



BLDS SPOC4 BATTLEFIELD LASER DETECTION SYSTEM

TECHNOLOGY DEMONSTRATOR

ENGINEERED FOR PRECISION, BUILT TO PROTECT

The BLDS SPOC4 (Battlefield Laser Detection System – Soldier Proof of Concept 4) is a cutting-edge, compact technology demonstrator designed and purpose-built to protect military personnel and high-value assets from modern threats. With high-speed, interference-free laser detection and ruggedly designed, it enhances situational awareness and survivability beyond 2 km.

Through 2025, BLDS SPOC4 will evolve into a fully networked system, seamlessly integrating soldier-worn and vehicle-mounted platforms with threat identification for unparalleled battlefield awareness.



ENHANCED SITUATIONAL AWARENESS AND SURVIVABILITY

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KWESST.COM



// KEY BENEFITS

- **Unmatched Accuracy** - Captures subtle laser threats with precision.
- **Interference-Free** - Filters distractions for reliable alerts.
- **Ultra Sensitive Detection** - Detects fleeting signals instantaneously.
- **Immediate Feedback** - 300ms audible alert gives operators instant overmatch.
- **Power Versatility** - Supports Nett Warrior systems (10-17 VDC).

// WHY CHOOSE BLDS SENSOR TECHNOLOGY

- **Speed and Precision** - Instant, actionable intelligence.
- **Reliability** - No false positives, only real threats.
- **Flexibility** - Adapts to all mission needs.

// APPLICATIONS

- **Personnel Safety** - Real-time warnings save lives.
- **Defends Assets** - Protects vehicles and command posts.
- **All-Domain Protection** - Protects across air, land, and sea.
- **Infrastructure** - Protects bases, buildings and critical sites.

// UPCOMING ROADMAP ENHANCEMENTS

- **Networking** - Onboard processing and integration with ATAK-based platoon connectivity.
- **Vehicle Integration** - Connects to battle management and active protection systems.
- **Threat Insights** - Pairs with KWESST's proven threat-classification technology for real-time response tailoring.

// TECHNICAL SPECIFICATIONS

- **Sensitivity Rating** - Detects photocurrents as low as tens of μA .
- **Pulse Range** - Captures 30 ns to 1 ms signals.
- **Threshold** - Alerts at 5 mV above noise.
- **Power** - 10-17 VDC, ~2W, Nett Warrior-compatible (6-pin connector, Glenair 808-274 cable).
- **Battery** - Proven with Nerv Centr SoloPack (Galvion).
- **Range** - Proven detection of Class 1 & 3R lasers at ≥ 2 km (900-1550 nm).
- **Size** - 84mm (w) x 122mm (h) x 41mm (d)
- **Weight** - +/- 500g



Soldier-worn application.

Commercial in confidence.