TruPulse Dendroscope

with Field-Map software

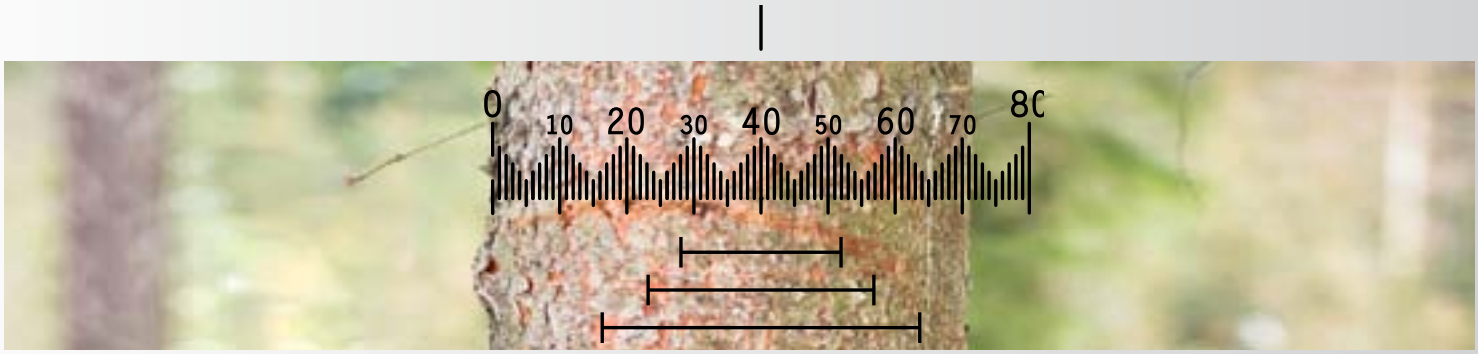
TruPulse is a lightweight laser range-finder and inclinometer optionally combined with electronic compass. Data communication is available through standard serial port or via Bluetooth.

An optional reticle makes it possible to measure tree and branch diameters at various heights. The accuracy of diameters measured by the scope depends on the measurement distance. Usually the measurement error is within 1-2 cm for diameters around 30-50 cm. Moreover, TruPulse Dendroscope has an additional reticle for angle count sampling (basal area factors 0.16, 1, 2 and 4). The Dendroscope provides the functionality of relascope® including automatic slope correction.

Weight:	220 g
Size:	12 x 5 x 9 cm
Power supply:	2 AA batteries
Temperature range:	-20 to +60°C
Resistance:	water and dust (IP 54)
Accuracy (distance):	±30 cm; typical
Accuracy (inclination):	±0.25°; typical
Accuracy (azimuth):	±1 °; typical
Range measurement:	up to 1000m; typical
Accuracy (diameter):	3%; typical
Zoom:	7x

Field-Map software options supporting remote diameter measurement

TruPulse Dendroscope is fully supported by software Field-Map Data Collecor.



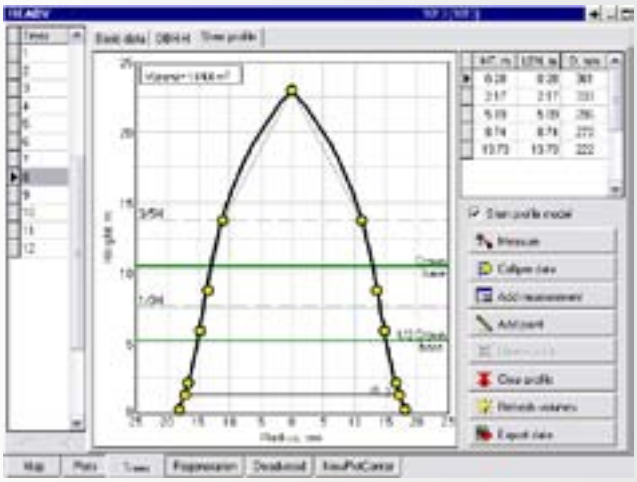
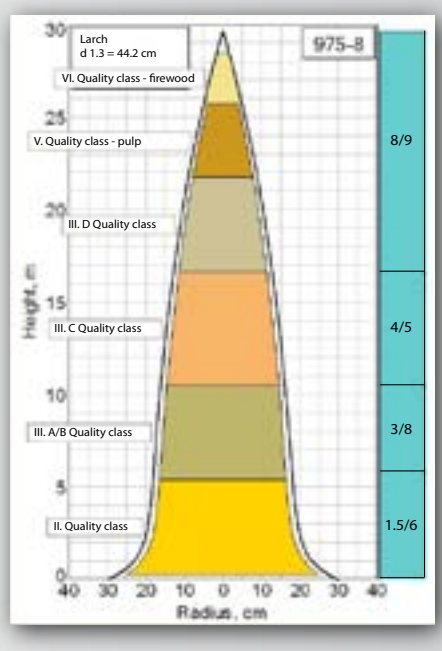


Chart of a stem profile automatically generated by a special module of the full version of Field-Map (for Windows).



If the aim of the data collection is the standing timber assortment, further data processing can be performed by Field-Map Stem Analyst.

Hardware

To increase the accuracy of stem profile measurement TruPulse Dendroscope can be placed on a tripod or monopod.
A reticle integrated in the scope enables to calculate the upper diameter at any tree height.
The basal area factors integrated in the reticle enables to use TruPulse Dendroscope for angle count sampling.

	TruPulse 200	TruPulse 200 B	TruPulse 200 Dendrosc.	TruPulse 200 B Dendrosc.	TruPulse 360	TruPulse 360 B	TruPulse 360 Dendrosc.	TruPulse 360 B Dendrosc.
Horizontal, Vertical and Slope distance	■	■	■	■	■	■	■	■
Inclination and Height	■	■	■	■	■	■	■	■
Built-in Compass (Azimuth)					■	■	■	■
Missing Line Routine					■	■	■	■
Advanced Targeting Modes	■	■	■	■	■	■	■	■
Built-in Serial Port	■	■	■	■	■	■	■	■
Bluetooth® Communication		■		■		■		■
Remote diameter			■	■			■	■
Angle count sampling			■	■			■	■

Field-Map software also supports other hardware, such as electronic caliper, GNSSPS, any computer running Windows, etc.

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