



Australian Government
Australian Trade and Investment Commission



Australian Government
Defence



AUSTRALIA

Australia Pavilion Capability Catalogue

30TH International Defence Industry Exhibition (MSPO 2022)

Hall G

**Targi Kielce Exhibition & Congress Centre
Kielce Poland**

6 - 9 September 2022

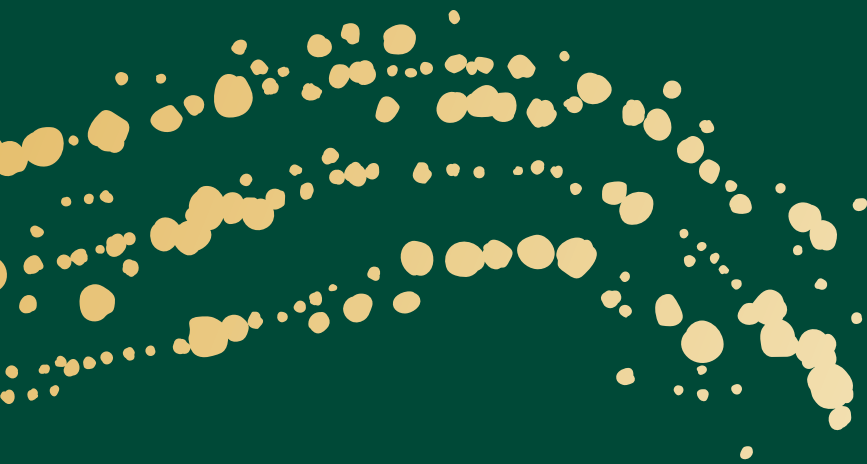
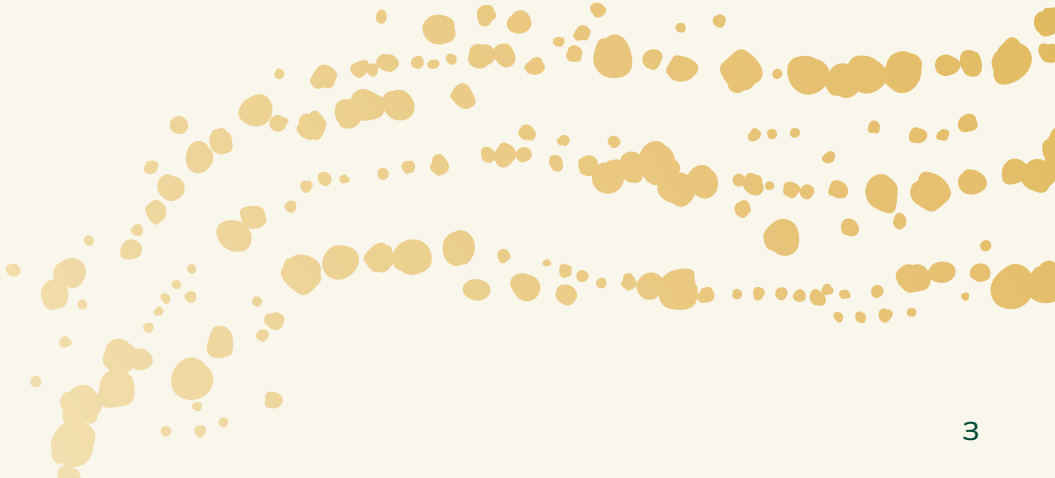
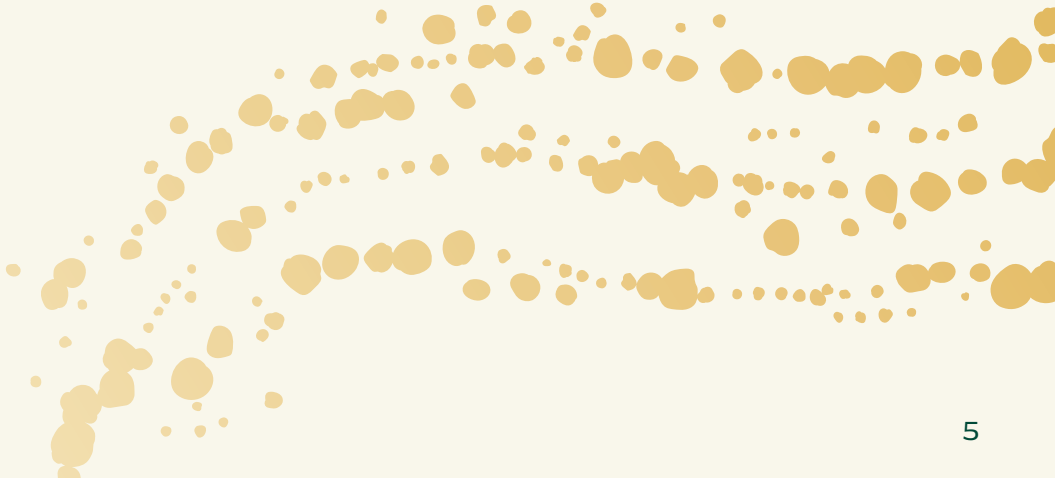


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AUSTRALIA PAVILION – DEFENCE CAPABILITY MATRIX

	PAGE	ARTIFICIAL INTELLIGENCE	AUTONOMOUS SYSTEMS	COMMUNICATIONS	DESIGN	ELECTRONIC WARFARE	ENGINEERING	FIELD EQUIPMENT	HUMANITARIAN	ICT & CYBER	INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE	LOGISTICS	MANUFACTURING	MEDICAL
CABLEX PTY LTD	8		•	•	•	•	•				•		•	•
CBG SYSTEMS PTY LTY	10			•		•								
CROSSFIRE AUSTRALIA PTY LTD	12				•		•	•						
DEFENDTEX	14		•		•	•	•				•		•	
DRONESHIELD	16	•			•	•	•	•			•			
DUG TECHNOLOGY (AUSTRALIA) PTY LTD	18	•								•	•			•
HIGHCOM ARMOR	20													
IOT CONSULTANTS	22	•					•			•				
MICRO-X	24		•				•						•	
NEXUS TRAINING SOLUTIONS	26		•		•						•			
PEDDERS	28				•		•						•	
POINT TRADING GROUP	30												•	
RADIO FREQUENCY SYSTEMS	32			•	•	•	•				•		•	
RAIDER TARGETRY	34	•	•		•		•	•			•			
REAL RESPONSE PTY LTD	36	•												•
SUPASHOCK	38	•	•		•		•					•	•	
TRAKKA CORP PTY LTD	40				•		•				•		•	
TRAUMASIM PTY LTD	42												•	•
UNIVERSAL MOTION SIMULATION PTY LTD	44													

	PAGE	OPTICAL	PERSONAL PROTECTION	RESEARCH & DEVELOPMENT	ROBOTICS	SHIP BUILDING	SPACE CAPABILITIES	TEST EQUIPMENT	THROUGH-LIFE SUPPORT	TRAINING & EDUCATION	UNCREWED & COUNTER UNCREWED SYSTEMS	VEHICLES & ACCESSORIES	WEAPONS & AMMUNITION
CABLEX PTY LTD	8			•			•	•	•		•	•	
CBG SYSTEMS PTY LTY	10					•						•	
CROSSFIRE AUSTRALIA PTY LTD	12		•										
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SUPASHOCK	38			•		•		•	•			•	
TRAKKA CORP PTY LTD	40												
TRAUMASIM PTY LTD	42									•			
UNIVERSAL MOTION SIMULATION PTY LTD	44									•			



COMPANY OVERVIEW

Cablex is Australia's leading manufacturer and exporter of complex Electrical Wiring Interconnect Systems (EWIS), electromechanical assemblies, avionic bays, consoles and box build electrical enclosures for the Defence and Aerospace market. Cablex has significant experience in developing and manufacturing electrical systems for harsh environments and developing solutions where electrical noise is a critical factor. Cablex offers bespoke end-to-end world-class engineering support and C4I systems engineering and integration.

PRODUCTS

Design & Engineering Services

- Parts selection, installation design, Mechanical design, Design for Manufacture
- C4I Engineering
- CAD Support (2D & 3D Harness Design Drawings)
- Engineering Support on Customer Premises

Manufacturing

- Cable harness assemblies and systems
- Coaxial cables - RF / Semi Rigid / Microwave
- Special processes - Shielding, Laser Marking
- Electrical assemblies (Box Build)
- Consoles, Cabinets and Racks
- Avionics Wiring assemblies

Testing

- Fully automated test stations for complex electrical systems
- Functional testing

Installation Services

- C4I fit-out
- Aircraft production installation and retrofit of wiring looms and harnesses
- Offsite installations, upgrades, modifications and retrofits

DISCRIMINATORS

- End-to-End solutions including platform installation and TLS
- Develop and build electrical systems for harsh environments (electrical noise, EMC or electromagnetic attack)
- Experienced in power, high power, RF & semi-rigid cables up to Extremely High Frequency (EHF), shielding and bonding for aircraft

AVAILABILITY AND SUPPORT

- Dedicated process cells for each Project to ensure delivery & quality
- Offsets Services Provider
- Willing to set-up/transfer capability to a nominated country to support Key Customer programs

KEY CUSTOMERS

- Australian Department of Defence, C4I Solutions - multiple programmes
- Airbus Helicopters - Global NH90 and Tiger Helicopter Programs
- Airbus Defence and Space - Electrical Harnesses for A330 MRTT (Multi- Role Transport Tanker)
- Northrop Grumman - MESA radar harnesses for Boeing 737 AEW&C platform
- Approved Supplier on JSF F-35 Program supporting various Customers
- Rheinmetall Global - Boxer electrical assemblies (Box Build) and harnesses
- Thales Land Systems - Hawkei Electrical Assemblies and C4I
- Alstom Transport - X'trapolis trains

KEY PARTNERSHIPS (CONSULTING)

- Global footprint: Australia, United Kingdom, India, Poland, United States
- Broad knowledge base of international standards
- Long-term partnering agreements with Primes, OEMs
- Proven low risk, established global supply chain partner (ITAR Compliant)

QUALITY ACCREDITATIONS AND AWARDS

- AS9100D (Aerospace Certified) and ISO9001:2015
- Workmanship standards include: IPC/WHMA-A-620, IPC-J-STD-001 & MIL-HDBK-454
- Certified to VG96927-2
- Cyber Security to NIST SP800-171

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COMPANY OVERVIEW

CBG Systems is an Australian company with its head office in Hobart, Tasmania and specialises in niche, unique and high value add technologies for commercial and defence projects.

Currently CBG offers 4 main solutions:

- Design and manufacture of Moonraker antennas.
- The SolarSigmaShield Mobile Camouflage system.
- Structural Fire Protection (SFP) for ships. A panelised structural fire protection system, a unique approach to saving weight on insulation requirements.
- Technologically advanced custom tailoring and sewing of thermal jackets. An advanced industrial and Defence sewing capability for complex shaped exhaust system insulation requirements.

PRODUCTS

- Our Structural Fire Protection (SFP) for ships is world leading and is in service with navies around the world.
- Moonraker Antennas -LF, MF, HF, VHF, UHF and SHF frequency range for commercial and defence applications, Manufactured by hand, with highest quality in mind. All Antennas are individually tuned.
- Design and support for custom solutions to meet customer specifications (build to print).
- SolarSigmaShield, Mobile Camouflage System. The most advanced camouflage system in the world. The system reduces asset solar load, thermal/IR image, Radar image and provides visual camouflage.

DISCRIMINATORS

- Team of highly skilled technicians with experience in commissioning projects worldwide
- World leading, Australian made products and services
- Established track record and assurance of continued lifetime support for all our products
- Quality manufacture ensures long service life in extreme environments
- Design service and support to produce customised solutions to meet customer specifications
- Experienced defence supplier within Australia and overseas
- Competitive edge over mass production

AVAILABILITY AND SUPPORT

- Our structural fire protection is currently employed globally, we can install or work with local installers.
- Moonraker antennas are currently sold worldwide. We have scalable production facilities and are able to expedite orders as required.
- Our mobile camouflage system is currently being explored for deployment in several countries outside of Australia. We will deploy a team of technicians to measure vehicle and then will commence manufacture - general lead time of 6 weeks.

KEY CUSTOMERS

- | | |
|-------------------------|--------------|
| • Hanwha | • US Navy |
| • BAE Systems | • Austal |
| • Rohde and Schwarz | • Fred Olsen |
| • L3 Harris | • Samyung |
| • Australian Army | • Codan |
| • Royal Australian Navy | • EOS |
| • Datron | |

KEY PARTNERSHIPS (SUPPLIERS)

- Alucoil – Lacore Panels

QUALITY ACCREDITATIONS AND AWARDS

- Marine Equipment Directive (MED) approved – Module B and Module D
- United States Coast Guard (USCG) Certified
- Kanto District Transport Bureau (JG) Certified
- Transport Canada (TC) Certified
- Indo Pacific Maritime Exposition 2022 Innovation Award winners
- ISO 9001:2015

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COMPANY OVERVIEW

Any product bearing the CROSSFIRE doesn't happen by accident, they're not born in a sterile design studio. They're built on 40 years of back country, operational, engineering and quality assurance experience. Our inspiration comes from hard won experience and from end users. Heritage and past history doesn't mean a great deal unless you remain adaptive and innovative.

PRODUCTS

- DG family of load carriage systems tuned to flex with the agile soldier
- Ergonomic load harnesses
- Pouches & accessories
- Harness system designed to fit all body shapes and sizes
- General and specialist load and weapon carriage solutions
- Specialist climate shelters

DISCRIMINATORS

- A unique combination of skills and experience
- Four decades industry experience in product design, specification and QM
- Mountaineering design heritage
- Advanced textile engineering
- Wide range operational use and design feedback
- Reliable in service performance

AVAILABILITY AND SUPPORT

- From initial in-house design and collaboration with client to first prototypes (stock of material dependant) 4 to 7 weeks. The timeline for production is very much governed by quantity, however, we are responsive and can rapidly scale from 10 items to 10,000 in a short period of time.
- Crossfire has established a strong supply and partner integration over the last 35 years. Our supply chain is matured and reliable. In a world of replication and mass manufacture, we will not compromise or replicate. When you see someone else carrying or wearing the Crossfire logo you know you are among good company, not just another average consumer.
- Crossfire has established partners based in Sweden and the United States.
- We are constantly on the lookout for OEM to support our team and grow the Crossfire brand.

KEY CUSTOMERS

- Australian Defence Force
- Australian Police Force

KEY PARTNERSHIPS

- Ian Maley & Associates Pty Ltd
- Nextec Applications Inc
- Qore Performance
- Guston Molinel
- Rundayvu

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COMPANY OVERVIEW

DefendTex is an established leader in multi domain asymmetric warfare solutions with offices in Australia, United States & United Kingdom. Innovation drives the development of cost effective capabilities to deliver combat mass designed to significantly increase the strike range, survivability and lethality of existing systems.

DefendTex leverages a strong commitment to R&D combined with state of the art facilities to deliver world leading capabilities to the war fighter. New capabilities are derived from developing truly collaborative partnerships with the end user community.

PRODUCTS

DRONE40:

- Drone40 is a barrel launched, low cost, swarm capable nano UAS equipped with a GPS enabled flight control system. Its modular design supports multiple radio systems including LTE. The interchangeable payload bay supports a range of ISR, EW, non-lethal and lethal effectors.

DRONE155:

- Drone155 is a larger variant of Drone40 with in excess of two hours flight time and supports payloads of up to 15kgs including an RPG40 multi launch rocket pod for long range strike.

RPG40:

- RPG40 is a rocket propelled 40mm grenade launched from a low velocity grenade launcher with ranges exceeding 2,500 metres.

Supercav:

- Supercav is a rocket propelled super-cavitating fleet engagement system to be used within the maritime and anti-submarine warfare (submerged to surface or surface to submerged engagements).

HIVE:

- HIVE is a highly portable, self-contained system for barrel launching up to 6 Drone40 UAVs. It contains a power source, fire control unit, 6 barrels and ground control station for command and control of the Drone40s.

DISCRIMINATORS

DefendTex's core capabilities include:

- Engineering services
- Mechatronics
- Additive manufacturing
- Armour systems
- Radar and sensing systems
- Responsive access to space
- Aerospace
- Small arms and munition systems
- Maritime services

AVAILABILITY AND SUPPORT

- DefendTex has offices in Australia, United States and United Kingdom to facilitate a relationship with Department of Defence and law enforcement agencies and to reach export markets.
- Drone40 has been adopted by the British Armed Forces and deployed on OP NEWCOMBE (Mali) with 2 Royal Anglian for use in ISR engagements.

KEY CUSTOMERS

- Australian Defence Force
- Ministry of Defence United Kingdom
- British Armed Forces
- United States Department of Defense

KEY PARTNERSHIPS (CONSULTING)

- Department of Defence Australia
- University of Sydney (Australia)
- Universitat der Bundeswehr (Germany)
- University of South Australia
- Australian National University
- Cranfield University (United Kingdom)
- Defence Science and Technology Group (DSTG)
- Royal Melbourne Institute of Technology (RMIT) (Australia)

QUALITY ACCREDITATION AND AWARDS

- ISO 9001:2015
- AS/NZS ISO 9001:2016
- Land Forces 2021 – High Commendation 'Best Land Forces Innovation (Drone40)'
- Defence Industry Security Program accreditation
- Defence Cooperative Research Center for Trusted Autonomous Systems accreditation
- Counter Improvised Threats Grand Challenge
- Cooperative Research Centers Projects (CRC-P) award for Hydrocarbon Fuel Technology for Hypersonic Air Breathing Vehicles
- Cooperative Research Centers Projects (CRC-P) award for Additive Manufacturing of Energetic Materials
- Cooperative Research Centers Projects (CRC-P) award for Responsive Access to Space
- Cooperative Research Centers Projects (CRC-P) award for Additive Manufacturing of Rocket Booster for Space Launch

CONTACT DETAILS

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DefendTex

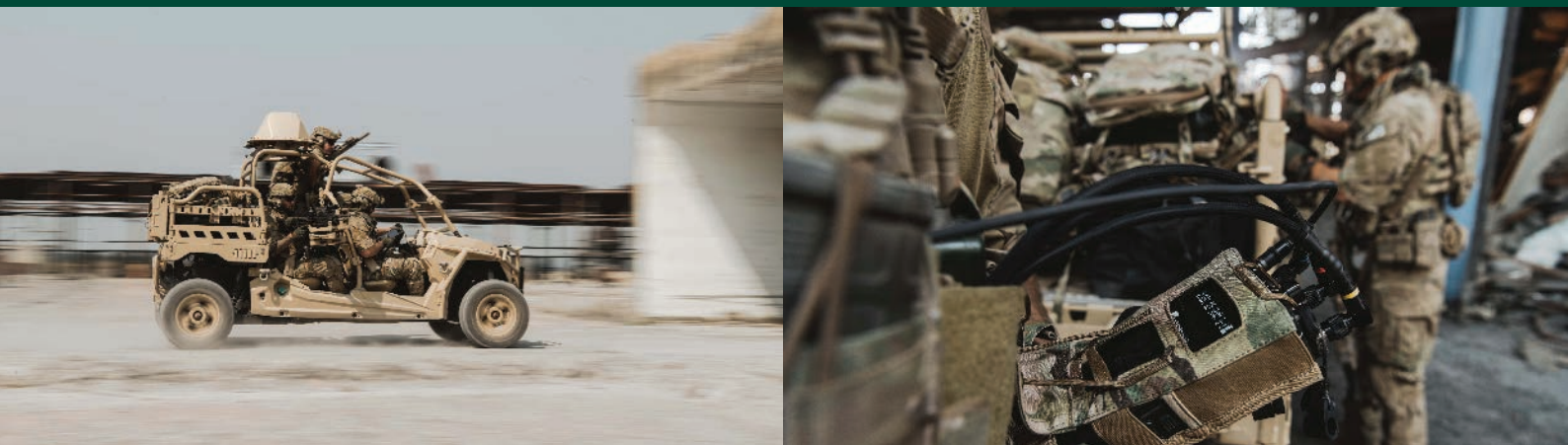
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COMPANY OVERVIEW

DroneShield is a global leader in the C-UAS and Electronic Warfare capabilities. With offices in Virginia and Sydney, it provides defence, Government Agencies, law enforcement, critical infrastructure and other customers with dismounted, on-the-move and base protection capabilities. DroneShield provides an unmatched airspace and spectrum awareness capabilities to our customers.

PRODUCTS

- DroneGun MKIII
- RfPatrol MKII
- DroneSentry-X
- DroneSentry
- DroneSentry-C2
- AI spectrum awareness software (RF and optical based)

DISCRIMINATORS

- Effective range.
- Optimum form-factor fit for the mission.
- Reliability Scalability Tailored solutions.

AVAILABILITY AND SUPPORT

- On-the-ground dedicated engineering field support based in Virginia.

KEY CUSTOMERS

- Variety of United States Defense, Government and law enforcement agencies
- Australian Department of Defence and Government Agencies
- The British Army
- French Army
- New Zealand Special Forces

KEY PARTNERSHIPS (SUPPLIERS)

- Trakka Systems
- Bosch
- Zenith Aerospace
- Teledyne FLIR
- Thales

QUALITY ACCREDITATION AND AWARDS

- ISO9001

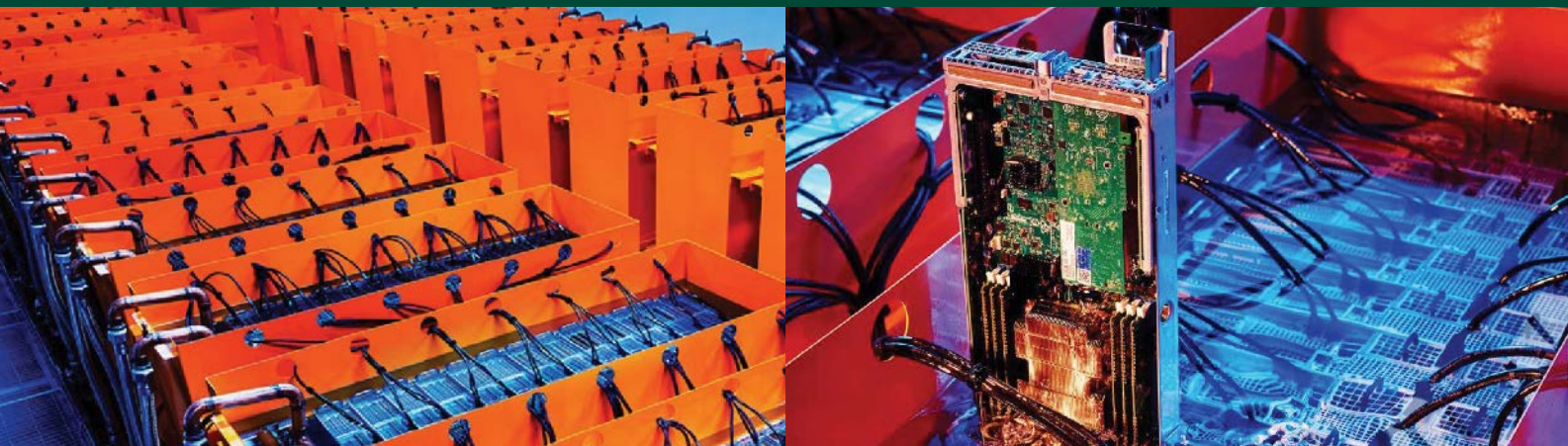
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COMPANY OVERVIEW

DUG is an Australian technology company founded in 2003, specialising in analytical software development and reliable, green, high-performance computing (HPC). DUG is focused on finding novel, performant solutions to large, complex problems - empowering clients by transforming data-analysis pipelines and knowledge sharing. DUG’s expertise in algorithm development and code optimisation enables clients to leverage big data with high-performance computing (HPC). DUG’s signal-processing software is currently used in 36 countries. DUG has offices in Perth (Australia), London, Houston and Kuala Lumpur, with a client-base spanning radioastronomy, biomedicine and meteorology, as well as the resource, government and education sectors. DUG designs, owns, and operates a network of some of the largest and greenest supercomputers on Earth. DUG continues to innovate, working towards a climate-positive future.

PRODUCTS

- High Performance Computing (HPC)
- Interactive analysis and visualisation software for scientific big data
- Seismic signal analysis software

DISCRIMINATORS

- 18 years experience
- Green
- Reliable
- In-house
- Secure
- Deployable
- Australian-owned
- Multiple patents relating to seismic signal processing

AVAILABILITY AND SUPPORT

- 24/7 worldwide support available.
- Bespoke support for technology on-boarding and code optimisation.

KEY CUSTOMERS

- | | |
|----------------------------------|---|
| ● Equinor | ● Austal |
| ● CSIRO | ● Harry Perkins Institute of Medical Research |
| ● ICRAR | ● Total |
| ● Petronas | ● ExxonMobil |
| ● PXGEO | ● Woodside |
| ● Chevron | ● The Telethon Kids Institute |
| ● LatConnect 60 | ● Imperial College London |
| ● Australian National University | ● Curtin University |

QUALITY ACCREDITATION AND AWARDS

- In 2014 we were honoured with the Cecil Green Enterprise Award from SEG in recognition of the risk and innovation that is part and parcel of the DUG story.
- In 2019 we were winners of the Enterprise Data Centre Design Award from Data Centre Dynamics. This award recognises innovation in data centre design.
- ISO 9001 and ISO 27001 certified

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COMPANY OVERVIEW

XTEK Ltd, and its wholly owned United States based subsidiary HighCom Armor, is the market leader in high-quality security products to protect and sustain the Defence Forces, Police Forces and other Government Agencies. XTEK offers a unique suite of solutions from in-house developed technologies to address current and emerging needs in the defence and homeland security markets. The XTEK head office is in Canberra, Australian Capital Territory. XTEK Canberra is primarily focused on corporate and executive management functions, project management, engineering, customer service, and sustainment.

The XTEK engineering facility in Adelaide, South Australia, is home to our Xtclave™ manufacturing center. In Adelaide, the primary focus is on the development of Xtclave™ and lightweight composite technologies. The facility provides Xtclave™, CNC machining, fabrication and injection moulding capabilities for the company.

PRODUCTS

- Hard Armor Plates: Level IIIA, III, IV, Special Threat, Rifle Armor Kits, Plate Accessories
- Soft Armor Plates: Soft Level II, IIIA, Spike/Stab, Soft Armor Accessories, Protectors, Blankets
- Carriers: Concealable Carriers, Overt Carriers, K-9, Plate Carriers, Tactical Carriers
- Helmets: ACH, PASGT, RCH, Helmet Accessories
- Shields: Level IIIA, III, Shield Accessories
- Accessories: ID Placards, Pouches, Equipment Bags

DISCRIMINATORS

- XTEK is a market leader in high-quality security products to protect and sustain the Defence Forces, Police Forces and other Government Agencies
- Partnering with a range of global companies, and together with HighCom, the group designs, develops, tests, manufactures, and distributes armor worldwide
- Highly consistent and stable production, capable of both long-run production as well as small batch specialised production
- Ballistic test reporting available across a range of ballistic threats
- Comprehensive long term record and data retention allowing full traceability of materials and production

AVAILABILITY AND SUPPORT

- XTEK offers a suite of products / solutions from a network of exclusive reseller partnerships and in-house developed technologies to address current and emerging needs in the defence and homeland security markets.
- The XTEK Group is comprised of XTEK Limited and its wholly owned subsidiary HighCom Armor Inc. (US) and operates as two distinct divisions: Ballistics Division, and Technology Division.
- The Ballistics Division is focused on designing, manufacturing and supplying global military, law enforcement and first responder customer with world class, advanced, personal protection ballistic products and solutions under the HighCom Armor brand. This includes body armor, ballistic helmets, vests and plate carriers, shield, composite structures and more.
- The Technology Division is focused on manufacturing and supplying global Defence and Security Agencies with world leading Australian made and globally sourced products:
 - Systems: UAV and UGV solutions
 - Software: 3D mapping and modelling software; tactical targeting software
 - Support: System integration, Training and Service

KEY PARTNERSHIPS (SUPPLIERS)

- | | |
|------------------------------------|---------------------|
| • DSM Dyneema | • OBL |
| • Dupont | • Barrday |
| • Honeywell | • Saint-Gobain |
| • Teijin | • Industrie Bitossi |
| • Chesapeake Testing | • AeroVironment |
| • Ballistic and Mechanical Testing | • Telerob |
| • Dupont Kevlar | • Recon Robotics |

QUALITY ACCREDITATION AND AWARDS

- XTEK holds ISO 9001 Certification and is an Australian Department of Defence – DMO Registered Technical Support Agency, and a Member of the Defence Industry Security Program.
- HighCom Armor is currently capable of testing armor products to standards including Mil-STD-662F V50, NATO STANAG 2920 FSP Testing, NATO STANAG 4569 Level 1-3, UL 752, NIJ 0101.04, NIJ 0101.06, NIJ 0106.01, NIJ 0108.01 and HOSDB

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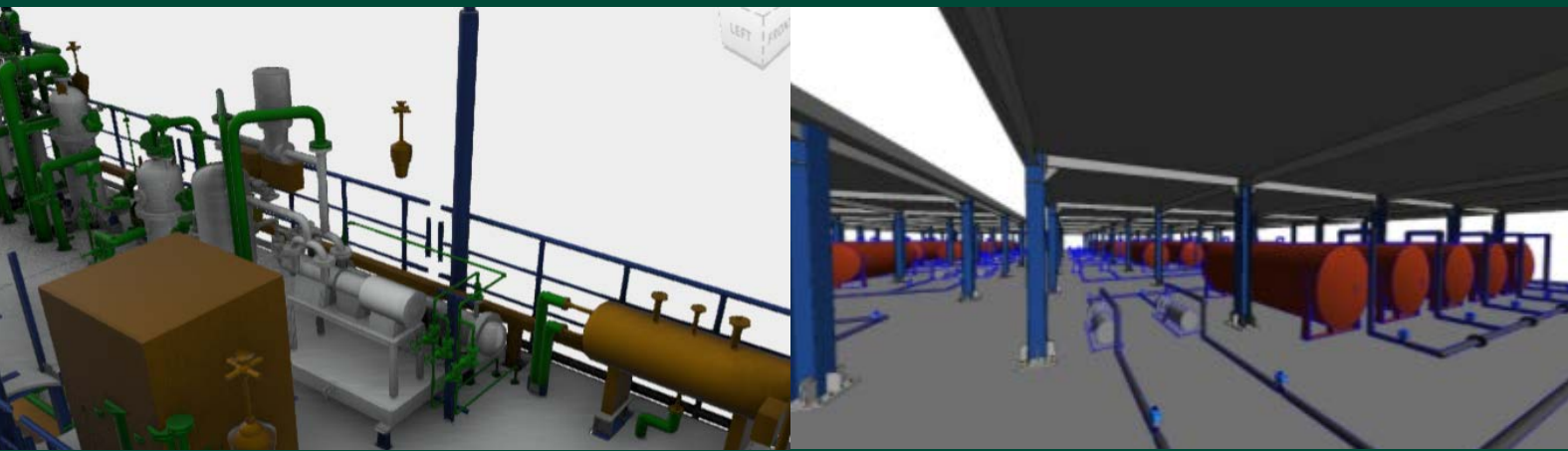
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COMPANY OVERVIEW

IoT Consultants is a technology-based company providing services and accelerators using IoT, BIM, AI and Machine Learning to make faster, smart decisions about business operations and empower the whole organisation to get benefits and enhance the return on investment.

IoT Consultants' leaders have an intensive international experience in Defence, from conventional to nuclear powered submarines, having held high responsibility positions, such as project managers of significant systems, ILS Architect and ILS Manager using the latest technologies as a support to lead to the success.

Indeed, the intensive use of best management practices and latest technologies including AR, VR, MR are part of IoT Consultants' add-value to provide a wide range of engineering, data science, business intelligence, asset management, digitalisation, cybersecurity and defence services.

PRODUCTS

- Defence services
 - Support for tender responses / Business Development
 - Integrated Logistic Support (ILS)
 - Management of Cybersecurity
 - Support for program management
- Data Science : AI / ML / Business Intelligence
- Engineering services
- Building Information Modelling (BIM) Services
- Accelerators / Products : IoT BIM Platform

DISCRIMINATORS

- International experience in Naval Defence
 - ILS : nuclear powered submarine, supporting infrastructure
 - Program Management : design, manufacturing and maintenance of hardware/software/systems
- Combination of several technologies to address industrial challenges
- Services supported by our accelerators/products and technology

AVAILABILITY AND SUPPORT

- Our services can be provided remotely using secured connections
- Our accelerators / products are accessible via secured web-portal

KEY CUSTOMERS

- Acacia Systems
- Master Builders SA

KEY PARTNERSHIPS

- Engineering/Software companies

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COMPANY OVERVIEW

Established in 2011, Micro-X was the first company globally to commercialise a digital X-ray tube using Carbon Nano Tube (CNT) emitter technology. The technology breaks through the historical limitations of traditional X-ray and has enabled the development of smaller, lighter, faster and more precisely controlled X-ray imaging systems.

In 2016 Micro-X was contracted by a Five Eyes (FVEY) alliance country to develop a self-contained Stand-Off Backscatter Imaging Concept Demonstrator, based on our unique CNT technology.

The Argus X-ray Camera is a direct result of this development program.

PRODUCTS

- **Argus - Dual Mode X-ray Camera:**
 - Fit-for-purpose, combat effective Solution - a multi-function approach to combat operations, remotely deployable, highly configurable stand-off capability.
 - Force Multiplier – safer operations, increasing operational tempo, removing the technical and physical restraints typically associated with High-Risk Search and EOD Operations, reducing cognitive load and operator exposure to threats.
 - Fully Integrated - A robust encrypted (wireless) and a (hardwired) communications package provides robust communications in congested, or communications denied environments, and a simplified User Interface, with basic image manipulation provides intuitive user experience.

DISCRIMINATORS

- Safety – operator exposure can be eliminated when deployed remotely on an Unmanned Ground Vehicle (UGV)
- Flexible deployment options – Remote Stand-Off Capability, highly configurable, deployable from an RPV and as a Carry Forward System
- Dual Mode (backscatter & transmission) X-ray
- High-Definition X-ray Imaging - backscatter, able to diagnose down to component level
- Ease of Operation – designed as a multi-function solution, to reduce cognitive load and training burden
- Technology Advantage – CNT technology eliminates overheating and leakage issues associated with extended duty cycles

AVAILABILITY AND SUPPORT

- The Argus X-ray Camera enters full production in October 2022, with systems available within 12 weeks from ordering. Available with 12 months manufacturer's warranty.

KEY CUSTOMERS

- Military Technical Search
- Explosive Ordnance Disposal
- Counter-Improvised Explosive Device Disposal

KEY PARTNERSHIPS (SUPPLIERS)

- OEM

QUALITY ACCREDITATIONS AND AWARDS

- ISO 13485: 2016 Quality Management - design and manufacture of mobile radiography devices
- 2021 Australian Army Land Forces Innovation Award

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COMPANY OVERVIEW

Nexus Training Solutions (NTS) is an end-to-end training provider assisting partner nations to build security capacity through technology adoption, skills enhancement and capability development.

NTS offers everything from one-off, off-the-shelf training courses to large-scale, sustained programs that include equipment procurement, facilities design, program management, curriculum design, simulation integration and in-country instructional and maintenance support.

NTS’ goal is increase security capacity and reduce costs by increasing resource efficiency in training and introducing various technologies to generate significant, long-term cost savings and to develop a more-capable, job-ready maritime security force.

PRODUCTS

- **Autonomous Threat Emulator:** a low-cost, biodegradable drone that allows maritime vessels to test and evaluate counter-UAS technologies, and develop tactics techniques and procedures (TTPs) against swarm drone technology.
- **Equipment Integration Training:** breaching equipment (mechanical, hydro-electric, thermal, manual); VBSS equipment (pneumatic launchers, pneumatic poles, caving ladders, ascending devices); combat equipment (weapons, night vision devices, optics, radios, targeting devices).
- **Visit, Board, Search and Seizure (VBSS) Training:** Tactical craft handling; Helicopter insertion and extraction; Combat shooting; Use of Force (UOF), Defensive tactics; Hostage Rescue; Close quarter fighting (CQF); UAS integration.
- **Simulation Design:** support to define performance needs requirements and system specifications to streamline the approach to market and reduce the time to reach full operational capability (FOC).

DISCRIMINATORS

- Extensive experience in maritime training around the globe
- Global presence
- Introduction of technology to enhance training
- Contextual based approach to training design and implementation
- Experienced, former Special Operations Command (SOCOMD) instructional staff

AVAILABILITY AND SUPPORT

- NTS’ Middle East operations are based in Amman, Jordan which provides program management, technical and training support, onsite or remotely, throughout the Middle East region.

KEY CUSTOMERS

- Australian Defence Force
- Armed Forces of the Philippines
- Romanian Armed Forces
- United States Navy
- Jordanian Armed Forces

KEY PARTNERSHIPS (SUPPLIERS)

- Chiron Global Tech
- Boresight Targets
- DefenseTek Solutions
- Sky-Hero
- Opaque Media Group
- SiNAB

KEY PARTNERSHIPS (CONSULTING)

- Fusion Group Holding
- Atlantic Diving Supplies
- VSE Corporation

QUALITY ACCREDITATIONS AND AWARDS

- ISO 9001:2015

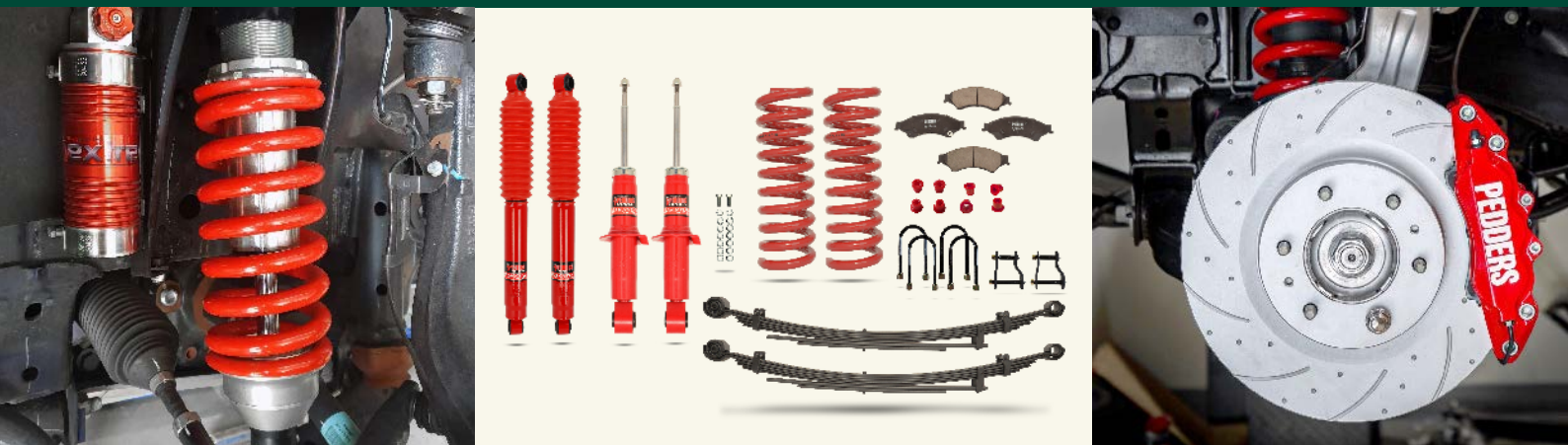
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COMPANY OVERVIEW

Founded in 1950 as a backyard welding business, three generations of the Pedders family have steered the company’s growth to manufacture, distribute and install high performance, innovative, advanced suspension, steering and braking products that control, monitor and improve the safety & mobility of Defence, Commercial, Automotive and other transport vehicles.

PRODUCTS

- Shock absorbers
- Coil & leaf springs
- Kevlar ceramic brake pads
- Drum to disc conversions
- Electric secondary park brake kits
- Brake Drums
- Ceramic brake shoes
- GVM upgrade kits
- Chassis Parts
- Alignment Parts
- Suspension Brushes
- Carbon brake rotors
- Original Equipment Direct replacement brake rotors
- Steering Parts
- Remote Vehicle Load Monitoring
- Braided brake hoses
- Brake specific tools
- Electric brake wear sensors
- Hand brake shoes

DISCRIMINATORS

- Design & manufacture: We build to order
- Research & Development: In house
- Export: We export all over the world
- Quality: We manufacture to the highest quality standards
- Experience: Established since 1950
- Robust International Supply Chain
- CAD Design capabilities
- FEA analysis capabilities
- Second stage manufacturing
- From Proof of Concept to Delivery
- Integrated Brakes & Suspension Solutions Provider

KEY CUSTOMERS

- Mineral Exploration
- Oil & Gas Sector
- Military & Defense
- OEM Vehicle Manufacturers
- Chassis Manufacturers
- Emergency Services
- Infrastructure Sector

QUALITY ACCREDITATION AND AWARDS

- Coil Spring & Brake Rotor manufacture to ISO9001 standard
- TUV approval on selected products
- ECR90 approval on selected products
- TF16949
- PPAP approval by OE supplier
- OE and aftermarket manufacturer
- Federal Government Second Stage Manufacturer
- DOT brake hose accreditation

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COMPANY OVERVIEW

Point Trading Group (PTG) is an Australian designer, developer, manufacturer and service centre for high performance aviation and military grade night vision devices and associated equipment, including Night Vision Goggles, Sights, Scopes, Thermals, Fused Night Vision, Helmet Mounts and Head Up Display's suitable for both day and night operations.

PRODUCTS

- Night Eyes Aviation (BNVD)
- Night Eyes (BNVD)
- Night Eye (MNVD)
- SNS-2 MNVD for cameras
- Galago HUD see through head up display
- Rooster Hands Free see through Personal Thermal Imaging System
- Fused Night Vision & Thermal
- NTG5000 4 in one CCD, Thermal, LRF, GPS
- PT – Helmet Mounts (Single/Dual)

DISCRIMINATORS

- Night Eyes (BNVD) Land, Marine & Aviation - United States Patent 10061113 & European Union Patent 3120179
- Night Eyes (BNVD) Aviation - approved for use in Sikorsky S-70 Black Hawk
- Galago HUD see through Head up Display & Rooster Thermal Imaging System
- Patented on-board micro processor for recording of tube performance data
- Wireless data transfer using IR
- Integrated Logistics & Pilot Logbook
- Rigorous independent lab tested with test reports (MIL-STD) available
- Light weight helmet mount configurations
- Submersible to 20m for 2.5hrs
- Rugged and long life lightweight aluminum construction

KEY CUSTOMERS

Defence Force, Law Enforcement & Aviation:

- Australia & New Zealand
- South East Asia
- Pacific, New Zealand
- Europe, Middle East, United States
- South America

QUALITY ACCREDITATION AND AWARDS

- AS/NZS ISO 9001:2015 Quality Management
- AS/NZS 31000: 2018 Risk Management
- Engineering Management System compliant to EIA-632 Standard
- Telstra Australian Business Award 2014
- Governor of Victoria Export Award Nominee
- Night Vision Patents - US Patent 1006113, EU Patent 3120179 & AU Patent 2014268232
- Recognised by both the Australian Defence Force & New Zealand Defence Force as an Integrator and a Service centre for maintenance and support

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Avner Klein

Chief Executive Officer

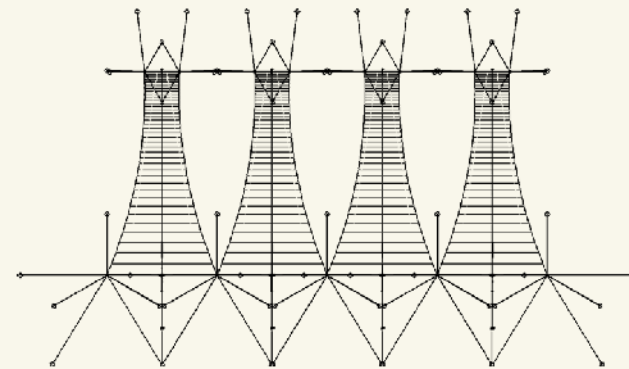
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Example of HLPE630 Antenna in a Linear array

COMPANY OVERVIEW

Radio Frequency Systems (RFS) is a world leader in the innovative design, manufacture, installation and in life support of HF antenna, combiners, baluns and associated sub-systems, in many cases for specific requirements.

Our designs are broadband, with antenna suiting a wide range of applications ranging from relatively simple SSB installations to complex large scale military installations, including radar and voice & data networks.

From short, medium and long distance HF coverage to ionospheric propagation the RFS product range includes tactical manpack, transportable and stationary antennas for all omni-directional and directional applications and field conditions.

PRODUCTS

RFS maintain the following capabilities:

- Substantial research & development effort focused on your required outcomes.
- Antenna Design - structural and electrical performance are both considered to provide a long lasting and efficiently operating system.
- Co-site interference modeling- Understand how adjacent systems may impact performance.
- Installation - Experienced Project Management and trained installation teams, including Supervisory and training skills.
- Through Life Support & Maintenance - RFS ensures the ongoing operation of your systems in the field.

DISCRIMINATORS

RFS legacy is based on world leading projects such as:

- JORN - Jindalee Over the Horizon Radar Network
- HFMOD - design and installation of the antenna system for Defence High Frequency Communication System
- Nullabor - design and installation of monopole receive array
- Grail - design and installation of a new transmit antenna array used for radar applications
- REDFIN- enhanced HF capability for Special Operations
- A unique project delivery capability over 20 years

AVAILABILITY AND SUPPORT

Product support is tailored to the specific project requirements in all regions and may include:

- Installation - Experienced Project Management and trained installation teams, including supervisory and training skills
- Through Life Support & Maintenance - RFS ensures the ongoing operation of your systems in the field
- Spares management
- Engineering support

KEY CUSTOMERS

- Commonwealth of Australia
- Australian Antarctic Division
- The Swedish Defence Materiel Administration (FMV)
- BAE Systems
- Leonardo MW
- ELBIT Systems
- Boeing Defence Australia

KEY PARTNERSHIPS (SUPPLIERS)

- RFS partner with several universities to enhance graduate opportunity and research capability

QUALITY ACCREDITATION AND AWARDS

- Quality Management System – ISO 9001
- Environmental Management System – ISO 14001

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COMPANY OVERVIEW

RAIDER TARGETRY specialises in robotic targetry which create a highly realistic training scenario for operators in the field. Led by PhD level engineers, RAIDER Targetry's products and services enable manouvre unit commanders and range staff infinite scenario development optionality for highly realistic live fire training. Designed for small and large calibre scenarios, RAIDER's targets have been successfully used for infantry, cavalry, tank and aviation units. Since 2018 our products have been relied upon by government and miltech OEMs for live fire training, trials, testing and simulation, using a wide range ammunition natures.

RAIDER Targetry's sophisticated and adaptable live fire training solutions redefine targetry for international and domestic use, on green field and established sites. Their products are cost effective, rapidly redeployable and highly customisable.

PRODUCTS

Mobile Moving Target System™ (MMTS)

- Remote controlled robotic targets & trailer, enabling complex maneuver scenarios with 1:1 ratio targets.

Deployable Elevated Target™ (DET)

- Target dead ground or perform head-to-tail fires.

AutoStatic™ targets

- Highly portable remotely operated actuated targets that can drop in response to detected hits.

FSK-GL

- Lightweight, cost-effective solution for placing static targets anywhere on a range.

Thermal signatures

- Active thermal signature generation for any of our targets using our patented Generated Heat On Demand™ (GHOD) enhancement.

RAIDERflute™

- Full-scale flat-pack targets and decoys (2D, 2.5D and 3D, A-vehicles, B-vehicles and more).
- Projectile Locating System (PLS) integrated digital scoring system for supersonic ammunition natures.
- Bespoke target design.

Augment

- Enhance existing range targetry using RAIDER Targetry's high-fidelity decals.

DISCRIMINATORS

- Robotic moving and static targetry for combined arms
- PhD level R&D Team ensures RAIDER's products remain cutting edge and customisable
- Targets are easily transportable in their custom integrated 1C ISO container
- Adapts and scales to evolving threat environment and range practice scenario needs
- Multi-spectral targets for use with direct fire, guided and smart munitions
- Cost effective, survivable, lightweight, containerised solution
- Maximise green field and existing range estate for short, medium and long duration use
- Minimal environmental managment overhead, including little or no footprint after use
- Patented on-demand remote thermal signature generation for ISTAR and live fire applications
- Intelligent systems deliver real-time and after-action performance feedback
- Supports all-weather day and night operations
- Standalone control using RAIDER Targetry's intuitive ground control station (GCS) software
- RAIDER's solutions Team provides training and train-the-trainer support

AVAILABILITY AND SUPPORT

- All products built to order, supplied from Australia as standard (local manufacturing options also available)
- Available to all approved countries
- Local support and maintenance available, including operator support
- System-as-a-Service, leasing and purchase options available

KEY CUSTOMERS

- Government
- Miltech OEMs
- Defence research organisations
- Military forces

QUALITY ACCREDITATION AND AWARDS

- ISO 9001 aligned
- Rigorous in-house Quality Assurance program
- Startup of the Year (Defence Connect, Finalist 2021)

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COMPANY OVERVIEW

- Founded in 2013
- Active employer of Australian Veterans
- Offices in Melbourne, Geelong & Sydney
- Australian owned company
- Led by First Responders and Educators
- Operating globally: New Zealand, Asia, Middle East

PRODUCTS

- Virtual Tactical Combat Casualty Care (vTC3)
- Custom XR development
- AI and Biometric training solutions
- Tactical medical training services
- Specialist tactical medical consultancy
- First aid & safety training
- Mental health first aid training

DISCRIMINATORS

- Ability to highly customise courses
- Delivery of highly specialised subject matter expertise
- Global capability and capacity
- Unique team of subject matter experts, software developers, clinicians and warriors

AVAILABILITY AND SUPPORT

- Training services and existing XR platforms are available immediately. Bespoke packages usually require at least 3 months development depending on the scope.
- Customers are offered ongoing support through the companies global network of trainers, software engineers and developers.

KEY CUSTOMERS

- Defence
- First Responders
- Government
- Health
- Universities

KEY PARTNERSHIPS (SUPPLIERS & CONSULTING)

- Australian Government
- Ministry of Defence, United Kingdom
- HTC
- Unity
- Australian Army
- Philips Healthcare
- Varjo
- University of Adelaide

QUALITY ACCREDITATION AND AWARDS

- Recognised Training Organisation
- Australian Trusted Trader
- Top 30 Australian Innovation
- Veteran Employer
- ISO9001
- ISO14001
- ISO45001

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COMPANY OVERVIEW

Supashock is a world-class producer of advanced mobility, logistics handling, and autonomous systems that control, monitor, and improve mobility of defence, autonomous, commercial, automotive, and other transport applications.

All our products share several things in common:

- Exceptional performance providing the customer a unique solution utilising our advanced simulation, design, analysis & product validation techniques. Supashock will tailor design systems, specifically for your application.
- Our quality assurance system ensures we maintain the highest design and manufacturing standards coupled with our in-house testing centre, validating the lifecycle of each product and system.
- Supashock's products have expanded into a global comprehensive line that ranges widely throughout motorsport, transport, and defence industries.

PRODUCTS

- Davit Systems
- Crane Systems
- Vision Systems
- Missile Platforms
- Autonomous Systems
- Mobility Systems
- Load Handling Systems
- Area Safety Systems
- Suspension Systems

DISCRIMINATORS

- Australian owned and operated
- Defence ready manufacturing
- Extreme Testing and Analysis
- Customer focused
- High quality standards
- High & low volume manufacturing & Assembly
- Capable of design & spec or build to print
- AS9100D Certified
- Diversified across industry sectors
- Highly agile
- Deliver on time
- Custom design and manufacture
- Rapid prototyping
- Through-life support

AVAILABILITY AND SUPPORT

- Our products are made to order, available within timeframes specified by our customers.
- We accommodate support 24/7, depending on our customer needs.

KEY CUSTOMERS

- Rheinmetall Defence
- IDES (Integrated design & Engineering solutions)
- Pindad
- Luerssen

KEY PARTNERSHIPS (SUPPLIERS)

- Bosch Rexroth
- Surman Metals
- Hydac
- CASTECH
- Voestalpine High Performance Metals
- Sonnex Laser
- STAUFF Corporation
- Van Leeuwen Pipe and Tube Australia
- Axiom Precision Manufacturing
- Hallite Seals Australia

KEY PARTNERSHIPS (CONSULTING)

- PKF
- Cowell Clark
- Madderns

QUALITY ACCREDITATION AND AWARDS

- ISO 3834.2
- AS 9100D
- ISO 45001:2018
- Endeavour Awards 2020 Winner (Excellence in Growth Award)
- Business SA Export Awards 2019 Winner (Manufacturing and Advanced Materials Award)
- Defence Teaming Centre 2018 Winner (Teaming Award)
- Impact Awards 2017 Winner
- ISO 9001
- ISO 14001

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COMPANY OVERVIEW

Trakka Systems design, manufacture and market sophisticated searchlights, gyro-stabilised camera systems, and augmented-reality mapping and optical technologies to see, to save and protect, from airborne, land-based and maritime platforms.

Our products provide active and passive critical vision solutions for a wide range of missions that include law enforcement, search & rescue, border security, military force protection & ISR, emergency medical services, utility inspection and environmental surveys.

PRODUCTS

- Searchlights
- Gyro-stabilised camera systems
- Augmented reality mapping and mission management

DISCRIMINATORS

- Trakka searchlights are the default choice of OEMs and users.
- Camera systems are competitively priced, with quicker delivery times compared to competitive systems.
- Camera systems are ITAR-free and more exportable.
- Camera systems are qualified to RTCA/MIL standards that ensure performance in the most extreme of operating environments.
- Trakka products have superior MTBF and quick turn-around time on service.
- Trakka is the only global supplier of a total mission solution providing seamless interoperability of the searchlight, the camera system, and the augmented reality mapping system.

AVAILABILITY AND SUPPORT

Trakka operates globally with sales and service facilities in Europe, the Americas, Africa, the Middle East and Asia, with dedicated manufacturing facilities in Australia, Sweden and the United States.

KEY CUSTOMERS

- | | |
|---------------------------------|------------------------------|
| • Danish Ministry of Defence | • Polish Navy |
| • German Ministry of Defence | • Polish Police |
| • Hungarian Ministry of Defence | • Swedish Maritime Authority |
| • Hungarian Police | • Ukrainian Helicopters |
| • Italian Air Force | • United States Air Force |
| • Nordic Unmanned | • United States Coast Guard |

KEY PARTNERSHIPS (SUPPLIERS)

- | | |
|-------------------------------|------------------------|
| • Airborne Technologies | • ESG GmbH |
| • Airbus Helicopters | • Grupo Alava |
| • Babcock | • Leonardo Helicopters |
| • Bell Helicopters | • Schiebel |
| • Diamond Aircraft Industries | • Sikorsky |

QUALITY ACCREDITATIONS AND AWARDS

- AS9100 C and ISO 9001 quality assured and EASA Part 21G manufacturing facility in Moorabbin, Australia
- EASA POA (Part 21) and MOA (Part 145) production facility in Sweden assures production and maintenance to the highest quality standards

CONTACT DETAILS

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COMPANY OVERVIEW

TraumaSim is a Global leader in military trauma training aids to improve combat health and medical response outcomes.

Since 2008, TraumaSim's growing range of simulated trauma solutions have been used around the world to help improve response outcomes for casualties and mental resilience of responding soldiers.

Our Part Task Trainer product range focuses on haemorrhage control for haemostatic dressing, wound packing and tourniquet application – all which support vital first aid training plus tactical combat casualty care (TCCC), medic and paramedic programs around the world. We also provide a wide range of medically accurate, wearable, silicone injuries which enhance any trauma training scenario.

TraumaSim has a range of solutions including custom design. One such custom designed aid was used in a police training program that has documented saving over 90 lives and won an international police award.

PRODUCTS

- Medically Accurate Training Aids to Support Combat Health Training
- Combat Health Part Task Trainers for Haemorrhage Control Training:
 - Emergency Tourniquet Trainer
 - Haemorrhage Control Simulator Junctional
 - Haemorrhage Control Simulator Lifecast Arm
 - Haemostatic Clotting Trainers
- Wearable injuries for Scenario Training:
 - Range of TraumaWear Injuries
 - Range of Silicone Wounds

DISCRIMINATORS

- Medically accurate with life-like feel and touch
- Made from high quality medical grade silicone (latex free)
- Designed and manufactured in Australia
- Developed in conjunction with feedback from both the Australian and Israel Defence Forces
- We are also the only provider that offers 11 different skin colours

AVAILABILITY AND SUPPORT

- Current European Distributors and after sales service:
 - SoFraPa Emergency Training Specialists (Italy)
 - Formamed (Switzerland)
- We are currently seeking further European Distributors

KEY CUSTOMERS

- United States Defense including Homeland Security, Department of Foreign Affairs*
- Israel Defence Force*
- Swiss Armed Forces*
- Bahrain Defence Force*
- New Zealand Defence Force*
- Australian Defence Force
- Police Forces including specialist units
- Ambulance Services
- Universities
- Royal Flying Doctor Service (Australia)
- Surf Life Saving (Australia)

(*via distributor)

KEY DISTRIBUTORS

- SoFraPA Emergency Training Specialists (Italy)
- Formamed (Switzerland)
- MDT Global Solutions (part of our range) (United Kingdom & Ireland)
- Military Moulage (United States)
- Leader healthcare (United Arab Emirates)
- TacMed Australia
- Aero Healthcare
- LivCor
- The First Aid Group

KEY PARTNERSHIPS (CONSULTING)

- Australian Defence Force
- Queensland Police Service (Australia)
- Fortescue Metals Group
- Queensland Rail (Australia)
- Royal Automobile Association (Australia)
- Road Transport Industry (Australia)

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COMPANY OVERVIEW

Universal Motion Simulation (UMS) is an innovative developer of high fidelity robotic vehicle motion simulators for applications where mission success depends upon a high degree of operator training when operating up to the limits of a vehicle's performance envelope.

UMS was established in 2017 to commercialise technology developed by Deakin University in collaboration with the Australian Army. UMS is contracted to supply driver training simulators with through-life support to the Australian Army for the Boxer Combat Reconnaissance Vehicle, M1A2 Main Battle Tank, M1A1 Armoured Engineering Vehicles, M88 Armoured Recovery Vehicle and is the recommended supplier of driver training simulators for the planned Infantry Fighting Vehicle, and the K9 Thunder Self-Propelled Howitzer.

PRODUCTS

UMS' core product is the Reconfigurable Driver Simulator (RDS), representing the next generation in vehicle training simulators. The RDS leverages proprietary motion cueing algorithms and industrial components to provide a level of fidelity that closely represents vehicle behaviour across its operating envelope, including at the limits of vehicle performance. An immersive environment is provided including a replica cabin and haptic controls, supported by detailed dynamics and terrain models, that closely replicate the actual vehicle operating experience. The RDS has been designed with a robust, flexible and modular architecture to allow quick vehicle changeover minimising the cost and effort of introducing new vehicle training systems.

DISCRIMINATORS

- Complete turnkey solutions based on modular architecture and rapidly interchangeable vehicle cabins providing an agile, future-proofed training system to meet training goals - superior training outcomes, lower cost, enhanced safety
- Customised industrial robot motion platform providing a large 6 degree of freedom motion envelope compared to convention motion platforms, replicating more closely the full range of vehicle motion and acceleration and allowing vehicle behaviour at the edge of the performance envelope to be explored in a safe, controlled environment
- Haptically enabled high-fidelity vehicle controls, instrument panels and visualisation hardware replicating the form, fit and function of the actual vehicle
- Advanced motion control algorithms producing high correlation between the real vehicle and simulated vehicle stimulation of the motion senses reducing the requirement for live training, the potential for negative training outcomes, the incidence of simulator sickness to a negligible level and resulting in a very high level of user acceptance

AVAILABILITY AND SUPPORT

- The Reconfigurable Driver Simulator is designed and manufactured to order and delivery will be > 12 months.
- Support arrangements can be provided directly by UMS or tailored to the customer's requirements.

KEY CUSTOMERS

- Australian Department of Defence, Capability Acquisition and Sustainment Group
- Australian Army

KEY PARTNERSHIPS (SUPPLIERS)

- KUKA
- MAK Technologies

KEY PARTNERSHIPS (CONSULTING)

- Deakin University (Australia)

QUALITY ACCREDITATIONS AND AWARDS

- Essington Lewis Trophy Winner 2020 (Defence industry award for excellence)
- Australian Department of Defence Industry Security Program (DISP)
- ISO 9001:2015 Certification. Bureau Veritas Certificate Number AU003798-1 issued 8th January 2020

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Australian Government
Australian Trade and Investment Commission



Australian Government
Defence



AUSTRALIA