

# Lasers - Leica Rugby Lasers



## Leica Rugby Tough Inside and Out

All Leica construction lasers are of high technology and high precision tools. Compare these features and you'll see why Leica lasers set the standard for durability and value. Leica Geosystems lasers are waterproof, that means all critical components are completely protected from all wet weather conditions. The aluminum base of the Rugby 100/100LR/200 withstands rough handling and is highly resistant to abrasion and fracture.

Construction tough components have all undergone rigorous testing to assure long life under harsh conditions.

Lasers at a Glance	Rugby 50	Rugby 100	Rugby 100LR
Working Range (diameter)	900 ft/300 m	900 ft/300 m	2400 ft/750 m
Accuracy	3/32 inch @ 100 ft, ± 2.6 mm @ 30 m	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m
Self-levelling	H	H	H
Waterproof	IP55	IP56	IP56
Manual grade operation	No	Yes	Yes
Two-year warranty	Yes*	Yes**	Yes**
Laser class	1	2	1

	Rugby 55	Rugby 200
Working Range (diameter)	1000 ft /300 m	1000 ft /300 m
Accuracy	3/32 inch @ 100 ft, ± 2.6 mm @ 30 m	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m
Self-levelling	H + V	H + V
Waterproof	IP55	IP56
Scan function	Yes	Yes
Remote control	Yes	Yes
Two-year warranty	Yes*	Yes**

\* with registration

\*\* automatic plus knockdown warranty

# Lasers - Leica Rugby Grade Lasers



Making the grade is what the Leica Rugby is all about. Whether your work requires level, single or dual grades and high accuracy over a long distance range, the Leica Rugby's extensive features will ensure both material and labor savings, keeping you on target to increase your bottom line. The Leica Rugby Grade Lasers are automatic and self-leveling for jobs of any size, large or small. They can be used for any applications involving precise grade control such as:

- Buildig pads, parking lots and runways
- Precise depth control for sub-base and fine grade excavation
- Agricultural applications such as land leveling or tiling
- Concrete forming and framework
- Tetention ponds and batters
- Setting foundations and footings
- Absolute compatibility with the widest range of machine control solutions.

FEATURES	Rugby 260SG	Rugby 270SG	Rugby 280DG
Working Range (diameter)	2000 ft/600 m	2300 ft/700 m	2300 ft/700 m
Horizontal leveling accuracy	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m
Self-leveling	Horizontal	Horizontal / Grade	Horizontal / Vertical / Grade
Grade Capability	± 10% (x-axis)	± 15% (x-axis)	± 15% (both axes)
Environmental	IP57	IP57	IP57
Operating Temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Two-year plus knockdown warranty	Yes	Yes	Yes

Lasers at a glance	Rugby 320SG	Rugby 410/420DG
Working Range (diameter)	3000 ft/900 m	2600 ft/800 m (410), 3600 ft/1100 m (420DG)
Accuracy	1/16 inch @ 100 ft, ± 1.5 mm @ 30 m	1/16 inch @t 100 ft, ± 1.5 mm @ 30 m
Self-levelling	H+Grade	H+Grade
Grade Capability	-5 to +25% in one axis	-5 to + 25% in either axis, -5 to +15% in both axis
Waterproof	IP57	IP57
Operating Temperature	-20° C to +50° C	-20° C to +50° C
Weight	11.1 lbs / 5 kg	11.1 lbs / 5 kg
Feature		Laser Stabilization (420DG)

# Lasers - Leica Roteo 35

## Leica Roteo 35

### Delivery package:

- Leica Roteo 35WMM rotating laser
- Motorised wall mount
- RRC350 combined remote control/detector unit with clamp
- 9V-battery for the combined unit
- Battery holder for alkaline batteries
- Rechargeable batteries
- International charger
- Red target plate
- Red laser glasses



## Leica Roteo 35G

### Delivery package:

- Leica Roteo 35G rotating laser
- Motorised wall mount
- RRC350G combined remote control/detector unit with clamp
- 9V-battery for the combined unit
- Battery holder for alkaline batteries
- Rechargeable batteries
- International charger
- Green target plate
- Green laser glasses



Technical data	Leica Roteo 35	Leica Roteo 35G
Range	up to 300 m (1000 ft) diameter with laser receiver	
Self-levelling accuracy	± 3 mm at 30 m (± 1/8" at 100 ft)	
Automatic self-levelling laser	horizontal, vertical	
Self-levelling range	± 4.5°	
Rotation speed	variable 0, 150, 300, 450, 600 rpm	
Scanning angle	variable between 2° and 36°	
Wall mount bracket	motorised	
Dimensions laser (H × W × D)	189 × 136 × 208 mm (7.4 × 5.4 × 8.2") (without wall mount bracket)	
Weight with batteries	1.7 kg (3.7 lbs)	
Battery types	Alkaline D cells, 2 × 1.5 V or rechargeable battery pack (NiMH)	
Battery life	50 hours (rechargeable), up to 160 hours (alkaline batteries)	25 hours (rechargeable), up to 40 hours (alkaline batteries)
Protection class	IP 54, dust- and splash-proof	

The Leica Roteo 35 impresses everyone with its powerful features and complete set of accessories for every application, especially for interior works. The wall mount bracket allows convenient motorised control of the laser beam height by the combined remote control/detector or by manual adjustment.

### All-round perfection on all levels

On ceilings or walls, on the floor or on a tripod, the Leica Roteo 35 rotating laser is a multi-talented performer. You can use it to work precisely on many indoor and outdoor tasks in which leveling or aligning is required.

### The Leica Roteo 35 G

The Leica Roteo 35G has all the characteristics of the Leica Roteo 35. In addition, it has a green laser beam for better visibility in very bright conditions and over very long distances. The pioneering green laser beam is four times more visible to the human eye. So you have the best possible visibility.

Laser class 3R in accordance with IEC 60825-1 and EN 60825

# Lasers - Leica Piper 100/200



## Leica Piper Powerful and Compact

Powerful and compact, the Leica Piper is the only pipe laser that fits inside a 100 mm (four inch) pipe. It is built with solid cast-aluminum housings, and is loaded with features that will improve productivity and minimize downtime on the jobsite.

It is ideal anywhere line and grade is required. It has a large clear display that makes it easier for contractors to read grade, line position, battery status, and level indication. The intelligent battery monitors the amount of charge/discharge so that contractors always know how much battery life they have left. The Leica Piper's bright, visible beam is focused to maintain its crisp, clear spot and size over long distances. Automatic grade compensation easily identifies and corrects grade errors. It automatically self-levels over a full grade range, and eliminates the need to tip the laser for steep slopes.

The Piper 200 features the Alignmaster function, a patented automatic targeting system that searches and finds the target for fast second day setups.

### Leica Piper Specifications

#### Product Specifications

Laser Diode	635 nm (red)
Laser Output	4.75 mW maximum
Working Range	200 m (650 ft)
Grade Range	-10 % to +25 %
Self-leveling Range	-15 % to +30 %
Line Movement	6 m at 30 m (20 ft at 100 ft)
Battery*	Lithium-Ion, 7.4 V/3.8 Ah
Operation/Charge	40 h/4 h
Operating Temperature	-20° to +50° C (-4° to +122° F)
Dimensions (diameter x length)	96 mm x 267 mm (3.8 in x 10.5 in)
Weight	2 kg (4.4 lbs)
Construction	Cast aluminium
Seal	IPX8
Wireless Remote	Front, up to 150 m (500 ft) Back, up to 10 m (35 ft)

# Lasers - Laser Reference

The L4.7 laser level is an improved version of our time tested standard, the L4. It is the choice of the commercial concrete or general contractor who needs long range and the highest accuracy. This is the preferred instrument for large commercial foundations or large grading projects. In the horizontal mode, it self levels via a wire hung, air damped compensator. It is manually aligned and plumbed in its vertical mode. In its price range, the L4.7 provides higher accuracy, longer range, is the only unit with vertical capability, and features the longest standard warranty of any laser on the market.

## Specifications:

Range: 1500 foot diameter (460m) with R7 laser receiver

Rotational Coverage: 360 degrees

Accuracy:  $\pm 0.040$  inch per 100 feet (1.0mm per 30m).

Leveling Method: Horizontal self leveling via wire hung compensator.

Vertical Capability: Manual with built in vial, optional mount

Rotating Beam: 670nm class II

Rotation speed: 600 rpm.

Power: 110 hours on 4C alkaline batteries. NiMH rechargeable batteries optional

Environment: Water and dust resistant. (IP55)

Warranty: 3 Year Guardian Warranty.

## Pro Shot™ L4.7



## Pro Shot™ L4.7 Magnum

The L4.7 Magnum is a top choice for commercial concrete and general contractors who also need a highly visible laser for interior alignment. It functions in the same manner as the L4.7, but it sports a high power visible beam and a fixed plumb beam. The L4.7 Magnum self levels via a wire hung compensator, and is manually plumbed and aligned in the vertical mode. The fixed plumb beam is useful for transferring points from floor to ceiling (used with the P1 Plumb Plate), or for turning 90 degree angles. For outdoor work, our R8 laser receiver provides a 2000' working diameter. Review the market for self leveling visible beam lasers and you will conclude that the L4.7 Magnum sets new standards for performance and affordability. 3 Year Guardian Warranty.

## Specifications:

Indoor visible range: 100'+ radius, 200'+ diameter

Range: 2000 foot diameter (610m) with R8 laser receiver

Rotational Coverage: 360 degrees

Accuracy:  $\pm 0.040$  inch per 100 feet (1.0mm per 30m).

Leveling Method: Horizontal self leveling via wire hung compensator.

Vertical Capability: Manual with built in vial, optional W1 mount is needed.

Rotating Beam: 635nm 2.5mW (nominal) class IIIa

Rotation speed: Variable 0-450 rpm.

Power: 60 hours on 4C alkaline batteries. NiMH rechargeable batteries



# Lasers - Laser Reference

The L3 is aimed at the professional home builder, room addition contractor, or tenant improvement contractor who wants a manually leveled and plumbed laser. The L3 features a highly visible red rotating beam, along with a plumb spot. The plumb spot can be used to transfer points from floor to ceiling, and will provide a 90 degree reference when the laser is in its vertical mode. Additionally, the L3 features a level vial with markings for 1-4% slope.

## Specifications:

Range: 1000 foot diameter (305m) with optional R7 laser receiver

Visible Indoor Range: Up to a 200 foot diameter. (60m)

Rotational Coverage: 360 degrees

Accuracy:  $\pm 1/4$  inch per 100 feet (6.3mm per 30m).

Leveling Method: Manually leveled with level vials.

Vertical Capability: Manual with built in vial, optional mount

Slope Capability: Vial with markings for 1%, 2%, 3%, 4%.

Rotating Beam Power: 635nm 2.0mW (nominal) class IIIa

Rotation speed: Variable 0-450 rpm. Will scan in selectable arcs of 15-90 degrees.

Power: 60 hours on 2 D alkaline batteries. 45 hours with NiMH rechargeable batteries.

## Pro Shot™ L3



## Pro Shot™ Alpha

The Pro Shot™ Alpha is designed for concrete and general contractors working on large commercial or municipal sites. Electronic servo leveling means all you do is turn the unit on and watch it drive to level. The Alpha also offers manual slope matching.

## Specifications:

Range: 2000 foot diameter (610m) with R7 laser receiver

Rotational Coverage: 360 degrees

Accuracy:  $\pm 10$  Arc Seconds (.060 inch per 100 feet, 1.5mm per 30m)

Grade Capability: Slope Matching, Cross Axis Self Levels

Elevation Alert: Prevents errors if laser is disturbed.

Leveling Method: Electronic sensors / Servo motor driven.

Rotating Beam: 670nm class II

Rotation speed: 600, 1200 rpm.

Power: 100 hours on 4C alkaline batteries. 65 Hours NiMH Rechargeable batteries (optional)

Environment: Water and dust resistant. IP56

Warranty: 2 Years

