

# MILITARY SYSTEMS

E T E C H N O L O G Y

## CMCA LTD

precision air-conditioning systems, environmental control equipment and power generation systems

## DEWEY ELECTRONICS CORPORATION

Military Diesel Generators and Auxiliary Power Units (APU) for Military Applications

## NORTHROP GRUMMAN PARK AIR SYSTEMS

VHF and UHF ground-to-air communication solutions

PLUS...

BREAKING NEWS FROM...

AVON  
DRASH  
TYPHOON  
VECTRONIX  
SURVITEC

SURVITEC SUPPLIES INTEGRATED PILOT FIGHT EQUIPMENT FOR F35 PILOTS, AS FIRST DELIVERY TO UK MOD IS MADE

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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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# CMCA

## PRECISION AIR-CONDITIONING SYSTEMS, ENVIRONMENTAL CONTROL EQUIPMENT AND POWER GENERATION SYSTEMS



CMCA specialises in the design and manufacture of precision air-conditioning systems, environmental control equipment and power generation systems for military applications. The company offers a range of equipment designed to operate in the most extreme environments on earth and can provide tailor-made solutions to customer's individual requirements.

### Three product divisions:

- Environmental Control Systems**
- Power Generation Systems**
- Electronics Systems**

Provide advanced solutions alongside a dedicated support mechanism, to deliver truly outstanding performance in the most testing of environments.

### Military Environmental Control Systems

CMCA specialises in the design and manufacture of precision air-conditioning systems and environmental control equipment and offers a range of equipment designed to operate in the most extreme environments on earth. Systems which routinely and reliably perform exactly to specification in environments so extreme that simple survival could be considered a success.

Systems ranging from mobile air-conditioning units designed to operate in ambient temperatures ranging from  $-46^{\circ}\text{C}$  to  $+58^{\circ}\text{C}$  to military packaged air-conditioning systems. Specifically designed for use in military vehicles which have to travel across rough terrain and operate in environments from the Arctic to the desert.

### Military Power Generation Systems

CMCA designs and manufactures electrical power generation equipment and

specialises in high-quality military mobile generators and auxiliary power units. Its products are state-of-the art, innovative and efficient electrical power systems which offer the customer the ultimate combination of performance, versatility and reliability.

All types of power-related products are supplied, such as generators ranging from 1 kW to 1 MW, onboard vehicle APU's (AC and DC), pumps, welders, mobile battery chargers and 28 V DC generators, aircraft starting units and ground power units as well as electrical distribution systems, splitter boxes and feeder pillars. Military shelter and container installations and refurbishments are also undertaken with Mobile Laundry Units a speciality.

## Military Electronics Systems

CMCA design and manufacture electronics systems to the highest RFI/EMC requirements and hardened to the demands of the harshest battlefield conditions, they can also be fully integrated with all other CMCA products including air-conditioning systems and generators.

The very latest diesel engines and alternators combine with purpose designed and built control panels to provide all of the functionality and performance sought by the customers' system specification.

Stand alone, bespoke PCBI microprocessor control and monitoring systems can also be supplied.



## Research and Development

With innovative, high-tech proprietary applications developed to satisfy specific customer requirements CMCA's design engineering teams ensure the company continues to offer ground-breaking technological flexibility.

The company has the expertise and equipment capability to carry out research, development, design and production of vehicle mounted and free standing electrical power generation, electrical distribution, lighting, air conditioning, dehumidification, heating and cooling equipment as well as vehicle and high mobility systems.

The latest 3D modelling engineering software is used for concept design and

analysis and in-house testing covers electrical function and safety, limited EMC, hot and cold chamber testing, audio noise testing as well as drop and topple/robustness testing.

And the close proximity of military test ranges enables off-road mobility testing and additional in-field audio noise testing. Integrated Solutions for Client Specific Requirements

From enquiry through technical design to manufacturing, integration, user training and product support. Innovation and creativity have been strong themes in the growth of CMCA. They are evident throughout the workforce and are critical to the continued success of the company. Through the ideas and energy of its people, the company offers integrated solutions for client specific applications and has grown on the principle of meeting the needs of its customers. Their ever-changing requirements are the driving force behind the development of its products, technologies and support services.

Whole life support packages, covering servicing, refurbishments and repairs are available to cover equipment from the minute a product leaves the factory to the end of its working life.

The company also offers environmentally controlled de-commissioning to safely retire equipment that is no longer needed.



# MILITARY DIESEL GENERATORS AND AUXILIARY POWER UNITS (APU) FOR MILITARY APPLICATIONS

The Dewey Electronics Corporation – Military Diesel Generators and Auxiliary Power Units (APU) for Military Applications. The Dewey Electronics Corporation, a publicly traded small business concern DEWY, located in Oakland, NJ is a leader in the design and manufacture of compact diesel powered portable generator sets and Auxiliary Power Units (APUs). Our 2kW Military Tactical Generator (MTG) family is the PM-Mobil Electric Power (MEP) type certified standard for US Military use. Dewey APUs provide power for silent watch applications and other custom uses on numerous military vehicles.



Dewey also provides a range of support products for our 2kW MTG including electronic control remote fueling pump kits and tactical quiet flexible soft covers. We also provide various power distribution equipment and power management technologies.

## 2kW Military Tactical Generator Sets (MTG)

The PM-MEP type certified MEP 95-501A (28VDC) and MEP 95-531A (120V AC) have been the standard man portable generators for the US DoD. Dewey has fielded over 17,000 of these units since 1996. These units operate on diesel 1, 2 or JP-8 fuels.

The MEP 95-501A (NSN 6115-01-435-1567) provides 2kW of 28V DC power. It weighs 148 pounds with 4 hours of fuel.

Man-portable 120V AC power is provided by the MEP 95-531A (NSN 6115-01-435-1565). This unit weighs 153 pounds and provides power for four continuous hours before requiring re-fueling.

Full rated operation within the temperature range of -25° F to 120° F the MTGs are the lightest type classified, fully logistically supported generators in the DoD inventory complete with full technical manuals, training and train the trainer support. These highly reliable units meet all Human Factor requirements and have an acoustic noise signature of 79dBA @ 23 ft.

Dewey also provides a 2kW, 28V DC generator that has been specifically designed to charge batteries. The DEWEY-501A-CL features a programmable current limiting voltage regulator that is custom programmed for the battery chemistry to properly charge unique battery types (lead acid, AGM, Lithium Ion, etc.).

The Electronic Control Remote Fueling Kit is a self contained system that when installed on the MTG activates when the fuel tank is 1/8 filled and pumps fuel from an auxiliary fuel can or other supply container to refill the fuel tank automatically. The leak free design is equipped with anti-siphon, check valves

and auto shut off to prevent spills and fault, run and power indication lights.

The NATO Adapter is a recent addition to the 2kW MTG accessory product line. It attaches to the MEP-501A MTG to provide a receptacle for the NATO plug. This adapter is available in a single or dual configuration.

## Military Auxiliary Power Units (APU)

Dewey is ever increasing our standard product line for APUs for military applications. Additionally, we provide customized APUs for unique applications in small and large quantities. Our engineering staff will work with you to provide the optimum solution to your auxiliary power generation needs.

## Battery Charger Auxiliary Power Unit (BAPU)

Selected by the USMC, our open frame generator set provides a full 4.5kW military rated 28VDC power supply suitable for vehicle APU use and battery charging under extreme temperatures. The unit features a current limiting programmable voltage regulator, redundant local and remote controls, and a self bleeding fuel system for vehicle or remote fuel tank interconnections. Based on our 2kW military heritage, this unit provides a simple power source that is lightweight yet highly reliable and easy to maintain.

## Enclosed Vehicle Power Supply (EVPS)

Recently selected by the USMC, this APU can be mounting in three positions (top, bottom and side) for optimum vehicle installations. The enclosed air cooled generator provides 4.0kW of 28V DC at 70° F and operates from -40° F to 130° F. The APU features a current limiting programmable voltage regulator that can charge various battery chemistries, redundant local and customized remote controls, and a self bleeding fuel system for vehicle or remote fuel tank interconnections. The engine operates on diesel and JP-8 fuels. This enclosed unit has a noise signature of less than 70dBA at 7 meters.



## 5kVA AC Auxiliary Power Unit

Developed initially to support one of our defense contractors on an USMC program, this open frame APU provides 240V, 60Hz, single phase power that can be used for motor or pump applications. An enhanced air filter system is provided for operation in a sandy and dusty environment. The unit is available to provide 120V, 60Hz, single phase power and also 3-phase outputs in voltages of 120 or 240. Optional equipment includes a cold weather starting kit and remote control panel.

## Custom Generator and Auxiliary Power Unit (APU)

Dewey provides custom designed, full military rated generators, and auxiliary power units that range in output from 2.0kW to 10kW and provide 28V DC, 120 VAC and 240VAC power. We offer remote start/stop capabilities, automatic start and stop for battery charging and provide enclosures that reduce the unit's noise signature to levels as low as 63dBA at 6

meters. These generators and APUs is available in open frame or enclosed configurations directly from The Dewey Electronics Corporation. Dewey can provide full engineering design, manufacturing, test and integration support for all your power generation needs.

## Power Distribution and Power Management

Power management and power control/conversion technologies are available from Dewey. We have developed automatic load banks that monitor and automatically switch loads on and off the generators to prevent "wet stacking". Our power converters (dc to dc) and inverter and control logic have been successfully employed in our other products.

We also offer control and monitoring designs for unique power applications such as pumps, motors, fuel cells/reformers and power electronics for military applications.



## Hybrid and Renewable Power Systems

Dewey Electronics has been integrating hybrid power into portable modular systems and now is providing trailer based power systems and hybrid generators for defense contractors that are integrated into their systems. These hybrid systems are capable of incorporating renewable power such as solar and wind.

batteries. The generator controller features current limiting, battery charging and battery monitoring auto start and stop digital controls. The enclosed unit is suitable for trailer mounting and provides a digital data bus for remote monitoring and control.

battery charger, inverters, and a control system that allows the deployment of the solar panels, automatic tracking of the sun without the need for GPS coordinates, and a wind sensor that automatically folds the solar panels into a safe position when wind speeds exceed safe operational parameters.

The trailer based system is HMMWV towable and designed for austere environments. It is capable of operating solely in a solar mode as successfully demonstrated at ExFOB 2011, as a hybrid system with the backup generator, or tied to grid power. This system can be deployed by two individuals in less than 30 minutes and provides significant reductions in fossil fuel use when compared to standard generators of equivalent power outputs.

## Modular Hybrid Electrical Power System (MHEPS)



Dewey Electronics and its partners, Essence Solar, Silver Eagle Manufacturing Company, and EnerSys, have produced a demonstration hybrid platform that incorporates solar generated electricity, an integrated backup military tactical generator, and battery storage all on a standard Lightweight Tactical Trailer (LTT). This system features a patent pending dual axis solar tracker with High Concentration Photo Voltaic solar panels that provide 25% more solar power than standard flat solar panels.

The current demonstrator is mounted on Silver Eagle's LTT with no modifications to the trailer. Dewey's 2kW Military Tactical Generator is also transported on the trailer and then placed on the ground for operation as the backup generator. It is commanded on when the batteries require charging and the Sun Spider cannot provide the power needed to charge due to time of day, weather conditions, or power demand.



## Portable Hybrid Power System

This system incorporates battery storage with a rugged inverter that is coupled with our battery charging 4.5kW 28V DC generator and packaged in man-portable containers. It provides the warfighter with a hybrid system that is capable of fuel savings of up to 50% when compared to standard generators. Introduce solar or wind and the fuel saving can be as much as 70%.

The enclosed 2kW Hybrid Generator provides 28V DC power to charge system





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# VHF AND UHF GROUND-TO-AIR COMMUNICATION SOLUTIONS



## Civil Ground-to-air Communication Systems

Park Air is dedicated to the provision of ground-to-air communications. Over 30,000 T6 U/VHF radios are deployed around the globe, delivering dependable communication to aircraft the world over.

Park Air's professional staff are solely dedicated to deliver complete technical solutions ensuring excellent customer service throughout the life of the products.

### **Park Air T6 features:**

- ▀ Comprehensive range of VHF and UHF products
- ▀ Wide range of transmitter power outputs from 50W - 300W
- ▀ VoIP in accordance with ED137
- ▀ E1 and analogue interfaces
- ▀ Modular construction for easy installation and maintenance
- ▀ Multi-mode software defined radio
- ▀ Compliant with ETSI specifications
- ▀ Advanced self-diagnostics

## ATC Communication Systems

Northrop Grumman Park Air Systems is the worlds leading provider of VHF and UHF ground-to-air communication solutions. Park Air has a full service offering in civil and defence environments.

Dedicated research and design teams guarantee Park Air communication solutions are tailored to individual requirements ensuring flexible and dependable performance.

An installed base across 175 countries gives Park Air a global presence and local expertise.



- E1-RIC - Provides interconnection between remote radio sites and their respective control centres. Suitable for analogue and digital environments
- IBSU - Advanced signalling unit that allows voice, data and PTT/mute signalling to routed point-to-point over single four-wire communication link
- T6C - For complete control of ATC radios, allowing enhanced remote operation of ground-to-air radios from single or multiple users positions
- T6MC - For control of ATC radios, proving a DC connected remote operating position for Park Air base stations or discrete radios
- T6MHA - The T6 masthead amplifier operates in conjunction with a T6 Receiver, deployed in extended range of VHF ATC communication systems
- Antennas - OMNI-directional and wideband Dipole antennas for operation in VHF or UHF systems



## Military VHF/UHF Radios

M7 VHF/UHF range of radios is designed for defence forces fulfilling a comprehensive range of demanding communication needs in the fixed, maritime, deployable applications.

The software defined architecture of the M7 provides voice, data, secure speech, electronic protection measures (EPM) and a wide range of ancillary equipment to facilitate system integration.

Systems solutions for demanding airspace needs



### Park Air M7 features:

- High RF power: 50W AM, 100W FM
- Multimode software defined radio
- Electronic protection measures (EPM) including NATO: HaveQuick and Saturn, Non-NATO Talon
- Modular construction
- Continuous AM and FM coverage from 100MHz - 400MHz
- Integrated Power Supply
- Optimised auto-tune filters and multi-couplers

## Control, Monitoring and Ancillaries

Park Air Systems offer an extensive range of monitor, control and ancillary products, including:

- MARC - An advance Remote Control and Monitoring System (RCMS) for ATC applications and can be used in both airport and wide area applications



# French Marine Commandos Adopt ST53



to foil a suspected CBRN terrorist threat and to confront and apprehend the operators.

The Avon ST53 was chosen for the French commando force with good reason as it combines Avon Protection's FM53 mask technology with an advanced modular breathing apparatus. This enables positive pressure SCBA and/or PAPR capability for specialist operations, particularly where stealth is paramount for marine boarding activities.



5 September 2012: The French navy's elite commando force - Les Commandos Marine - has adopted the Avon ST53 as their mask and respiratory system of choice for CBRN threats when undertaking high risk ship boarding operations.

A recently posted "You Tube" training clip shows the commandos in action undertaking a series of marine boarding exercises in preparation for anti-drug smuggling or piracy threats. Included is a task force masking up

Developed with the unknown elements of a threat scenario in mind, the ST53 is the most advanced CBRN respiratory solution on the market. It enables a fast response to changing operational conditions in one complete modular system.

According to Matt Evans, Avon's Commercial Director, "France's naval commando force are probably one of the world's most highly trained teams for combating marine based

threats and terrorist attacks. They have built an enviable record for overcoming criminal threats and activities on the high seas including drug smuggling, piracy and kidnap. So naturally, Avon is extremely proud that they have chosen Avon's mask and SCBA system, which we claim to be the most technically advanced system on the global market."

For further information: Chris Webb | Press & PR Manager Tel:+(0)7789 745546

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# DRASH'S MX Solar Shade is Another Step towards an Energy Efficient Future



ORANGEBURG, NY— Military forces stationed around the world all share a common problem when it comes to battling environmental factors in the field. Extreme temperature conditions coupled with high fuel costs have made it difficult for warfighters to avoid heat exhaustion and fatigue without amplifying energy use. As fuel costs continue to increase, DHS Systems continues its efforts towards developing more energy efficient products. The company's ultimate goal is to minimize risk and maximize security in all areas proven to be problematic for warfighters, including the issue of energy consumption. The MX Solar Shade is one of the energy-efficient products from DHS Systems that is designed specifically as a means to combat high temperatures and the costs of accommodating such treacherous conditions.

The MX Solar Shade serves a variety of

purposes. First and foremost, when placed above a shelter, the solar shade significantly reduces heat load within, helping troops to fight off the effects of heat exposure. Pre-attached collapsible supports keep the Solar Shade elevated 12 inches from the shelter's surface, which maximizes shade efficacy and enables continuous airflow. The open-knitted material integrated within the solar shade allows for breezes to freely pass through the shade, maintaining a more comfortable temperature for military personnel inside the shelter. The MX Solar Shade also protects from harmful UVA rays and UVB rays. UVA is blocked at approximately 86.3%, or 320-400 nm and UVB at approximately 84.3%, or 280-320 nm. An MX Solar Shade covering the MX Shelter provides an 85% Shading Factor resulting in a 15°F to 20°F temperature differential.

The MX Solar Shade weighs in at 86lbs (39kg) and has a length and width of 36.7 x 23.8 ft.

(11.2 x 7.3 m.). Its packed dimensions are 47" x 26" x 72" in. (119" x 66" x 183" cm.) and its packed volume is 50.9 cu. ft. (1.4 cu. m.). No additional area is necessary to deploy the MX Solar Shade, as it is fully supported by the foundation of the MX Shelter.

DHS is committed to continuing its development of energy efficient solutions for the military. "The company believes the MX Solar Shade is only one factor in energy efficient shelter technology and support equipment. It will be a combination of the Solar Shade, the Intelligent Power Technology along with insulated liners that will truly result in an energy efficient solution", says Marcel Branis, Vice President of Manufacturing.

**DRASH**  
THE WARFIGHTER'S CHOICE

# Typhoon International Military Wetsuit – Raptor 7/5/4 and Pro II Fins



I came across the company Typhoon International many years ago when on a diving trip, my instructor was using a commercial typhoon wetsuit. He raved about it at the time and I thought nothing more of it until recently when I was asked to review the Raptor 7/5/4 wetsuit and their latest Pro II fins for myself and their suitability to military applications.

After doing a bit of research on Typhoon International, I was further excited about the opportunity as the original company was founded over 60 years ago and by one of the founders of the world famous British Sub Aqua Club (this grew to be the largest diving club in the world). So I knew that being divers themselves they would understand the stresses and strains put on Military Divers and therefore I was hoping for a successful test....



## Raptor 7/5/4 Military Wetsuit

As with most military personnel, the requirements for a good wetsuit are paramount given the unpredictable nature of the job. So one of the things that I noticed about the typhoon Raptor is that although the suit has to have excellent thermal properties, the way it is designed makes it very easy to put on and take off and means that this can easily be carried out by you without the need for assistance. This suit is perfect for summer dives in the UK, extended snorkelling missions or warm water diving. Once on and in the water it really does provide an excellent thermal value due to it being blind stitched and the general design of the suit. (thermal protection level B rating and is ideal for water between 10-18 Celsius).

## The suit has the following key features which make it a superb choice for a diving wetsuit:

- 7/5/4 mm high density neoprene
- Bind stitched to reduce flushing
- Ultra Stretch neoprene for extra comfort
- Plush lined for increased thermal performance
- Internal overhead rear baffle
- D'O' Nut seals to improve dryness -
- Stretch reinforcing on knees and shoulders
- Metal YKK zip
- Tape reinforced seams
- Titanium lined neoprene for extra warmth
- Available in Grey / Black Colours Only

## Summary

This is an excellent suit for extended spring and summer use (I tested this suit in the depths of winter and it still performed very highly) The suit is very easy to put on and once on it is very comfortable and I did not suffer from the normal chaffing and rubbing.

## Pro II Fins

These fins provided an excellent, strong and wide blade fin which was well suited to



diving and I found that they propelled me through the water with great ease. They were comfortable and easy to get on and off quickly. Great value for money.

## The key features of the fins are:

- Blade made from a special thermoplastic material with superior flexibility
- Innovative blade with differentiated thickness
- Foot pocket made from thermoplastic rubber for ease of putting on and taking off
- Support rails in two different materials
- New low profile, tilting adjustment buckles prevents accidental unbuckling.
- Wide footpocket made from black elastomers
- Extensive anti-skid zone on the bottom of the footpocket

## Military Dry Suits

As well as Military wetsuits Typhoon International have provided military dry suits since 1976 when Typhoon developed the first lightweight drysuit setting itself on the road to becoming the world leader for drysuits. Its clients are not only from the military sector they also include some of the leading companies and organisations worldwide such as the RNLI, British Waterways, Environment Agency and the major Oil Companies.



# Vectronix to provide the U.S. Army with unique handheld precision targeting systems



support the Handheld Precision Targeting Devices (HHPTD) solicitation awarded on July 3rd, 2012. The HHPTD, sponsored by the U.S. Army Rapid Equipping Force (REF), provides dismounted observers the ability to rapidly locate ground targets with a high degree of accuracy allowing target engagement with precision munitions.

As part of the HHPTD program, Vectronix will also deliver an equal amount of STERNA Precision Target Location Systems. The

STERNA system is based on Vectronix' new and unrestricted capability to acquire and maintain the true north azimuth in all operating conditions, even in magnetically charged or GPS-denied settings. The system, already tested by the U.S. Army, provides an azimuth accuracy far exceeding that achieved by the current systems used by the Military.

"The HHPTD program leverages Vectronix core competencies in optics, laser ranging

and orientation," said Larry DeRoche, Sr. Director of Sales at Vectronix Inc. "We are pleased to work with the U.S. Army to provide the best field proven technology to the U.S. warfighter."

The systems acquired will significantly enhance the intelligence, surveillance and reconnaissance capabilities of the dismounted soldiers, while reducing system size and weight as well as the need for power.

The deliveries of these systems are scheduled for early next year.

## About Vectronix, Inc.

Vectronix is an established leader in the development and manufacturing of integrated handheld, module, and precision systems for observation, detection, geo-positioning, and targeting solutions. Leveraging core competencies in electro-optics, laser range finding, and north-finding technologies, Vectronix supports the requirements of defense and law enforcement as well as industrial and commercial markets. Headquartered in Ahsbrun, Virginia, Vectronix, Inc. is a wholly owned subsidiary of Vectronix AG in Heerbrugg, Switzerland, a member of the French Sagem/Safran Technology Group and maintains engineering and manufacturing operations in New Hampshire and California.

## Contacts:

Larry DeRoche, Vectronix Inc.  
Sr. Director of Sales Director  
+1 703 485 0179  
Larry.deroche@vectronix.com



# Survitec is Key British Supplier to The First F-35 Delivery To The UK Ministry Of Defence

The United Kingdom recently accepted the first international Lockheed Martin F-35 Lightning II in a ceremony with senior representatives of the U.K. Ministry of Defence and the U.S. Department of Defense. Survitec Group is one of a number of select British suppliers and partners and was chosen to provide the below neck pilot flight equipment, pilot cooler unit, single person life raft and additionally the provision of Pilot Fitting facilities.

## Lockheed Martin F-35 Lightning II

The Right Honourable Philip Hammond, U.K. Secretary of State for Defence, and Mr. Frank Kendall, U.S. Undersecretary of Defense for Acquisition, Technology and Logistics, represented their governments.

“We are here to celebrate an important ‘first’ among so many milestones associated with the F-35 program,” said Bob Stevens, Lockheed Martin chairman and chief executive officer. “It’s fitting that our first delivery to an international partner is to the United Kingdom, because without sustained British innovation over many generations, we would not have an event to celebrate today.”

The F-35 is being developed with Lockheed Martin and its industrial partners, Northrop Grumman and BAE Systems. Survitec Group has worked very closely with Lockheed Martin to ensure the provision of a fully

integrated yet modular clothing system designed to improve pilot performance and operational effectiveness.

David Griffiths, Vice President of Defence Sales, Survitec Group commented “We are delighted to see the first F-35 delivered to the UK MoD considering the considerable contribution from British industry. At Survitec this has been a major programme for us and we have worked intensively on the technical approach to garment and product design to deliver a high quality, low burden, solution with integrity and quality assurance proven by in-service performance.

“Survitec Group’s centre of technical excellence for Pilot Flight Equipment is based in Birkenhead. Also key to Survitec’s successful contribution has been the availability of in-house dedicated testing facilities for aircraft integration and qualification, combined with effective partnering with other UK vendors, notably Martin-Baker and Honeywell to provide optimised pilot life support and escape systems.

“At our Eglin AFB Pilot Fit Facility, we capture each pilot’s anthropometric data, deliver familiarization training, and ensure that the initial fitting is completed to ensure effective functionality. This has been a vital component of the F-35 programme, resulting



in a truly world class total support solution.” continued Griffiths.

## About the programme

The U.K. was the first of eight international partners to join the F-35 program and plans to acquire the F-35B short take off and vertical landing (STOVL) aircraft. The U.K. will play a vital role in the F-35’s global production, follow-on development and sustainment over the next 40 years, bringing strong economic benefits to the country.

The F-35 Lightning II is a 5th Generation fighter, combining advanced stealth with fighter speed and agility, fully fused sensor information, network-enabled operations and advanced sustainment. Three distinct variants of the F-35 will replace the A-10 and F-16 for the U.S. Air Force, the F/A-18 for the U.S. Navy, the F/A-18 and AV8-B Harrier for the U.S. Marine Corps, and a variety of fighters for at least 10 other countries.



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[www.closeairsupport.co.uk](http://www.closeairsupport.co.uk)

#### Soldier Modernisation India

11-13 September 2012  
New Delhi, India

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

#### Amphibious Operations

25-27 September 2012  
London, UK

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

#### Infantry Weapons

19-20 September 2012  
London, UK

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

#### Military Engineering

11-12 September 2012  
London, UK

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

#### Future Armouring

11-13 September 2012  
London, UK

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

### October 2012

#### Cyber Defence Europe

24-25 October 2012

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

#### Interoperable Open Architecture

30-31 October 2012  
London, UK

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

#### Military Radar

27-29 November  
London, UK

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

### November 2012

#### International Fighter

06-08 November 2012  
London, UK

[www.international-fighter.com](http://www.international-fighter.com)

#### Medevac

13-14 November

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

#### Air Power in Irregular Warfare

November 2012, London, UK

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

#### Armoured Vehicles India

November 2012

New Delhi, India

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

#### Maritime Life Cycle Management, Repair and Maintenance

November 2012

London, UK

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

#### Software Defined Radio

November 2012

Amsterdam, The Netherlands

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

### 2013

#### Cyber Defence & Network Security (CDANS)

24-25 January 2013

London, UK

[www.cdans.org](http://www.cdans.org)

#### International Armoured Vehicles

5-8 February 2013

Farnborough, UK

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

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