

LASERGRADER

DIAL IN SINGLE AND
DUAL GRADE LASER
TRANSMITTERS



 PART OF **MOBA GROUP**

We are part of the German MOBA Group, a globally recognized trusted partner for supplying high quality solutions for earthmoving, road construction, cranes and lifters, waste management, mining and agriculture.

www.moba-automation.com

ROTATING GRADE LASERS

**MADE IN AUSTRALIA
AND DEVELOPED WITH
25 YEARS OF SUPPORT BY
AUSTRALIAN FARMERS.**

**1.4 KM WORKING RANGE
WITH AN INDUSTRY
BEST ACCURACY.**

FEATURES

- Locked Function - when activated, all control keys on laser are locked.
- Two grade input systems - a world first in user-friendly technology. Input the grade directly using the switch pad or in increments using the arrow keys.
- Battery can be charged while laser is in use, from 240 V AC or 12-24 V DC power source.
- Grades in increments of 0.001% - allows for accurate work (LS.230 model only)
- Two grade display modes - display the grade either as a percentage or a ratio.
- Automatic warnings - warnings for service required, low battery, self-levelling limit, and level automatically displayed on the LCD
- Elevation alert - if the laser is accidentally moved the laser beam will switch off and stop rotating to alert the operator.
- Australian tough - Australian owned and made. Fully machined housing and all metal construction for tough working environments

OPTIONS

- Coned rotating head
- Dual or single grade
- Vertical axis
- Visible or invisible beam



APPLICATIONS



EARTH MOVING



LAND LEVELING



ROAD CONSTRUCTION



SITE WORKS

AVAILABLE MODELS



LS.230.E
Automatic, Long range Ag dual grade laser with manual mode and rechargeable battery pack



LS.230R.E
Automatic, Long range Ag dual grade laser with radio remote, manual mode and rechargeable battery pack



LS.230.A
Automatic, Civil dual grade laser with manual mode and rechargeable battery pack



LS.230R.A
Automatic, Civil dual grade laser with radio remote, manual mode and rechargeable battery pack



LS.230.AHG
Automatic, Civil dual grade laser with steep slope, manual mode and rechargeable battery pack

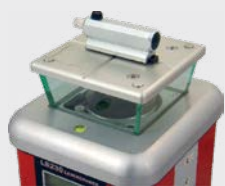
ACCESSORIES

A range of accessories such as mounts and adapters have been developed to make the Lasergrader more efficient, easy to use and versatile. For more details refer to 'LaserGrader Accessories' brochure from MCE Lasers or visit www.mcelasers.com.au



Universal Quick Release (A.220.014)

Spring loaded lever, comes with one of two mounting rings:
(A) 5/8" external thread universal laser level mounting ring (A.220.026) or
(B) Spectra Physics (SP) laser mounting ring (A.SP.010)



Scope

For accurate aligning of the axis



Tilt adaptor

Cast metal, for 10% to 50% slope adjustments. Used with laser when grade is steeper than leveling range. Three mounts: 10% to 24%; 24% to 38% & 38% to 50%

Look no further!

Looking for a proven, reliable and robust dual grade laser? A laser you can count on to increase efficiency? A laser that is site tough? The LaserGrader series meets all of your job site needs, from layout to grade control.

Need Grade control, we've got you covered!

Need single-slope or dual-slope grades. The sloping feature will allow you to tackle sloped trenches for sewer, or final grade on areas with mild slopes for drainage and land levelling.

Decades of Experience!

MCE Laser instruments use the latest advancements of High-quality optoelectronic circuitry this keeps our products working smarter not harder and intern gives you the best possible product for your dollar. We've been part of your industry for decades, we listen and care. What we've learned over decades allows you to do your job in seconds

Tried the rest now its time for the best!

Are you fed up with difficult-to-handle devices which are over complicated? All LaserGrader lasers self-level accurately every time at the push of a button, The large LCD lets you enter the required grade at the push of just a few buttons never make a mistake again.

FEATURES

	LS.230.E	LS.230.R.E	LS.230.A	LS.230.R.A	LS.230.AHG
Laser type	635 nm red laser diode	635 nm red laser diode	635 nm red laser diode	635 nm red laser diode	635 nm red laser diode
Laser power	3 mW nominal	3 mW nominal	3 mW nominal	3 mW nominal	3 mW nominal
Laser class	Class 2M	Class 2M	Class 2M	Class 2M	Class 2M
Accuracy	± 10 arc seconds	± 10 arc seconds	± 15 arc seconds	± 15 arc seconds	± 15 arc seconds
Grade range	-5% to +20%	-5% to +20%	-5% to +20%	-5% to +20%	-5% to +50%
Self-levelling range	± 75%	± 75%	± 75%	± 75%	± 75%
Working range	700 m radius, 1.4 km diameter (tested with Laserguide sensor)	700 m radius, 1.4 km diameter (tested with Laserguide sensor)	500 m radius, 1 km diameter (tested with Laserguide sensor)	500 m radius, 1 km diameter (tested with Laserguide sensor)	500 m radius, 1 km diameter
Rotating head speed	600/900 RPM	600/900 RPM	600/900 RPM	600/900 RPM	600/900 RPM
External power source	12 - 24 V DC	12 - 24 V DC	12 - 24 V DC	12 - 24 V DC	12 - 24 V DC
Internal power source	Rechargeable Ni-Mh battery	Rechargeable Ni-Mh battery	Rechargeable Ni-Mh battery	Rechargeable Ni-Mh battery	Rechargeable Ni-Mh battery
Operating time	40 hrs	40 hrs	40 hrs	40 hrs	40 hrs
Charging input	240VAC - 12 - 24 V DC	240VAC - 12 - 24 V DC	240VAC - 12 - 24 V DC	240VAC - 12 - 24 V DC	240VAC - 12 - 24 V DC
Charging time	12 hrs approx.	12 hrs approx.	12 hrs approx.	12 hrs approx.	12 hrs approx.
Dimensions	270 x 175 x 200 mm	270 x 175 x 200 mm	270 x 175 x 200 mm	270 x 175 x 200 mm	270 x 175 x 200 mm
Weight	8.25 kg	8.25 kg	7 kg	7 kg	7 kg
Battery type	N/A	9 V battery	N/A	9 V battery	N/A
Operating range	N/A	700m (conditions dependent)	N/A	700m (conditions dependent)	N/A
Dimensions	N/A	250 x 100 x 38 mm (inc. antenna)	N/A	250 x 100 x 38 mm (inc. antenna)	N/A
Weight	N/A	0.7 kg	N/A	0.7 kg	N/A

LASER UNIT

RADIO REMOTE CONTROL



90 Willandra Drive, Epping VIC 3076, Australia

T: +61 3 9357 0055

E: aumoba@moba.de

W: www.moba-automation.com.au