



GEOMAX Rotating Lasers User Guide

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GEOMAX Rotating Lasers



Construction sites can differ drastically, from modest jobs to complex designs. Construction professionals need tools with extensive range and capabilities to finish the job correctly and economically. The powerful GeoMax rotating laser portfolio offers the right construction tools for all trades and applications. GeoMax rotating lasers with multiple charging options, provide you with long last operation. The flexibility of a full range of interchangeable accessories will accomodate your unique work requirements. All at the best price to performance ratio.

LASER RECEIVERS

The GeoMax Zone Rotating Lasers come with four laser receivers that complement and boost your performance. The ZRD105B even catches the beam automatically for you.



LONG-LASTING OPERATION

ZONE20 H

Economic and solid entry level rotating laser. With a rugged housing and a straightforward interface, this laser offers all functions needed for setting grade using horizontal or manual slope.

ZONE20 HV

This laser offers the Zone20 H operations, plus the capability of vertical leveling. Zone20 HV includes a long range remote to adjust and easily align any jobsite, making it the perfect multi-purpose laser for any craftsman.

ZONE40 H

The laser that offers increased performance and dependability. Zone40 H is the best manual construction site laser for rough environments. Combining the rugged housing with a powerful dependable core, this laser is a long term companion of choice for any heavy duty leveling task.

- OUTSTANDING PRICE-TO-PERFORMANCE RATIO
- DEPENDABLE IN ANY ELEMENT
- IP67 PROTECTION
- SOLID-BUILT DESIGN

ZONE60 HG

Adding easy to use, dial in grade capability to the dependability of the Zone40 H core, this laser enables semi-automatic grade in leveling applications.

ZONE60 DG

The laser plane can be aligned automatically with the new ZRD105B receiver. Fully-automatic grade specifically designed for construction workers who need the dependability and accuracy of a fully professional grade laser on a daily basis. With a straightforward user interface on both the laser and the RF remote, the craftsman is always in full control.

ZONE80 DG

Capable of operating at a speed up to 1200rpm, the Zone80 DG is a perfect fit for machine guidance solutions. With a laser beam that is stable over great distances, it is especially suited for land leveling and agriculture applications. Zone80 DG not only gives you a reference for horizontal planes, but also for slopes up to 15%.

Pick the perfect laser for your leveling, aligning or grading application from one of the best rotating laser portfolios on the market.



CONCRETE POURING AND FORMWORK

Whether you need an exact reference to pour concrete or an accurate alignment of the formwork, GeoMax laser rotators will accomplish the task, saving you money and time.



INTERIOR CONSTRUCTION

Our multi-purpose rotating lasers offers you the flexibility of operating vertically and horizontally, with optional interchangeable accessories to maximize efficiency, IP67 protection, and fully enclosed head to support the toughest working conditions.



BATTERBOARD APPLICATIONS

Connect batter board points to mark out the axis by one key press thanks to the beam catching feature of the ZRD105B. The beam lock function will maintain an accurate setup by monitoring the connection.



Grade the base course for a road, level its slope, and correct and remove irregularities with the help of GeoMax rotating lasers. They guarantee you repeatable and accurate results in long distances even in the toughest working conditions.



MACHINE GUIDANCE

Maximize working efficiency and reduce costs. GeoMax rotating lasers are designed to support long working hours and to provide temperature stability for error free results.

TECHNICAL DATA

FUNCTIONALITY	ZONE20 H	ZONE20 HV
	Self-leveling horizontal manual slope in dual axis	Self-leveling horizontal, vertical, 90° manual slope in dual axis
Operating range (diameter)	900 m / 3000 ft	900 m / 3000 ft
Self-leveling accuracy	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)
Self-leveling range	± 6°	± 5°

Grade range	—	—
Rotation speed	600 rpm	120, 300, 600 rpm
Scanning modes	—	10° – 35°
Laser diode type / class	635 nm (visible) / class 1	635 nm (visible) / class 2
Batteries type	4 D-cell alkaline / Li-Ion	4 D-cell alkaline / Li-Ion
Battery life	> 60h (alk) / > 40h (Li-Ion)	> 60h (alk) / > 40h (Li-Ion)
Operating temperature	14°F to 122°F	14°F to 122°F
Storage temperature	-22°F to 158°F	-22°F to 158°F
Protection	IP67	IP67



	ZRB90 Basic	ZRP105 Pro	ZRD105 Digital	ZRD105B
Working diameter	300 m (1000 ft)	300 m (1000 ft)	900 m (3000 ft)	900 m (3000 ft)
Extended detection window	80 mm / 3.1 in	105 mm / 4 in	105 mm / 4 in	105 mm / 4 in
Numeric readout height	—	—	90 mm / 3.5 in	90 mm / 3.5 in
Beam catching	—	—	—	
Beam lock	—	—	—	

ZONE40 H	ZONE60 HG	ZONE60 DG	ZONE80 DG
Self-leveling horizontal manual slope in dual axis	Self-leveling horizontal digital slope in dual axis (semi-automatic)	Self-leveling horizontal, vertical, digital slope in dual axis (full-automatic). Beam catching option	Self-leveling horizontal digital slope in dual axis (full-automatic)
900 m / 3000 ft	900 m / 3000 ft	900 m / 3000 ft	1100 m / 3600 ft
± 1.5 mm at 30 m (±1/16" at 100 ft)	± 1.5 mm at 30 m (±1/16" at 100 ft)	± 1.5 mm at 30 m (±1/16" at 100 ft)	± 1.5 mm at 30 m (±1/16" at 100 ft)
± 5°	± 5°	± 5°	± 5°
—	8 %	Up to 15 %	Up to 15 %
600 rpm	600 rpm	300, 600 rpm	300, 600, 900, 1200 rpm
—	—	—	—
635 nm (visible) / class 1	635 nm (visible) / class 1	635 nm (visible) / class 1	635 nm (visible) / class 1
4 D-cell alkaline / Li-Ion	4 D-cell alkaline / Li-Ion	4 D-cell alkaline / Li-Ion	Li-Ion

> 60h (alk) / > 40h (Li-Ion)	> 60h (alk) / > 40h (Li-Ion)	> 60h (alk) / > 40h (Li-Ion))	>40h
14°F to 122°F	-4°F to 122°F	-4°F to 122°F	-4°F to 122°F
-22°F to 158°F	-22°F to 158°F	-22°F to 158°F	-40°F to 158°F
IP67	IP67	IP67	IP67

EXPERTISE AT YOUR SERVICE

We care for your work and want your GeoMax laser tools to stay operational for as long as you work. To ensure this, we support you with our highly skilled service centers around the world offering the following services for the lifetime of your product:

- Repair and maintenance of lasers and accessories
- Re-calibration
- Cleaning and general servicing of all product parts
- Functional testing and product safety.

5 YEARS WARRANTY FOR PREMIUM MODELS

The premium GeoMax Zone series rotating lasers come with a comprehensive full warranty for 5 years, protecting the laser from all defects that could occur during regular use and keeping you fully operational at all times and limiting downtime to the minimum. Free of service charges during the warranty period:

- Repair (parts and labor) or exchange of your laser
- Full functional and safety check · Re-calibration after repair Our value line rotating lasers (Zone20 H, Zone20 HV, and Zone60 HG) will remain with the strong three year comprehensive full warranty, with the option to extend another two years. The warranty does not cover damage caused by abuse or mishandling.

Accessories

A full range of interchangeable accessories that will accommodate your unique job requirements. Check for available packages and combinations.



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References

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