Automatic Plumb Laser

Plumb-up Laser: **LL-80L/LL-81L**
Plumb-down Laser: **LL-82L/LL-83L**

GEO LASER Messtechnik

Automatic Plumb Laser

plumbing quickly and safely means: inexpensive

Functional description

The automatic plumb laser LL-80L/-81L is a laser for plumbing up, the automatic plumb laser LL-82L/-83L is a laser for plumbing down, capable of electronic self-levelling over two axes.

Performance features

- **LL-80L/-82L**
  Laser class 2, laser power < 1 mW.
  No special safety precautions necessary.
  The easy standard laser class.
- **LL-81L/83L**
  Laser class 3R, laser power < 5 mW, high-power version.
  Laser power adjustable in five steps.
- **Fully automatic**
  Automatic levelling and cut-out in case of low battery or jerky movement.
- **Automatic function can be switched off**
  Therefore inclination adjustment by points of reference is possible.
- **Illuminated, clearly legible LCD display**
  Self-explanatory, for on/off, device data, company data, lock function, operating status, battery level and menu.
- **Robust metal housing, 100 % watertight**
  Plastic-coated, swept and filled with nitrogen.
- **Special laser beam quality**
  Diode laser with visible beam, high-powered lens, high life expectancy and low power consumption.
- **Lithium ion rechargeable battery**
  Operation time to 60 hours with one charge.
  Rechargeable in max. 5 hours without having to take out the battery.
- **Increased safety**
  Control indicators with blinking warning system for levelling, operating status and low battery.
- **Uncompromisingly easy**
  All you have to do is switch on/off. The rest is done by the LL-80 automatically.
- **Checking and adjustment**
  Easily possible at the building site as well. The device does not have to be opened for adjustment.

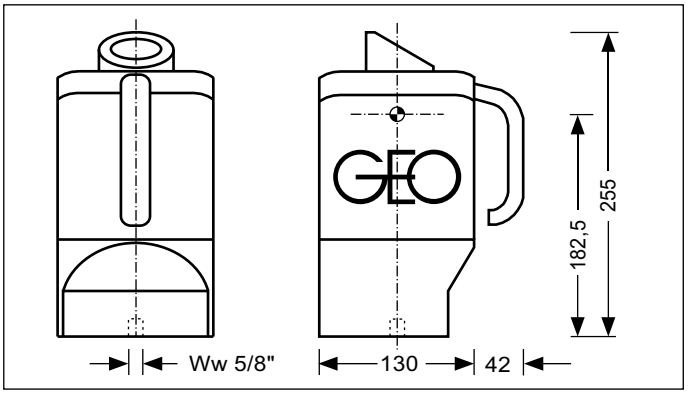
GEO quality guarantee

The new generation of lasers is the result of years of experience in the research, development and production of laser devices for the construction industry.

Technical specifications

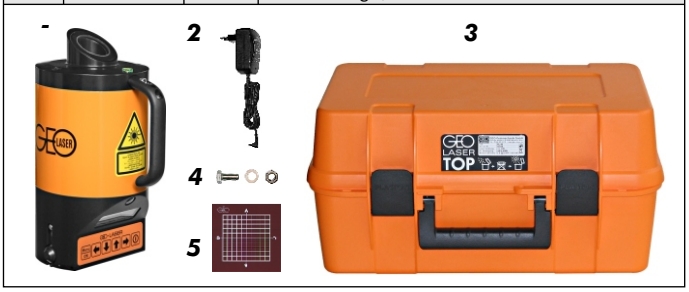
Laser class LL-80L/-82L: . . . . . 2, < 1 mW
Laser class LL-81L/-83L: . . . . . 3 R, < 5 mW
Laser: . . . . . diode laser, visible red, 635 nm
Beam diameter: . . . . . 13 mm at laser
Range LL-80L/-82L: . . . . . to 200 m
Range LL-81L/-83L: . . . . . to 500 m
Self-levelling range: . . . . . ± 5 %
Permissible deviation: . . . . . ± 5 mm/100 m
Operating time with 7.4 V DC Li Ion recharg. battery
. . . . . LL-80L/-82L: to 60 hours
. . . . . LL-81L/-83L: to 45 hours
External power supply: . . . . 11 to 14 V DC with cable 0117.02
Low battery cut-out: . . . . . yes
Watertight: . . . . . to 3.5 m
Temperature range: . . . . . - 10° C to + 50° C
Weight: . . . . . 3.4 kg
Adjustment: possible in the field without having to open the device
Guarantee: . . . . . 24 months

Dimensional sketch



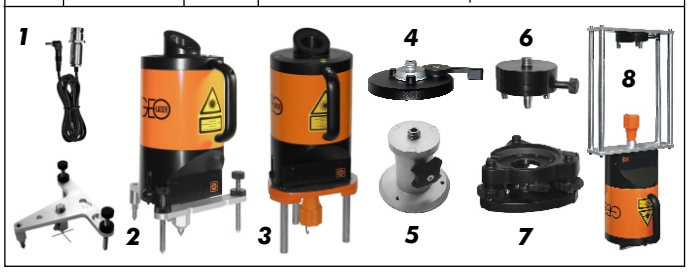
Standard delivery package

No.	Order No.	Type	Description
1	0001.4xx	LL-8x	Plumb laser
2	0037.18	NE-80	Power supply/Battery charger
3	0077.36		Transport case
4	0094.00.1		5/8"-hexagon bolt with nut and washer
5	0002.00	LL-ZT	Target with coordinates grid
1-5	**0001.405.1**	**LL-80L**	**with standard delivery package**
or	**0001.415.1**	**LL-81L**	**with standard delivery package**
or	**0001.425.1**	**LL-82L**	**with standard delivery package**
or	**0001.435.1**	**LL-83L**	**with standard delivery package**
-	8675.11		Extra Charge, Deviation: ± 2.5 mm/100 m



Optional accessories

No.	Order No.	Type	Description
1	0117.02		12 V cable, 1,8 m, laser <> battery connect.
2	0061.07	ST-08	Plumb tripod
3	0061.15	BS-20	Ground tripod
4	0056.00.2		Quick-Fix base plate
5	0056.00.1		Standard tripod adapter with centre spigot
6	8803.06	KA-84	Claw adaptor, swivelling, system Leica/Wild
7	8869.00	DF-TZ	Tribrach, system Trimble/Zeiss
8	0033.13		Plumb-down laser adaption



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