

ForestAce[®] 300



HANDHELD REFLECTORLESS LASER FOREST SURVEY SYSTEM



MDL
Laser Systems

a world leader in laser measurement technology

ForestAce® 300 is a simple yet powerful high performance laser system based on the highly successful LaserAce® 300.

ForestAce® 300 is designed for outdoor all weather operations and will measure to all types of materials at ranges up to 300m/ 500ft. Used with a reflector, distances of up to 5km can be measured. As well as being able to measure and calculate:

- Distance to targets
- Elevation to targets
- Heights of large objects

ForestAce® 300 incorporates two and three point heighting routines. Using an external telescope, the user can measure tree diameters and trunk volumes, enabling foresters, engineers, surveyors and GIS practitioners to easily and efficiently measure and calculate many attributes.

Using the external telescope

Using a simple telescope with vertical graduations, the tree is “framed” between any two stadia hairs and the laser is fired. The diameter of the trunk at that point is calculated and displayed. Sight two further points on the trunk and the height and volume of timber between the two points is also calculated.

This highly versatile handheld instrument can also be simply upgraded from 2D to 3D by adding the optional compass or angle encoder. It can then be used to measure crown spreads, distances between trees and other mapping and GIS & GPS applications.

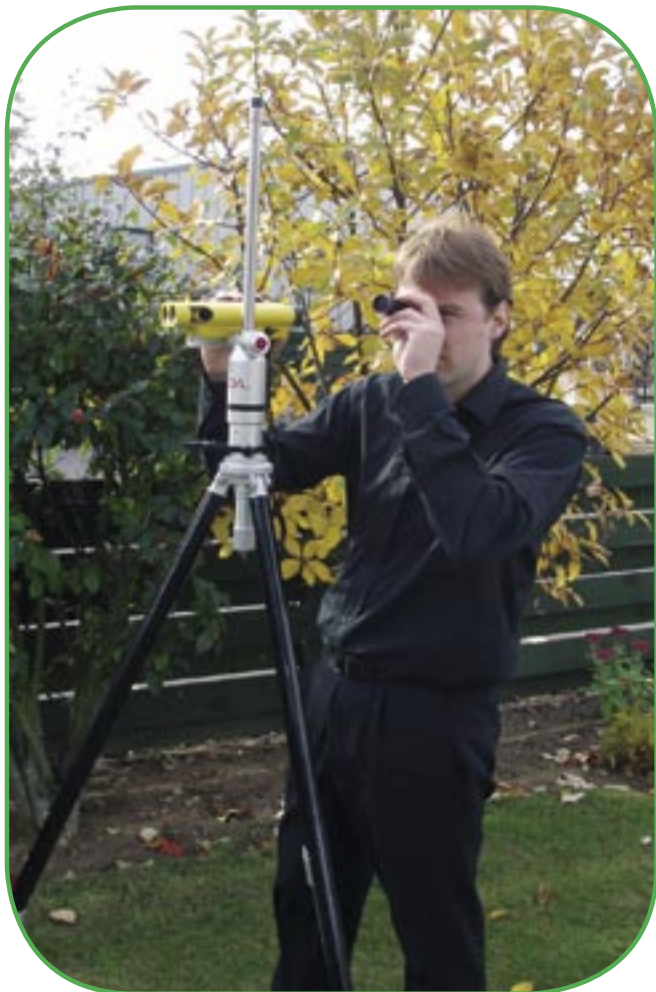





 Measure the height of a tree easily



 Measure distances between trees



 ForestAce® 300 shown with Encoder and telescope



 External telescope for diameter measurements



Benefits

- Long range measurement - less walking, increased productivity
- Measure cylindrical volumes
- Tree height and diameter
- Measure crown spread easily (with compass or encoder)
- GPS & GIS offsetting (with compass)
- Handheld 3D measurements (with compass)
- Single all-in-one integrated unit
- No need for targets
- One person operation
- Red dot scope - easy to aim in all light conditions
- Multifunction modes - increased productivity, difficult measurements made easy
- Accessories available - adaptable for multi-role options
- Easy to integrate with GPS receivers
- Proven design, low investment risk

Measures

- Distances
- Bearing & elevation
- Tree clearance
- Tree span measurements
- Volumes & diameters
- Slopes & gradients
- Areas (plan & slope)
- Perimeter distances
- Tree height measurement

Technical Specification

- Class 1 eye safe laser (FDA/ IEC)
- 300m / 1000' reflectorless range (no reflective target)
- 5km with reflectors
- Accuracy 10cm / 4"
- Range resolution 1cm
- Measuring time 0.3sec

Inclinometer

- Type: Accelerometer
- Range: -70° to +70°
- Accuracy: 0.3° at 0°
- Resolution: 0.1°

Compass (Option)

- Digital 3 axis fluxgate 0° to 360° range
- Accuracy: typically better than 1°
- Resolution: 0.1°
- Weight: 50g/ 1.76oz

Environmental

- Operating temperature: -10°C to +45°C
- Water & dust resistant (IP65)

Power & Dimensions

- Power: 3V DC 350mA (Standby 20mA)/ 2 x AA cells internally
- Weight 600g / 21.2oz
- (LxWxH): 175 x 106.5 x 56mm

**CLASS 1
LASER PRODUCT**



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