

MILITARY SYSTEMS

E T E C H N O L O G Y

GEROH

High-quality mobile mast systems
& trailer solutions

HESCO

Rapidly deployable, ground-mounted
barrier systems for military protection

NOPTEL

Development & manufacture of innovative
applied optoelectronic solutions

UNIVAL GROUP GMBH

Digital Jamming as part of Multi-level Blast
Protection

SYSTEMATIC

Integrated command & control from joint
hq to the tactical edge

PLUS...

BREAKING
NEWS FROM...

ANSELL
COBHAM
DEFENCELL
PELI
TELEDYNE

Image Courtesy of Ansell

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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GEROH

A WILL-BURT COMPANY

HIGH-QUALITY MOBILE MAST SYSTEMS & TRAILER SOLUTIONS

GEROH provides high-quality mobile mast systems and trailer solutions for military and security / rescue forces. They are used around the world: the armed forces of Germany, its NATO allies and other likeminded nations. Since starting the cooperation with our mother company WILL-BURT in 2012 we have progressively turned into a global player with subsidiaries and partners on every continent. In cooperation with WILL-BURT and ITS Towers our group is offering the broadest spectrum of telescopic masts in the world.

Customized Trailer Systems For Extreme Requirements

The object of GEROH is the development, project planning, construction and system integration of our customized trailer systems. We carry out and follow your plan from A to Z. Special trailers for special tasks are our specialty.

Many our trailers are manufactured in small series. They are used by the German Army and other international forces. Our trailer systems are especially designed for missions involving extraordinary burdens in extreme and arduous terrain. High payloads in combination with low basic weights, maximum cross-country mobility, long life expectancy and low maintenance requirements are the characteristics of all GEROH tactical trailers.



Range of Mobile Mast Systems

Our mast systems are used by international forces around the globe, including the German Army, to provide communications, surveillance, reconnaissance support etc. throughout the battlefield.

Mechanical Masts:

Telescopic crank masts KVL and KVR (also called cable pulls) are for payloads up to 70kg and heights up to 20m. They are suited to heavy communication systems, monitoring solutions, direction finder, target detection systems, etc. and used by the market leaders. These masts

uphold their reputation through their robustness and simple operation. The extension and retraction of this mast type is realized through a retractable rope and a separate return rope. This guarantees a reliable operation independent of the weather conditions.

Spindle-Driven Masts:

The Spindle mast SPM is currently the best available mast system on the market. Grown against the hardest requirements, the SPM is specifically designed for use with large payloads and very high demands of accuracy. The retracting and extension occurs through special spindle systems. A special honing procedure of the aluminum tubes and the use of high-

precision spindles enables the manufacturing of nearly backlash-free telescopic spindle masts for heights up to 18m and payloads up to 600kg!

Lattice Towers:

The spectrum of lattice towers starts with the ITS Towers. ITS offers an innovative line of commercial-off-the-shelf (COTS) tower solutions from 11.5m to 32m. GEROH lattice towers are customized solutions, mounted on trucks or trailers, for heights up to 45m and payloads up to 1000kg. Our giants!

- Our Parent Company, Will-Burt, offers a full range of pneumatic masts, mobile light towers, light-weight carbon composite mechanical masts and many man-portable and field deployed elevation options. Many of our masts are MIL-STD 810 certified. A world leader in elevation solutions for over 40 years, The Will-Burt Company has the ability to design and deliver an elevation solution to meet your exact requirements.



Integrated Command & Control

From Joint Headquarters to the Tactical Edge





RAPIDLY DEPLOYABLE, GROUND-MOUNTED BARRIER SYSTEMS FOR MILITARY PROTECTION

With headquarters in the US and UK; HESCO Bastion is a leader in the design and manufacture of rapidly deployable, ground-mounted barrier systems for the purposes of military protection, homeland security and environmental protection, including flood defense.

HESCO® Defensive Earth-filled Barriers

HESCO earth-filled MIL® units have been used around the world for perimeter protection, border control and temporary accommodation bunkers; protecting critical assets, personnel and equipment since 1991.

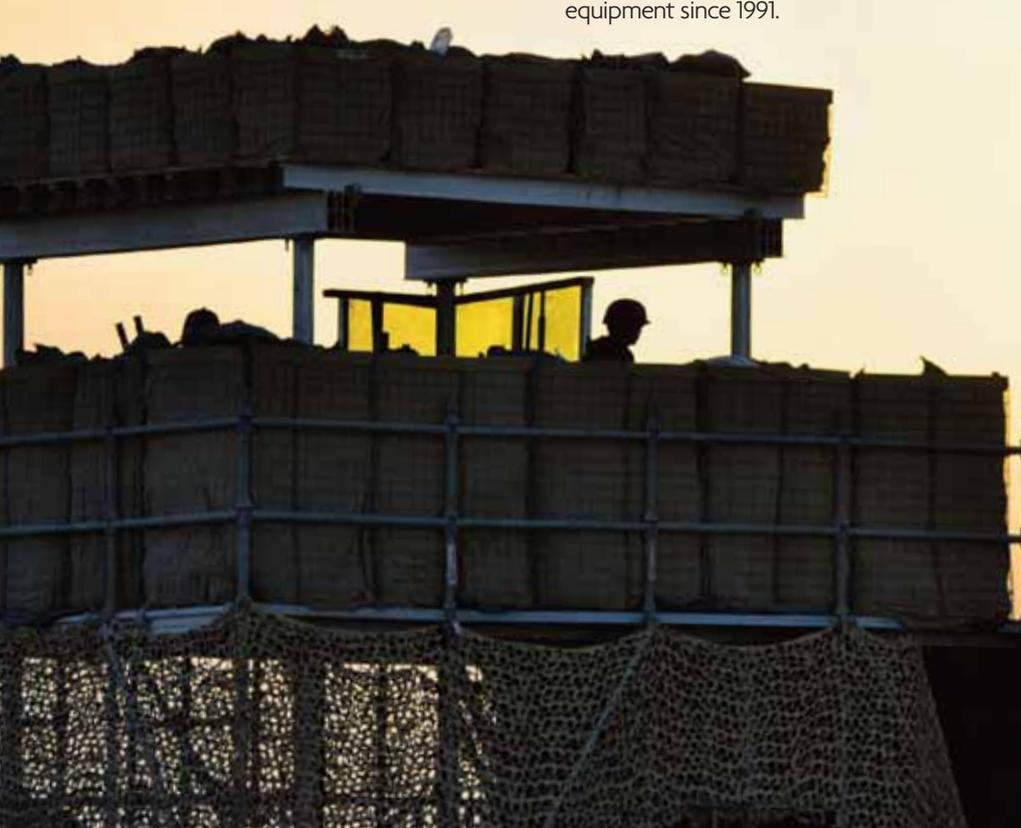
The Concertainer® unit is a multi-cellular barrier system manufactured from welded Zinc-Aluminium coated steel mesh and lined with heavy-duty non-woven polypropylene geotextile. The Concertainer unit's primary advantage over other barrier systems is its ability to utilise locally available fill material to rapidly construct defensive barriers and other structures with minimal manpower and resources.

The unique design, strength and versatility enable corners to be constructed easily, shaping the defensive barrier to the surrounding landscape and when joined and filled, the system can be used to create barriers of exceptional strength and structural integrity.

Available in a variety of different sizes and delivery systems, the units can be extended and joined together to provide effective and economical protective structures.

Protective Military Structures

HESCO protective solutions such as observation post; hardened accommodation, and emergency bunkers, provide expeditionary workforces with the protective measures required in hostile operational zones.





HESCO Accommodation Bunkers (HAB1) are designed to house up to eight personnel, providing individuals with a comfortable 2m² of personal space. Made from specifically developed Concertainer units and a lightweight aluminium roof, the HAB has been tested extensively against the effects of blast and fragmentation.

HAB2 is a development of the HAB1 concept; configured to allow easy access for emergency medical equipment, making it ideal for use as a front-line medical facility. Its components are completely reusable and provide a more functional interior space.

HESCO Lightweight Bunker Roof (HLBR) is a rapid and easily erectable lightweight roof specifically designed to provide protection against IDF weapons. The roof can be built on almost any walls capable of taking the load imposed upon them.

The HESCO Guard Post kit allows the assembly of a firing or observation point, with wall depth of two-feet, and 18" overhead cover.

The Ground Mounted Sangar and Elevated Sangars are modular Sangar units comprising of HESCO protective units and HARSCO extruded alloy components. By using HESCO MIL Units the Sangar offers protection from both blast and ballistic threats.

Both Sangars have a base of 5.5m x 5.5m. The Elevated Sangar will provide the user with an overall height of 3.7m to the platform level of the structure and a stairway to platform level.

Rapid Deployment for Expeditionary Operations

The HESCO Rapid In-theatre Deployment unit (RAID™) has been designed to support the deployment of perimeter walls, border control points and constructions of forward operating bases.

RAID provides a rapid delivery system of the HESCO defensive MIL units, deploying over 1,000 feet of MIL 7 in under 60 seconds. This

configuration removes 50% of all road traffic involved in delivering protective barriers to the end user.

Deployment is easy and can be carried out using in-service material handling equipment such as wheeled and tracked earthmoving equipment; wheeled logistic vehicles, or wheeled and tracked combat vehicles.

Corners can be formed; units can be joined, and gaps in the barrier can be created if required. The ability to split units provides the benefit of deploying only what is required; the remainder is left inside the secure RAID container for future use.



Ground-mounted Security Fencing

HESCO Redeployable Security Fence (HRSF) can be built on undulating or sloping ground and requires no digging, ground preparation or foundations.

Units can be dismantled and redeployed with limited effort and without any loss of material during re-use or the need of specialist equipment and training.

HRSF will withstand a vehicle attack; is PAS-68 rated, and the MIL units have been demonstrated in the military field to withstand indirect fire providing expeditionary workforces with the protective measures required in hostile operational zones.

Available in four heights of 1.2m, 2.4m, 3.1m and 3.6m, HRSF units also feature an anti-climb front face, ideal for immediate crowd control.



**OUR FOUNDATIONS IS OUR
TECHNOLOGIES, OUR MISSION IS
EXPANDING YOUR CAPABILITIES.**



Scott Safety are world leaders in the design and development of Respiratory Protection Equipment (RPE). We have a detailed understanding of the physiological and psychological burden RPE can place on users. That is why we test in the field. We apply what we learn there - as well as emerging research and technologies to every design to ensure superior capability, functionality and comfort. Irrespective of whether your requirement is for CBRN protection, Breathing Apparatus for EOD, USAR, Damage Control, Law Enforcement, Fire Fighting or for specialist applications Scott can meet your requirements- Comfortably

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Noptel

DEVELOPMENT & MANUFACTURE OF INNOVATIVE APPLIED OPTOELECTRONIC SOLUTIONS



Founded in Oulu (Finland) in 1982, the NOPTEL Company specializes in the development and manufacture of innovative applied optoelectronic solutions. Noptel's product line encompasses two major areas: Laser rangefinders and optical alignment and displacement measurement products.

NOPTEL employs thirty persons and has been a subsidiary of the Belgium-based FN HERSTAL since 2011. Today, NOPTEL's expertise as a key player in developing military qualified and military proven optoelectronic applications is well established.

Noptel Shooting Training Device

The Noptel Expert is an optical shooting training device for shooting skills training. It is used indoors with scaled-down targets and simulated shooting distances, or at shooting range with life-size targets and longer shooting distances. It measures rifle movement, detects the shot, shows the location of both the hit and miss, and analyses the shooter's performance. The Expert software shows the rifle movement during the aiming and triggering, and the score right after the shot.

- Fully portable: training anywhere and anytime
- Ready to use in minutes
- Mounting to most rifles
- Immediate shot analysis and feedback by Noptel Expert software
- Wireless operation
- Rugged Construction, indoor and outdoor use
- Training at simulated distances
- Training at long distances (shooting range)
- Always safe: no life ammunition
Noptel Long Distance Range Finding

The compact, eye safe and highly integrated laser rangefinders can be used as OEM products in different applications.

- Airborne, land, maritime and naval systems
- Vehicle mounted reconnaissance systems
- Observation and surveillance systems

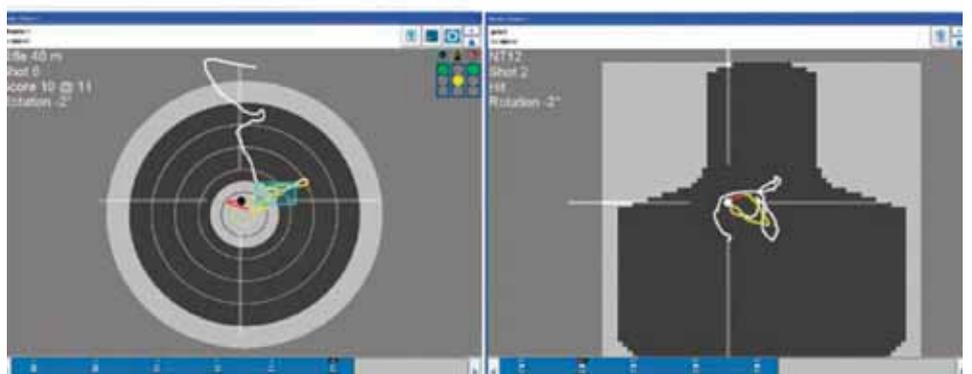


- Handheld targeting systems
- Future soldier program equipment
- Fire control systems
- Mobile range finding
- Location measurement

Noptel rangefinders can be delivered as open modules or in nitrogen-filled, watertight casings enabling flawless operation under harsh environmental conditions. The robust hand held devices measure distances beyond 10 km.



Find out more at: www.noptel.fi



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DIGITAL JAMMING AS PART OF MULTI- LEVEL BLAST PROTECTION

unival® group is a Germany based group of companies with headquarter in Bonn, Germany. We are a high-end security solutions provider with a product portfolio of synergetic products that allows our clients to efficiently combine a multi-level-security concept.

We have divided our blast protection technologies in three main product segments:

- Intelligence – Explosive Detection/
Night Vision/ Thermal Imaging/
GPS Tracking
- Counter Measures – Digital Wideband
Jamming Systems
- Physical Security – Automotive,
Construction and Personal Security

Improvised explosive devices (IEDs) have become the signature weapon of international terrorism as they are simple, cheap and deliver a disproportionate effect. IEDs cannot be extrapolated into anything other than a major threat to political stability worldwide. This tactic has been used by the Irish Republican Army in Britain, insurgents in

Iraq and Afghanistan, the Medellin cartel in Colombia, Muslim extremists in Europe and numerous other terrorist and criminal organizations.

Detection of explosives and classification of an area or objects has therefore to be considered a vital part of strategic operation planning.

HEDD1® Real-time Explosive Detection

Also for Liquid Explosives and Weapons

unival group offers HEDD1 a handheld explosive detection device which allows receiving real-time information about the presence of explosives and weapons/ammunition in a covert mode. The HEDD1 is the solution for which many security operators have been looking for. It works instantly, without the need of a fixed installation and can be used by any operator after a short training. The mobile system, which entered the market in October 2009, works on a patented Magneto-Electrostatic Detection (MED) method. Creating an active

magnetic field, the HEDD1 is able to detect all kinds of commercial and military explosives, including PETN, TNT, dynamite, gun powder and also liquid explosives such as TATP.

Covert explosive search behind barriers for improved access control scenarios. Allowing long range detection up to 100 meters, the operator will receive important information without a direct contact to the controlled persons or object. HEDD1 will find explosive material behind any barrier such as steel or other substances, outdoing a body scanner. HEDD1 will even detect so-called body-borne improvised explosive device (BBIEDs), explosives that suicide bombers might ingest or insert into their body cavities. The cost-effective system can be easily added into any existing security system, as it works complementary and maintenance-free without the need of a warm-up-time and with very short training intervals. The integration of HEDD1 into current security structures will increase the security level immediately without creating additional disturbance or delay at access control. By using the detector from a wider distance or

behind barriers, covert detection becomes possible, providing the identification of a terrorist without unmasking the system being used to do so.

Even weapons and ammunition will be detected, which makes HEDD1® also specially advantageous for any police and law enforcement applications whether stationary or mobile, as the device can also be used from a driving car.

DWJ1® Smart Digital Bomb Jamming

The protection of motorcades has become an increasing importance for governmental organizations, which requires the use of jamming systems in order to protect against road-side bombs.

unival group is introducing the new smart-jamming-system DWJ1, which the first commercially available high-end digital jamming system operated from the latest FPGA/ DDS chip-technology allowing to individually program the jamming system to threat scenarios in real-time.

DWJ1 - Digital Wideband Jamming System to counter Radio Controlled IED'S

The DWJ1 jamming system has been developed with the aim to offer best possible protection against radio controlled IEDs. The system is offering a 100meter protection radius around the vehicle even under worst case scenarios instead of claiming unrealistic best case figures. With its software based active threat-detection mode the system can be operated in an active-standby that will activate the system upon receipt of pre-defined frequency signatures, which makes it especially useful in any environment, where jamming has to be limited or is forbidden.

The system can be operated in parallel jamming modes such as barrage, sweep, multi-sweep as well as hopping for highest jamming efficiency and also allows to program communication windows. Due to the modular design, the system can be continuously upgraded both software and hardware based for future threat scenarios and new frequencies.



Key Advantages of DWJ1®

- Patented V5-HighEnd Antenna system with outstanding performance and usability
- Passenger health protection due to EMV shielding of vehicle
- Second alternator for power supply and back-up battery system
- EMERGENCY MODE for high-threat scenarios controlled with FPGA
- Protection against overheating with temperature monitoring of all components
- FPGA controlled, fully synchronized system for multi-jammer-convoy-scenarios
- Modular system - all components can be easily exchanged and/ or upgraded
- More than 1.000 Watt output power available from 20 MHz – 6.000 MHz or higher
- Latest generation power amplifiers for continuous operation in high-threat areas





- Full system certification in Germany including technical acceptance
- 100% Made in Germany - all main components and system parts are made in Germany

On basis of the same technology unial group is also offering a portable, backpack based system PWJ1®, which allows for real-time programming both by remote and notebook as well as the stationary version SWJ1®, which can be operated in buildings and can even be operated within network for both protection against RCIEDs as well as for communication jamming against eavesdropping.

PCM1- Digital Bug Detector

The PCM1 portable counter monitoring system is currently the latest technology for detecting concealed listening devices in the frequency spectrum up to 15,000 MHz. An integrated spectrum analyser enables it to investigate and identify all types of transmitter. It is possible to locate bugs precisely to within a centimetre with the aid of special handheld sensors.

By using digital “fingerprints”, cleaned rooms can be checked again in seconds and the results compared. The device can also be used in mobile operation, such as in cars.

- Extremely fast scans
- Fully automated detection of analogue micro – radio transmitters
- Automatic identification of digital radio transmitter sources
- Exact pin pointing of bugs
- Fully automated detection and
- Localization of bugs on conductors / lines

- Automatic apply of HF – fingerprints
- Silent - automatic detection of bugs during conferences
- Real- time differential measurement to identify / analyze transmission signals coming out of the monitored room
- Intuitive-, multilingual software

univision® - Night Vision and Thermal Imaging Devices

unival is developing and manufacturing the latest generation of night vision devices which are designed and manufactured in Germany with a special focus to customized small series production for highend devices at a highly competitive price/ value level.

The new ultra-compact THR thermal imaging system, which will be available from Q3 2010 allows even wireless transmission from the camera to a near-by receiver for efficient law enforcement and military operations during day and night, when searching for temperature related signatures becomes necessary.



configuration options including module stacking.

The completed guardhouse will be delivered to the customer site turn-key and can be integrated within shortest time avoiding sub-standard local construction works. It is usable in any environment (hot and cold climates), is extremely durable and can be moved to multiple locations with changing missions. The final design and size of the guardhouse can be customized to client specifications. Various interior designs can be accomplished directly during production ensuring turn-key usage.

unival® group will assist clients with flexible interior configurations according to the specification for multiple use as:

- Guardhouse
- Command & Control room
- Server-room
- IT & Security storage
- Temporary camps

Advantages:

- Turn-Key Delivery and Installation at Customers Site
- Customised Equipment
- Usable in any Environment
- Portable and Durable

Concrete Armour Guard House and Ballistic Security Containers

unival's concrete-armour guardhouse is a special solution for all organizations operating in crisis areas in need of protection against military rifles and blast up to STANAG levels. The concrete-armour guardhouse/ security container is scalable to nearly any shape and size. Flexible planning with underground modules and with various





**Designed and
Manufactured to:**
MIL-PRF-44466D
NSF ANSI 4-2007

An army can now march on its stomach in both the heat and the cold!

Suitable for any environment the world's first commercially available water ration heater that also provides cooled water on demand

The new portable RAK15H/C can provide cold or hot water for a five person crew of an armored vehicle. With the ability to provide cold and hot water for washing, drinks and ration packs (MRE) in 20 minutes (depending on power rating) and able to keep the contents warm for over four hours after switch-off.

- Heats or cools whilst on the move
- Chills water, heats MREs, gives hot potable water on demand
- Keeps contents hot for up to 6 hours
- Low thermal signature
- Non-spill relief system



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SYSTEMATIC

SITAWARE

INTEGRATED COMMAND & CONTROL FROM JOINT HQ TO THE TACTICAL EDGE

Systematic is an independent software company providing scalable software products, turnkey solutions and support services for defence forces, security organizations and systems integrators, specialising in interoperable command and control solutions. Systematic is redefining the world of C2 from bespoke systems to turnkey solutions based on their unique software, SitaWare - a fully integrated product suite from Joint HQ to the commander on the move.

C4I IN THE BROWSER

SitaWare Headquarters is a powerful, scalable command and control solution with a simple browser interface that offers an accessible, easy-to-use yet comprehensive toolset that can significantly reduce deployment time and increase operational flexibility. SitaWare Headquarters is accessed directly from a standard browser through secure private cloud deployment. With no client installation a typical deployment takes

just hours rather than weeks. Together with its modern, intuitive user interface requiring minimal training, SitaWare Headquarters is a highly cost effective solution to deploy and maintain.



HEADQUARTERS C2

SitaWare Headquarters is a powerful, scalable C2 solution with a simple browser interface that reduces deployment time and increases operational flexibility.

SitaWare Headquarters is a battle-proven C4I system that fulfils all core requirements straight out of the box and provides extensive interoperability capabilities. It can be integrated seamlessly with all other Systematic C4I products and its open architecture allows for customized extensions and integration with legacy and third party systems.

ENHANCING FORCE PROTECTION

SitaWare Frontline is a battle management system that addresses real world command and control challenges at the frontline. It offers clarity, simplicity and high performance to commanders in tough environments, where a clear operational view with rapid updates of friendly force tracking is absolutely essential, and has been built with deployment and management in mind.

The software has a unique two-part design: a user application containing the battle management system, and a vehicle application which interfaces with existing communications equipment,

EASY TO USE READY TO DEPLOY PROVEN IN COMBAT

onboard management systems and sensors. This enables users to plan and execute missions in both static and mobile environments with the ability to easily implement change of location of command; while the separate vehicle application simplifies both the installation and upgrading of the vehicle software.



PLATFORM MOUNTED C2

SitaWare Frontline is a battle management system providing a clear operational view and rapid blue force tracking updates for in-vehicle commanders.

ANDROID BATTLE MANAGEMENT

SitaWare Edge is an Android based battle management system for the dismounted commander at the tactical edge. Designed for operational simplicity it provides the commander with fast and clear friendly force tracking (FFT) picture, shared tactical situation and latest intelligence overlays thereby enhancing force protection. With the ability to exchange Command Layers, complex manoeuvres can be quickly illustrated on the map and shared with subordinates via tactical data communication, thus saving valuable voice time and speeding up operation execution.

SitaWare Edge is part of the SitaWare suite of C4I products supporting a wide range of contemporary information exchange standards, making it fully interoperable with NATO and coalition partners. SitaWare Edge is fully integrated with SitaWare Headquarters and SitaWare Frontline, providing networked command and control and shared situational awareness from higher headquarters right down to the commander at the tactical edge.



DISMOUNTED C2

SitaWare Edge is a simple, easy to use Android based battle management system designed for the dismounted commander at the tactical edge.

The SitaWare product suite provides a core C2 capability that can be extended through its open architecture, allowing it to be tailored to meet national requirements whilst maintaining the ability to interoperate with joint/coalition partners.

For more information on SitaWare visit www.systematic.com/defence

Ansell introduces trellchem® act – protective suit for law enforcement and cbrn terrorism responders

28 October 2014, Trelleborg, Sweden - Ansell, a global leader in protection solutions, today announces the US launch of TRELLCHEM ACT, a new protective solution for law enforcement responders dealing with consequences of Chemical, Biological, Radiological and Nuclear (CBRN) terrorism incidents. The garment is intended for use in all CBRN terrorism environments, including the Immediately Dangerous to Life and Health zone (IDLH) and is certified according the American standard NFPA 1994 Class 2.

Duties of the law enforcement community have become much more complex and challenging with the realization of new kind of threats, as introduced by the 9/11 attacks in 2001. Today, law enforcement teams on all national levels are expected to take active roles in the response to terrorism and potential terrorist threats. The personal protective equipment (PPE) used by these responders consequently needs to be adapted to fulfill the special demands and requirements set forth by close contact with various CBRN substances, while at the same

time not limiting the ability for adequate response. To be truly effective, PPE equipment intended for safekeeping of law enforcement personnel must consider and put focus on both garment material, as well as garment design and comfort.

“With TRELLCHEM ACT, Ansell is expanding its protective clothing offering in a new and exciting direction” says François le Jeune, Senior Vice President Business Development and Transformational Initiatives at Ansell. “By combining our unique knowledge of protective clothing solutions with user comfort requirements, we are helping to protect these brave responders in their most challenging missions.”

Trellchem ACT is developed with a system-level perspective to offer law enforcement and other CBRN terrorism response teams the best possible protection and comfort when engaging in incidents involving high levels of CBRN hazards where concentrations are recognized to be at IDLH levels (lethal). The Trellchem ACT suit

is made from a strong, durable and lightweight technical fabric with a fluoro-based barrier film. Wearer comfort is high and noise level from being active in the suit is at a minimum. Besides the safety aspect provided by the suit material, the ensemble has a range of standard features to elevate comfort for the wearer. The suit is equipped with an elasticated waist for good fit, shoulder paddings to ease the discomfort from the SCBA load, and an external neck strap fitted to obtain individually optimal comfort of the hood. The mask seal of the hood is uniquely cut in a 3D shape to bring maximum safety and fit around the BA face mask. Gloves are offered with dual attachment options, which can either be permanently fixed to the suit, or optimally attached with the Trellchem® Bayonet glove ring system, offering quick, safe, and simple glove replacement. Additional optional features for increased comfort include pockets and elbow/knee padding.

The ACT ensemble fulfils NFPA 1994 (class 2), 2012 edition and consists of garment, gloves, and footwear tested and certified as one protective system, with a manufacturer specified CBRN respiratory protective device. For the Trellchem ACT ensemble, SCBA units by both Scott and MSA has been certified and approved for use, along with OnGuard Hazmax® boots as protective footwear.

More information on Trellchem ACT can be found at:

<http://protective.ansell.com/en/Products/Trellchem/Tactical-Suits/>

Trellchem® is a registered trademark owned by Trelleborg AB. Hazmax® is a registered trademark of ONGUARD Industries, L.L.C.



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Cobham Unmanned Systems – Success world-wide in more than 50 countries

Cobham Unmanned Systems is a leading provider of integrated homeland security solutions and unmanned platforms, utilizing over 30 years of expertise in this highly specialized field.

Our mission is:

"To develop machines, equipment and systems that protect or replace human beings in situations where their presence would be either impossible or place them at great risk!"

More than 600
robotic systems
support customer
world wide

Customers all over the world are convinced about the versatile functionality of our robotic systems offering now for more than 10 years tool change capability and easy to use manipulator control. The robotic systems tEODor and telemax are now in service in more than 50 countries around the world totaling to more than 600 robotic systems. This includes more than 20 countries in the EU and also more than 20 NATO countries.

Systems worldwide

| | |
|-----------------|----------------|
| Afghanistan | Kuwait |
| Argentina | Latvia |
| Australia | Lithuania |
| Austria | Luxembourg |
| Bangladesh | Malaysia |
| Bahrain | Nepal |
| Belgium | Netherlands |
| Brunei | Nigeria |
| Bulgaria | Norway |
| Bosnia-Herz. g. | Oman |
| Canada | Portugal |
| Czech Republic | Poland |
| China | Qatar |
| Croatia | Romania |
| Denmark | Russia |
| Ecuador | Saudi Arabia |
| Egypt | Serbia |
| Estonia | Slovenia |
| Finland | South Africa |
| France | South Korea |
| Germany | Spain |
| Greece | Sweden |
| Hong Kong | Switzerland |
| Hungary | Taiwan |
| India | Thailand |
| Indonesia | Turkey |
| Iraq | Turkmenistan |
| Italy | U.A.E. |
| Japan | United Kingdom |
| Jordan | USA |
| Kazakhstan | Uzbekistan |

COBHAM
Unmanned Systems

More than 150 Service Vehicles

support customer world wide

The TEL600 series is a family of vehicles which deal with the demanding tasks associated with the location, identification and removal of explosive and incendiary devices, especially in the event that there is suspicion of a dirty bomb. Today more than 150 TEL600 Service vehicles

support customers around the world. These Systems are made-to-order based on individual customer specifications thus perfectly fit to their demanding tasks.

Protecting People and their surroundings

Whether the task at hand is disarming an Improvised Explosive Device (IED) with a remote controlled robot; investigating NBC hazards with an unmanned sensor platform; or

deploying mobile, fully networked measurement, monitoring and intervention systems to ensure the safety and security of critical infrastructure:

Cobham's Unmanned Systems top priority is always the protection of people and their surroundings.



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DefenCell MAC® awarded US Military force protection barriers contract

Maccaferri Inc. of Maryland, USA, have been awarded a contract for the supply of their DefenCell MAC gabion barriers to meet the DLA Expeditionary Barrier System (EBS) requirement.

DefenCell MAC Gabion Barriers

The indefinite duration/indefinite quantity (IDIQ) contract is for a potential maximum value of \$500,000,000 and has been awarded by Defence Logistics Agency Troop Support in Philadelphia. DLA troop Support annually manage over \$13 billion worth of food and

equipment supplies in support of America's warfighters worldwide.

Defencell MAC® is a rapid to deploy barrier system engineered from geotextile lined welded mesh gabions. Filled on site with locally available material, Defencell MAC® units form defensive structures and barriers to protect personnel and infrastructure against a wide range of ballistic threats and hostile vehicles as well as floods and storms.

Maccaferri and military materials supplier, J & S Franklin, are in partnership to jointly supply the Defencell MAC range of force protection barrier systems to military and security forces in the



USA and around the globe, taking advantage of Maccaferri's manufacturing facilities in five continents.

Speaking after the award of the contract, Maccaferri Global CEO Luigi Penzo said "Despite being a relatively new entrant into this military sector, we have been making gabion products for nearly 140 years. We have a high quality product that has now been recognized by the DLA as part of their defense systems. We are delighted with this solicitation award."

Marc Franklin added "The DLA has selected quality suppliers for this solicitation award. We look forward to fulfilling their requirements to defend troops and infrastructure. It builds on our successes with Defencell MAC® in Europe, Middle East and Africa."

The Maccaferri-Franklin partnership also provides technical support and installation assistance to clients.



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Beacon Systems include Combat Identification / Identification of Friend or Foe (CID/IFF) as well as Tagging, Tracking, and Locating (TTL) systems. Our products are available in spectral bands that include UV, Visible, NIR, SWIR, MWIR, and LWIR.



Laser Systems manufactured include illuminators, pointers, and designators. Our products are available in spectral bands that include UV, Visible, NIR, SWIR, MWIR, and LWIR.

The Sensor Systems Division of The O'Gara Group is a leading designer and manufacturer of Imaging, Beacon and Laser Systems for Special Operations Forces.

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Peli's Advanced Area Lighting Group introduces the 9480 Remote Area Lighting System (RALs)

An ecological responsible alternative to generator powered lights. It's a self-contained system easy to set up, rechargeable and swappable battery. With an extra battery the user can double run time.

9480 Remote Area Lighting System (RALs)

- **Up to 4.000 lumens (calculated)**
- **Up to 28 hours of run time**
- **3 pre-set light levels**
- **Remote operation via Bluetooth® App (iPhone® only)**

The 9480 is engineered with a multi-position



deployable mast that telescopes up to 60 cm (23.75"), and the maintenance-free LED array has a life expectancy of over 50.000 hours. A detachable nylon shoulder strap is also

included. Built Peli tough and tested to military standards, this new lighting systems is available in black or yellow and is backed by the company's legendary Guarantee of Excellence.





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Teledyne Coax Switches Announces Low PIM COAX SERIES CCP-32N New Commercial Latching SPDT, DC-3GHz, Low PIM Coax Switch

Cumbernauld, UK, November 2014: Teledyne Coax Switches introduces its new Series CCP-32N Low Passive Intermodulation (Low PIM) Coax Switch. The CCP-32N is a broadband SPDT, electromechanical coaxial switch designed to switch a microwave signal from a common input to either of two outputs. The CCP-32N comes standard with N Type Female Connectors designed to achieve IP3 levels of -148dBc with two carrier signals at +43dBm.

The CCP-32 Series is ideal for switching High RF Power or High Sensitive Signals. Teledyne's Low PIM CCP-32 Series ensures the most linear response with the best galvanically matched contact system in the industry. The CCP-32 Series can handle up to 200W CW @ 3GHz and has superior RF performance such as Isolation of 70dB min @ 3GHz. Teledyne's SPDT design offers the most reliable, and insertion loss repeatable switches.

PIM is critical in today's market where multiple frequencies are transmitted simultaneously in wireless communications and higher data rates.

The CCP-32N measures 0.90 x 2.75 x 2.33 inches and has a maximum weight of 6oz (170.1g).

Teledyne's New Low PIM product line will feature a wide selection of switches. For a complete list of new Low PIM products, please visit: <http://www.teledynecoax.com/rfswitches/default.asp>

Customers may download the datasheet at <http://www.teledynecoax.com/pdf/coaxialswitches/CCP-32N%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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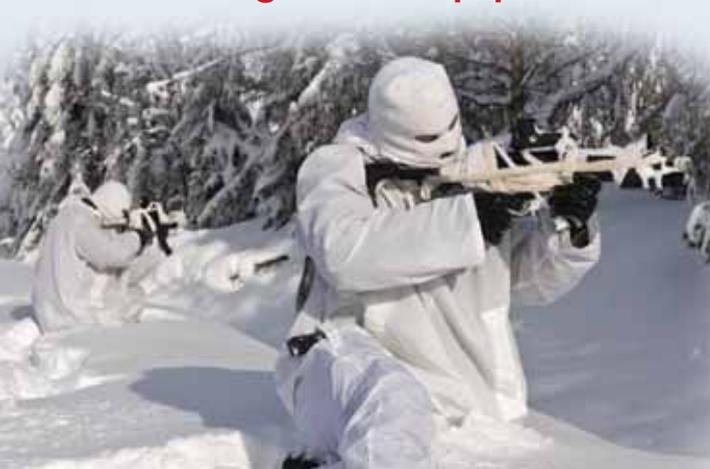
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EVENT HIGHLIGHTS:

- 1. No Attendees only participants:** SETAF's unique discussion based format means we deliver only technical discussions lead by experts in their field
- Participation confirmed from soldier system experts from **Norway, Sweden, Finland, UK, US, Canada, Austria, Germany, Poland, Romania and the Netherlands**
- Winter Warfare Soldier Equipment Briefings Day:** hear from local and international programmes and how they design and optimise their soldier systems for sub-zero environments
- Real solutions uncovered** in the SETAF exhibition zone: the very latest technologies will be showcased to help advance the next generation of soldier systems

EXPERTS LEADERS AND PARTICIPANTS INCLUDE:

-  **Brigadier Asle Kjelsberg**, Former Quartermaster General, Norwegian Armed Forces
-  **Rune Lausand**, Chief Scientist, FFI, **NORMANS, NORWAY**
-  **Colonel Johannes Bogner**, Head of Project Team, **Soldat de Zukunft, Austria MoD**
-  **Lieutenant Colonel Pawel Sweklej**, Project Manager, Soldier System TYTAN, **General Command of the Polish Armed Forces**
-  **Lieutenant Colonel Tiberius Tomoiaga**, Military Equipment and Technological Research Agency, **METRA, Romania**
-  **Major Jonathan Herbert**, Project Director Integrated Soldier System, **Canadian Department of National Defence**
-  **Ross Jones**, Programme Leader, Dismounted Soldier Systems Programme & Delivery Directorate, **DSTL, UK**
-  **Steven Savage**, Research Director, Division of Sensors & EW Systems, FOI, **Swedish Defence Research Agency**
-  **Dr. Adelbert Bronkhorst**, Principal Scientist, **TNO, Netherlands**
-  **Col Richard Hansen (Retd)**, Former Programme Manager, Soldier Warrior, PEO Soldier, **US Army**
-  **Magnus Lifgren**, Project Manager Soldier System, **MARKUS, FMV, SWEDEN**
-  **John Foley**, Technical Director, **FIST, THALES UK**
-  **Mr Olaf Aul**, Chief Technical Leader, IdZ -ES, **Rheinmetall Defence Electronics, Germany**

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