



# WINDSCEPTOR®

## ThunderBolt Laser Wind and Range Sensor



### Performance Specifications

Range Measurement	20 m to 1,600 m
Range Measurement Accuracy	± 1 m
Wind Measurement	80 m – 100 m Headwind and Crosswind
Wind Speed Bounds	-25 m/s to 25 m/s
Wind Measurement Accuracy	± 1 m/s
Measurement Time	1 sec
Eye-Safety	Class 1 Eye-Safe
Battery Life (rechargeable)	USB/Power Rail
Visible Aiming Laser	630 nm co-aligned to LRF 25 m in daylight conditions, unaided eye
Infrared Aiming Laser	830 nm co-aligned to LRF 600 m (low power mode) 2000 m (high power mode)
Data Output	Wifi/Bluetooth/Wired, ATAK Cursor on Target

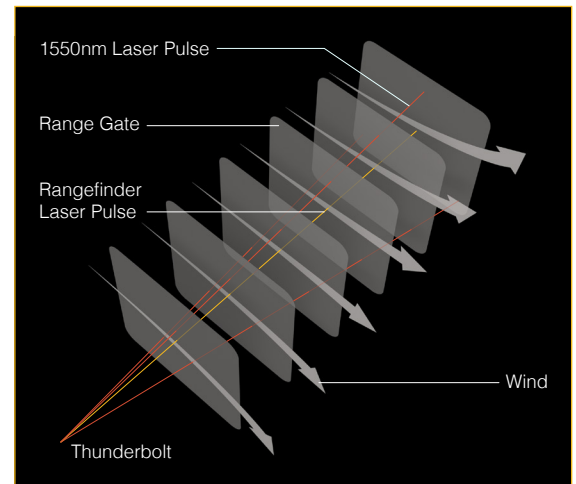
### General Specifications

System Dimensions	93.75 mm x 70 mm x 43.75 mm
Total Weight	< 14 oz.
Water Protection	IP67 Compliant
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 85°C

### Additional Feature

- Rifle Mounted

### How ThunderBolt works



*The ThunderBolt fires a series of 1550nm eye-safe laser pulses into the atmosphere. As the laser pulses travel through the air, a small fraction of the laser light is reflected back from microscopic dust particles naturally entrained in the air. The sensor detects this reflected light and computes the speed and direction of travel of these dust particles (and consequently the speed and direction of the three-dimensional wind) using the Doppler Principle.*

### Rifle-mounted day/night wind sensor and rangefinder

The Thunderbolt laser wind and range sensor is the only rifle-mounted device that remotely measures wind speed and direction as well as range-to-target. Weighing less than 14 ounces, the Thunderbolt also includes visible and near-infrared laser pointers and illuminators. This sensor is effective in any situation.