



# BLDS SPOC4 BATTLEFIELD LASER DETECTION SYSTEM

HIGH-SENSITIVITY, REAL-TIME LASER THREAT  
DETECTION FOR THE MODERN WARFIGHTER

## ENGINEERED FOR PRECISION, BUILT TO PROTECT

Battlefield Laser Detection System (BLDS) empowers military operators with the speed and situational awareness required to survive and dominate in a laser-threat environment. Whether on foot or in a vehicle, soldiers equipped with BLDS gain a decisive edge through early warning, threat identification, and integration with the broader tactical network.

### Applications:

- Dismounted soldiers • Vehicles • Vessels
- Command posts • Forward operating bases
- Critical infrastructure protection



BLDS SPOC4

ENHANCED SITUATIONAL AWARENESS AND SURVIVABILITY

For more information contact  
[office@kwesst.com](mailto:office@kwesst.com)

[KWESST.COM](http://KWESST.COM)



## // PRODUCT OVERVIEW

Laser-enabled threats—such as Laser Rangefinders, Laser Target Designators, and Beamrider Missiles—are increasingly present across modern battlefields. These systems pose significant risks to personnel, vehicles, and critical infrastructure.

To address this evolving threat landscape, KWESST Inc., has developed the BLDS SPOC4. This advanced sensor provides real-time alerts on the presence, location, and type of laser threats, enhancing operator survivability and enabling future capabilities such as automated threat classification and coordinated response.

Crucially, the BLDS is designed to be low-cost, fully consumable, and maintenance-free—making it ideally suited for scalable deployment across dismounted forces, vehicles, and fixed installations. Its affordability and ease of use ensure sustained readiness and operational flexibility in high-threat environments.

## // KEY FEATURES

### Broad Spectrum Detection

- Detects laser threats across a wide operational spectrum (900–1550 nm / 0.9–1.55  $\mu\text{m}$ )

### Extended Range

- Detects optical pulses from lasers over the full range of distances, up to and beyond 2 km, including low-emission devices

### Interference-Free Operation

- Designed to operate in high-clutter environments without causing false alarms

### Modular & Scalable

- Easily integrates with Nett Warrior systems and soldier-worn or vehicle-mounted platforms

### Network-Ready (TAK Compatible, 2025 Roadmap)

- BLDS leverages the Tactical Assault Kit (TAK) framework for real-time networked alerts and situational awareness
- Seamless integration with existing Battle Management Applications (BMA)

### Actionable Intelligence

- Laser pulse-train capture to identify and classify laser sources
- Differentiates between blue force and opposing force emissions
- Enables precise, informed decision-making at all echelons

#### Current Readiness

- Technology Readiness Level 6 (TRL6)

#### Future Development

- Expanded deployment on both soldier and vehicle platform
- Full integration with battlefield networks
- Enhanced threat identification and classification features



Soldier-worn application (form factor subject to change).