

LaserAce[®] 300

Handheld Reflectorless Laser Measurement System



Uses & Functions

- * Distance to Targets
- * Bearing and Elevation to Targets
- * Heights of Large Objects
- * Widths Between Targets
- * Slopes and Gradients
- * Areas and Volumes
- * X,Y & Z Coordinates
- * Perimeter Distances

Applications

- * Surveying
- * Stockpile Measurements
- * Agricultural Areas
- * Cross Sections
- * Forestry Management
- * Accident Surveys
- * Cable Clearances/Heights
- * GPS Offsets
- * Hydrographic Surveying

LaserAce[®] 300 is a high performance 'hand held' reflectorless Laser Measurement System. The Laser incorporates an inclinometer and solid state fluxgate compass. Operating the system couldn't be easier, just point and shoot at any target with the aid of the integral 'red dot' aiming sight. Readings immediately appear on the back panel LCD display.

LaserAce[®] 300 is suitable for outdoor and indoor operations and will measure to all types of materials at ranges up to 300 meters.

The LaserAce[®] 300 has many unique internal computer functions including 2 and 3 point heighting, slope measurement, area and perimeter calculations.

LaserAce[®] 300 is powered by 2 internal AA batteries and weighs only 600 grams. (1lb.)

An RS232 data port is provided to output raw and calculated data to peripheral devices such as computers, data loggers and printers.



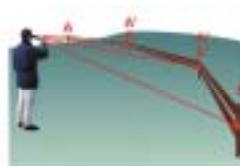
HYDROGRAPHIC SURVEY



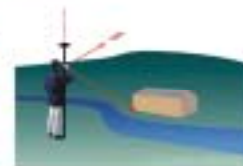
FORESTRY MANAGEMENT



AREA VOLUME MEASUREMENT



CADASTRAL SURVEY



GIS DATA ACQUISITION



SLOPE & GRADIENT MEASUREMENT

TECHNICAL SPECIFICATIONS

LASER	
Type	GaAs Laser Diode 905nm
Eye Safe	Class 1 CENELEC EN60825-1/FDA
Range	Passive up to 300m. Reflectors to 5km
Range Accuracy	Typically 10cm
Range Resolution	1cm
Measurement Time	0.3 sec

INCLINOMETER	
Type	Accelerometer
Range	-90° to + 90°
Accuracy	0.3° at 0°
Resolution	0.1°

COMPASS	
Type	Digital 3 Axis Fluxgate
Range	0° to 360°
Accuracy	Typically better than 1°
Resolution	0.1°
Construction	Reinforced Polycarbonate
Weight	50g

TECHNICAL DATA	
Construction	Reinforced Polycarbonate
Dimensions (L x W x H)	175 x 106.5 x 56mm
Data I/O	RS232 4800 or 9600 Baud
Power	3V DC 350mA (Standby 20mA) / 2 x AA cells internally
Weight	600g
Custom LCD Display	Backlit
Alignment Telescope	Red Dot Scope / optional telescope

ENVIRONMENTAL	
Operating Temperature	-10° to + 45°C
Water & Dust Resistant	IP65

SYSTEM COMPRISES

DESCRIPTION	PART No
LaserAce®300 laser inclinometer	5000
LaserAce® Compass	5010
Data Cable	5035
Soft Carry Bag	5040
Manual	5060

*System can be provided without the compass where 2D measurements only are required

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



Designers and Manufacturers



Certification No. Q 50061



LaserAce® Family



FORESTACE®300 - TREE MANAGEMENT



BURDENACE® - ROCK PROFILER



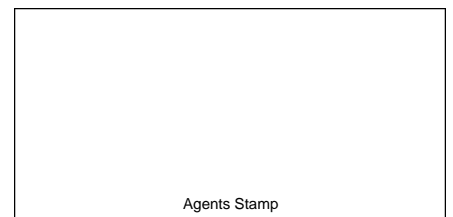
LASERACE® ENCODER



LASERACE® TS 300 - TOTALSTATION



LASERACE® ACCESSORIES



Agents Stamp



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