

MILITARY SYSTEMS

T E C H N O L O G Y

AEI SYSTEMS

Weapon systems & military aircraft spares
to customers around the world

BIBBY SCIENTIFIC

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

CRISP & SONS CUTLERS LTD

Military Swords and Refurbishment

GUARTEL TECHNOLOGIES LTD

High quality, professional metal, mine & command
wire detection equipment

HARRINGTON GENERATORS INTERNATIONAL

Defence Power Systems

INNOVATIVE TACTICAL TRAINING SOLUTIONS INC

Developing realistic training tools for the
military & emergency medical domains

MMIC EOD LTD

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

PLUS...

BREAKING
NEWS FROM...

BERTIN TECHNOLOGIES

BRÜEL & KJÆR

DATA DEVICE CORPORATION

IFS APPLICATIONS

PELI-HARDIGG

STEATITE

TELEDYNE

Image Courtesy of Guartel Technologies

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.

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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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WEAPON SYSTEMS & MILITARY AIRCRAFT SPARES TO CUSTOMERS AROUND THE WORLD

Established over 50 years ago, AEI Systems is a UK BSI quality approved Company supplying weapon systems and military aircraft spares to customers around the world.



Aircraft Weapons Systems

Design Excellence

We specialise in the design, manufacture, test and support of a wide range of small to medium calibre military weapon systems for air, sea, land and dismounted soldier applications.

Reputation

Renowned for our aircraft cannon knowledge and expertise, AEI Systems is the Design Authority and 'Original Equipment Manufacturer' to BAE for the ADEN 30mm Gun system as installed in the Hawk advanced trainer aircraft.



Weapon Mount Systems

Through Life Support

Obsolescence management and continual product improvement has given rise to a new 'high rate of fire' revolver cannon. The ASPEN 30, with blast suppression, improved recoil systems and gas regulation catapults this ADEN 30 variant into the 21st century.

Numerous other aircraft weapon types are supported; M39, M134, MO32 and DEFA to name just a few.

Cost Effective Solutions

AEI's manually operated 20mm HS804 naval weapon systems offer cost effective gun solutions, while delivering an impressive punch.

In addition to the reliable AE20-NM naval weapon mount, we now produce belt-fed variants for prolonged target engagements. These mounts are in service around the world and are suitable for vessels of all size from RIB's to Frigates.

Innovative

For military vehicle applications; AEI has developed a lightweight all Aluminium cradle AE20-VM with spring assist yoke for the HS804 belt-feed weapon system. Mounting is adaptable to suit individual slewing ring or pedestal interfaces, with an in-house designed flexi-chute feed linked to the vehicle ammunition tank location.

New Markets

For the dismounted soldier; AEI is in the process of design and manufacture of a complete range of 7.62 millimetre bolt action and 12.7 millimetre semi-automatic tactical weapons. A 20 by 110 millimetre variant will be available within 12 months with a 30 x 113 millimetre variant will follow shortly after. These weapons bring new and innovative features to the market and are designed and built to military aircraft standards of quality and precision.

Barrel Production

Expand in Capabilities

AEI has expanded its manufacturing capability to include in-house barrel manufacture up to a maximum of 105mm, both constant and progressive pitch. This gives us the flexibility to rapidly develop weapon variants of our existing designs to fire the 20 by 102 and 25 by 137 millimetre rounds for naval and land vehicle applications in response to customer demands.

AEI Systems; Quality, Precision and Innovation

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



MILITARY SWORDS AND REFURBISHMENT

At Crisp and Sons we are renowned for our craftsmanship and expertise in the refurbishment of all military ceremonial swords including those used in state ceremonies and by the Guards of Honour & Palace Guards.

We are the UK's only specialist Military sword manufacturer, Sword refurbishment provider and supplier of British ceremonial Swords and Sword Accoutrements.

Crisp & Sons have a proud tradition of "Quality First and Foremost" and are firmly

committed to preserving British craft and manufacture.

Infantry Officers Sword

Individually made and crafted to order. The 1897 pattern was the final revision of a sword described as "the best fighting sword ever prescribed for the Infantry officer".

The sword features a 32.5" long, straight, spear pointed carbon steel blade. The hilt is nickel plated steel, pieced and stamped with a scroll pattern that incorporates the Royal cypher. The wooden core grip is black dyed fish skin covered with silver plated copper wire.

The Infantry Officers Sword can be carried with either a Nickel dress scabbard or a leather 'Sam Browne' scabbard first introduced for universal use in 1899 on the eve of the South African War.

Royal Artillery Officers Sword

Individually made and crafted to order.

The Artillery Officers sword is based on the 1822 Light Cavalry pattern.

Featuring a 35.5" long slightly curved and spear pointed carbon steel blade. The hilt is nickel plated steel featuring a fluted three bar, half basket. The wooden core grip is black dyed fish skin covered with silver plated copper wire.

The Artillery Officers Sword can be carried with either a Nickel dress scabbard or a leather scabbard available with either 'Sam Browne' fitting or with rings.

Royal Navy Officers Sword

The 1827 pattern Royal Navy sword and finally revised in 1929 with a lighter straight Blade. Carried by today by RN commissioned officers and has also been adopted by other countries including Canada, Australia and New Zealand.

The sword features a single-edged straight carbon steel blade. The hilt is stamped in brass with a fouled anchor and crown, the brass pommel is in the form of a lion and both are 22ct gold plated. The white fish skin grip is bound in gold plated wire.



The scabbard is made of rawhide with 22ct gold plated mounts. Officers of Flag Rank and above carry a more ornate version featuring finely engraved mounts.

Royal Airforce Officers Sword

Designed by Wilkinson sword and adopted by the Air Ministry in 1925. The sword has a single-edged straight carbon steel blade. The hilt is stamped in brass with a cartouche bearing the emblem of the RAF, the brass pommel is in the form of an eagle and both are 22ct gold plated. The white fish skin grip is bound in gold plated wire. The scabbard is made of rawhide with 22ct gold plated mounts. Officers of Air Rank and above carry a more ornate version featuring finely engraved mounts.



Military Sword Refurbishment

At Crisp and Sons we source pieces of quality and character. Our craftsmen then sympathetically refurbish them to their former glory to parade ground specification, a sword that looks every bit as good as the day it was first produced. The result is not only an original piece but one which bears the quality, history and provenance of many of the great names of sword making.

Sword refurbishment offers customers the opportunity to reset the passage of time and have their sword restored to its former glory. We offer a complete in house sword refurbishment process utilising traditional techniques and methods dating back nearly 200 years.

Crisp and Sons are specialists in the refurbishment of British Military Swords and are firmly committed to ensuring the continued service, longevity and provenance of all the quality swords still used in ceremonies and parades today.





Guartel
Technologies Ltd

HIGH QUALITY, PROFESSIONAL METAL, MINE & COMMAND WIRE DETECTION EQUIPMENT



Guartel Technologies Ltd is an established company which has built its' reputation on the design, development and manufacture of high quality, professional metal, mine and command wire detection equipment, for use in Counter IED, EOD, WIT & Search operations. Guartel conducts a continuous programme of R&D to meet current and emerging threats. The company is ISO 9001:2008 registered and is security cleared by UK MoD.

Key Counter IED and Search Products

Buried/Underground Cable Detectors - WD100

The WD100, buried/underground Cable Detector is the only commercially available detector specifically designed to detect surface laid and buried command wires used to initiate Command Wire Improvised Explosive Devices (CWIED).

Military Metal Detecting Probes - MD4

The military metal detecting probe MD4 is used by many NATO countries, it is rugged and simple to use. The detection capabilities allow the operator to locate small targets and to gauge the depth and size of objects such as victim operated switches. MD4 is self calibrating with operator zeroing function.

Military Mine and Metal Detectors - MD8+

Ergonomic, simple to use high sensitivity military metal/mine detector, the MD8+ employs the latest digital technology and high speed pulse induction which allow the detection of the smallest metallic targets.

Rugged Hand Held Metal Detectors - HD7

The rugged hand held metal detector HD7, is simple to use and is weather resistant and can be utilized indoors or out doors. HD7 can be used for person search, personal area search and target confirmation. Alarm modes: silent vibrate, audio, visual/audio.

New Products – MD3000 Multi Role Metal Detection Kit, designed for use by police search teams and other investigative agencies, the MD3000 is a state of the art easy to use detector. The MD3000 has two inter-changeable search heads, a halo for general area search and a probe for use in undergrowth and narrow cavities.

Command Wire Detector - WD10

WD10 is a high performance passive command wire detector for use by CIED Search teams and IEDD operators. The detector is easy to use, having simple controls for power and pin-pointing a target.





Harrington Generators
International

DEFENCE POWER SYSTEMS

At the heart of many defence systems is power. Without it command and control computers would not function, radars would not operate, satellite communications would remain silent, systems using re-chargeable batteries would degrade to become just extra weight – modern technology demands power.

Leading Military Generator Supplier

Harrington Generators International, or HGI, is one of the leading providers of military specification integrated power solutions which use conventional fuels or green alternatives.

HGI has over 30 years experience of designing, developing and producing high quality power solutions which deliver what you want where you want it no matter how challenging. We are committed to providing professional and economic solutions tailored to your power requirements whatever they may be or wherever they may be needed.



This experience means that HGI can provide you with the right solution, the power solution which provides maximum efficiency and cost effectiveness for the task. The solution could be a one-off or a bespoke fleet. By combining our unparalleled design, project management and world class manufacturing skills HGI can meet or exceed target deadlines and provide long term reliability for every project.

Military Generators

HGI is a leading military generator supplier to the UK's Ministry of Defence and defence forces around the world, and the largest UK power solutions provider in the military field.

EMC Protection

Whether you need full EMC protection or Defence Standards quality, HGI has the experience and capability to meet your requirements.

Light Field Generator

Our integrated power solutions include standalone and portable equipment, fully integrated systems and specialist bespoke solutions. In all cases this equipment can have full EMC capability to the relevant DefStans and operate using a variety of fuels providing power from 2kW upwards as a DC or AC output or both.



Standalone Military Generators

The standalone solutions range from the ubiquitous Light Field Generator seen in many parts of the British Forces powering communications and C4I systems, perimeter security solutions, lighting and temporary infrastructure; to trailer mounted solutions for air defence, satellite communications, command and control systems and field hospitals. HGI has a history of designing and producing bespoke solutions for a wide variety of applications, it can also take the full range of standalone products and adapt them for specific situations.

The standalone systems which rely on HGI power solutions include the ASTOR airborne stand-off radar where our



generator powers the ground control station; CORMORANT the mobile strategic communications system; the export variant of the Rapier Air Defence System which uses a towed generator; and the Power Pack Repair Facility (PPRF) for Challenger 2. All of these are fully militarised solutions and able to operate in extremes of temperature and in high and dusty conditions.

Integrated Military Generators

The fully integrated product range is designed to be a fundamental part of the whole solution such as the Reacher satellite communications ground terminal. Other fully integrated systems supplied are the power solutions for the SAAB Giraffe air defence radar and the Arthur weapon locating system where HGI has designed a solution which is integral but can easily slide out for maintenance whilst still

ensuring compliance with shock, vibration, acoustic and EMC specifications.

Bespoke Power Solutions

Our bespoke systems cover a wide range of power solutions from COTS through to combining energy alternatives such as wind or solar working together as an integrated solution able to be deployed wherever required but without the need for significant amounts of fuel.

Through life support

HGI is dedicated to providing through life support to ensure that your power solutions keep running to maximum efficiency and effectiveness wherever you maybe in the world. This includes providing engineers under CONDO conditions and full refurbishment in our factory at Wirksworth in the Derbyshire Dales.





DEVELOPING REALISTIC TRAINING TOOLS FOR THE MILITARY & EMERGENCY MEDICAL DOMAINS.

Innovative Tactical Training Solutions (ITTS) was founded in 2008 with a mission to develop and produce realistic training tools that would provide the realism demanded by the military and emergency medical domains. ITTS specializes in the design and development of effective, live constructive simulation tools that work together as a system, and allow the end user to focus on their Tactics, Techniques, and Procedures.

In addition to realism, ITTS knows that true training tools are a complement to training exercises, not pieces that demand time and attention. Training sessions are effective, both in cost and in educational value, when they can be repeated with minimal interruption – they must serve the greatest number for the greatest amount of time. Training sessions are effective when they are seamless, and can be repeated on demand. The ITTS product design reflects

not only an understanding of reality based training, but also reality based training tools.

ITTS is committed to simulated product development that revolves around durability and simplicity, and enhances the training opportunity. The primary consideration is to create products with such attention to detail that they add unparalleled realism in creating the combat training environment. ITTS focuses on creating simulations that provide actual stress in a training environment while leveraging technology to integrate our various simulation tools to create a comprehensive training experience. The benefactors of ITTS products are both the giver and receiver of intense, constructive simulation training.

Combat Casualty Simulation

Among the ITTS product suite, the two most representative of this mission has been the TOMManikin® and an array of reusable helo cabin simulator structures built for providing realism to combat medical training without heavy demand on personnel (the HH-60 CASEVAC, CV22 CASEVAC, and Little Bird).

Created in collaboration with Techline Technologies, Inc., the TOMManikin (Medical Manikin) provides the ability to enhance Tactical Combat Casualty Care (TCCC) from Point of





Injury to transfer of higher care. This all-in-one system allows you to build multiple PR Scenarios and create realistic Full Mission Profile (FMP) with reactive patients.

Customizable from interchangeable limbs to patient voice tracks, TOMManikin simulates patient reactions and medical interventions – airway adjuncts, needle decompression, wound packing, tourniquet placement, and vascular access. TOMManikin is a trauma manikin simulator designed for both classroom settings and Trauma Lanes and field training scenarios. Multiple appendages present a variety of wounds including gunshot, blast and burns to provide full mission profiles in combat scenarios. Durability and realism make TOMManikin a cost effective, educational trauma training tool capable of surviving the rigors of TCCC, APT and Tactical Medicine.

The new TOMManikin® Gen4 contains new features, including improved intubatable airway, IV arm, sternal and humeral IO, a choice of light or dark skin tone.

The TOMManikin® family of products now includes a stand-alone, realistic training device that can be used with or without blood flow – the Hemorrhage Control Part Task Trainer. The Trainer is compact and easy to transport, yet rugged enough for classroom or field use. Simulation exercises can be run repeated, each time reinforcing the control of potentially lethal



injuries to groin and leg with wound packing and proper tourniquet placement.

Tactical Training and Simulation

The HH-60 CASEVAC, CV22 CASEVAC, and Little Bird provide the capability to train appropriate personnel on the proper methods of administering medical aid to occupants from the interior of a structure. They are portable and quickly reusable helo cabin structure designed and built for providing multi-purpose exercises that recreate real-life extrication and medical training in crash scenarios. It provides the capability to train appropriate personnel on the proper methods of administering medical aid to occupants from the interior of a structure within the parameters of a training exercise.

These extrication helo trainers, when used in conjunction with the ITTS TOMManikin and Sensory Control Unit (SCU), gives total integration between the simulation cabin and environmental factors that can be applied to any training scenario. The front compartment can be used as a trap for the TOMManikin (both pilot and co-pilot seating). The Little Bird has extractable doors, providing a realistic obstacle to emergency extractions. Remotely controlled via laptop or Android device, the training coordinator can introduce and vary the intensity of noise and smoke (fogger). The control of these factors, plus the realism of the training structure, greatly enhances the realism at point of injury.

The Sensory Control Unit (SCU) is a PC, tablet, or Android controlled unit with a custom designed interface that allows for an increase/decrease in the level of stress on the trainee via the control of environmental factors, such as light, noise, wind (fans), water, smoke (foggers), and other specialized components. The control of these factors and the built-in “intelligence” of the unit greatly enhance the realism of care-under-fire procedures. The unit

is easily transportable, reusable, and designed to be easily applied to stationary units (e.g. cargo container and kill houses).

This mobile unit is entirely self-contained, configuring as a “rack system” to most training environments. It contains the hardware, software, and electrical components required to equip multi-sized simulation environments for a training procedure. A provided camera allows you to monitor the exercise externally on a window in the user interface.

Machine Gun and Blast Simulator

For seamlessly and effectively adding small arms fire to your Full Mission Profile, TCCC, and care under fire training scenarios, the ITTS Machine Gun Simulator and ITTS Blast Simulator fully integrate into the same operating system as the TOMManikin. The result is the introduction of a realistic threat into your medical training scenarios, creating a more dynamic, intense training experience. In addition to being cost effective and removing the annoyance of using blank rounds, the Machine Gun Simulator and Blast Simulator allow you to work from a safe distance, while still experiencing the high decibel emission of live fire.

Both gun simulators are controlled by sophisticated radio control systems that allow for complete control of the unit from a distance of up to one mile. Multiple units may be triggered from a single point or control station. All communication is through a wireless operating system.

ITTS Gun Simulators uphold the mission to allow you to spend less time “preparing to train”, and more time training more people.





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.



When Success is Vital™

The world's most complete and trusted line of battle-tested IR and visual beacons, illuminators and remote lighting systems

20 Years of Battle-Proven Performance



Subsidiary of Adventure Lights, Inc.



- Operable in temperatures from -40 to +65°C
- Waterproof up to 330 ft. (100 meters)
- Visible from up to 20 miles (30 km)
- Highly resistant to impact

VIPIR with Trip-Wire, Light Shield and Universal Mount

EXTREME PRODUCTS FOR EXTREME CONDITIONS®



VIP / VIPIR™



Guardian™



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Beacons available with:

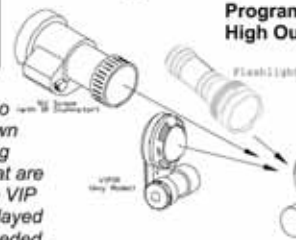
- Programmable Mockingbird® Technology
- Reverse Polarity Program Switching
- AutoSync Automatic Group Synchronization
- Positive Tactile Feedback Rotary Ring
- Attachments for Helmet Mounting and Other Accessories



Mockingbird® Technology

Programmable with Near IR or High Output White Light Sources

Allows users to record their own unique flashing sequences that are saved into the VIP beacon and played back when needed.

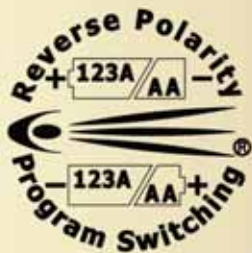


Compatible Light Sources Include:

- IR Laser
- High Output Flashlight
- VIPIR
- Sunlight

Set your Playback function to:

- Quick Strobe Flash
- Slow Flash
- SOS Distress Signal
- Unique Identifying Signature



VIPIR AutoSync
Helmet Light shown™



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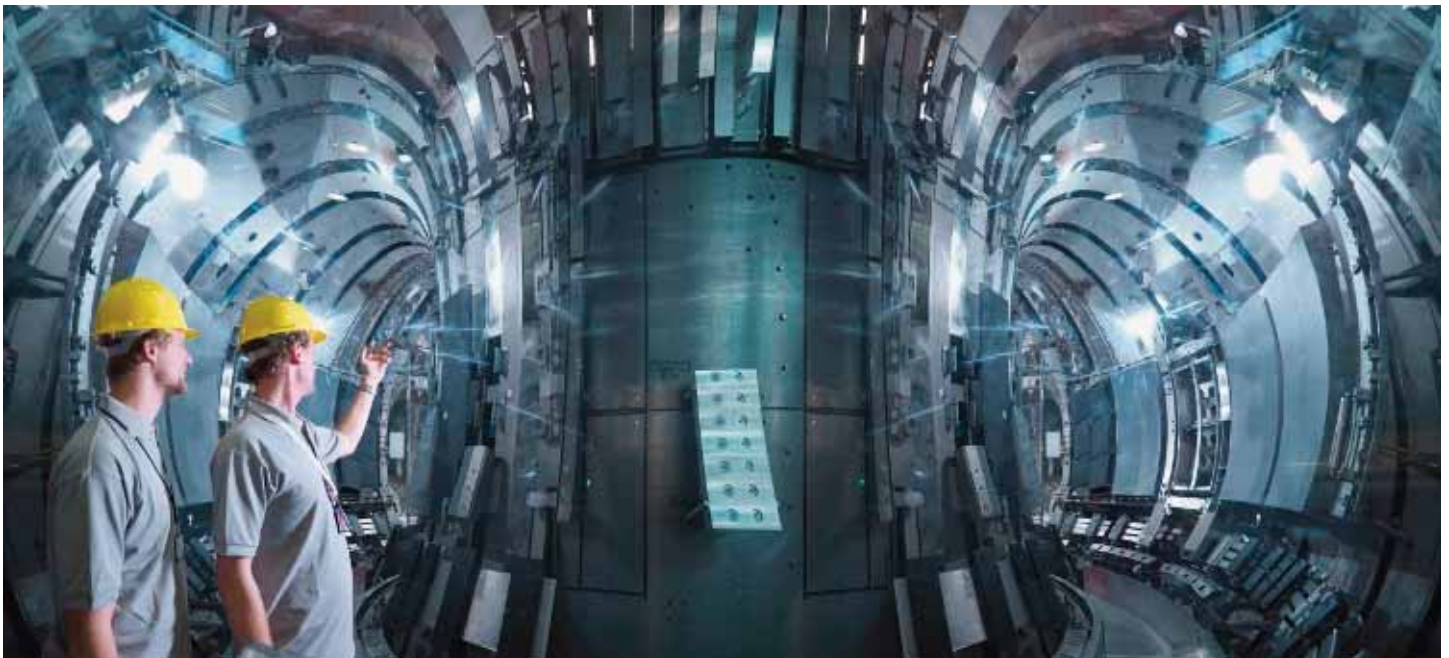
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and DSEi (London)

S.M.A.R.T. Beacon Systems

The smallest, lightest, most effective airfield lighting systems. Controllers can operate beacons from up to 1200 meters with extended range repeaters. A variety of kits are available to accommodate the needs of expeditionary landing zones, helicopter landing zones, parachute jumper signaling, cache, container, beach head marking and many other applications.



Bertin Technologies acquires Saphymo strengthening instrumentation and systems division for nuclear, defense and environment



On January 1, 2015, Bertin Technologies, a subsidiary of the French industrial group CNIM, finalized the takeover of the Saphymo Group, a French leader in systems for detecting and monitoring ionizing radiation. As a result, it has strengthened its scientific instrumentation and systems division and become the only French industrialist to offer a full range that covers both:

- **detection and identification of chemical, biological, radiological and nuclear (CBRN) threats, for defense and security**
- **and ionizing radiation monitoring for the nuclear industry.**

With the acquisition of Saphymo, Bertin Technologies has created a new entity called Bertin Systems & Instrumentation aimed at becoming an international leader on the market of instrumentation products with high added

value in terms of technology, for the sectors of nuclear energy, environment and life sciences as well as defense and security.

The new offer is dedicated to four major fields:

1. Ionizing radiation detection and monitoring in the nuclear and environmental sectors. For example, Egypt has just entrusted Saphymo with setting up a network that monitors radioactivity throughout its territory. In the event of a radiological incident, water and air alert stations installed at strategic locations, will enable rapid crisis management. Also worth mentioning is the installation of radioprotection devices and access-control gates in EDF's new power plant, the European Pressurized Reactor (EPR) in Flamanville.

2. CBRN threat detection: a full offer is now available thanks to the synergy between Saphymo (radiological and nuclear detection) and Bertin (chemical and biological detection). Bertin has thus become one of the only global groups offering proprietary systems for all CBRN threats. This meets a need that has significantly grown in recent years, following the lessons learned after the Fukushima disaster and persistent chemical and biological threats. Recently, Second Sight®, the chemical gas detection camera, was purchased by the Los Angeles Police Department to protect major city events from the risk of terrorist attacks.

3. Lab equipment. Within just years, Bertin has also become one of the world leaders in biological sample preparation with its Precellys® product range. For example, to support HIV research, the new Precellys® Evolution, launched in September 2014, now equips an American BSL-4 lab, the highest level in biosafety.

4. Technological developments and systems, in particular in the field of optics. Designing comprehensive units of high-level scientific instrumentation has been a longstanding Bertin activity. With its parent company CNIM, Bertin Technologies has been accompanying the French Atomic Energy Commission (CEA) for over 10 years on the Laser Mégajoule program. Ordered in 1996 after nuclear testing was halted in the Pacific, the 300-meter long, 50-meter high facility was inaugurated in October 2014, enabling small-scale replication of extreme phenomena that occur during the operation of a nuclear weapon. Bertin designed the equipment for the large experiment room and developed the laser beam alignment system, capable of focusing on a target with accuracy down to a micron.

The new entity Bertin Systems & Instrumentation is aiming for faster development abroad by relying on a solid export network made up of about 50 distribution partners. It also has local facilities such as its subsidiary Bertin Corp., created in 2010 to market products on American soil, and an office in Singapore to cover Asia. Saphymo rounds out its facilities with a site in Genoa, Italy and one in Frankfurt, Germany.

Saphymo's team has been maintained under the operational responsibility of Laurent Schneider Maunoury, appointed CEO, while Bruno Vallayer, Vice President Marketing and Sales of Bertin Technologies, has become Saphymo's President.

According to Bruno Vallayer, "the first goal of this merger is to develop commercial and technical synergies between Bertin and Saphymo, like on the Dora project, a contract won in 2013 with the French Arms Procurement Agency (DGA), to develop the new radiometer for the French Army. Bertin teams are now providing support to the Saphymo teams on that project, in particular for the aspects dealing with ergonomics and electronic design."

SAPHYMO REVEALING THE INVISIBLE

Saphymo has been a key player in ionizing radiation monitoring for 60 years. The company is involved in numerous aspects of radiation detection and measurement. Its product ranges are associated with personal protection as well as process and environmental monitoring: dosimetry, portable radiation protection, contamination monitoring, fixed channels, access control, etc.

Saphymo's products and solutions, designed for highly demanding industrial environments, are used by the nuclear industry (nuclear power plants, fuel cycle, etc.) and also in many other sectors: defense, security, environmental monitoring and track&trace.

Based in Saint-Aubin in the Paris region, the Saphymo group has 160 employees and reported a turnover of just over €20 million in 2013. It also has sites in Grenoble, Thiron-Gardais and Bègles. It has two subsidiaries: one in Germany and one in Italy.

www.saphymo.com

BERTIN TECHNOLOGIES AND ITS SUBSIDIARIES INDUSTRIAL AND TECHNOLOGICAL INNOVATION

Bertin Technologies and its subsidiaries are backed by a tradition of innovative engineering, which it deploys to develop, produce and

market innovative systems and equipment throughout the world. With now nearly 650 partners including over 450 top-level engineers and managers, the group works in four major fields: consulting and engineering with the departments Bertin Expertise & Innovative Processes and Bertin Ergonomics & Human Factors, systems and instrumentation with Bertin Systems and Instrumentation, information technology with Bertin IT and lastly, pharmaceuticals and biotech with Bertin Pharma. Thanks to its industrial know-how in diversified technologies, and close synergy with CNIM and its other subsidiaries, Bertin provides its expertise in a wide range of sectors: energy and environment, defense and security, life sciences and aerospace as well as industries and services.

www.bertin-technologies.com

A COMPANY MEMBER OF CNIM GROUP

The CNIM Group designs and produces turnkey high-tech industrial facilities, and provides expertise and operational services in the Environmental, Energy, Defense and Industrial sectors.

The Group is based on a stable family shareholding, safeguarding its development. CNIM employs a staff of 3000 in 15 countries and recorded a turnover of €781.9 million in 2013, including 67.6% from exports. CNIM is listed on Euronext Paris.

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Sound & Vision of a Century

Sound and vibration pioneer Per V. Brüel turns 100

Per V. Brüel, one-half of the visionary duo that created leading sound and vibration company Brüel & Kjær, celebrated his 100th birthday on 6th March.

For this milestone moment, Mr. Brüel will look back on a century in which he played multiple larger-than-life roles, including engineer and visionary inventor, founder of a major global corporation, pilot and explorer who personally pioneered new markets.

"He literally created the field, as industries didn't measure sound and vibration at all in the days when he started," says Torben Rask Licht, M.Sc. E. E., product manager of vibration calibration systems for Brüel & Kjær, who worked alongside Brüel for more than two decades. "Per was a driving force behind setting standards and establishing the importance of sound and vibration. In today's terminology, he branded the idea." As a young engineer, with a Ph.D. in acoustics from Danish Technical University, Mr. Brüel made his initial breakthroughs in the late 1930s and early 1940s with the development of the world's first acoustics analyzer - and the first commercial piezoelectric accelerometer (Type 4303).



"I was able to make the first acoustics analyzer in the world," he says. "No one had ever made anything like that before. We made two copies, which became our first commercial instrument when Viggo (Kjær) and I started Brüel & Kjær."

During the early days, a main objective was to use these instruments to measure and reduce vibration and noise levels. "Even then we could see that noise is one of the biggest problems of our time - it affects millions of people every day," says Mr. Brüel. "Our instruments could not only measure noise, but also help customers identify and eliminate noise problems." It also became clear to the pair, that - while the range of possible applications was extensive - the automotive and aircraft industries would be key markets. In both industries, sound and vibration instruments could help manufacturers improve safety and comfort by enabling them to see how their products stood up to real-world conditions. Mr. Brüel pioneered the development of products such as a revolutionary level recorder and microphones that set a new standard for accuracy and stability.

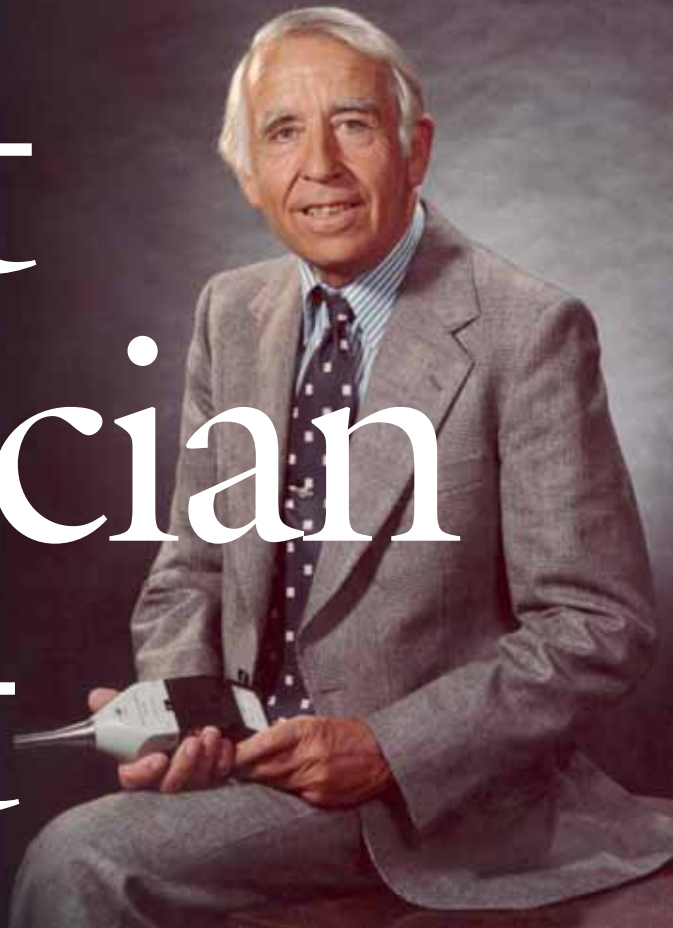
On Brüel's 100th birthday it is interesting to consider that the passion he and Kjær brought to overcoming engineering challenges has led to sound and vibration innovations throughout the entire product life cycle - from modelling an early design to manufacturing the product and maintaining its operation - in multiple industries, including automotive, aerospace and telecom. There is a direct line of descent from Brüel's early innovations to the sound and vibration solutions Brüel & Kjær provides today. And the company he founded with Viggo Kjær still operates along unmistakable guidelines that he and his partner established.

"Brüel & Kjær today is a reflection of his actions and vision," says Managing Director, Lars Rønn. "Our company culture, our pride in product quality and our focus on innovation all stem from those early days. If this company is synonymous with sound and vibration it is because we still so closely identify with the beginning that Per Brüel and his partner Viggo Kjær gave us. Happy 100th, Per."



Brüel & Kjær 
BEYOND MEASURE

A great acoustician is quiet



Per V. Brüel passes away on 2nd April 2015

Co-founder of sound and vibration company Brüel & Kjær, Per V. Brüel, has passed away just a month after celebrating his 100th birthday.

Born in Copenhagen on 6 March 1915, Per Brüel's family expected him to become a forester. However, he showed a knack for technology and studied engineering at the Danish Technical University, where he met Viggo Kjær. After

graduation, the pair decided to follow their shared dream of starting an engineering firm.

At this time sound and vibration was not on the agenda of industry; as a result Per became a driving force behind setting international standards - and establishing the importance of sound and vibration in product development, to measure and reduce vibration and noise levels.

"Even then we could see that noise is one of the biggest problems of our time - it affects millions of people every day," Per said. "Our instruments could not only measure noise but also help customers identify and eliminate noise problems."

Through the second half of the 20th century,

Brüel & Kjær grew to become the world's largest specialist in sound and vibration solutions.

In 1992, the duo sold the company and then went on to pursue other ventures. Per continued his work in acoustics as a consultant and lectured on sound and vibration. Over the course of his life, he received many honorary titles from renowned universities and organizations around the world in recognition of his contribution to the field of sound and vibration.

Per was active and energetic right to the end, as demonstrated by his 100th birthday, which was celebrated in style, with nearly 100 guests at his home north of Copenhagen.



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Brigadier General Ladislav Jung, Land Forces Deputy Commander, **Czech Armed Forces**



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Brigadier General František Mičánek, Director; Centre for Security and Military Strategic Studies, **University of Defense, Czech Republic**



Colonel Josef Kopecky, Commander 7th Mechanized Brigade, **Armed Forces of the Czech Republic**

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Brigadier Bjarne Nermo, Commander of the Land Systems Division, **Norwegian Defence Logistics Organisation**



Brigadier General Norbert Huber, Director Armament and Procurement, **Austrian MoD**



Colonel Maciej Zajac, Deputy Chief, Land Forces Department, Armament Inspectorate, **Polish Armed Forces**



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Avionics Interface Computer Simplifies Test & Development!

Bohemia, New York (March 2015) Data Device Corporation introduces the Avionics Interface Computer (AIC), providing a scalable, programmable, and portable platform to develop and test MIL-STD-1553 and ARINC 429 system applications via an Ethernet network. The AIC features 2 PMC and 2 Mini-PCle expansion sites, allowing users to select interface boards optimized for their specific application and connectivity needs. An onboard Intel® Atom™ E3845 Quad Core 1.91GHz processor provides programming flexibility and simplifies connectivity by automatically bridging messages in real-time between Ethernet, ARINC 429, and MIL-STD-1553. The BU-67121W AIC also lowers the complexity and cost of many long discrete cables by locating the 1553/429 interfaces close to onboard electronics, and then using the Ethernet interface to provide network access and control from the test lab.



Benefits include:

- **3 Modes of operation provide complete bridging capability**
 - Remote Access...allows easy access to 1553/429 connection via Ethernet network
 - Protocol Conversion...allows users to create embedded software that seamlessly transfers data between 1553, 429 and Ethernet interfaces
 - Standalone...allows the AIC to operate as a user programmable computer system
- **Embedded processor provides programming flexibility, enabling the AIC to serve a broad range of data conversion and unique application needs**
 - Intel® Atom™ E3845 Quad Core, 1.91 GHz processor
 - 2 GB DDR3L mSDRAM
 - 30 GB SSD

▪ Hardware expandability and flexibility to suit your current and future needs

- 2 PMC and 2 Mini-PCle expansion sites
- Compatible with all Linux-based PMC and Mini-PCle I/O boards

"The Avionics Interface Computer's open architecture provides the flexibility and scalability to integrate a wide range of DDC's feature rich and field proven PMC and Mini-PCle boards. This, coupled with the AIC's embedded software and protocol conversion tools, will enable users to support and accelerate complex test and development projects", stated Greg Tiedemann, DDC's Data Bus Director.

Data Device Corporation (DDC) is the world leader in the design and manufacture of high-reliability data bus, motion control, and solid-state power controller products for aerospace, defense, and industrial automation applications.

For more than 50 years, DDC has continuously advanced the state of high-reliability data communications and control technology for MIL-STD-1553, ARINC 429, AFDX®, Fibre Channel, Synchro/Resolver interface, and Solid-State Power Controllers with innovations that have minimized component size and weight while increasing performance. DDC headquarters, design and manufacturing operations are located in Bohemia, NY. Visit www.ddc-web.com



Royal Thai Air Force selects IFS Applications to manage maintenance of fighter planes



Comprehensive ERP solution will improve accuracy of maintenance information available to engineers on the ground.

IFS, the global enterprise applications company, announces that the Directorate of Aeronautical Engineering (DAE), Royal Thai Air Force has chosen to deploy IFS Applications™ to manage the maintenance of the Force's fleet of 25 F-5E/F fighter planes' jet engines.

The DAE required a solution with strong maintenance capabilities to manage its fleet of fighter planes that includes operating 47 J85-GE-21B/C jet engines. The organisation chose IFS Applications to support its ongoing maintenance processes and to ensure availability of the aircraft at all times. The local consultancy support which IFS is able to provide also played a key role in the RTAF's decision.

The DAE has moved from a combination of legacy and paper-based systems to IFS Applications 8 with the further possibility of later taking advantage of increased mobility within the IFS solution. By eliminating manual and paper-based processes, the DAE will significantly improve the accuracy of maintenance information available to engineers on the ground. IFS Applications will also assist the RTAF in managing processes with third party suppliers, and improving collaboration to ensure that the right part is available at the right time.

"We chose IFS Applications because it offered us a comprehensive and proven industry solution that could help standardise our maintenance processes across the entire fleet," the Directorate of Aeronautical Engineering commented. "We were particularly impressed with the user interface of IFS Applications, and the solution is also being delivered in local language which is a huge bonus for us in ensuring ease-of-use within the Air Force. IFS has a proven track record in the aerospace and defence industry and being the number one global provider of EAM solutions to this market, we had great confidence in selecting IFS as our preferred solution."

"IFS has seen positive double-digit growth across Thailand for the past five or six years, and this is a key region for future growth for the

company. This is a key aerospace and defence organisation in this region and is a testament to the company's global expertise in this industry," said Sridharan Arumugam, Vice President, IFS South-East Asia. "We are pleased to support the Royal Thai Air Force and look forward to a long and mutually rewarding relationship."

IFS expects the customer to go live with the first phase of implementation at the Engine Maintenance Division, DAE at Don Muang Air Force Base in January 2016. The solution will then be rolled out to Wing 21 in Ubon Ratchathani Royal Thai Air Force base, which is the home of F-5E/F fighter plane.

For more information about how IFS helps organisations in the aerospace and defence industry, please visit:

www.ifsworld.com/en/industries/aerospace-and-defense

About Directorate of Aeronautical Engineering (DAE), Royal Thai Air Force

The Directorate of Aeronautical Engineering (formerly known as the Aeronautical Engineering Plant Division) was formed in 1922 and is a division of the Royal Thai Air Force (RTAF). Its core mission is to plan, coordinate, trace, control, develop and conduct all affairs that are related to Aeronautical Engineering and Supply Division within the RTAF. Directorate of Aeronautical Engineering is also tasked to manage all knowledge, control, evaluate and inspect all Aeronautical Engineering Affairs. For more information, please visit www.dae.mi.th

About IFS

IFS™ is a globally recognised leader in developing and delivering business software for enterprise resource planning (ERP), enterprise asset management (EAM) and enterprise service management (ESM). IFS brings customers in targeted sectors closer to their business, helps them be more agile and enables them to profit from change. IFS is a public company (XSTO: IFS) that was founded in 1983 and currently has over 2,700 employees. IFS supports more than 2,400 customers worldwide from local offices and through partners in more than 60 countries.

For more information visit: www.ifsworld.com.

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Peli™ Introduces the 9415Z0 LED, its most Powerful Rechargeable Lantern approved by ATEX Zone 0 (Cat. 1)

Peli Products proudly announces the launch of the 9415Z0, its most powerful handheld light in the market with the highest Safety certification, ATEX (Zone 0, Cat.1).

9415Z0 LED Lantern

With only 1,65 Kg of weight and 392 lumens, the new 9415Z0 LED Lantern packs the power without the weight. Four LEDs, powered by the latest generation Ni-MH batteries illuminate a distance of 392 meters. Innovative features include:

- **Approvals: II 1 G Ex ia IIC T4 Ga**
- **120° rotating head**
- **Run time: 11h (low) / 4h 30m (high)**
- **Battery status indicator**
- **3 mode switch (high, low, flashing)**
- **Rechargeable battery**
- **Shoulder strap included**

Safety approved for the most volatile work areas, the 9415Z0 LED Lantern is safe and one of the most compact, high output lanterns on the market. With an ATEX Certified Category 1 (Zone 0), it can be used at the highest risk zone where an explosive atmosphere is expected to exist, especially in chemical, electrical, gas, oil, power, pharmaceutical, fire rescue, hazmat and other high-risk industries. It also features a sure-grip, all-weather handle and an extra-large space to accommodate gloved hands. The light is available in yellow and is backed by Peli's legendary Guarantee of Excellence.



Peli-Hardigg brings solutions to the increasing demand of durable, reusable and ecological packaging for protecting the gear on the field

Peli-Hardigg™ is the largest manufacturer of military and aerospace approved reusable, recyclable, plastic ATA 300 CAT 1, LRU, AGE, WSTAGE, logistic containers and cases. For over half a century, Peli-Hardigg™ engineers have developed solutions for the transport and packaging needs of the military sector, with a large selection of durable, permanent and ecological Cases, that can be reused again, and again.

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Studies have shown that a durable, permanent packaging solution in shipment and storage is a cost-effective and ecological alternative to disposable packaging.



Single use, expendable packaging such as cardboard or wood crates, require time and labour for assembly and disposal, and increase in-transit risk. Therefore, more organisations are changing from regular cardboards and wood cases that can only be used once, to reusable packaging as Peli Cases, offering equipment and weapons the best possible protection for transport and repeated use.

Cases like Peli's are a more reliable, cost-effective and ecological solution, and are marking the future of the transport and protection of equipment, tools, devices and machines. With a Peli™ case, the cost is amortized over its life. On some models, it's recovered in as few as two trips.

Virtually indestructible protection for the field

The Peli-Hardigg cases are rugged, watertight, airtight, chemical-resistant, lightweight, durable, impact-resistant and reusable. They are designed to efficiently keep the sensitive and vital equipment safe from moisture, dust, sand, salt and impact. Safe inside, the equipment is protected against drop damage, while the rib design maximises stacking and stability en route.

These cases have been tested in the field as well as in combat situations. They are used to protect and transport aircraft pieces and engines, military diving scooters, all types of drones/UAV, weapons and missiles, satellites, robots, electronic equipment, among others. No matter the size and characteristics, Peli-Hardigg offers a solution to any company's need



of safe transportation and extreme protection.

Peli-Hardigg Mobile Military Cases

This line of cases provides war fighters extreme protection to the sensitive electronics, weapons, optics and communication equipment, needed to accomplish the missions. This range of cases includes the Peli-Hardigg Mobile Armory and Mobile IT™ to shield all kinds of weapons as well as portable computers and electronics from adverse conditions in the field and even under battle conditions. In addition, there are the Peli-Hardigg Mobile Medical™ Cases that include customisable inserts and options to organise and protect lifesaving medical gear. Each case is designed to exact performance standards with the input of military medical professionals. The Peli-Hardigg™ Mobile Master™ and ISP2 Cases provide transports for 463L pallets, NATO and Euro pallets.





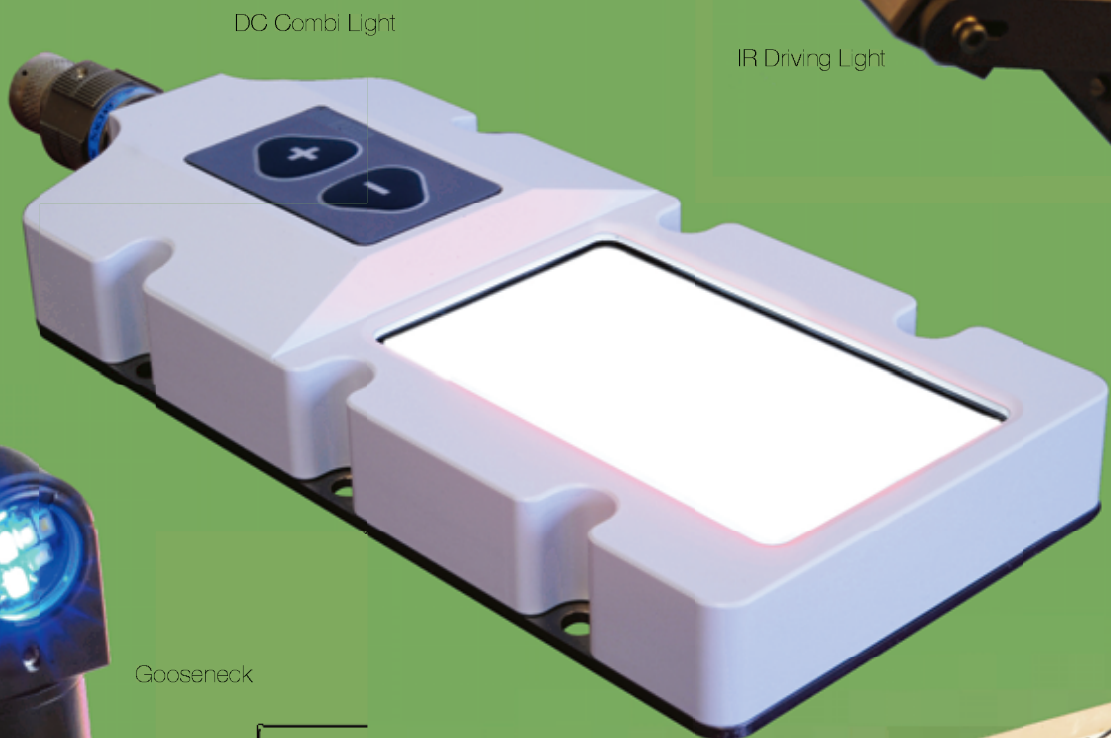
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Steatite Launches SightView™ Video Distribution System

Steatite is pleased to announce the release of SightView™ Tactical Video Distribution System (TVDS) that is designed to enable a team with up to four cameras to capture and record low latency video in difficult RF environments. The system uses the excellent Mobile Ad-Hoc Networking (MANET) capabilities of the MPU4 Wave Relay® radios. The combination of the MPU4 Wave Relay radios with the high quality low latency video codecs and cameras provide good quality streaming imagery from up to four cameras to a laptop based commander's viewing station.

SightView™ Video Distribution System

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* Technical Specifications quoted are qualified and verified but do not indicate the maximum performance limitations of the equipment. Specifications are subject to change without notice. E & OE Issue A



STEATITE

Teledyne Coax Switches Announces New COAX SWITCH SERIES CCR-39

New Commercial Latching Multi- Throw CCR- 39 SP10T Coax Switch

Teledyne Coax Switches introduces its new Series CCR-39 Coax Switch. The CCR-39 is a broadband multi-throw, electromechanical coaxial switch designed to switch a microwave signal from a common input to any of 10 outputs. The CCR-39 Latching Switch covers frequencies from DC to 10 GHz and is available with 12, 15, 24 and 28 coil voltages.

Latching Multi-Throw CCR-39 SP10T Coax Switch

The CCR-39 has a characteristic impedance of 50 Ohms and an individual latching actuator allowing random position selection and minimal switching time. The latching actuator ensures that the latching switch remains in the last position selected when the switch is de-energized.

The expansion of the CCR-39 Series reduce switch count from 3 switches to achieve a SP10T (1 SPDT to 2 SP5T switches), thus being able to offer smaller, price competitive switching solutions.



The CCR-39 measures 3.10 x 3.10 x 2.77 inches and have a maximum weight of 9oz. (255.2g).

Customers may download the datasheet at:

<http://www.teledynecoax.com/pdf/coaxialswitches/CCR-39S%20SP10T%20LATCHING.pdf>

For more information, visit www.teledyne-europe.com or send e-mail to sales.europe@teledyne.com

Teledyne Relays, a Unit of Teledyne Technologies Inc., has been the world's innovative leader in manufacturing ultraminiature, hermetically sealed, electromechanical and solid-state switching products for more than 50 years. The company's comprehensive product line meets a wide range of requirements for Commercial, RF & Microwave, Communications, Test & Measurement, Industrial, Medical, Aerospace and Military applications. In addition to Teledyne Relays, Teledyne Coax Switches offer a complete line of Coaxial Switches and Switch Matrices capable of low insertion loss, high repeatability, low intermodulation, 5 million cycle life and high power switching.



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