

LaserAce[®] Survey



HANDHELD REFLECTORLESS LASER MEASUREMENT SYSTEM



MDL
Laser Systems

a world leader in laser measurement technology

LaserAce® Survey

MDL's new LaserAce® Survey (a Pocket Series instrument) is a handheld laser range finder providing a personal surveying capability. It enables the professional surveyor, engineer or layman to measure range, height, slope, missing distance, subtended distance and slopes / ranges to cables with 'point and shoot' simplicity.

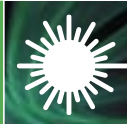
The LaserAce® Survey incorporates a pulsed laser distance meter and an inclinometer. The x5 sighting scope allows the operator to aim and measure range and vertical angles to passive targets up to 150m (500') away with 5cm (2") accuracy. A range of 300m (1000') is attainable to reflective targets. LaserAce® Survey is designed for day/night and all weather operations.

An Active Mode allows precise distance measurements to reflective targets (e.g. foil) in areas where nearer objects (such as scrub or undergrowth) might interrupt the laser beam. A Rapid Fire mode enables measurement to 'hard to hit' targets such as overhead cables as small as 3mm / 1.2" diameter.

The palm-sized LaserAce® Survey is Class 1 eye safe (FDA/ IEC) and weighs only 400g/ 14oz. Measurements and calculations are displayed on a custom made back lit LCD panel. Data output is available either through RS232 data port or via Bluetooth® (dependent on model purchased). The LaserAce® Survey can be configured to interface to a range of data loggers, palm and pen computers.


As well as impressive functionality, the LaserAce® Survey is extremely economical on power and will operate continuously for approximately 8 hours on a 7.2V Lithium Ion battery.






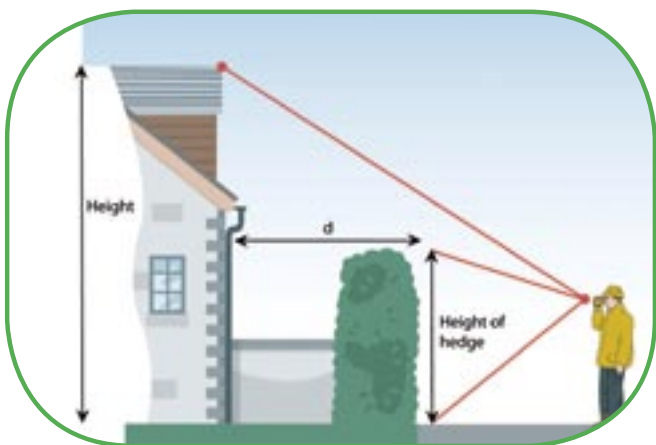
 **LaserAce® Survey** attached to **LaserAce® GIS Pole** for rapid 3D topographic and mapping surveys. Ideal for use with GPS equipment



 Measure slopes and gradients easily. Fire the laser at a the first point, followed by the 2nd point on the surface (or even drainage pipe). The instrument will then calculate and display the distance and the gradient between the two points.



 Building survey. Distance and heights to remote objects.



 Since the approval of the 'right to light' bill in the UK in 2005, the **LaserAce® Survey** can assist councils with instant remote non-contact hedge heighting. Since no reflective targets are required to get measurements, it's perfect for planners and tree officers to measure without entering private property and requires NO training. 'The unit is easy to use - just point and shoot'.



Benefits

- Remote heighting of buildings
- Cable clearances
- Easily measure gradients & slopes
- Assist in safety
- Gives real time calculations
- Low cost
- Measure inaccessible or dangerous areas safely
- Direct readings, no external computers required
- Lightweight and portable
- Bluetooth® data communication (optional)
- No cables
- No need for reflective targets (reflectorless)
- One person operation
- Novice or expert use
- Single integrated unit
- Reduce survey time

Measures

- Distances and angles
- Height of targets
- Slopes and gradients
- Width of targets
- Distance between targets

Applications

- GIS survey
- Forestry
- Utility measurement
- Real estate survey
- Pipe laying
- Rock profiling

Technical Specification

- Class 1 eye safe (FDA/ IEC)
- 150m / 500' reflectorless range (no reflective target)
- 600m / 1970' range with reflector (reflective target used)
- Accuracy 5cm/ 2"

Sensor

- Digital inclinometer
- Range + / - 70° from horizontal
- Accuracy 0.2° at level

Environmental

- Water & dust resistant (IP63)
- Operating temperature -10°C to +45°C

Power & Dimensions

- 'Camcorder' type rechargeable batteries (normal use 8hrs) (charger supplied)
- Weight 400g / 14oz
- Size: 110mm L x 100mm W x 50mm H (4.33" L x 3.94" W x 1.97" H)

**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.

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