

LaserAce[®] 300



HANDHELD REFLECTORLESS LASER MEASUREMENT SYSTEM



MDL
Laser Systems

a world leader in laser measurement technology

Laserace® 300

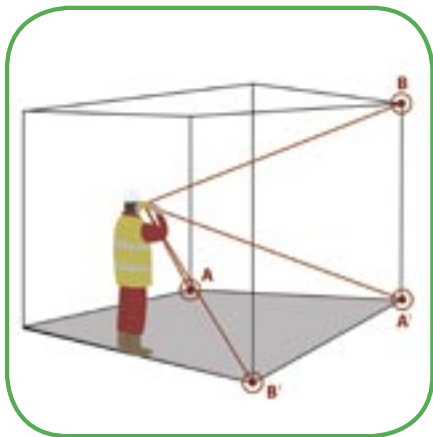
The LaserAce® 300 is a high performance handheld reflectorless laser measurement system. LaserAce® 300 will measure distances up to 300m / 1000' plus elevation and heights, using the integrated digital inclinometer.

The system has been designed for ease of use. Just point and shoot at any target with the aid of the integral red dot aiming scope. Readings immediately appear on the back panel LCD display.

The LaserAce® 300 is suitable for outdoor and indoor operations and will measure to all types of materials. With reflectors, operators can measure distances up to 5km / 16500'. The LaserAce® 300 can be upgraded to 3D by the addition of either a digital fluxgate compass and / or a horizontal angle encoder. The fluxgate compass fits neatly onto the 'hot shoe' connection on the base of the LaserAce® 300, thus providing a simple handheld, cable free, 3D measuring tool. The LaserAce® 300 can be linked to a GPS to provide offsets and other contactless measurements.

LaserAce® 300 incorporates many unique internal computer functions for applications such as surveying, stockpile measurements, cross-sections, cable heights and hydrographic surveying. Designed to reduce survey time in the field, LaserAce® 300 weighs only 600g / 21.2oz and is powered by just 2 internal AA batteries. An RS232 data port is provided to enable output of raw and calculated data to peripheral devices such as computers, data loggers and printers.





Areas



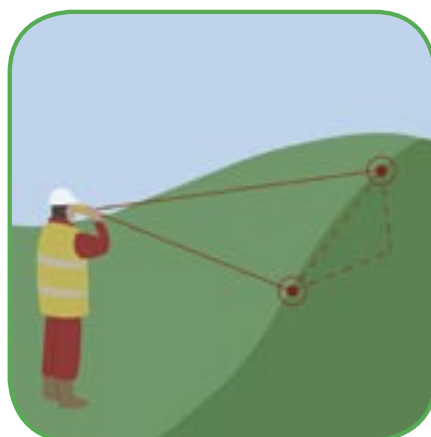
GIS data



Survey



Forestry



Slope Gradient



Hydrographic Survey



LaserAce® 300 can be integrated with any type of GPS for GPS offsets



LaserAce® 300 shown with fluxgate compass for horizontal angle measurements



LaserAce® 300 used with Encoder where higher accuracy horizontal angle measurements are required



Benefits

- Multifunction modes for increased productivity
- Difficult measurement made easy
- Durable construction, long life and reliable
- Ergonomic design, easy to handle
- Red dot aiming scope, easy to aim in all light conditions
- Accessories available, therefore adaptable for multi-role operations
- Environmentally resistant to IP65 therefore suitable for most weather conditions

Measures

- Distance to targets
- Bearing and elevation to targets
- Heights of large objects
- Widths between targets
- Slopes and gradients
- Areas
- Perimeter distances

Applications

- Surveying
- Stockpile measurements
- Burden measurements (See BurdenAce®)
- Agricultural areas
- Cross sections
- Forestry management (See ForestAce® 300)
- Accident surveys
- Cable clearances/ heights
- GPS offsets
- Hydrographic surveying

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: -90° to +90°
- Accuracy: 0.3° at 0°
- Resolution: 0.1°

Compass (Optional)

- Type: digital 3 axis fluxgate
- Range: 0° to 360°
- Accuracy: typically better than 1°
- Resolution: 0.1°
- Weight: 50g/ 1.8oz

Horizontal Encoder (Optional)

- Type: Optical (Mounted on a custom designed surveyors monopod)
- Construction: Aluminium
- Range: 0° to 360°
- Accuracy 0.2°
- Resolution 0.1°
- Power 6 x AA Cells
- Weight: 1.25kg/ 2.76lbs

Environmental

- Operating temperature -10°C to +45°C / 14°F to 113°F
- Water & dust resistant (IP65)

Power & Dimensions

- Power: 3C DC 350mA (Standby 20mA)/ 2 x AA cells internally
- Weight: 600g/ 1.32lbs
- Dimensions: (LxWxH): 175 x 106.5 x 56mm / 6.9" x 4.2" x 2.2"

**CLASS 1
LASER PRODUCT**



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Information contained is believed to be accurate. However, no responsibility is assumed by MDL for its use. Technical information is subject to change without notice.

Agent:

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