

Breaking the barrier between laser and ultrasonic, we proudly present

The Vertex Laser



Combining the Best Measuring Technologies in one Compact Ultra-light Instrument!

Giving you the Accurate Results you Need for Distance, Height and Angle – at the Speed of Light!

With field operators and foresters special requirements in mind, the New Vertex Laser is designed in a rugged and lightweight construction. With simple operation and flexible use, it will offer very accurate measuring results on distance, horizontal distance, angle and height.

The combined Vertex Laser instrument allows measuring work in all types of terrain and surroundings. Dense forest and difficulty to target – work with the ultrasonic Vertex. Clear sight and longer distances – use the Laser! With various options to get the height and distance results you need, you are always prepared with the new Vertex Laser!

Ultrasound and Laser Technology

With the proven accuracy of the Vertex hypsometer and the advantages and speed of laser technology, this multi-functioning instrument is the only device you will need for your height, distance and angle measuring work. The pioneering technology makes field operation measuring work faster and more efficient than

ever before, offering significant time- and cost savings, improving the result accuracy and increasing productivity.

Depending on the working conditions, you are able to choose between measuring with the laser or the ultrasound technology. If a clear line of sight is available to the target, the laser can be used. If undergrowth is thick and vegetation is dense, use the Vertex ultrasound in stead! Save time, money, and carrying space and perform your most accurate end efficient measuring work ever!

Water resistant and with the automatic “Rain mode”, providing secure measuring results also in rain, the new Vertex Laser is developed to meet the harsh realities of daily forest and field work.



You have a clear line of sight to the measuring object – use the 1-point measuring with Laser. Use the 2- or 3-point measuring if the target is not horizontally aligned. The Laser is the ideal method for measuring heights of leaning objects.



Making Field Inventories

– Working in the forest means finding yourself in many different types of surroundings and weather conditions. Sometimes you will have a clear line of sight to the measuring object – use the 1-point measuring with laser and get the fastest possible height results. Your target may be visible but leaning and not horizontally aligned – this is the ideal situation for the 2- or 3-point measuring with laser.

You come to an area where undergrowth prevents you from seeing the base of the tree and you have difficulties to spot the target tree among other trees – the Vertex ultrasound will be perfect for this operation. Place the T3 transponder on the target tree, step back until you see the top, aim towards the transponder and towards the top with the cross hair sight – and the total height is displayed.

Radius Measuring - Ultrasound offers a superior solution for radius measuring work in sample plots. Measure the distance to the centre in a 360 circle, with the T3 transponder placed on the light, telescopic monopod staff, and determine if the tree is within the plot radius. If so – measure the tree height using either the ultrasound or laser.

BAF-function - Trees covering other trees – that is forest, and the forest is your worksite!

Measuring or even estimating the tree diameter is difficult when sighting is poor. Now, with the Vertex built-in BAF-function, the minimum tree diameter for trees to be included in the point can be featured. Just stand by the tree and measure the distance to the reference point using Vertex ultrasound technology.

The well-known proven functional T3 ultrasound transponder has been given a new task – working as an optional reference for distances longer than 400 meters/yards.

Measuring Power Lines - Our most asked for product improvement is now a fact. With the Vertex Laser, you will get the accurate power line measurements you need. Use the 1-point measuring with laser to get the distance and angle to the top – and the height is instantly displayed. Perfect for hazardless detecting of line sags, with higher precision and much quicker results!



Long Distance Measuring - The Vertex Laser is ideal for measuring out longer distances – up to 400 meters/yards! With reflector you can even measure distances as far as up to 900 meters or yards!

Two Aiming Sights for Improved Results - One of the great advantages with the Vertex Laser is its two aiming sights. The Vertex red cross hair sight has a 1-time magnification and works for all shorter-range distances, and is often chosen for angle measuring. The Laser sight magnifies the object 8 times, to simplify measuring of distant objects. Either sight can be chosen depending on the situation since they are aligned.

Laser Scan mode - For objects that are distant or narrow – for example power-lines, the Laser scan-mode is perfect. Keeping the power-key pressed, the instrument will perform a multiple measuring operation, until you find the right position for the accurate results you need.

User Programmable - Measuring distances and heights in English or metric, with angle results displayed in degrees, gradients or percent grade, the Vertex Laser instrument is truly flexible and useful for all field-measuring operations.

Transfer of Results – is made through the built-in infrared port. The results are simply transferred to and stored in the Mantax Computer Caliper, a handheld computer, or other device.

Speed and Incomparable Size – The rapid result features of laser technology will simplify the measuring process and literally takes the burden out of fieldwork. The Vertex Laser weighs no more than 260 gr or 9 oz!

Time Saving and Cost Efficient – the significant savings in time when using the Vertex Laser offer increased productivity. Along with the very accurate results you will get, the Vertex Laser with its incomparable size and unbeaten number of features is the indisputable choice for your measuring work!

Technical Specification

Vertex Laser

Size: 95 x 70 x 58 mm, 3.7" x 2.7" x 2.3"

Weight: 260 g, 9 oz (incl. battery)

Battery: 1 x CR 2 Lithium 3V

Consumption: 60mW

Temperature range: -15° to +45° C, 5 F-113 F

Height: 0-999 m/y

Resolution height: 0.1 m/0.1 ft

Feet/meter: YES

Angle

Angles: -55° - 85° deg

Deg/Grad/%: YES

Resolution angle: 0.1 deg

Accuracy angle: 0.1deg



The Vertex Laser is ideal for measuring out longer distances – up to 400 meters/yards! With reflector you can measure distances as far as up to 900 m/yds!

Use the **New Vertex Laser** to get the accurate power line measurements you need. Use the 1-point laser to measure the distance and the angle to the top – and get the height.



Measuring tree heights and plot radius in dense vegetation and rough undergrowth - perfect timing for the Vertex! With proven reliability and accuracy, the ultrasound measuring method offers fast and precise height- and distance measuring in difficult surroundings.

Laser

Distance non reflecting target: max 350m/400y (aut.reset reflect/ nonreflect target)

Distance with reflector: From 130m to max 900m/150 to 999 y

Resolution distance: 0.5m/y <100m/y; 1 m/y>=100m/y

Accuracy distance: +-0.25m/y <100m/y; +-1 m/y>=100m/y

Number of measuring operations per battery: app. 6000times

Laser aim: Aim point; 8x magnification

ZipThru >140m/y (filter): YES

Scan (continuous measuring): YES

Yards/meter: YES

Ultrasound

Distance transponder 60°: 30 m/98 ft or better

Distance with 360°: 20 m/60 ft or better

Resolution distance: 0.01 m/0.1 ft

Accuracy distance: 1% or better

Vertex aim: Aim point; 1 x magnification

Transponder T3

Size: Diameter 70 mm/2.8"

Weight: 85 g, 5 oz (Incl. Battery)

Battery: 1,5V AA alkaline

Consumption: max 9mW

Art no VL400 incl. Vertex Laser measuring instrument and T3 Transponder. **TRP360PL** Transponder, Adapter and Monopod; **TRP60** transponder T3 only; **ADAPT** adapter only; **CPIN** monopod only

CE

