LP30, LP50 Laser Pointer







Basic Operation

•

1. Unlock the laser's compensator by sliding the switch to the LEFT

NOTE: For added mechanism protection always lock the laser when not in use by sliding the switch to the RIGHT.

2. Press the POWER button - the Power On / Low Battery LED illuminates GREEN. When the unit is tilted out of its self-leveling range the laser beams will blink 2 times per second.

3. The laser can be taken out of automatic self-leveling mode and placed in MANUAL mode to perform slope work by locking the laser's compensator (slide the switch to the RIGHT). In MANUAL mode the Manual Mode / Compensator Lock LED will flash RED.

4. When the batteries need changed the Power On / Low Battery LED changes to RED.

- 5 -

5. To turn OFF the laser, Press the POWER button again.

Installing a Ceiling

1. Measure up from the floor (or other reference mark) to the finished ceiling height.

2. Install the first piece of wall molding

3. Slide the ceiling plate (0002-3480) behind the wall molding

4. Magnetically attach the laser and mounting bracket to the ceiling plate so the level beam is at wall molding height. Install the rest of the wall molding.

5. Lower the laser 5 cm (2.0 inches) on the ceiling plate so that the level beam is at the correct ceiling target (23416) or wire bending height.

6. Install the ceiling's cross Ts and main Ts.







2) along the axis 3) depending on ambient conditions

Introduction

Thank you for choosing the Spectra Precision® LP30 or LP50 laser from the Trimble' family of precision handheld lasers. This simple-to-use tool allows you to transfer points between the floor and ceiling and to establish 90° points for laying out wall lines and putting up wall partitions. You can also use the laser for other applications where true plumb, square, and level setups are required.

Before using the laser, be sure to read this operator's manual carefully. Included in it is information about setting up, using, and maintaining the laser. Also included in this manual are CAUTIONS and Notes. Each of these words represents a level or danger or concern. A CAUTION indicates a hazard or unsafe practice that could result in *minor* injury or property damage. A Note indicates important information unrelated to safety.

Your comments and suggestions are welcome; please contact us at:

- 2 -

Trimble Construction Tools Division 8261 State Route 235 Davton, Ohio 45424-6383 U.S.A. (937) 245-5600 Phone (800) 538-7800 FAX: (937) 233-9004 www.trimble.com/spectra Internet:

Strimble.

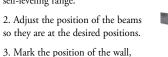
User Guide

Applications

General Leveling and Aligning

1. Place the laser on a flat surface. The laser must be level within its self-leveling range.

1 1



elevation, floor or ceiling. Installing and Plumbing a Wall

| 1. Place the laser so the Plumb-Down Beam is positioned over the desired wall location. | |
|---|---------|
| NOTE: If the floor track is already | |
| installed the laser should be placed on | |
| the Mounting Bracket (0002-3470) to | |
| clear the floor track and to position | |
| the Plumb-Down Beam over the edge | |
| of the track. Magnets are provided on | - M - D |
| the Mounting Bracket to hold the | |
| assembly to the floor track if desired. | |
| 2. Use the Plumb-Up Beam to position the top track. | L Q |

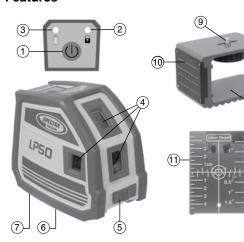
- 6

Specifications

| Level & Up Beam Accuracy 1,2 | ± 1.5 mm @ 5 m (± 1/16 in. @ 17 ft) | |
|---|---|--|
| Down Beam Accuracy 1,2 | ± 1 mm @ 0.5 m (± 1/16 in. @ 2.5 ft) | |
| Square Beam Accuracy LP50 ^{1,2} | ± 1.5 mm @ 5 m (± 1/16 in. @ 17 ft) | |
| Self-Leveling Range | ±4° from level | |
| Out-of-Level Indicator | Beam flashes | |
| Working Range ³ | Up to 30 m (100 ft) | |
| Laser Class | LP30 - 2 / LP50 - 3R, 3A | |
| Laser Type | 635 nm | |
| Beam Shape | Square | |
| Battery Type | 2 AA alkaline | |
| Battery Life ¹ | 20 hours (alkaline) | |
| Low Battery Indicator | Power/Low Battery LED changes to Red | |
| Manual Mode and Compensator Lock Indicator | LED On and beam flashes | |
| Operating Temperature Range | –10 °C to 45 °C (14 °F to 113 °F) | |
| Size H x L x W | 90 x 104 x 61 mm (3.54 x 4.09 x 2.40 in.) | |
| Weight | 0.31 kg (0.69 lb) | |
| | | |

1) at 21° C (70° F)

Features



6. ¼ x 20 Mounting Thread

8. Mounting Bracket (0002-

9. ¼ x 20 Mounting Knob –

11 Ceiling / floor target (23416)

7. Battery Door

3470)

Sliding

10. Magnets

1. Power button 2. Manual Mode / Compensator Lock On LED 3. Power On / Low Battery LED 4. Laser Exit Windows 5. Compensator Lock / Manual Mode Switch

- 3 -

1 M (4 Ft) Marks

-7-

Maintenance and Care

You will get years of service from your laser by following the maintenance and care recommendations in this manual. However well the product is designed, mishaps do occur and the most common problems associated with these are covered in the following areas. Any damage to the laser caused by improper maintenance and care voids the warranty.

Handling Precautions

When transferring the laser from a very low temperature to a warmer environment or visa versa, always allow time for the laser to reach the new temperature before using. Allowing this time is especially important when transferring the laser from an extremely heated/cold vehicle to the job site.

Installing/Removing the Batteries

CAUTION: The batteries should be removed when storing the laser more than 30 days.



1. Low Battery is indicated by the Power On / Low Battery LED changing from GREEN to RED.

2. Release the battery door latch using your fingers, a coin, or a screwdriver. Open the door,

3. Install/remove the AA batteries.

NOTE: When installing the batteries, be sure to note the positive (+) and negative (-) diagrams molded on the battery housing.

4. Close the battery door and latch it shut.

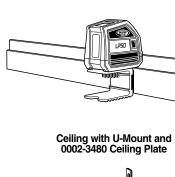
Battery Disposal

Some areas have regulations regarding the disposal of batteries. Be sure to dispose of discharged batteries properly.

- 4 -

0002-3470 Mounting Bracket

Over Tall Floor Track or Obstacles with U-Mount





Columns with Mounting Strap

Elevations with 1/4 x 20

Tripod Mount





System Cleaning

For maximum performance and accuracy always keep the lenses clean. When cleaning, apply very light pressure and use only a good quality glass cleaner on a soft cloth to clean the exterior of the laser and its lenses.

- 8 -

CAUTION: A dry cloth or abrasive organic cleaner could scratch or damage these surfaces.

CAUTION: Do not submerge the laser.

Storage

When you're not using the laser, store it in its pouch/carrying case.

CAUTION: Do not store the laser in a wet pouch/carrying case. If the pouch/carrying case gets wet, let it dry before storing the laser in it

CAUTION: The batteries should be removed when storing the laser more than 30 days.

Battery Disposal

Some states and local areas have regulations regarding the disposal of batteries. Be sure to dispose of discharged batteries properly.



Calibration

Before each use, be sure to check the pocket laser for signs of damage. If the laser has been dropped or subjected to other rough treatment, it should be checked for accuracy.

Checking Accuracy—Plumb

1. Press the power button.

2. Place the laser so that its down beam is over a reference mark on the floor.

3. Locate the position of the up beam on the ceiling and make a mark.



- 13 -

Checking Level to Square Beam 90° Calibration (LP50 only)

Refer to the graphic for the location of the laser at each step and for the location of the marks made at each step. All marks can be made on the floor by placing a target in front of the level or square beam and transferring the location to the floor.

Steps 5-6

point D.

Steps 7-8

point E.

Turn laser 90

point D. Mark

C¥

and align to

Set up laser over

point B. Align to point C. Mark

1. Find a room at least 10 m (35 ft) long. Mark a point (A) on the floor at one end of the room.

2. Set up the laser so that its down beam is over point A. Make sure the level beam points toward the far end of the room.

3. Mark a point (B) on the floor at the center of the room using a target to transfer the level beam location to the floor.

4. Mark a point (C) on the far wall or transfer the level beam location to the floor.

– 17 –

Laser Safety

Use of this product by people other than those trained on this product may result in exposure to hazardous laser light.

• Do not remove warning labels from the unit.

• The LP30 is a Class 2 laser product. LP50 is Class 3A/3R (< 5mW; 635 nm).

• Never look into the laser beam or direct it to the eyes of other people.

• Always operate the unit in a way that prevents the beam from getting into people's eyes.

LP50 NOTE: It is required to post a Laser Safety Sign and to read, sign and carry a Laser Operator's Card when this laser is operated in public places.

To download and print the required materials please visit our website support list at www.trimble.com/support.shtml



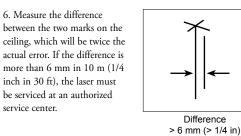


4. Rotate the laser 180° and realign the down beam over the reference mark on the floor. 5. Locate the position of the up beam on the ceiling, which will be twice the actual error,

and make a mark.

service center.





- 14 -

- 5. Move the laser to point B and align the level beam to point C again.
- 6. Mark the location of the square beam (D) on the floor.

Note: To ensure accuracy, the distances from A to B, B to C, and B to D should be equal.

- 7. Turn the laser 90° so that the level beam aligns with point D.
- 8. Mark the location of the square beam (E) on the floor as close as possible to point A.
- 9. Measure the distance between points A and E. If the measurement is greater than the values shown below, the laser must be serviced at an authorized service center.

| Room length or distance | The 90° angle between the |
|-------------------------|---|
| between points A and C | level beam and square beam is out of calibration if the distance between |
| | of calibration if the distance between |
| | points A and E is: |
| 10 m (35 ft) | >9.0 mm (³ /8 in.) |
| 20 m (70 ft) | >18.0 mm (³ / ₄ in.) |

– 18 –

Warranty

Trimble warrants the LP30 and LP50 to be free of defects in material and workmanship for a period of three years. For the first 24 months, Trimble or its authorized Dealer or 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. For months 25 through 36 an exchange fee may apply. This warranty period is in effect from the date the system is delivered by Trimble or its authorized Dealer to the purchaser, or is put into service by a Dealer as a demonstrator or rental component.

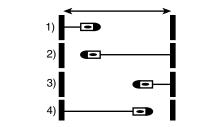
Trimble or its Authorized Service Center will repair or replace, at its option, any defective part or components of which notice has been given during the warranty period.

Customers should send products to the nearest Authorized Factory, Dealer, or Service Center for warranty repairs, freight prepaid. In countries with Trimble Service Subsidiary Centers, the repaired products will be returned to the customer, freight prepaid.

Any evidence of negligent, abnormal use, accident, or any attempt to repair equipment by other than factory-authorized personnel Trimble certified or recommended parts, automatically voids the

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.

Checking Accuracy—Level



- 1. In an area with at least 6 m (20 ft) between two parallel walls, place the laser 50-75 mm (2-3 in.) from one wall, facing the wall.
- 2. Press the power button.
- 3. Locate the position of the level beam on the wall and make a mark
- 4. Rotate the laser 180° so that the laser faces the other wall.
- 5. Locate the position of the level beam on the wall and make a mark.
- 6. Move the laser to the far wall, facing the wall.

- 15 -

Request for Service

Our goal is to provide prompt and efficient service through competent service dealers. To locate your local dealer or authorized Trimble Service Center, contact our world centers listed below.

North & Latin America Trimble Construction Tools 8261 State Route 235 Dayton, Ohio 45424 U.S.A. (800) 538-7800 (Toll Free) +1-937-245-5600 Phone

+1-937-233-9004 Fax

Europe

Trimble Kaiserslautern GmbH

Am Sportplatz 5

67661 Kaiserslautern

GERMANY

+49-06301-71 14 14 Tel

+49-06301-32213 Fax

+971-4-881-3005 Phone +971-4-881-3007 Fax Asia-Pacific Trimble Navigation

Australia PTY Limited Level 1/120 Wickham Street Fortitude Valley, OLD 4006 AUSTRALIA +61-7-3216-0044 Phone +61-7-3216-0088 Fax

Africa & Middle East

Trimble Export Middle-East P.O. Box 17760

Jebel Ali Free Zone, Dubai

UAE

China Trimble Beijing Room 2805-07. Tengda Plaza No. 168 Xiwai Street Haidian District Beijing, China 100044 +86 10 8857 7575 Phone +86 10 8857 7161 Fax www.trimble.com.cn

- 19 -

The foregoing states the entire liability of Trimble regarding the purchase and use of its equipment. Trimble 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 an implied warranty merchantability of fitness for a particular purpose, is hereby disclaimed. This warranty is in lieu of all other warranties, expressed or implied.

- 23 -

7. Adjust the laser's height until the beam is superimposed over the mark made in step 5.

- 8. Without changing the height of the laser, rotate it 180° to place the beam near the mark on the first wall (step 3).
- 9. Measure the vertical distance between the beam and the mark made in step 3. If the measurement is greater than the values shown below, the laser must be serviced at an authorized service center.

| Distance Between Walls | Measured Value |
|------------------------|--------------------------------|
| 6 m (20 ft) | 3.0 mm (1/8 in.) |
| 12 m (40 ft) | 6.0 mm (1/4 in.) |
| 18 m (60 ft) | 8.0 mm (⁵ /16 in.) |
| 24 m (80 ft) | 11.0 mm (7/16 in. |
| | |

- 16 -

Notice to Our European Union Customers

For product recycling instructions and more information, please go to: www.trimble.com/environment/summary.html

Recycling in Europe

```
To recycle Trimble WEEE,
call: +31 497 53 2430, and
ask for the "WEEE associate " or
```

mail a request for recycling instructions to Trimble Europe BV c/o Menlo Worldwide Logistics Meerheide 45 5521 DZ Eersel, NL

- 20 -

Trimble

Trimble Construction Tools Division 8261 State Route 235 Davton, Ohio 45424 U.S.A

