service center provides a greater in-service support presence throughout the Middle East as it is a key maintenance hub for customers in the area, which further expands the scope of services and capabilities that ADASI is able to offer.”

The addition of the new Abu Dhabi-based WASC brings the number of L-3 WESCAM’s global facilities to 14, with other strategic locations in Jordan, the United Kingdom, Australia, Japan, Italy, France, Spain, Germany, Ecuador, the United States and Canada.

## About ADASI

ADASI offers product or system design, development, testing and commissioning of localized subsystems and systems, and other engineering solutions, as well as training of customer teams, operational

support and systems maintenance. ADASI’s scope of activity includes the acquisition, operation and maintenance of autonomous systems for air, land and sea use, as well as their modification and systems integration, including the addition of alternative payloads.

For more information, please visit ADASI’s website at [www.adasi.ae](http://www.adasi.ae).

## About L-3 WESCAM

L-3 WESCAM is a world leader in the design and manufacture of stabilized, multi-spectral imaging systems. To learn more about L-3 WESCAM, please visit the company’s website at [www.wescam.com](http://www.wescam.com).

## About L-3

Headquartered in New York City, L-3 employs approximately 45,000 people worldwide and is a prime contractor in aerospace systems and national security solutions. L-3 is also a leading provider of a broad range of communication and electronic systems and products used on military and commercial platforms. The company reported 2014 sales of \$12.1 billion. To learn more about L-3, please visit the company’s website at [www.L-3com.com](http://www.L-3com.com).

Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995 Except for historical information contained herein, the matters set forth in this news release are forward-looking statements. Statements that are predictive in nature, that depend upon or refer to events or conditions or that include words such as “expects,” “anticipates,” “intends,” “plans,” “believes,” “estimates,” “will,” “could” and similar expressions are forward-looking statements.

The forward-looking statements set forth above involve a number of risks and uncertainties that could cause actual results to differ materially from any such statement, including the risks and uncertainties discussed in the company’s Safe Harbor Compliance Statement for Forward-Looking Statements included in the company’s recent filings, including Forms 10-K and 10-Q, with the Securities and Exchange Commission. The forward-looking statements speak only as of the date made, and the company undertakes no obligation to update these forward-looking statements.



**MX™-15**

**MX™-10**



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# L-3 WESCAM Launches Its MX-GCS Independent Stabilized Sighting System at AUSA 2015

L-3 WESCAM announced today the launch of its MX™ -GCS electro-optical/infrared (EO/IR) independent stabilized sighting system for land combat vehicles. The MX-GCS is a highly versatile above-armor gunner or commander sight that provides on-the-move target identification, tracking and firing capabilities. The MX-GCS will be on display in L-3's exhibit in Booth 6828 (Hall D) at the 2015 AUSA Annual Meeting & Exposition to be held October 12–14.

## MX-GCS Independent Stabilized Sighting System

“Our MX-GCS supports state-of-the-art imaging and laser technologies that directly improve the lethality and survivability of combat vehicles and their operators,” said Paul Jennison, vice president of government sales and business development for L-3 WESCAM. “As a gunner sight, the MX-GCS’s range performance exceeds that of the gun, and as a commander sight, the system allows the vehicle commander to maintain full 360-degree situational awareness and perform target acquisition for the gunner.” The MX-GCS can be scaled through a modular payload approach that suits varying platform requirements and program budgets. Configured with a selection of high-performing sensors for optimal visibility during day and nighttime missions, the MX-GCS includes a midwave

largeformat IR imager, a high-definition daylight color TV and an eyesafe laser rangefinder. In addition, the MX-GCS can support both laser designator and shortwave IR (SWIR) imagers to meet evolving threats.

Together with its long-range on-the-move sighting and firing capacity, the system offers 360-degree scanning capability independent of the gun turret axis. The MX-GCS interfaces to a dual-channel gun resolver and is qualified to U.S. military standards for environmental and electromagnetic compliance.

design and manufacture of stabilized, multi-spectral imaging systems. To learn more about L-3 WESCAM, please visit the company’s website at [www.wescam.com](http://www.wescam.com). Headquartered in New York City, L-3 employs approximately 45,000 people worldwide and is a prime contractor in aerospace systems and national security solutions. L-3 is also a leading provider of a broad range of communication and electronic systems and products used on military and commercial platforms. The company reported 2014 sales of \$12.1 billion.

To learn more about L-3, please visit the company’s website at [www.L-3com.com](http://www.L-3com.com).

L-3 WESCAM is a world leader in the

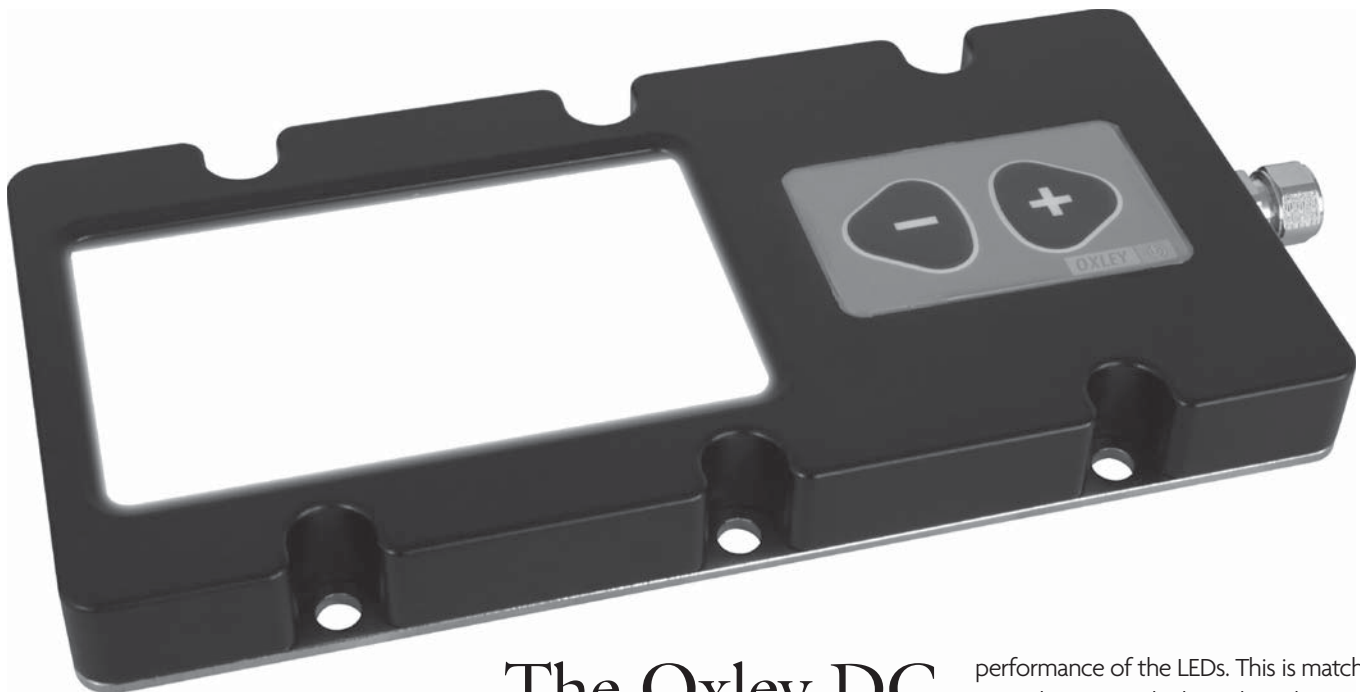






Tornado Pro

# Australian DOD chooses Oxley LED Lighting for Army Project Land 121 Command Modules



## The Oxley DC Combi Series 1

Following negotiations with Oxley Group's Australian distributor Defcon Technologies Group, the Australian Department of Defence has chosen the Oxley DC Combi LED internal lighting unit to equip the Land 121 Project's Command Modules.

Part of the Mercedes-Benz 'G' Wagon acquisition, these will contribute to Project Land 121 (Overlander), which is a multi-phase program to deliver around 7,000 vehicles to the Australian Army.

The unique low-profile design of the DC Combi LED light provides critical advantages within the confines of the command module, while delivering white light plus an integrated blackout mode.

The G-Wagon built by Mercedes Benz in Austria has a modular payload system which is built locally in Australia, including Command Post and Ambulance variants.

DC Combi lights incorporate class-leading EMC characteristics - a key factor in choosing the units to equip modules containing powerful electronic equipment. The light has advanced Electromagnetic Compatibility (EMC) which prevents interference with other on-board equipment.

Excellent light quality from the 32 white LEDs and 16 tactical mode LEDs together with the build standard of the driver board electronics provide true long life and consistency in

performance of the LEDs. This is matched with rugged casing which makes the Oxley DC Combi a 'fit and forget' option that outperforms any other comparable product. The extended working life - typically 50,000 hours - dramatically reduces replacement, maintenance, disposal and labour costs compared to existing lighting technology.

The DC Combi Series 1 light is qualified to EMC standard DEF-STAN 59-411 Land Class A and to Input Voltage standard DEF-STAN 61-5 PART 5. The rugged, lightweight and versatile DC Combi was designed specifically for use in military vehicles and is also compatible for military field shelters, temporary work spaces and naval and marine area lighting.

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# PEI-Genesis Announces AS9100C:2009 Certification for Southampton, UK Facility

## Global Leader in Precision Connectors and Cable Assemblies Continues to Strengthen its Commitment to Aerospace Industry

Philadelphia, PA (Oct. 21, 2015) PEI-Genesis, Inc., one of the world's fastest assemblers of precision connectors and cable assemblies, has achieved AS9100C:2009 certification for its Southampton, UK facility. Certification follows a two year investment in preparation and audit processes. The UK facility now joins the corporate headquarters in Philadelphia, PA and the South Bend, IN, USA, site in reaching this level of certification.

AS9100C:2009 is a rigorous quality management standard within the aerospace industry. It includes all of the requirements of ISO 9001:2008 as well as additional measures including documented systems for controlling the processes used to develop, manufacture and sell product.

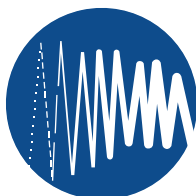
"This expanded AS9100C:2009 certification to our UK operation demonstrates our ongoing commitment to being a world-class supplier to the aerospace industry," said Russ Dorwart, President & COO, PEI-Genesis. "This demanding endeavor forced us to reevaluate every process we use to develop, manufacture, and support our products and customers. As a result, we have expanded our excellent quality process to a truly world-class, global level and we take great pride in our team that helped us accomplish this goal."

"PEI-Genesis is a company that continually makes measurable improvements," says Tony Houghton, European Operations Director, PEI-Genesis. "Our customers in the aerospace industry demand flawless quality and we take our responsibility to serve them seriously. We are dedicated to

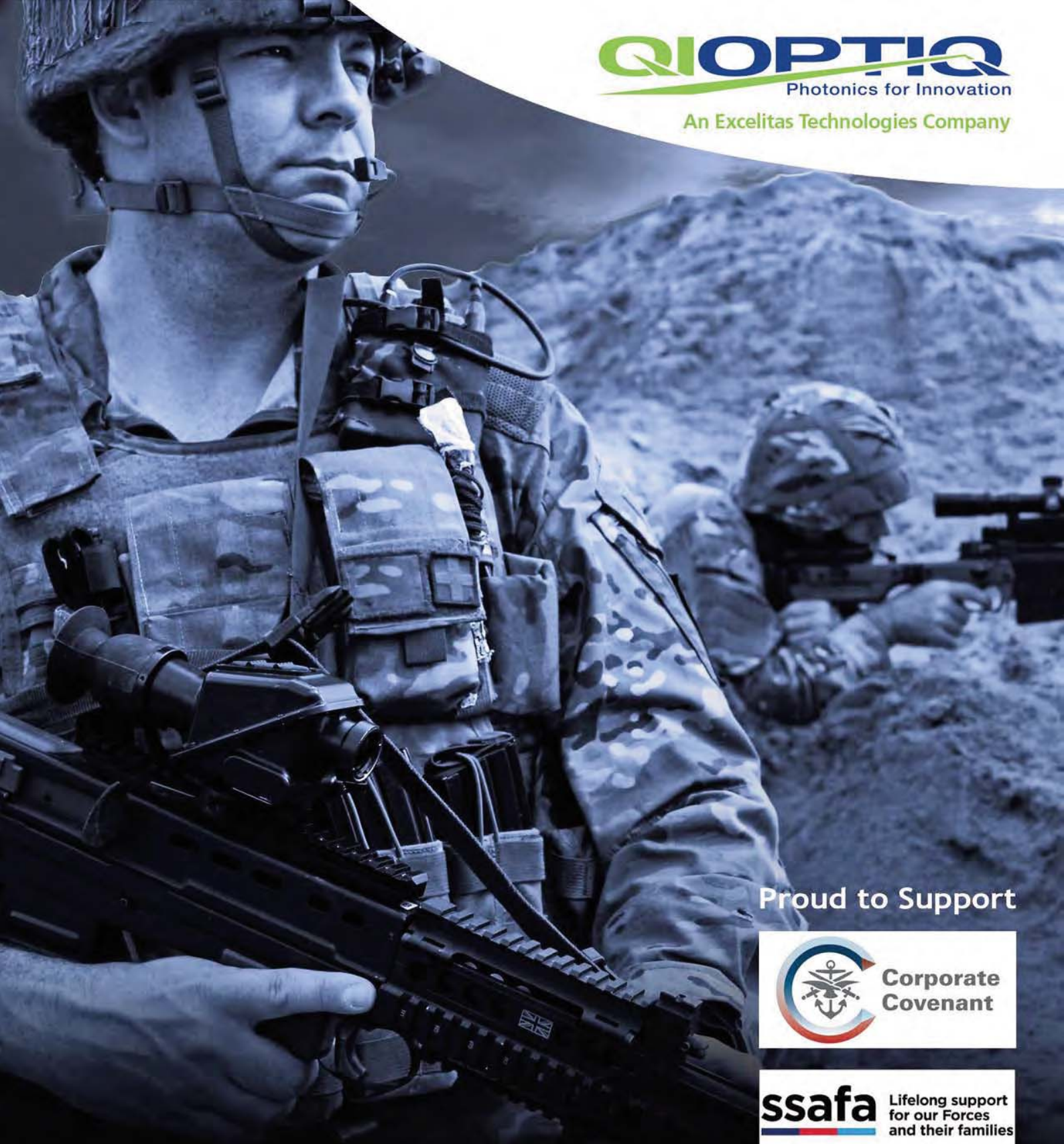
continuing to exceed our customer's expectations with the fastest delivery and the highest standards of quality."

## About PEI-GENESIS

PEI-Genesis is one of the world's fastest assemblers of precision connectors and cable assemblies. From one of the largest inventories of electronic components in the world, they develop engineered solutions that support the military, industrial, medical, aerospace, transportation and energy sectors worldwide. Headquartered in Philadelphia, PA, PEI-Genesis has production facilities in South Bend, IN; Southampton, UK; and Zhuhai, China as well as sales offices throughout the Americas, Europe and Asia. More information may be found at [www.peigenesis.com](http://www.peigenesis.com).



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# PEI-Genesis is Now a Value-Add Assembler of Amphenol LTD's Rhino Series Connector

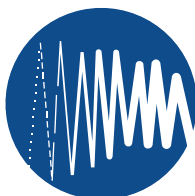
Philadelphia, PA (10/21/2015). Amphenol Rhino Series single pole high power connectors are now available from PEI-Genesis, Inc., one of the world's fastest assemblers of precision connectors.

These connectors combine the benefits of field proven MIL-DTL-38999 Series III circular connectors with low resistance hyperbolic RADSOK® contacts, extending the boundaries of high power connector technology.

Rhino 38999 connectors satisfy market requirements for high power & voltage applications in harsh environments. With IP69K sealing, an anti-decoupling ratchet mechanism, superior EMC performance and RoHS compliant Black Zinc Nickel plating – Rhino 38999 connectors ensure a reliable connection even under high vibration.

Designed to meet the latest military and industrial specifications, Rhino 38999 connectors also meet stringent safety requirements. This makes the Rhino series perfect for applications including vehicular, aerospace, industrial automation, mining, offshore, mass transit, communications and other harsh environments.

PEI-Genesis assembles and ships the Rhino series globally in 48 hours with no minimum order quantity. More information on the Rhino series can be found at [www.peigenesis.com](http://www.peigenesis.com)



## PEI-Genesis

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TECHNOLOGIES, OUR MISSION IS  
EXPANDING YOUR CAPABILITIES.



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# Peli-Hardigg launches the NEW Min Mac Rack™ Container

## Superior compact mobility and rugged protection for rack mountable equipment

Peli-Hardigg™, the world's largest manufacturer of Military and Aerospace approved reusable plastic shipping and storage containers, announces the New 19" shock mounted Min Mac Rack™ Container, a lightweight solution that offers superior compact mobility for rack mountable



equipment and is designed to meet military standard requirements.

The new Min Mac Rack answers the need of making the most of limited space, while providing rugged protection to the equipment. The lightweight, compact design of the Min Mac Rack™ double-ended cases, offer light to medium duty protection and boast industry leading shock performance.

It's angled precision-engineered elastomeric shock mounts are fine-tuned to match the weight and fragility of your equipment, ensuring maximum shock and vibration isolation. The high-strength, lightweight, heat treated, square holed steel rack frame of the Min Mac Rack provides a range of mounting options for single or multiple fragile equipment, IT and communications, broadcast and video gear, aerospace instruments, servers, flight simulators, electromechanical devices, memory storage devices, command and control equipment, military mission planning tools, mobile operations, ground controllers, among other applications.

Manufactured entirely in Europe, the new Min Mac Rack is designed to meet the requirements of NATO and European military standards.

Available in 10 different models, with frame heights from 4-12U and two depths of 480 and 610mm, it has all the features that rack mountable equipment need for protection.

### Highlights of the Min Mac Rack container:

- High-strength steel rack frame supports equipment from 10-50 kg.

- Peli-Hardigg's patented, wide-design, Comfort Grip Handles™ make lifting easy
- Patented, positive anti-shear interlocks minimise stress on hardware and prevent case lids and bases from separating, even after impact
- Moulded-in, tongue-ingroove gasketed parting lines seal tight and remain so after impacts
- Designed to meet ANSI/EIA-310-C for universal rack mounting hole pattern Inter-stackable design
- Over 12 colours to choose from

The Min Mac Rack offers multiple accessories and options to adapt it to the different needs of customers including custom labels, drawers, shelves fixed and sliding, interlocking plates, padlock hasp, among others.

With the new Min Mac Rack Peli-Hardigg enables sophisticated electronics to be deployed in any environment, and when it comes to transporting and protecting equipment in use, nobody matches Hardigg's experience or dedication.

For more information:

[www.peli.com/en/minmacrack-containers](http://www.peli.com/en/minmacrack-containers)





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- International military updates on current and future Maritime ISR capabilities
- Real Solutions presented and offered within the Maritime Reconnaissance and Surveillance Technology Exhibition

#### HOST NATION KEYNOTE SPEAKERS:

- Rear Admiral Nicola Carlone, Director of Plans and Operations, Italian Coast Guard
- Colonel Sergio Cavuoti, Chief of the Intelligence and Awareness Policy Branch of the Air Staff Aerospace Planning Division, Italian Air Force

#### REGIONAL EXPERT SPEAKERS:

- Rear Admiral (ret.) Nick Lambert, Former UK National Hydrographer, UK Hydrographic Office, Royal Navy
- Rear Admiral Dan Thorell, Head of Response and Law Enforcement, Swedish Coast Guard
- Brigadier General Carlos de Salas, Head of C4ISR & Space Programs, Spanish Ministry of Defence

- Brigadier David Evans, ACOS IS, Information Superiority, Royal Navy
- Captain Durkee, Commander of CTF-67, US Navy Command Europe
- Commander Pasi Staff, Chief of Surveillance, Finnish Navy
- Director Chris Reynolds, Head of the Irish Coast Guard, Irish Coast Guard
- Mr Guy Thomas, Director, C-SIGMA
- Mr Jonathan Locke, Senior Scientist, Centre for Maritime Research and Experimentation, NATO
- Lieutenant Commander Sam Edwards, AIS Sponsors Representative, US Coast Guard

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- Guard Headquarters
- Senior Representative, Italian Navy
- Rear Admiral Enrico Credendino, Commander, EU Naval Force Mediterranean
- Rear Admiral Luis Sousa Pereira, Commandant PRT Navy Marine Corps (Fuzileiros),
- Antti Hartikainen, Director-General, Finnish Customs

- David Skuli, Director, Central Directorate of Border Police, French National Police

- Wilhelmus van Gemert, Deputy Director and Head of Operations Department, Europol

- Ambassador Andrew Tesoriere, Head, EU Border Assistance Mission (EUBAM) to Moldova and Ukraine

- Senior Representative, Guardia Civil
- Julien Coudray, Head of the API-PNR Project, French Customs

- Donato Colucci, Senior Regional IBM Specialist, International Organization for Migration

- Laurens Jolles, Regional Representative for Southern Europe, UNHCR

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