

The only Wearable LWS that can detect and identify

# TACTICAL WEARABLE LASER WARNING SYSTEM TWL-200





## TACTICAL WEARABLE LASER WARNING SYSTEM



In an ever-evolving landscape of modern warfare and security challenges, the TWL200 Wearable Laser Warning
System stands as a pinnacle of innovation, designed to ensure the safety and effectiveness of military personnel in
laser-threat environments. This advanced system offers real-time laser detection, directional alerts, and a suite of
cutting-edge features that empower users with unmatched situational awareness. In this document, we provide
comprehensive details on the specifications and performance metrics that make the TWL-200 an indispensable
asset for military operations.

#### **Laser Detection**

- Response Time: < 200 milliseconds.</li>
- Wavelength Coverage: 700 to 1700 nanometers
- Pulse Repetition Frequency (PRF) Detection: DC to 1 Mhz.
- Minimum Detectable Energy: 500 microwatts per square centimeter.

## **Laser Types and Corresponding Wavelengths**

**Guidance Lasers:** The TWL-200 can detect various guidance lasers used in military applications, including:

- 532 nanometers (green laser)
- 1064 nanometers
- 1300 nanometers
- 1550 nanometers

## Range-Finding Lasers

The system is capable of identifying range-finding lasers operating within the wavelength range of 700 to 1700 nanometers.

## **Physical Dimensions**

**Key Performance Metrics** 

**Detection Sensitivity** 

Width: 58±2 mm(2.28 inches)
 Height: 44±2 mm (1.73 inches)
 Length: 97±2 mm (3.82 inches)
 Weight: 220 grams (0.49 lb)

#### **Power and Battery**

- Power Source: Rechargeable built-in battery.
- Dimension: 140 grams(0.31 lb)
- Continuous Operation: Up to 24 hours.

#### Field of View

- Horizontal Field of View: Up to 220°.
- Vertical Field of View: Up to 110°.
- Azimuth Detection: Up to 360°.

#### **Environmental Resilience**

 Ingress Protection Rating: IP69K (Submersible).

30<sub>MM</sub>

Drop Resistance: Up to 2 meters (6.56 feet).

#### **Audio and Vibration Modes**

#### Adjustable Volume Levels

Low: 80 dBAMedium: 90 dBAHigh: 105 dBA

node

136,8мм

**Mode Options**: Sound mode, vibration mode, and sound and vibration modes together.

#### Log Capability

Log Storage: Up to 500 detections.

## **Long Battery Life**

Extended battery life allows for continuous operation without frequent recharging.

D38999/26WD19PA

A BATTERY+++

BATTERY+++

BATTERY---

D BATTERY---M CANL

CANH

Accurate identification of laser sources with minimal false alarms.

Rapid detection of laser threats, including guidance or range-finding lasers.

## **Directional Alerts**

- · Real-time audio and/or vibration alerts indicating threat location (e.g.,
- "threat detected on far-left side").
- Enhanced situational awareness for immediate response.

## **Battery Efficiency**

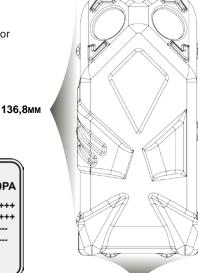
- Up to 24 hours of continuous operation, reducing the need
- · for frequent recharging.
- Power-efficient design or prolonged field use.

# Integration and Compatibility

- Seamless integration with existing military headgear.
- Advanced Friendly and Foe Detection Algorithms.
- Incorporates algorithms for differentiating between friendly and hostile laser sources.
- Utilizes PRF passcodes to enhance identification and security.

# Security Measures

Enemy-disabling function safeguards sensitive technology from potential misuse.



58мм