

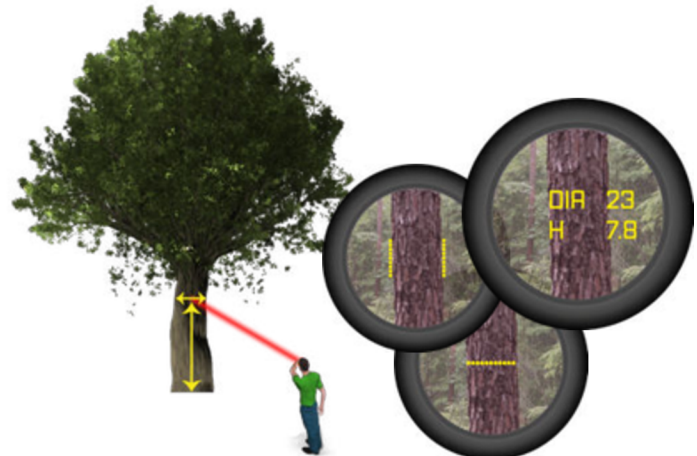
# Vertex Laser Geo 2



Elevate Your Field Data with the VERTEX LASER GEO 2

Rangefinder—Hypsometer—Remote Diameter—Bluetooth—Compass—GPS

## Unleash the Power of Precision



### Long-Range Measurement

- Up to 700 meters or 2000 feet

### Integrated Sensors

- Tilt, Compass and GPS sensors.

### Remote Diameter Capability

- Measure diameters from a distance.

### Programmable Platform

- Customize the GEO2 with various application to suit your field requirements.

### GPS and Mapping

- Tag data with coordinates and save to memory

### Robust Design

- IP67 Environment Rating

### Powerful Communication

- Dual-mode Bluetooth V4 Low Energy for efficient data transfer.

### Sustainable Energy

- A built-in Li-ion battery, rechargeable via USB.

This cutting-edge tool is designed to revolutionize the way you measure, map, process, and store data in the forest and beyond.

#### Exceptional Measurement Capabilities:

- **Long-Range Precision:** Harness the power of a high-precision laser with integrated tilt and compass sensors for accurate 3D measurements.
- **Innovative Remote Diameter:** Measure diameters from afar, with results shown on an integrated heads-up display and a side-mounted graphic display for unparalleled clarity.

#### Tailored to Your Needs:

- **Fully Programmable:** The GEO2's high-tech platform is customizable, allowing you to select from a range of application modules to meet your specific requirements.
- **Real-Time Field Flexibility:** Store different modules in GEO2 and switch between them in the field, ensuring you have the right tools at your fingertips.

#### BAF (Basal Area Factor)

- **Reverse Prism:** It avoids many issues of traditional prism cruising, as blocked views from the plot center.

#### Advanced GPS and Mapping:

- **Seamless Data Tagging:** With a built-in GPS receiver, tag your data with coordinates effortlessly.
- **Efficient Data Storage:** Keep data secure on a built-in SSD memory with 1000 MB capacity, ready for processing with any PC or Apple computer via USB. **Direct GIS Integration:** Open files directly in your preferred GIS or spreadsheet application, with built-in features for complex operations like area measurement and 3D target mappin.
- **External Bluetooth GPS:** The instrument can also connect to an external Bluetooth GPS and use its coordinates for better accuracy.

#### 3D Vector Functionality:

- **Expand Your Horizons:** Measure remote targets such as canopy width with the innovative 3D vector function, taking your data collection to new dimensions.



Enhance your forestry operations with the Vertex Laser Geo 2, the ultimate instrument system equipped with integrated ultrasound technology. Designed for the professional who navigates dense forests and thick underbrush, the Vertex Laser Geo 2 stands out with its ultrasonic transponder, perfect for Fixed and Variable Radius sample plots and precise boundary determination.

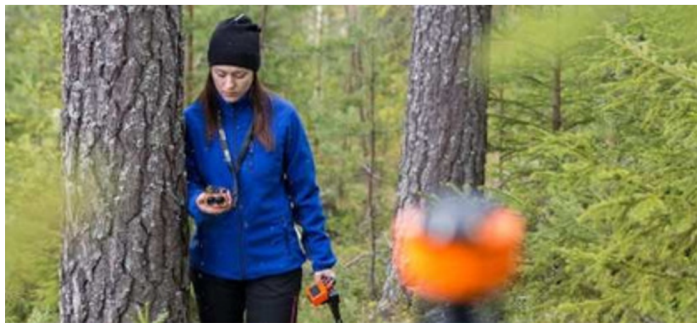
**Height Measurement Made Easy:** Choose from 3-point, 2-point or 1-point direct measurement methods with an intuitive menu system. The non-magnifying dot view aids in identifying single targets, such as tree tops and power lines, with ease.

**Remote Diameter Measurement:** Record diameters while measuring heights, or determine heights for a fixed diameter, adding versatility to your data collection.

**Customization at Your Fingertips:** Stay ahead with the ability to implement new features and receive custom applications tailored to your needs.

**Effortless Communication and Power:** Experience long-range wireless data transfer to your handheld device with the built-in dual-mode Bluetooth V4 Low Energy transceiver. The long-lasting Li-ion battery, charged via a mini-USB interface, ensures you're always ready for the field.

Transform your approach to field data collection with the VERTEX LASER GEO 2. Contact us today to discover how it can enhance your work!



**Work Smarter with Vertex Laser Geo 2:**

**Ultrasound in Dense Vegetation:** Measure distances with ultrasound when laser visibility is compromised.

**Sample plot Inventory:** Ideal for scenarios where the target is obscured or not visible with a laser.

**Reverse Prism / Basal Area Factor (BAF)**  
This method works well in forests where the plants are thick and close together, as it gives accurate results even in these hard situations. It avoids many of the problems that come with traditional prism cruising, such as blocked views from the plot center.

The Vertex Laser Geo 2, in combination with the T4 transponder, transforms your approach to field data collection, offering precision and reliability where it matters most. For more information or to discuss upgrades and customizations, please contact us. Let the Vertex Laser Geo 2 be the tool that elevates your forestry work to new heights.

**Vertex Laser Geo 2**

Size:	93x63x72mm/3.7x2.5x2.8".
Weight:	243 g/8.6oz.
Battery and consumption:	Rechargeable Li-Ion 3.7V, built-in, approx. 2000 measurements. Charging time max 3.5h. USB mini B interface wall charger 110/220AC/5VDC; car charger adapter 12VDC. Cable Usb mini B Male/Usb Type A Male, 0.5m. Consumption max 0.9W.
Communication:	IR, USB 2.0/SSD Disk. Dual-mode Bluetooth BR/EDR. Bluetooth low energy V4.2 (LE) and Classic connectivity. Spp (serial profile), pin code 1234.
Temperature:	-20° to +45° C / -4°F-113°F.
Height:	0-999 m/ft. Resolution height: 0.1 m/ft.
Angle:	-90° - 90°. Unit: Degrees 360°, Grads 400° and %. Resolution: 0.1°. Accuracy: 0.1° typical.
ULTRASOUND:	Distance: 30 m/98 ft. With 360° adapter: 20 m/60 ft. Accuracy distance: 1% or better typical. Resolution distance: 0.01m/0.1ft.
LASER:	Distance: 46cm/1.5ft - 700m/2000ft depending on target. Accuracy: 4cm/0.1ft typical. Resolution: 0.1m/ft (0.01m/0.1ft in DME-mode).
Area	0<area<5000m2 or 0.5ha<area<10000ha 0<area<20000f2 or 0.5acre<area<10000acre
Remote diameter	Sight range: 0-46 positions Max diameter: 47" at 39ft / 98cm at 10m Resolution: 0.1" / 0.1cm Accuracy: 0.5" at 39ft / 1.2cm at 10m
BAF	(Basal Area function). BAF factor can be set between 000.0 and 999.9 (m2/ha) alt. (ft2/acre).

GPS	33-channel high sensitivity receiver. Supports GPS, Glonass, Galileo, QZSS. Built-in real time correction w SBAS (EGNOS, WAAS, MSAS, GAGAN) Accuracy down to 2.5m/8.19ft in open terrain. Satellite position prediction for up to 3 days. Host Based multi-global navigation satellite system GPS(USA)/GLONASS(Russia)/Galileo(EU)/QZSS(JAPAN) SBAS Satellite-based augmentation systems: WAAS(US) EGNOS(EU) GAGAN (India) MSAS(Japan). Built-in self-generated orbit prediction (Faster TTFF up to 3 days), built-in jamming removing. Accuracy: Automatic position 2.5m CEP (circular error probable) (50% 24 hr static, -130dBm. Speed 0.1m/s (50%@30m/s).
Compass	Azimuth compass 0-360° or 0-400°, resolution 0.1°, accuracy <1.5 RSM E°. MIL-STD-810E. Housing frame material glass filled poly carbonate, IP67, NEMA6, Laser class 1, 7mm (FDA, CFR21) Class 1m (IEC 60825-1:2001). Dot aim 1x magnification.
Classification:	External Graphic LCD 100x60pixels. Internal Heads-up display. Nmea or Ascii. IR, Bluetooth BLE.
Sight:	External Graphic LCD 100x60pixels. Internal Heads-up display.
Display:	Nmea or Ascii. IR, Bluetooth BLE.
Dataformat:	CSV and KML Google Earth.
File Format:	2000 datasets, non-volatile.
Memory:	LGEO 2: Monopod staff with foot bracket for steady aim.
Other information, details, accessories etc.	VLGeo 2: Transponder T4 for ultrasound measuring (1 ea AA 1.5V alkaline battery necessary for T4, power consumption 9mW). Adapter and monopod staff, 4-parts (33-140cm) weight approx. 270g/9.5oz. LGEO 2 & VLGeo 2: Aluminum transport/storing case. See user manual for more details.



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