

# MILITARY SYSTEMS

E T E C H N O L O G Y

## AVON PROTECTION

CBRN Respiratory protection at its Best

## OWR GMBH

Manufacturers of outstanding decontamination equipment

## ARGON ELECTRONICS (UK) LTD

High-fidelity simulators for chemical, biological, radiological nuclear & HazMat training

## TELETRIX

Supplying quality simulated radiation training equipment since 1988.

## ITTS INC

Developing realistic training tools for the military & emergency medical domains

SPECIAL  
FEATURE  
TRAINING &  
SIMULATION

PLUS...

## BREAKING NEWS FROM...

FAUN TRACKWAY

MARSHALL

NORTHROP GRUMMAN

WILL-BURT & GEROH

MILLBROOK

Image Courtesy of Innovative Tactical Training Solutions Inc



## SURPLUS AND SHELF LIFE EXPIRED SMALL ARMS AMMUNITION IN OPERATIONAL THEATRES

In any conflict there is a large amount of Small Arms Ammunition (SAA) issued to the troops on the ground which when unpacked cannot be returned to stock. Other issues such as climate and age render the ammunition unfit for front line use and in some cases unfit for training.

This SAA takes valuable resources and manpower to look after it until it is transported from theatre or destroyed. The TRADS 20, built and supplied by EOD Solutions Ltd and Caldo Engineering, would solve these issues and be a cost-effective way of destroying SAA as it became available.

Container or Trailer-mounted, the TRADS 20, which has been proven in Afghanistan, can destroy up to one and a half tons per day and will need the minimum of resources as it is completely self-contained and meets the EU Waste Incinerator Directive for emissions to atmosphere.

The TRADS 20 requires only diesel to operate. Lime and Urea is supplied with the system and one 20-foot container can hold enough of these materials to work for up to one year. The trailer-mounted version can be pulled to FOB and other outstations and camps so it also reduces the need to transport SAA in theatre. The TRADS 20 is ahead of its rivals as it requires only two personnel to work it with a small number of personnel for unpacking and searching the scrap to ensure all the ammunition is destroyed. The system is currently working in Afghanistan and has proven to have a good reliability and production record. Average cost per day is approximately £200 plus labour. Daily and routine maintenance is elementary and can be undertaken by anyone with a rudimentary knowledge of engineering. Full training and first site commissioning is included in the cost of the system and a company technician will remain for the first two weeks to ensure the personnel who work the system are completely at home with the system.

EOD Solutions Ltd in conjunction with Caldo Engineering Also produce a TRADS 40 system (pictured right) for larger quantities of small arms ammunition destruction. This system will destroy approximately 750 Kgs of ammunition per hour and is a constant feed rotary kiln product. EOD Solutions Ltd is currently using this system in Afghanistan under contract to the UK Ministry of Defence as part of the drawdown from Camp Bastion. Both systems come complete with first installation and training.



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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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Avon Protection

# AVON PROTECTION – CBRN RESPIRATORY PROTECTION AT ITS BEST

Avon Protection is the recognized global market leader in respiratory protection system technology. An unrivalled 80 year pedigree in military mask design and manufacture has placed Avon Protection at the heart of numerous national defense and tactical Personal Protective Equipment (PPE) deployment strategies.

Avon Protection's expanding global client base now includes military forces, civil and first line defense troops, emergency service teams and industrial, marine, mineral and oil extraction site personnel. All put their trust in Avon's advanced respiratory protection solutions to shield them from every possible threat.



It has built up a unique capability in this area based on a range of advanced CBRN technologies in respirator design, filtration and compressed air breathing apparatus. With new conflicts and growing threat scenarios creating additional daily risks for individuals in military, law enforcement, first responder and emergency service applications, Avon maintains a global market leading position by investing in continual research and development to meet changing operational requirements.

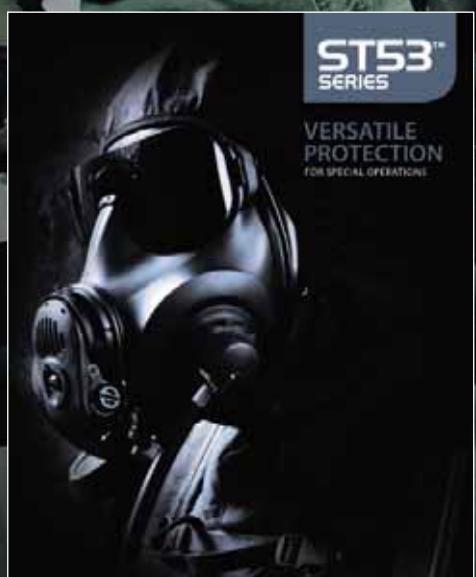
## Military CBRN Respirators and Masks

Avon Protection offers a comprehensive range of CBRN Respirators/Masks that have been designed to cope with the fiercest challenges from specific CBRN situations that face today's military and first responders.

Each solution has been developed for the operational user when in a high risk environment. In terms of actual benefits, all of Avon's respirators are quick to don, comfortable to wear, provide the highest protection factor, enable the user to have a wide field of view and include a communications port compatible with all current specialist radio systems. They

also come in multiple sizes, are robust and easy to decontaminate and maintain. In terms of the respirators themselves, they include:

**50 Series of Military Mask/Respirators**  
The 50 series is the most comprehensive set of respiratory solutions on the market today. Through this range, Avon has introduced novel ground breaking technology to the industry with features such as a wide panoramic optically correct flexible polyurethane visor for maximum field of view and enhanced weapons compatibility.



Included in the 50 series are the FM50 (a military mask), the C50 and FM53.

## The C50 General Service Masks

The C50 General Service Mask was developed in line with the latest NATO requirements, and has achieved both CE and NIOSH CBRN certification. It gives the user unprecedented levels of protection, comfort and versatility in the most hostile of environments.

It offers full integration with helmets, CBRN protective clothing and communication systems. With the appropriate filter, the C50 can protect against a wide range of CBRN threats including chemical warfare agents, toxic industrial chemicals and materials, biological and radiological hazards and riot agents.

## The FM53 Respirator Mask

The CE approved FM53 is the only mask of its kind, offering users the highest levels of versatility, comfort and protection. It features a lever which allows the wearer to easily switch between negative (filter) and positive (SCBA) pressure with a simple operator movement. Its unique shape allows for the easy incorporation of a helmet interface, and it includes a superior communication interface allowing dual coms and VPU use, as well as an ability to be used with SCBA, PAPR and filters.

It also includes a drinking system that is capable of drawing half a litre of water in three minutes to rehydrate the specialist user during periods of high intensity workloads. With the added benefit of CE certification, users from both the military and civil sectors now have a multifunctional mask that they can use in any given CBRN situation without the need to change equipment.

## The ST53 Multi-role Respiratory System

The CE approved ST53™ is the most technically advanced respiratory system on the marketplace today, and is now available to civilian organizations such as police forces and emergency response teams. The ST53™ offers a selection of respiratory possibilities when in the heat of a threat scenario.

With the FM53 at its heart, and a choice of short (seven or 14 minutes) or long duration (up to approximately 60 minutes) compressed air cylinders, it is possible to enter a location on filter mode, assess the situation, and then



change to SCBA mode if the need arises without having to leave and change equipment. With a range of accessories available as well, it is the perfect versatile system for building and confined space entry where the threats are unknown.

## FM12 CBRN Respirator

The FM12 is one of Avon's legacy masks, and is probably the most widely used respirator across the world by military and law enforcement organizations. It provides high levels of respiratory protection against both classical chemical warfare agents and toxic industrial materials.

It has CE and NIOSH accreditation, and is the mask of choice for the Quick Don CBRN ensemble – a complete CBRN personal

protection equipment suit for the UK police that can be donned in five minutes.

## The NH15 Emergency Respirator Hood

The NIOSH approved NH15 is the smallest single use Emergency Hood on the market. It gives the wearer a high level of respiratory, eye and face protection against all airborne CBRN threats and liquid agent splashes for a minimum of 15 minutes, enabling users to evacuate from a contaminated area. The clear material it is manufactured from has been designed to aid the wearer with recognition of other people and objects as well as allow for superior visual communication. Finally, the NH15 is compact, easy to don and has the ability to be stored in a glove compartment, in desk drawers or worn on a utility belt, allowing easy access and therefore an effective response.



# MANUFACTURERS OF OUTSTANDING DECONTAMINATION EQUIPMENT

As a manufacturer of decontamination equipment, OWR has been setting the standards for CBRN defence and civil protection for more than 50 years. Using modern techniques and user-friendly application systems, OWR develops and builds efficient mobile decontamination solutions for its customers, offering them a complete service from product development to training and after sales service. With a full range of products ranging from small hand-held spray applicators such as the Cobra, to the containerised multi purpose

decontamination systems such as the MPD 100i, OWR can offer a solution to fit the needs of the customer, and with a design team constantly developing new and innovative products, OWR is setting the standards for the future of decontamination and helping to provide a safer and more certain future for the world.

## Compact Decontamination Equipment **COBRA** Decontamination Spray Unit

The COBRA is a 0.4 ltrs decontamination spray unit used for emergency decontamination or disinfection. Giving a spray area of approximately 11m<sup>2</sup>, the COBRA can be filled with any liquid decontamination or disinfection solution and has been developed in close cooperation with both military and civil customers as part of their personal protective equipment for CBRN operations. The hand held unit contains a patented pressure pump system with

which the operator can quickly creates a pressure to allow the liquid to be sprayed. The COBRA has a metal stainless steel body and chemical resistant seals and requires no special preparation before use. The COBRA comes either as a stand alone unit supplied with a carrying bag which clips to a belt, or can be incorporated into kit supplied in a robust plastic carry case. Light, Transportable Thermal Fogging System - DECOFOG

The Decofog is a light, transportable thermal fogging system designed to apply decontamination solutions as a fog. It is simple to use, has no mechanical parts and can be set up for use in seconds. Based on "jet-engine technology" it uses hot air to vaporise a solution and turn it into a fog with particles of 1 to 4 microns. The Decofog is robust and been designed to be operator friendly with large grip handles. It is supplied standard with an operators harness and metal travel case. Using chemically resistant parts it is suitable for use with aggressive chemicals and needs little maintenance. The Decofog is used by multiple NATO countries and has the NATO Stock Number NSN 4230-01-499-5612.



## Decontamination and Disinfection Fogging Device - FOGBOOSTER

The FOGBOOSTER is the new generation of decontamination and disinfection fogging devices. By using compressed air combined with an especially designed nozzle, decontamination or disinfection fluid is microscopically atomized to form particles on a micro-scale basis to produce a highly effective dry mist or fog. The FOGBOOSTER produces a micro-film mist which covers all surfaces and gets into all gaps and joints, detoxifying or decontaminating all surfaces. The Fogbooster is lightweight (approx 6 kg) quiet and highly mobile and can either use standard compressed air bottles or a compressor to run.



still running. The unit is ready to use within 1 minute and needs only to be switched on. Multi Purpose Decontamination System - DEDAS

demonstrated in Fukushima, Japan and was successfully used to clean vehicles, equipment and external surfaces of radiation.

## Fast Response Mobile Decontamination System - SMGD RACCOON

The SMGD has been designed as a fast response mobile decontamination system. Completely self contained with its own generator, diesel and decontamination solution tanks, it is a compact decontamination unit for the application of water-free decontaminants when decontaminating vehicles, large equipment, infrastructure, roads and high-value equipment. The system is based on a low pressure spraying system and comes complete with decon spray lances and an independent high pressure cleaning unit for pre-cleaning.

The generator of the SMGD creates enough power to run the decontamination system and provide external power for the independent sprayer and lights. Designed to be transported to the decontamination site on a pick-up, once un-loaded it can be easily moved easily by one person whilst



The DEDAS is a universal mixing unit which can be programmed to mix all commercially known decontamination solutions. The patented low-pressure system allows the mixing of emulsions, foam and diluted solutions for decontamination purposes, in either small or large quantities. It has a capacity of up to 200l/min and can even be used with seawater. The DEDAS can be used as a stand-alone unit but is used as the heart of the OWR MPD 100 multi purpose decontamination system.

## SURF-EX Decontamination Unit

The SURF-Ex is a decontamination unit which uses industrial vacuuming technology combined with a spray-extraction system to clean and decontaminate surfaces of CBRN, HazMat and explosive material. The SURF-Ex can be used to vacuum all types of dry hazardous dust without danger to the operator due to its comprehensive filtering and dust collection system. Its can also be used to clear up liquids and uses a spray-extraction system to decontaminate and clean surfaces of hazardous and dangerous chemicals. By using GD-6 with the spray extraction system, the surfaces of sensitive equipment can be decontaminated without risk. Using comprehensive selection of inter-changeable vacuuming and spray heads ensures that the SURF-EX can be used to tackle multiple decontamination tasks.

The SURF-EX was successfully

## Multi Purpose Decontamination Units - MPD

The Multi Purpose Decontamination Unit or MPD is a complete decontamination system Contained in a 20ft ISO container a standard unit can decontaminate 120 persons per hour, 20 light vehicles per hour, or 6000m<sup>2</sup> of terrain decontamination. Despite its large capacity, the MPD100 is a highly mobile unit containing 3000 ltrs of water and can be operated using 4 personnel.

**The MPD 100** has recently been upgraded to include the UAM (Universal Application Module). The MPD 100i can apply ready mixed decontamination solution using low pressure technology and offers an enhanced decontamination capacity.

## GD-6

The decontamination solution GD-6 is a ready to use patented decontamination solution which is used to decontaminate chemical warfare agents. It is especially effective when used with OWR low pressure application technology, but can be used with any spray unit and fogging units.



**SPECIAL  
FEATURE**

# **TRAINING & SIMULATION**

# ARGON™

World leaders in CBRN/  
HazMat training systems

Argon Electronics (UK) Ltd



# HIGH-FIDELITY SIMULATORS FOR CHEMICAL, BIOLOGICAL, RADIOLOGICAL NUCLEAR & HAZMAT TRAINING

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

## Simulators to Enhance CBRN Training

Argon's advanced CBRN simulation platform enables you to create multiple simulated hazards over time within the same exercise, enabling students to practice how to use a number of different simulated detector technologies.

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

In use by many Military, First Responder, and Nuclear emergency response teams, training facilities, specialist groups and industrial organisations worldwide, our CBRN training systems are making a real difference to response planning and preparedness.



## Chemical Warfare - HazMat Training Simulators

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

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

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

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

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

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

## Radiological Training Simulators

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

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



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

## PlumeSIM Wide Area Instrumented CBRN

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

- Planning: lets you prepare your exercise without the need to use any simulation system infrastructure
- Table top mode: allows students to practice

their skills in a semi virtual world without leaving the classroom

- Field exercise mode: our advanced player is worn by the student to track their movements in real-time while driving the simulators with the CBRN scenario you have created
- After action review: you can replay all player movement, threat readings and mistakes made throughout the exercise to discuss how effectively your students carried out their mission and define areas for improvement

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

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



**ARGON™**

World Leaders in CBRN/  
HazMat training systems

# Argon CBRN Response Training

## Simulators bring realism to Bristol Police training exercise



Argon Electronics' range of CBRN response training simulators has brought a degree of realism that has significantly enhanced training at an exercise staged for police in the South West of the United Kingdom. The Argon equipment was supplied by the Police National CBRN Centre at Ryton-on-Dunsmore in Warwickshire, which oversees the Police's capacity and capability to deal with CBRN incidents, and was a highly valuable tool in the exercise as a means of improving the quality and value of training.

### **CBRN Response Training Simulators**

#### **Setting the scene**

The Avon and Somerset police used the simulators for a training exercise held at the Bristol City football ground. The premise of the exercise was that the police were present to provide security and safety at a half marathon charity event in support of military charities, starting and finishing at Bristol City Football Club. The inventory comprised a variety of CBRN training simulators, including Argon's PlumeSIM™ system, which enables a single instructor to configure simulated chemical and radiological releases across a wide area, and then to monitor and manage multiple trainees in real time from a central location.

For the purpose of the exercise, advance intelligence had suggested that some chemical weapons had been smuggled out from Syria for possible terrorist use in the UK. Police were also informed of a known active Syrian community in Bristol with

both pro and anti-government factions represented and told that tensions in the area had been apparent for some weeks.

#### **Carrying out the exercise**

On the day itself, organisers arrived early to plan the full day in detail, which played a key role in the success of the training. Had the trainees arrived and been forced to wait while organisers spent the first two hours planning they would have lost focus. The emergency services may face many occasions in real life where planning isn't possible, but there are often many incidents where advance intelligence tells the Police to expect an incident. The premise of the pre-planned exercise carried out at Bristol City Football Ground was that the Police force had received advance intelligence that something was possibly going to happen and on this occasion the organiser's pre-planning supported the event and the premise.

Realism was introduced at every opportunity. The release of agents took place while the commanders were still delivering their briefings, at which point two smoke machines went off and a hundred people started screaming. The training was not only physical, where trainees gain familiarity with the equipment, but also emotional. The purpose of this was to enable trainees to cope effectively with a frightening scene to be prepared for a real life situation. To the trainees listening to the briefing who may have been relaxed and waiting for the training to begin shortly, the sudden sound of a hundred people screaming and the sight of smoke billowing out of the stadium immediately put them into an alert and focused frame of mind. This ensured that everyone – the police included – reacted to the circumstances as if it was a real life emergency. This realism was supported by the use of the Argon equipment, which enabled the

trainees to start trying to locate the source immediately as if in a real life situation.

#### **Benefits of Electronic Simulators**

The quality of this training exercise was enhanced by electronic simulators, which support emergency services with preparations for situations similar to real life. For training organisers the alternatives to electronic simulators are live simulants, such as deep heat, but exercises can become unrealistic as training personnel have to be so close to these to get a detector reading. With Argon equipment the police were able to simulate a faraway plume, which is similar to how it would be in a real incident. Another alternative is to simulate particular forms of contamination with special liquids, however simulated substances don't lend themselves to repeated training, as they cause lasting contamination. A key advantage of electronic detector simulators is that they look, feel and function exactly like the real detectors but respond to safe electronic sources. With electronic simulation equipment the trainees can realistically carry out their roles without risk of harm or damage to themselves, other participants, their equipment or the environment.

Trainees learn more effectively from practical training, which is why electronic simulators are so important in successful CBRN training as they offer the opportunity to put learned knowledge into practice.

# FULL-SIZE REPLICA AIRCRAFT, NAVAL AND MARINE FIREFIGHTING SIMULATORS





## MILITARY AND MARINE FIREFIGHTER TRAINING

HAAGEN is a global leader in the design, development and construction of the largest and most advanced fire training systems, buildings and complexes. We have provided advanced fire training simulators worldwide to major military forces, navy and marine clients for over 25 years.

HAAGEN's training systems provide live fire simulation of fire fighting scenarios that are likely to be encountered by various military and marine organisations. Our aircraft fire and rescue props can range from first stage fire scenarios for cabin crew training, engine, gear and wing simulators, to full scale wide body aircraft training systems. Our marine fire training systems include simulated marine environments within a training building, to actual full scale marine vessels.

Naval and Military organisations trust HAAGEN fire trainers because of their rugged reliability and ability to be used in the most demanding environments.

For more information, visit us at [www.haagen.com](http://www.haagen.com)



# HAAGEN®

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or visit [WWW.HAAGEN.COM](http://WWW.HAAGEN.COM)

# The FireSim™ Fire Truck Driving Simulator provides high fidelity real-world driving environments to train decision-making and behavior over a wide range of situations facing your emergency vehicle operators every day.

## **The FireSim™ Fire Truck Driving Simulator**

The Sim Commander allows the driver to navigate through the training program via touch screen, freeing up the resources of the trainer. Wireless remote control combines the most commonly used features of the OpCon / (IOS) and SimCommander all in the palm of the instructors hand.

## **Fire truck driving simulator benefits:**

- Customize for any type of firefighting trucks, aircraft rescue and firefighting (ARFF) vehicles, or EMT vehicles
- Realistic driving environments train drivers how to recognize and anticipate hazardous driving situations (180° view, using 3-channels, with 1024 x 768 image resolution)
- High refresh & update rates provide smooth image flow during any drive, at common speeds, creating comfortable training environments
- Glass dash in the driving simulator adds greater flexibility in replicating various types of vehicles gauges
- SimCommander provides a user-friendly environment, via a touch screen, from which the instructor controls the training process
- Truck like training environment; seat, steering wheel, brake, clutch and accelerator pedals, enhancing retention and application to the road





RADIATION TRAINING SIMULATORS

# SUPPLYING QUALITY SIMULATED RADIATION TRAINING EQUIPMENT SINCE 1988.

Teletrix has been supplying training programs and industry professionals with quality simulated radiation training equipment since 1988.

As the leading manufacturer of Radiation Training Simulators in the United States, Teletrix has developed numerous products as a result of extensive customer interaction, survey and feedback. Our customers have asked to be provided with the most realistic training scenarios possible without exposing their trainees to radiation. They want to "train as they work" experiencing the full functionality of instruments rather than the short physical detection range offered by the use of real meters and low-level sources. Teletrix responded with a line of instruments that replicates the real world through remote control and simulation.

## RADIATION TRAINING SIMULATORS

### Simulated Radiation Detection Probe Paks – Model SP900

#### Radiation Detection Probe Pak Overview

Radiation Probe Paks are attachable training aids that offer the ability to produce apparent radiation readings on actual radiation meters without using radiation sources. Connected directly to the detector input, simulated radiation readings are produced for trainees on operating meters heightening realism and hands-on practical learning in a completely safe, source-less environment.



- No radiation exposure for safe training

#### Benefits

- Used with actual radiation meter inventory
- Allows for meaningful, tactile manipulation of controls and interpretation of indications
- No limitations to the scope of training and exercises
- Simulated exposures are as extreme as desired in a completely safe environment
- High degrees of realism in training and exercises
- Trainees and instructors receive absolutely no exposure and subsequently no dose
- Supports practical learning objectives

#### Features

- A radiation detection/protection training aid
- Seamless integration with actual radiation meters
- Creates a hardware radiation meter simulator while attached to radiation meters
- Produces seemingly real radiation readings on metering hardware
- Wireless RF remote control creates desired radiation levels



#### Applications

- Demonstrating frisking technique for radioactive contamination
- Teaching methods for monitoring of

- radiation fields
- Demonstrating effects of Time, Distance and Shielding
- Field exercise monitoring and frisking
- Evaluation of the mastery of the use of radiation meter hardware

## Radiation Detection Training Simulators – TXR Series

### Simulated Radiation Meter Overview

TXR Series Simulated Radiation Meters are model-specific, simulated replicas of actual radiation meters that produce apparent radiation readings without using radioactive sources.

Considered dedicated training inventory these simulators replicate original equipment manufacturer models. Functionally equivalent to these actual meters the simulators respond to directed input via wireless RF remote control. The simulators provide trainees with unprecedented full-range realism to practical training without exposure to live sources. Via remote control the entire indicating range of a meter is only a knob turn away.

### Features

- A radiation detection/protection training aid
- Manufacturer-specific, operating replicas of actual radiation meters
- 50+ various models available
- Produces seemingly real radiation readings on simulated metering hardware
- Entire indicating range of the simulated meter is covered
- Fully simulated features such as beta window functionality, ranging, response, audio, etc...
- Wireless RF remote control creates desired radiation levels
- No radiation exposure for safe training

### Benefits

- Dedicated training inventory that supplants the use of actual radiation meters in training
- No regular maintenance required as with actual metering inventory
- Allows for meaningful, tactile manipulation of controls and interpretation of indications
- No limitations to the scope of training and exercises
- Simulated exposures are as extreme as desired in a completely safe environment
- High degrees of realism in training and exercises
- Trainees and instructors receive absolutely no exposure and subsequently no dose



- Supports practical learning objectives

### Applications

- Demonstrating frisking technique for radioactive contamination
- Teaching methods for monitoring of radiation fields
- Demonstrating effects of Time, Distance and Shielding
- Field exercise monitoring and frisking
- Evaluation of the mastery of the use of radiation meter hardware

- User-variable alarm setpoints for DOSE and RATE
- Extreme DOSE and RATE indications are achieved thru simulation with no exposure
- Works stand-alone or seamlessly with Teletrix TXR Series Simulated Meters and SP900 Radiation Probe Paks
- Wireless RF remote control creates desired RATE levels which are real-time integrated into DOSE
- No radiation exposure for safe training

### Benefits

- Dedicated training inventory that supplants the use of actual dosimeters in training
- No regular maintenance required as with actual dosimetry inventory
- Allows for meaningful, tactile manipulation of controls and interpretation of indications
- No limitations to the simulated DOSE accumulated in training and exercises
- Simulated exposure RATES and DOSE accumulation are as extreme as desired in a completely safe environment
- High degrees of realism in training and exercises
- Trainees and instructors receive absolutely no exposure and subsequently no dose
- Supports practical learning objectives

## Electronic Alarming Dosimeter Simulators – SD900 Series

### Simulated Alarming Dosimeter Overview

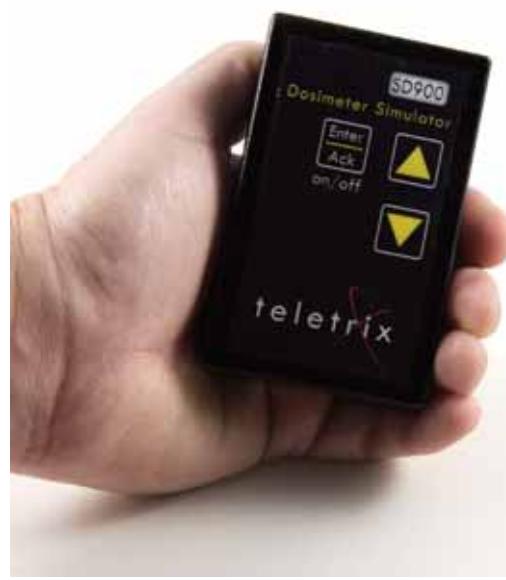
The use of alarming dosimeters has expanded the training scope to include the understanding and acknowledgment of DOSE and excessive RATE. Employees need to learn what impact that time spent in and near radioactive sources and fields has on accumulated dose in practical applications. The SD900 Simulated Alarming Dosimeter is designed specifically for this need. The SD900 is designed to resemble a typical dosimeter. Its operating characteristics can be customized to reproduce alarm functions, patterns and tones specific to an original equipment manufacturer dosimeter. Variable output remote controllers used to direct the SP900 Probe Paks and TXR Simulated Meters are also used to direct the dosimeter.

### Features

- A radiation detection/protection training aid
- Integrates DOSE from simulated rate exposure
- Creates both simulated DOSE and RATE readings
- Alarms individually on accumulated DOSE and detected RATE

### Applications

- Demonstrating the practical accumulation of DOSE
- Teaching methods for DOSE accumulation
- Demonstrating effects of Time, Distance and Shielding on DOSE accumulation
- Field exercise implementation of DOSE-related processes
- Evaluation of the application of DOSE-reducing practices and methods



# Radiation Release Emergency Drill Training – Virtual Plumes

## Virtual Plumes Overview

Virtual Plumes is computer program used to enhance the development scenarios for Radiation Plume Release Emergency Preparedness drills and then play those scenarios out in real time with field teams that will be using Teletrix Simulated Radiation Meters, Radiation Probe Paks and Simulated Alarming Dosimeters to read simulated radiation exposure rates and accumulated DOSE.

Generate a dynamic plume model on a Windows-based laptop. Place the laptop in the field team vehicle. Using GPS to locate the field team during the exercise, operate Teletrix Simulators which produce dose rate readings and accumulate DOSE and force reactions from the field team as they traverse the virtual plume model seeking to identify its centerline and extents. The team trains in the same way that they would be expected to work in a real radiation-related plume release emergency.

## Features

- A training aid for the execution of realistic radiation plume release exercises
- Model a dynamic, virtual radioactive plume around a release point for virtual field detection
- Creates simulated radiation readings based on detected position within the virtual plume
- Automated dynamic execution of the plume model and the radiation readings being generated
- All functions and hardware are local to the field team being sent to detect the virtual plume
- All indications within the virtual plume are achieved thru simulation with no exposure
- Works seamlessly with Teletrix TXR Series Simulated Meters, SP900 Radiation Probe Paks and SD900 Simulated Alarming Dosimeters
- Wireless RF remote control creates desired radiation readings on Teletrix Simulators based on GPS-based position of the field team within and around the virtual plume
- Ground deposition hotspots can be generated along with the virtual plume
- Virtual Plumes software is free-ware
- No radiation exposure for safe training

## Benefits

- Easy, fast modeling of virtual radiation plumes
- Realistic, reliable, automatic execution of



plume release drills

- Heighten the realism presented to field teams in radiation plume drills and exercises in a hands-on training environment
- Allows for meaningful interpretation of radiation meter indications and resulting required actions
- No limitations to the magnitude of radiation exposure in the virtual plume
- Simulated exposure RATES and DOSE accumulation are as extreme as desired in a completely safe environment
- Trainees and instructors receive absolutely no exposure and subsequently no dose

## Applications

- Demonstrating efficient methods for plume detection
- Training on field team procedures and practices during plume release emergencies
- Evaluation of field team effectiveness during a radiation plume release emergency
- Demonstrating effects of Time and Distance on exposure and DOSE accumulation
- Evaluation of the application of DOSE-reducing practices and methods while detecting a radiation plume

# Small Article Monitor Simulator – Sam Trainer System

## SAM Trainer System Overview

The Small Article Monitor Trainer System from



Teletrix is a first of its kind, full-size, hardware training simulator designed specifically to reproduce the operation of an actual SAM in detecting potential radioactive contamination without using radiation sources.

Generate any result that an actual SAM may generate such as CLEAR, ALARM, HIGH ALARM states as well as background baseline, residual contamination detection as well as abnormal states of operation. The ground-breaking SAM Trainer System allows for the operation of SAM hardware with tactile, audible and sensory feel of an actual SAM in a completely safe training environment with no exposure to radiation.

## Features

### SAM Simulator

- Full-size operational hardware simulation
- Lead-free, full-size replica at <500 pounds weight
- Single and 2-door models available
- Genuine alarm tones and indicators
- Variable full-range contamination levels
- Safe, realistic operation without using radioactive sources

### SAM Trainer Control System

- SAM Trainer Control Console is the hub of operations for scenario development and training
- Wireless remote control of the SAM Simulator via the computer control console
- Mobile tablet computer option for training sessions
- SAM Training System Software provides straightforward instructor scenario development and simulator operation
- Instructors operate the simulator with automated preset scenarios or manual control
- Via two-way communications, all simulator operations are returned to and viewable at the computer control console

## Benefits

- Add source-free realism to hands-on training on SAM operation
- Increase performance evaluations of proper SAM operation
- Allows for meaningful interpretation of SAM indications and resulting required actions
- Reduce free-release incidents from radiation controlled areas
- Heighten contamination awareness and subsequent consequence
- No limitations to the magnitude of contamination detected
- Trainees and instructors receive absolutely no exposure and subsequently no dose
- Enhance ALARA program effectiveness
- Improve workforce safety and efficiency

## Applications

- Demonstrating SAM operations, both CLEAR and ALARM
- Teaching proper method for monitoring controlled area small articles
- Evaluation of the mastery of procedures when contamination is detected in controlled areas

# Portal Monitor Simulator – PM Trainer System

## PM Trainer System Overview

The Portal Monitor Trainer System from Teletrix is a first of its kind, full-size, hardware training simulator designed specifically to reproduce the operation of an actual PM in detecting potential radioactive contamination on personnel without using radiation sources.

Generate any result that an actual PM may generate such as CLEAR, ALARM, HIGH ALARM states on varying detector areas as well as background baseline, residual contamination detection as well as abnormal states of operation. The ground-breaking PM Trainer System allows for the operation of PM hardware with tactile, audible and sensory feel of an actual PM in a completely safe training environment with no exposure to radiation.

## Features

### PM Simulator

- Full-size operational hardware simulation
- Lead-free, full-size replica
- Walk-Thru as well as Stand & Count operational modes
- Variable contamination detector alarms
- Genuine voice commands, alarm tones and indicators
- Safe, realistic operation without using radioactive sources



## PM Trainer Control System

- PM Trainer Control Console is the hub of operations for scenario development and training
- Wireless remote control of the PM Simulator via the computer control console
- Straightforward instructor scenario development and simulator operation
- Instructors operate the simulator with automated preset scenarios or manual control
- Via two-way communications, all PM Simulator operations are viewable at the PM Trainer Control Console
- Mobile tablet computer control option for training sessions

## Benefits

- Reduce free-release incidents of personnel from radiation controlled areas
- Heighten personnel contamination awareness and subsequent consequences
- Increase performance evaluations of proper PM operation
- Add source-free realism to hands-on training on PM operation
- No limitations to the magnitude of contamination detected or number of detectors to alarm
- Trainees and instructors receive absolutely no exposure and subsequently no dose
- Enhance ALARA program effectiveness
- Improve workforce safety and efficiency

## Applications

- Demonstrating PM detection operations, both CLEAR and ALARM results
- Demonstrate PM use variations such as STAND & COUNT, WALK-THRU and bi-directional use
- Teaching proper method for monitoring controlled area release of personnel
- Evaluation of the mastery of procedures when contamination is detected on personnel in controlled areas

# Personnel Contamination Monitor Simulator – PCM Trainer System

## PCM Trainer System Overview

The Personnel Contamination Monitor Trainer System from Teletrix is a first of its kind, full-size, hardware training simulator designed specifically to reproduce the operation of an actual PCM in detecting potential radioactive contamination without using radiation sources. Generate any result that an actual PCM may generate such as CLEAR, ALARM, HIGH ALARM states as well as background baseline, residual

contamination detection as well as abnormal states of operation. The ground-breaking PCM Trainer System allows for the operation of PCM hardware with tactile, audible and sensory feel of an actual PCM in a completely safe training environment with no exposure to radiation.

## Features

### PCM Simulator

- Full-size operational hardware simulation
- Front-only or both-sides monitoring mode
- Simulated Alarm Zones for Beta, Gamma and Alpha
- Variable contamination detector alarms
- Genuine voice commands, alarm tones and indicators
- Safe, realistic operation without using radioactive sources

## PCM Trainer Control System

- PCM Trainer Control Console is the hub of operations for scenario development and training
- Wireless remote control of the PCM Simulator via the computer control console
- Straightforward instructor scenario development and simulator operation
- Instructors operate the simulator with automated preset scenarios or manual control
- Via two-way communications, all PCM Simulator operations are viewable at the PCM Trainer Control Console
- Mobile tablet computer control option for training sessions

## Benefits

- Reduce free-release incidents of personnel from radiation controlled areas
- Heighten personnel contamination awareness and subsequent consequences
- Increase performance evaluations of proper PCM operation
- Add source-free realism to hands-on training on PCM operation
- No limitations to the magnitude of contamination detected
- Trainees and instructors receive absolutely no exposure and subsequently no dose
- Enhance ALARA program effectiveness
- Improve workforce safety and efficiency

## Applications

- Demonstrating PCM detection operations, both CLEAR and ALARM results
- Demonstrate PCM use variations such as FRONT-ONLY and BOTH SIDES
- Teaching proper method for monitoring controlled area release of personnel
- Evaluation of the mastery of procedures when contamination is detected on personnel in controlled areas



# 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.





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# FAUN Trackway Lands New Order From Denmark



FAUN Trackway has secured a significant order from the Danish Defence Acquisition and Logistics Organisation (DALO) for its portable roadway systems.

## **MGMS-BD LITE**

Denmark is the first country to place an order for a number of FAUN Trackway's latest product, the Medium Ground Mobility System – Beam Dispenser LITE (MGMS-BD LITE).

The MGMS-BD LITE was developed following extensive consultations with the Danish armed forces, who specified that they required an adaptable product that would be compatible with the existing roadway systems it held in its inventory. MGMS-BD LITE can be fitted to a wide range of front-end loader vehicles to facilitate the rapid deployment and collection of MLC 30 Trackway which is capable of withstanding loads of up to 30 tonnes. The Trackway is used to help vehicles traverse difficult terrain, and is particularly suitable for beach landings. For armed forces whose operations take them into constricted spaces, FAUN Trackway has also developed the MGMS-BD. This system features a 180 rotating

head, allowing the plant to fit through smaller gaps to further aid manoeuvrability.

As well as the MGMS-BD LITE, DALO's order includes FAUN Trackway's Heavy Ground Mobility System (HGMS) and Spoolracks.

Fitting to the chassis of a vehicle, the HGMS can dispense (Military Load Classification) MLC 70 Trackway via a hydraulic spool. A length of roadway can be deployed by two men in six minutes. Each Spoolrack is used to store and transport additional lengths of Trackway, which can then be easily transferred to the Trackracks ready for deployment through an easy-to-use spool-to-spool system.

Chris Kendall, Director at FAUN Trackway, said: "This contract with DALO is an excellent example of FAUN Trackway collaborating with its partners to create added value. Our conversations with DALO identified that they needed a single system that could be adapted to deploy Trackway already held in stock – a brief that FAUN's team of talented engineers was expertly able to meet with the

creation of the MGMS-BD LITE.

"With an ongoing squeeze on defence budgets, the MGMS-BD LITE's flexibility, light weight, and competitive cost make it a compelling option. We're also anticipating demand in the civilian markets from utilities, construction and mining, as a competitively-priced way of laying temporary matting that will level and protect the ground below."

A spokesperson from DALO, added: "We were impressed by the manner in which FAUN Trackway approached our initial brief, and the ease and speed in which the team went from concept to design to fully-functioning prototype. We are confident that with this order we will significantly enhance our capabilities in difficult environments."



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# Further Shelters for UK GEOINT System from Marshall

Further shelters for the UK Ministry of Defence's new battlefield Geospatial Intelligence (GEOINT) System will be entering service shortly following the award of a follow on contract from prime contractor Lockheed-Martin UK, leader of Team SOCRATES, to Marshall Aerospace and Defence Group.

## Field Deployable GEOINT

The follow on contract for Team SOCRATES provides additional Field Deployable GEOINT (FDG) systems including a Forward Map Distribution Point (FMDP), further Tactical Map Distribution Points (TMDP) and Tactical Information and Geospatial Analysis System (TIGAS).

"This follow on contract comes on the heels of the successful delivery and achievement of Initial Operating Capability (IOC) and confirms Team SOCRATES and

Marshall Aerospace and Defence Group's capability to build and integrate complex shelter systems," said Steve Fitz-Gerald, Chief Executive of Marshall Aerospace and Defence Group.

"At the core of our solution for the Team has been a common, modular design which can be easily expanded to meet future requirements," added Steve Fitz-Gerald.

FDG delivers a data centric, GEOINT management, discovery, dissemination and exploitation capability that addresses the deployable requirements of the UK's Joint Force Intelligence Group (JFIG), including the provision of mobile and manoeuvrable working environments at the tactical level. As part of Team SOCRATES Marshall ADG is responsible for the design, manufacture, fit out and integrated logistics for the shelters which house the systems, whether

TIGAS, TMDP or FMDP. The TIGAS units are mounted onto MOWAG Duro 6x6 vehicles, whilst the other units are carried on the back of the MOD's Support Vehicle provided by Rheinmetall MAN Military Vehicles and fitted with load beds manufactured by Marshall ADG.

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



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# Northrop Grumman Upgrades Air Traffic Communication System at IWM Duxford

LONDON – April 28, 2014 – Northrop Grumman Corporation (NYSE: NOC) has announced that its U.K.-based air traffic management systems subsidiary Northrop Grumman Park Air Systems has upgraded the air traffic control voice communication system at IWM Duxford by providing it with a future-proof Voice over Internet Protocol (VoIP) capability.

A long-standing supporter of the IWM Duxford, Northrop Grumman Park Air Systems recently refurbished the Duxford Airfield tower with a fully ED137 compliant IP-based voice communications system. Integral to this refurbishment was the installation of the Park Air S4 IP Controller. Although already in operation in a number of non-U.K. locations, this is the first U.K. site to receive the Park Air S4 IP Controller. As a 'first of type' installation, Northrop Grumman worked closely with the Civil Aviation Authority's safety regulation

group to ensure that the S4 met their rigorous testing and safety requirements.

"We are delighted to be able to work with IWM Duxford to upgrade their communication system," said Charles Houseago, managing director, Northrop Grumman Park Air Systems. "We have an enduring relationship with this historic site and I am proud that our company has been able to bring them into the IP-era."

Helen Holliday, IWM Duxford's Head of Airfield and Security, expressed her delight with the new system, "May I say how very impressed I have been with the attention, cooperation and willingness of all parties involved in the process thus far to ensure a seamless transition. I can't praise the Park Air team enough in their professionalism and commitment to this project. It has been a pleasure to work with them and they are truly great ambassadors to the organisation."

Northrop Grumman Park Air Systems supplies communication systems for airspace operations worldwide.

Northrop Grumman is the sponsor of the American Air Museum Summer Residency Programme, a professional development project for teachers from the U.S. and the U.K. to explore World War II history and within it, the role of engineering and technology. The programme is run by IWM Duxford on behalf of the American Air Museum.

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in unmanned systems, cyber, C4ISR, and logistics and modernisation to government and commercial customers worldwide. Please visit [www.northropgrumman.com](http://www.northropgrumman.com) for more information.



# Will-Burt & GEROH to Exhibit at Eurosatory 2014



The world's premier providers of mobile elevation solutions will exhibit products in USA Pavilion Stand C587

## **June 3, 2014**

The Will-Burt Company along with sister company GEROH will be presenting the most advanced mobile elevation solutions on the market at the Eurosatory Land and Air Defence and Security Exhibition in Paris June 16 – 20.

The modern warfighter requires reliable, lightweight and accurate equipment to successfully complete their mission and Will-Burt and GEROH portable telescoping masts and towers deliver these benefits.

The revolutionary Will-Burt Stiletto carbon fiber composite, electro-mechanical mast with automatic locks features the best combination of high strength, low weight and great stability in the industry. With its low nested height and small space claim, Stiletto is the lightweight mobile solution for applications requiring rapid automatic deployment, maximum reliability and high directional pointing accuracy such as long-range surveillance and reconnaissance. The Stiletto is available in heights from 3m to 15m and can lift up to 180kg. The Stiletto is MIL-STD 810-F qualified and is in use by militaries throughout the world.

The GEROH Telescopic Spindle Mast SPM is used to enhance capabilities like

communication, security, surveillance, reconnaissance and detection of targets throughout the battlefield. The SPM is the ideal elevation solution for heavy payloads with large windsail areas. The SPM delivers precise pointing accuracy which is well-suited for optical electronic intelligence, monitoring, and target recognition. The SPM can reach heights of 18m and lift payloads up to 600kg.

Recently introduced by Will-Burt, the AntennaMast model AM2 is a rugged, lightweight, man-portable, aluminum tripod mast designed for rapid payload deployment. The AM2 is extremely flexible and reliable and is capable of elevating multiple devices on a single mast. An optional EZ Raze™ system with

cable winching device and safety brake enables the user to lift and lower heavier payloads in a safe and controlled manner without disassembling the mast system. The AM2 is available in heights from 2m – 15m and can elevate payloads of up to 45kg.



Several other high-performance masts from Will-Burt and GEROH will be on display at stand C587 in the USA Pavilion. Visit the highly qualified sales staff to review your needs and receive a personal demonstration.

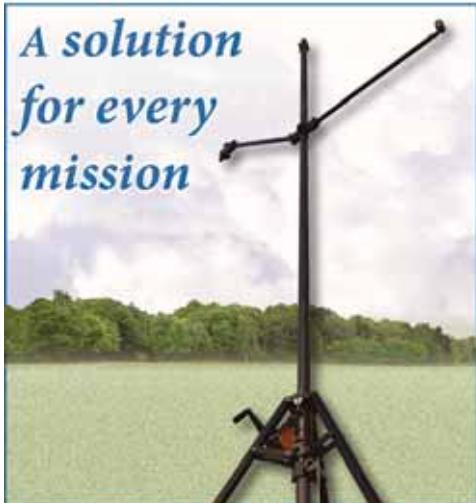
#### About The Will-Burt Company:

The Will-Burt Company ([www.willburt.com](http://www.willburt.com)), located in Orrville, Ohio, USA, is the world's premier manufacturer of mobile telescoping mast and tower solutions. We offer virtually every payload elevation and integration solution from the three top brands; Will-Burt, GEROH and Integrated Tower Solutions (ITS) – for military, fire, cellular, broadcast, entertainment and other applications. Will-Burt also designs and manufactures military and other shelters made of all-composite materials that deliver higher performance at lower life cycle cost than metal or partial composite shelters. Will-Burt's LINX security solutions provide integrated access control and intrusion detection certified to protect critical assets. Will-Burt offers a variety of metal fabrication and manufacturing services backed by an ISO 9001:2008 certified

quality system. Incorporated in 1918, Will-Burt is 100% employee-owned and is classified as a small business.



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A military vehicle, possibly an armoured personnel carrier or a similar tracked vehicle, is shown from a side-on perspective, driving away from the viewer. It is moving on a dirt road that cuts through a grassy, hilly landscape. The vehicle is light-colored and has a large, dark, textured rear section. A small orange traffic cone is visible on the left side of the road.

NEWS FROM MILLBROOK  
JUNE 2014

UK'S NUMBER ONE  
LAND EQUIPMENT  
SHOW RETURNS  
TO MILLBROOK...

# ...DVD, the most important event in the defence diary for those involved in land equipment and support, returns to Millbrook for the eleventh time this June.

Organised by Millbrook on behalf of the MOD's Defence Equipment and Support (DE&S) and Army HQ, the theme and backdrop of this year's event is showcasing the equipment and technology that might enable the Army of 2020, and how we can better support our equipment in the future.

DVD2014 will bring together the military, industry and the acquisition community for two

days of informal discussions, engagement with users, demonstrations and live displays.

Julian Bryan, head of special projects and vehicle groups at Millbrook commented: "Millbrook is delighted to be the venue of choice again for the eleventh DVD event. Industry has an important role to play in delivering the objectives of Army 2020 and value for defence, and DVD2014 is the ideal event to encourage

conversations on such topics.

"Over the years, Millbrook has built up a strong relationship with the MOD and Army, both through hosting this event and as the home of the Battlefield Mission, the UK MOD wheeled vehicle sign-off benchmark."

For further information and to register to attend DVD2014 visit [www.theevent.co.uk](http://www.theevent.co.uk)

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# NCT CBRNe Europe

2- 3 September 2014

NCT CBRNe Europe 2014 - Westin Leipzig, Germany

IB Consultancy is proud to welcome you to the 2nd edition of NCT CBRNe Europe. On September 2-3, we will again welcome Europe's CBRNe community to the #1 CBRNe event series in the world at the Westin Leipzig in Germany. Learn from our expert speaker panel and network with our delegates from the CBRNe community. With delegates from the EU, Central Europe, Caucasus and the Middle East, NCT CBRNe Europe promises to be a great event!

## Event Highlights

- The leading CBRNe event in the world with previous editions in The Hague, Tel Aviv, Kuala Lumpur and Bangkok
- Two days of conference and trainings with high-level speakers from Europe, Caucasus and the Middle East
- Attendees, delegations and speakers from over 40 countries including Germany, Poland, Ukraine, Estonia, Hungary, Croatia, and many more
- NCT events are the undisputed best venues for high quality networking, meeting the people who matter
- Taking place at the 5 star Westin Leipzig

## Featured Speakers

**Colonel Henry Neumann**  
Commander, Bundeswehr CBRN Defence Command, Germany

**Professor. Dr. Iossif Bogdevitch**  
Research Institute for Soil Science and Agrochemistry, Belarus

**Colonel (Ret.) Ayhan Batur**  
Former Commander, CBRN School of the Turkish Armed Forces, Turkey

**Chaim Rafalowski**  
EU and Disaster Management Coordinator, Magen David Adom, Israel

**Dr. Dimitry Bazyka**  
National Research Center for Radiation Medicine, Ukraine

**Captain Massimo Pedemonte**  
C-IED and CBRNe Police Instructor, Italian National Police

**Dr. Heinz-Ulrich Glaser**  
Project Manager, Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support, Germany

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