

# Husky Mounted Detection System with Wire Detection (WD)

Sensors and Electronics | Counter-IED

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The Wire Detection Array is an added sensor capability for the Husky Mounted Detection System. This technology, integrated with ground penetrating radar (GPR), delivers high performance detection of command wires and wiring systems used to remotely detonate or trigger buried explosives and other threats.

Chemring Sensors and Electronic Systems' (CSES) battle-proven Husky Mounted Detection System (HMDS) has played a critical role for area and route clearance operations for the US military and its allies. The HMDS can be augmented with a Wire Detection System Array, or PODS, to provide detection against the thinnest of wires used to connect explosives to triggers, or other command or autonomously detonated systems utilizing wires. This technology provides the ability to detect wires independent of the orientation of the wire or the approach angle of the vehicle. Additionally, it provides improved detection performance when the moisture content of the substrate increases. The HMDS with Wire Detection provides very high probability of detection (Pd) and very low false alarm rate (FAR). It has also been designed to be interoperable with most deployed electronic systems on vehicles.

## System Components

The Wire Detector system consists of up to six PODS sensors integrated into a single assembly routed into a Vehicle Interface Box. This Interface Box provides the feed into the GPR Graphic User Interface. The sensor array is located forward of the vehicle front bumper to provide detection prior to overpass. The system is also adaptable to other vehicles using varying numbers of PODS. CSES' technology enables users to view multiple

sensor feeds in one simple, easy-to-use interface, providing soldiers and commanders a real-time common operating picture of buried threats.

PODS was originally developed by Chemring Technology Solutions (CTS), a provider of R&D, technology consultancy and specialized products to the defense, security and commercial markets, with its core expertise in communications, sensors and information systems. CSES partnered with CTS to deliver the Husky Mounted Detection System with the Wire Detection capability.

## Benefits

- Detection of command wires and cables of varying gauges
- Seamless integration of GPR and PODS into a single Graphical User Interface
- Optimized performance on various terrain under varying environmental conditions to include severe wet conditions
- Combined GPR and PODS technology increases probability of detection of buried threats and their wiring systems

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Version: 03/03/2021

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