LT180G

Point & Crossline Laser

User Guide



www.spectraprecision.com

Items Included:

Laser, 7V Lithium battery, Multi-functional accessories, target, charger, user guide and rigid case



Introduction

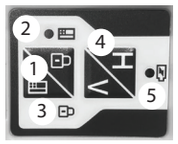
Welcome and thank you for choosing the Spectra Precision LT180G. This state-of-the-art laser tool is engineered for precision, featuring crossline and 4 laser points to help you align both horizontal and vertical projects with ease.

Before you begin, please take a few moments to read through this operator's manual carefully. Inside, you'll find all the essential information on operation, safety, and maintenance to ensure optimal performance and longevity of your tool.

For the best experience, always keep these instructions with your LT180G, especially when handing it off to another user.

Keypad Controls

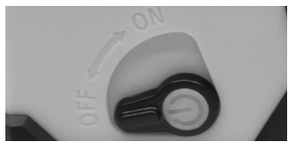
1. Pendulum lock & laser receiver controls
2. Laser receiver LED light
3. Pendulum lock LED light



4. Vertical & horizontal lines
5. Battery status LED light

Pendulum Lock Toggle

Toggle (Off)
Pendulum is locked
Laser can be tilted for slopes
Laser can be stored for transportation



Toggle (On)
Pendulum is unlocked
Laser automatically self-levels for horizontal & vertical alignments

Toggle On

The pendulum is unlocked, enabling the laser beam to automatically self-level for precise horizontal and vertical alignment. Use the H | V button to cycle through the three available planes.

Note: When the pendulum is unlocked, the laser is susceptible to damage during transportation. Always ensure that the toggle is set to the OFF position after use to protect your laser.

Toggle Off

Pendulum is locked, but the laser beam can still be used without being self-leveled. This mode is designed when a slope is required, such as installing stair rails. Press the Lock/Receiver control button once, then use the H | V button to cycle through the three available planes.

Receiver Mode

In Receiver Mode, the laser can be used with the receiver, which is useful when the beam isn't visible. To activate it, press the Lock/Receiver control button twice, then use the H | V button to cycle through the three available planes. Receiver Mode is available when the toggle is set to either ON or OFF.

LT180G

Scan this code to learn more about the LT180G!

Lithium Battery & Charging

Your Point & Crossline laser runs on a removable lithium-ion battery, delivering reliable, long-lasting power. Lithium-ion provides higher efficiency, steady output, and fast recharging. The battery is easily removable for quick swaps, ensuring uninterrupted use.

With the USB charging port, you can conveniently recharge via a power adapter, car charger, or power bank. Always use the provided USB cable and a compatible power source to avoid overheating or damage.

For optimal performance, store the battery in a cool, dry place and avoid extreme temperatures. If unused for long periods, recharge it every (6) months to maintain efficiency. Use only manufacturer-approved batteries and chargers for safety and reliability.

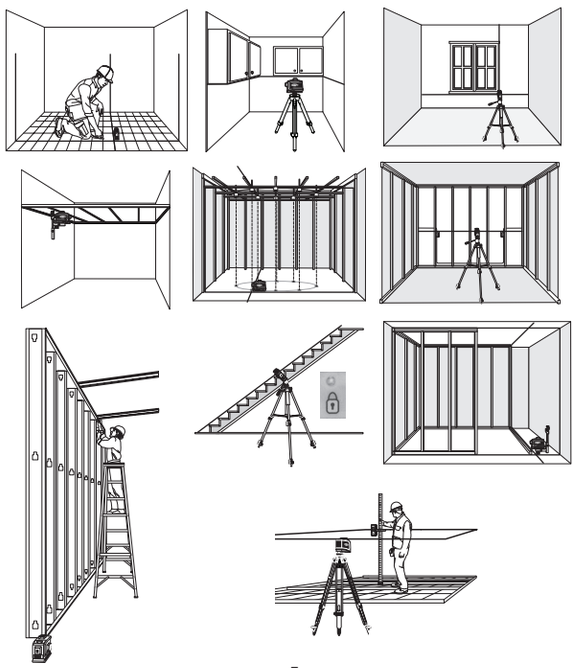
Visibility

The visibility of the laser lines on the floor will improve significantly if the laser is raised above the floor 150-500 mm (6-18 inches).

Mounting Bracket



Applications



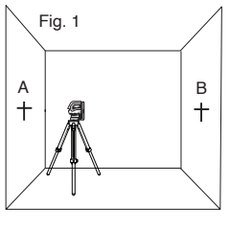
Technical Data

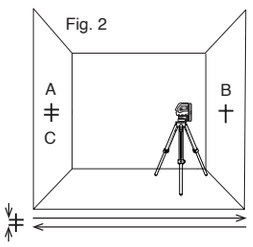
LT180G	
Accuracy	+/-3 mm @ 10 m (1/8" at 30')
Visible distance • Lines (radius) • Points • With Receiver	 35 m (115 ft) 70 m (230 ft) 75 m (250 ft)
Laser power - Class	< 1mW (Class 2)
Wavelength	520 nm
Power Supply	Lithium 3000 mAh, 7.2 V
Battery Life	8 hours
Charge time	< 4 hrs (30-minute quick charge will provide 2 hours operation)
Out of Level Indication	Beam flashes continuously
Locked Pendulum indication	Double flash every 10 seconds
Self-leveling range	3 ° +/- 0.5° all directions
IP Rating	IP54
- Operating Temp - Storage Temp	-10°C to 45°C (14 °F to 113 °F) -20°C to 60°C (-4 °F to 140 °F)
Tripod Thread	1/4-20; 5/8-11
Size (L x W x H)	121 x 70 x 109 mm (4.75 x 2.75 x 4.25 in)
Weight	0.7kg (1.4 lb)

Calibration Check

It is recommended to occasionally check the horizonal calibration of the laser:

- Find a room with a minimum of 5 m (16 ft) width.
- Turn on horizontal and vertical lines.
- Place laser near one of the walls (fig.1).
- Mark horizontal line on near wall A.
- Rotate the laser 180 degrees and mark horizontal wall B.
- Move tripod to location near the other wall (fig 2).
- Align the laser so that horizontal line is aligned directly on point B.
- Rotate the laser 180 degrees and mark the line above/below point A. Call this point C.
- The difference between A and C is two times the accuracy of the distance between the walls.
- Example. If the distance between the walls is 5 m (16 ft) and the distance between A and C is 3 mm (1/8 in), then accuracy is 3 mm at 10 m (1/8 in at 33 ft)

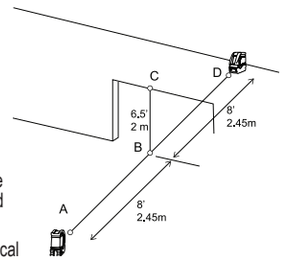




Vertical Calibration Check

It is recommended to occasionally check the vertical calibration of the laser:

- Find a door jamb about 2 m (6.5 ft) high.
- Mark point A at 2.5 m (8 ft) from door jamb.
- Turn on the laser vertical line and place it at point A toward the door jamb.
- Use the vertical line to mark point B under the door jamb, mark point C at the top of the door jamb and point D at 2.5 m (8 ft) beyond the door jamb.
- Move the laser to point D and align the vertical line with points A, B and D.
- Mark the point where the vertical line is on top of the door jamb near point C.
- If the line is within 1.5 mm (1/16 in), the vertical line is in tolerance.



General Care, Storage and Safety

General Safety Precautions

Before using the tool, inspect it for any signs of damage or malfunction to ensure safe and reliable operation. If the tool has been dropped or subjected to impact, always verify its accuracy before use to maintain precision. Although built for tough job site conditions, the tool should still be handled with care to extend its longevity and ensure optimal performance.

Cleaning and Maintenance

To maintain the laser's performance, gently blow dust off the laser windows to keep them clean. For surface cleaning, use a clean, soft cloth, and if necessary, slightly dampen it with pure alcohol or water. Avoid using other liquids, as they may damage the plastic components.

Battery Disposal

Battery disposal regulations vary by region. To ensure compliance with local environmental laws, always dispose of discharged batteries properly at designated recycling or disposal facilities. Do not incinerate, dismantle, or dispose of batteries in household waste, as improper disposal may be hazardous. For specific guidance, refer to local waste management authorities or recycling programs.

Storage

Always store the tool within the recommended temperature limits, especially during extreme summer or winter conditions. If the tool becomes wet, remove it from the carrying case and dry it thoroughly (maximum 40°C) before repacking. After prolonged storage or transport, verify the tool's accuracy before use to ensure optimal performance.

Transport

Always lock the laser before transport to prevent damage. For safe handling, use the original case or equivalent protective packaging to protect the tool during transit.

Laser Safety

This product should only be operated by trained individuals to prevent accidental exposure to hazardous laser light. To ensure safe use:

- Do not remove any warning labels, as they provide essential safety information.
- The LT180G is a Class 2 laser product (520nm), designed for controlled use in professional settings.
- Avoid direct eye exposure to the laser beam, as it may cause discomfort or potential harm.
- Never direct the beam toward others, ensuring a safe working environment for everyone.



Warranty

Spectra Precision LLC warrants the LT180G to be free from defects in material and workmanship for a period of two years and the lithium battery for a period of one year. Spectra Precision LLC or its authorized service center will repair or replace, at its option, any defective part, or the entire product, for which notice has been given during the warranty period. If required, travel and per diem expenses to and from the place where repairs are made will be charged to the customer at the prevailing rates. Customers should send the product to Spectra Precision LLC or the nearest authorized service center for warranty repairs or exchange, freight prepaid. Any evidence of negligent, abnormal use, accident, or any attempt to repair the product by other than factory-authorized personnel using Spectra Precision LLC certified or recommended parts, automatically voids the warranty. Special precautions have been taken to ensure the calibration of the laser; however, calibration is not covered by this warranty. Maintenance of the calibration is the responsibility of the user. The foregoing states the entire liability of Spectra Precision LLC regarding the purchase and use of its equipment. Spectra Precision LLC will not be held responsible for any consequential loss or damage of any kind. This warranty is in lieu of all other warranties, except as set forth above, including any implied warranty merchantability of fitness for a particular purpose, are hereby disclaimed. This warranty is in lieu of all other warranties, expressed or implied.

Service Request

To locate your local dealer or authorized Spectra Precision Service Center for service, accessories, or spare parts, please visit our website at www.spectraprecision.com

Declarations

We declare under our sole responsibility that this product complies with the following directives and standards:
IEC/EN 60825-1:2014, EN 61000-6-2, EN 61000-6-3, 2014/30/EU

Protecting the Environment

The laser, accessories and packaging ought to be recycled. All plastic parts are marked for recycling according to material type.

Note: Do not throw used batteries into the garbage, water or fire. Remove them in compliance with local environmental requirements.

We value your feedback. If you have any comments or suggestions, please feel free to reach out to us at:

Spectra Precision
3265 Logistics Lane, Suite 200
Dayton, Ohio 45377 U.S.A.
Phone: (888) 527-3771
www.spectraprecision.com

Spectra Precision (Kaiserslautern) GmbH
Am Sportplatz 5
67661 Kaiserslautern
GERMANY
Tel: +49-(0)6301-71 14 14

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