

Construction Lasers & Kits

Our lasers are built to handle any environment, whether it's general construction, pipe laying, machine control, or interior walls and ceilings. All construction lasers are built with high-quality, high-technology components making them ultra-precise. Compare features and you'll see why our construction lasers set the standard for durability and value. Lasers are waterproof so all critical components are entirely protected from wet weather conditions.



Each Rugby series laser is available in reconfigurable packages that include the battery, charger and carrying case, or can be upgraded from the basic to include the functionality of the reconfigurable options.

Combo Receiver/Remote



Technical Data	Rod Eye 120 Basic	Rod Eye 120G Basic	Rod Eye 140 Classic	Rod Eye 160 Digital
Smart Targeting, Smart Lock	—	—	—	—
Working diameter (laser dependent)	900 m (3,000 ft)	200 m (656.168 ft)	1,350 m (4,430 ft)	1,350 m (4,430 ft)
Detection window	70 mm (2.8 in)	70 mm (2.8 in)	120 mm (5.0 in)	120 mm (5.0 in)
Digital readout/height	—	—	—	90 mm (3.5 in)
Digital readout/units	—	—	—	mm, cm, in, frac, ft
Detectable spectrum	600 nm to 800 nm	600 nm to 800 nm	600 nm to 800 nm	600 nm to 800 nm
Automatic shutoff	10 minutes	10 minutes	10 minutes	10 minutes
Audio volumes	High/Low/Off	High/Low/Off	High/Low/Off	High/Med/Low/Off
Arrow display	9 channels	9 channels	9 channels	15 channels
Detection accuracies	Fine ± 1 mm (±0.04 in) Medium ± 2 mm (±0.08 in) Coarse ± 3 mm (±0.12 in)	Fine ± 1 mm (±0.04 in) Medium ± 2 mm (±0.08 in) Coarse ± 3 mm (±0.12 in)	Fine ± 1 mm (±0.04 in) Medium ± 2 mm (±0.08 in) Coarse ± 3 mm (±0.12 in)	Very fine ± 0.5 mm (±0.02 in) Fine ± 1 mm (±0.04 in) Medium ± 2 mm (±0.08 in) Coarse ± 3 mm (±0.12 in) Very Coarse ± 5 mm (±0.20 in)
LED display	—	—	✓	✓
Anti-strobe protection	—	—	✓	✓
Memory, last beam strike	—	—	✓	✓
Beam finding, double beep	—	—	✓	✓
Laser low battery indicator	—	—	✓	✓
Environmental standard	IP 67	IP 67	IP 67	IP 67
Battery life (hours)	50+ (2x AA type)	50+ (2x AA type)	50+ (2x AA type)	50+ (2x AA type)
Dimensions (H x W x D)	173 x 76 x 29 mm (6.8 x 3.0 x 1.1 in)	173 x 76 x 29 mm (6.8 x 3.0 x 1.1 in)	173 x 76 x 29 mm (6.8 x 3.0 x 1.1 in)	173 x 76 x 29 mm (6.8 x 3.0 x 1.1 in)
Operating temperature range	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)
Warranty	3 years	3 years	3 years	3 years

Combo Receiver/Remote

The combo is a digital receiver and remote control combined in one device. Save time and work conveniently with offset and an adjustable sensor window.

Rugby CL Combo Receiver and Remote

» Part No. LG864848

- Anti-strobe feature assures highest detection reliability



MACHINE RECEIVERS

MC200 Depthmaster

With Magnetic Bracket

» Part No. LG742440

With Clamp-on Brackets

» Part No. LG742438



LMR240

LMR 240

» Part No. LG773569

- Includes: magnetic mount, carrying case and batteries



LMR 360

LMR 360 Receiver with Clamp/Magnet

» Part No. LG6009892

- Includes: LMR 360 receiver with clamps, case and magnets



LMR 360 Receiver with Remote Display

» Part No. LG6009893

- Includes: LMR 360 receiver with clamps, case, magnets and remote display



The LMR 360 offers accurate grade information for all visual machine control applications. Large 360° detection window picks up any rotating laser, from any angle. Built-in vertical indicator monitors angle of the stick, signaling if its plumb or under- or overextended. Vertical position ensures consistent and accurate grade readings, saving money by reducing over- or under-cutting.

- Accurate grade control
- Built-in vertical indicator
- Waterproof

MACHINE RECEIVERS

Technical Data	MC200 Depthmaster	LMR 240	LMR 360
Range	200 m (650 ft)	250 m (750 ft)	400 m (1,300 ft)
Reception	200°	240°	360°
Capture window	21 cm (8.3 in)	15 cm (5 in)	25 cm (9.75 in)
Accuracy (fine)	± 4 mm (± 1/8 in)	1.5 - 6 mm (1/4 in)	6 mm (1/4 in)
Accuracy (coarse)	± 12 mm (1/2 in)	10 - 15 mm (1/3 - 1/2 in)	12 mm (1/2 in)
Environmental standard	IP 67	IP 67	IP 67
Battery type	NiCd rechargeable (NIMH Q3/14)	3 x AA batteries	NIMH rechargeable
Battery life	> 48 hours	120 - 160 hours	30 hours
Weight	2.4 kg (5.3 lbs)	1.9 kg (4.8 lbs)	1.8 kg (4 lbs)
Mounting	Magnetic/Clamps	Magnetic	Magnetic/Clamps
Remote display	—	—	✓
Remote range	—	—	30 m

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Technical Data	Rugby 610	Rugby 620	Rugby 640	Rugby 640G	Rugby 680
Functionality	Self-leveling horizontal, single manual slope (with slope adapter)	Self-leveling horizontal, with dual axis manual slope	Self-leveling horizontal, vertical, 90° with dual axis manual slope	Self-leveling, horizontal, vertical, 90° and manual slope in dual axis	Semi-automatic, self-leveling, horizontal with dial-in, dual axis
Range (diameter) with Rod Eye 120/120G	800 m (2,600 ft)	800 m (2,600 ft)	500 m (1,650 ft)	400 m (1,300 ft)	900 m (2,900 ft)
Range (diameter) with Rod Eye 140/160	1,100 m (3,600 ft)	1,100 m (3,600 ft)	600 m (2,000 ft)	600 m (2,000 ft)	1,100 m (3,600 ft)
Self-leveling accuracy	± 2.2 mm at 30 m (± 3/32 in at 100 ft)	± 2.2 mm at 30 m (± 3/32 in at 100 ft)	± 2.2 mm at 30 m (± 1/16 in at 100 ft)	± 2.2 mm at 30 m (± 1/16 in at 100 ft)	± 1.5 mm at 30 m (± 1/16 in at 100 ft)
Self-leveling range	±5°	±5°	±5°	±5°	±5°
H.I. elevation alert	✓	✓	✓	✓	✓
Rotation speeds	10 rps	10 rps	0, 2, 5, 10 rps	0, 2, 5, 10 rps	10 rps
Scanning modes	—	—	10°, 45°, 90°	10°, 45°, 90°	10°, 45°, 90°
Remote control/radius	—	—	RC400/200 m	RC400/200 m	—
Laser diode type/class	635 nm/Class 1	635 nm/Class 1	635 nm/Class 2	520 nm/Class 2	635 nm/Class 1
Dimensions (H × W × D)	212 × 239 × 192 mm				
Weight with battery	2.4 kg (5.2 lbs)	2.4 kg (5.2 lbs)	2.6 kg (5.6 lbs)	2.6 kg (5.6 lbs)	2.6 kg (5.6 lbs)
Batteries (alkaline/rechargeable)	Four D-cells/Li-Ion pack (A600)	Four D-cells/Li-Ion pack (A600)	Four D-cells/Li-Ion pack (A600)	Four D-cells/Li-Ion pack (A600)	Four D-cells/Li-Ion pack (A600)
Battery life (alkaline/rechargeable)	60 hours/40 hours at 20°C (68 °F)	60 hours/40 hours at 20°C (68 °F)	60 hours/40 hours at 20°C (68°F)	60 hours/40 hours at 20°C (68 °F)	60 hours/40 hours at 20°C (68 °F)
Environmental standard	IP 67				
Operating temperature range	-10 °C to +50 °C (-14 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)

Technical Data	CLH	CLA
Warranty	5Y/2Y knockdown	5Y/2Y knockdown
Grade capability* (X/Y-axes)	8%	15%
Self-leveling accuracy**	± 1.5 mm at 30 m (± 1/16" at 100 ft)	± 1.5 mm at 30 m (± 1/16" at 100 ft)
Self-leveling range	± 6°	± 6°
Operating range with Combo, Rod Eye 140/160	1,350 m diameter	1,350 m diameter
Remote range	600 m diameter	600 m diameter
Laser class	1	2
Environmental standard	IP68/MIL-STD-810G	IP68/MIL-STD-810G
Operating temperature	-20 °C to +50 °C -4 °F to +122 °F	-20 °C to +50 °C -4 °F to +122 °F
Storage temperature	-40 °C to +70 °C -40 °F to +158 °F	-40 °C to +70 °C -40 °F to +158 °F
Rotation speed	10, 15 RPS	0, 2, 5, 10, 15 RPS
Batteries (Li-Ion)	Li-Ion	Li-Ion
Battery operating time**	50 h	50 h
Battery charging	5 h (full charge) 1 h fast charge - 8 h operating	5 h (full charge) 1 h fast charge - 8 h operating
Dimensions (H × W × D)	230 mm/9.1 in 296 mm/11.7 in 212 mm/8.3 in	230 mm/9.1 in 296 mm/11.7 in 212 mm/8.3 in
Weight with batteries	3.8 kg/8.3 lbs	3.9 kg/8.5 lbs



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