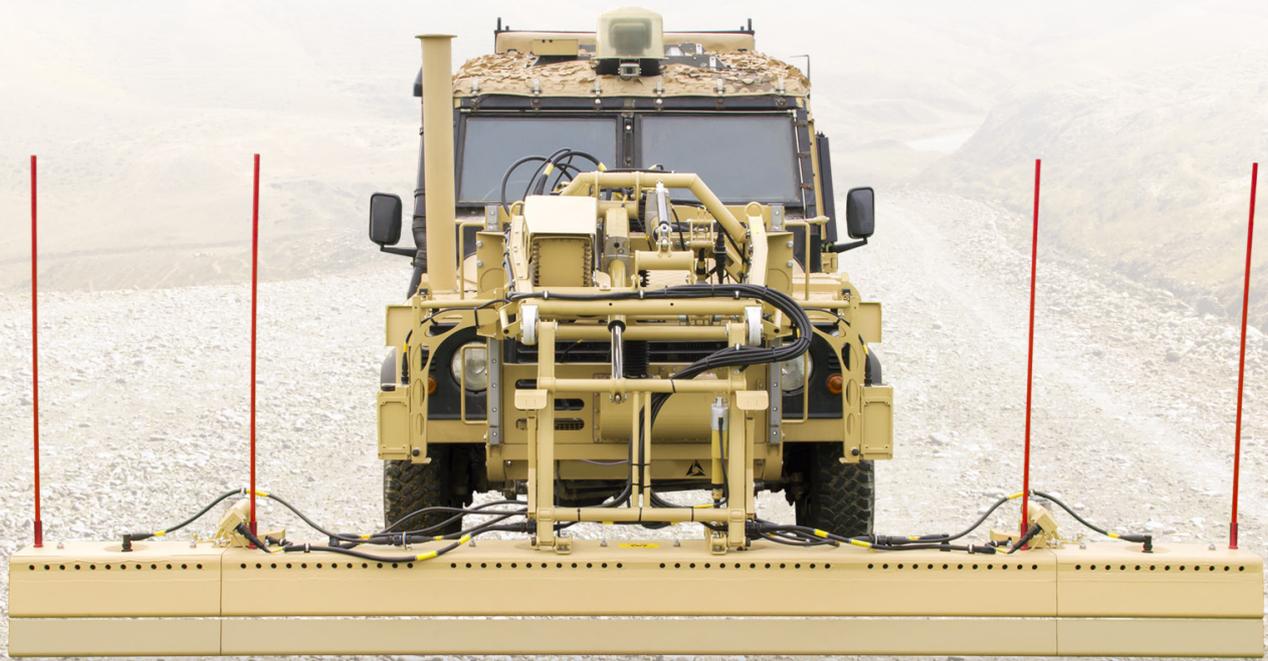


AMULET

Vehicle-Mounted Ground
Penetrating Radar for EOD

CHELTON



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Vehicle-Mounted Ground Penetrating Radar for EOD



Protecting lives and livelihoods

Chelton has developed an advanced multi-channel GPR-based detection system for Explosive Ordnance Detection (EOD) and mine clearance operations. The AMULET Series vehicle GPR system is modular and scalable, with low size, weight and power specifications, and can be mission-fit onto any tactical vehicle for fast deployment. Proven GPR technology provides high-performance detection of metallic, minimum-metal and non-metallic threats, including Anti-Tank (AT) mines and Improvised Explosive Devices (IEDs).

AMULET Detection System

The AMULET system will detect a wide range of buried metallic, minimum-metal or non-metallic threat types.

The AMULET system comprises a 4-channel QuadPack Ground-Penetrating Radar (GPR) sensor, a remote controlled High Definition (HD) camera, a control box (all of which are mounted on the host robot) and a Trimble Yuma which acts as a wireless Operator Control Unit (OCU).



A 4-channel QuadPack GPR module provides a 50cm detection swathe. This is scalable and additional QuadPacks can be added to the



system to increase swathe width as required. The system can also include an innovative lane-marking system and differential GPS data collection. These additions allow a safe lane to be marked by the robot when route-proving is required through vulnerable threat points or postconflict mine-contaminated land.

AMULET is a lightweight detection system, designed to be man-portable and deployed by a single operator. The GPR detection technology within the QuadPack sensor is based around the operationally proven Chelton GPR incorporated within the highly successful Minehound handheld detector.



The Human-Machine Interface (HMI) provides detection indications to the driver and vehicle commander.

Easy to use

The host vehicle cab fit elements provide detection indications to the driver and vehicle commander with control of the AMULET system being provided by the commander Human-Machine Interface (HMI). The power switch also acts as an emergency stop in the event this is required.

Detect, protect and defeat

Chelton's AMULET QuadPack has been used on Pearson Engineering's Routing Proving and Clearance (RP&C) Multi-Tool which detects a range of explosive threats, on and off route, and enables freedom of manoeuvre whilst maintaining operational tempo.



Ground Penetrating Radar (GPR)

Chelton has over 30 years experience of developing advanced Ground-Penetrating Radar (GPR) detection systems to support Counter-IED and mine clearance operations. These high-performance systems are designed for the most demanding military and humanitarian requirements, and include both handheld and vehicle/robot-based products. These systems have been used across the world in a variety of terrains and ground conditions which builds upon a significant understanding of leading-edge GPR technology, soil physics and end-user requirements.

For further information, please contact:

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