LM585R Laser Level User Manual

Preface

Thank you for purchasing this brand new LM585R laser level. In order to use this product safely and correctly, please read this manual thoroughly, especially the Safety Instructions part.

After reading this manual, it is recommended to keep the manual at an easily accessible place, preferably close to the device, for future reference.

Limited Warranty and Liability

Uni-Trend guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of Uni-Trend. If you need warranty service within the warranty period, please contact your seller directly.

This warranty is the only compensation you can obtain. Uni-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

Product Structure



1	360° horizontal glass window
2	Vertical glass window V1
3	Vertical glass window V2
4	Vertical glass window V3
5	Vertical glass window V4
6	Pendulum lock
7	Button
8	Battery pack
9	Charging interface

Safety Instructions

Before using this product, please carefully read and follow the user manual and safety instructions, otherwise the warranty may be invalid.

Warning! ● Class 2 laser product ● Wavelength: 635nm±10nm
Laser radiation: ● Do not stare into beam ● Do not directly expose to eyes ● Avoid using optical instruments

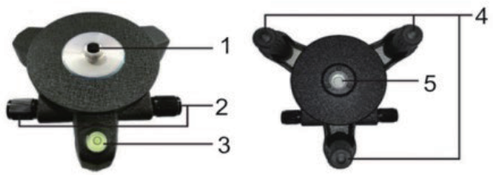
Cautions

Some product kits will provide glasses. Please note that these glasses are not safety glasses. They are only used to help users recognize the laser beam in strong ambient light or when the light source of the laser instrument is distant.

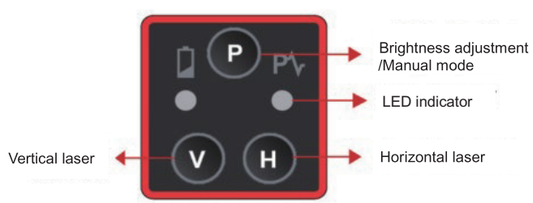
Do not stare into beam or directly observe the laser beam (red or green light source) via an optical instrument or set the instrument at the eye level (to avoid damage to eyes).

- Do not disassemble the laser instrument without authorization.
- Do not refit the instrument without authorization in any way; otherwise it may cause harmful laser radiation exposure.
- Do not use the laser instrument around children or allow them to use it.
- Exposure to Class 2 lasers for no more than 2 seconds is generally considered safe, because natural eyelid reflexes (blinking) usually can provide adequate protection.

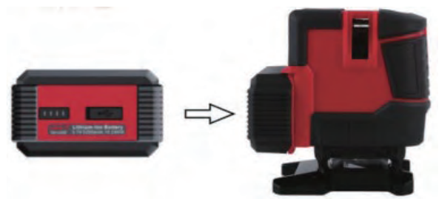
Operation Guidelines



1	5/8" threaded joint
2	Fine tuning knob
3	Circular bubble
4	Tripod screw
5	5/8" adapter screw hole



Installation of the Battery Pack



When the laser instrument is in the locked state, toggle the pendulum lock to the unlocked position to turn it on. Toggling the pendulum lock to the locked position can turn off the instrument in any mode. In the self-leveling/manual mode, the LED indicator is green and the battery power shows on the battery status screen. When the instrument is turned off, the battery power indicator will off after 5 seconds.

When the laser instrument is in the locked state, toggle the pendulum lock to the unlocked position to start the self-inspection. After completing the self-inspection, the horizontal laser line is always on, and the instrument is in the self-leveling mode. In the self-leveling range of 3°±1°, the instrument will perform the self-leveling function. If the range is exceeded, the instrument will flash quickly and make a beeping sound.

Press the H button to turn on/off the horizontal laser line, and press the V button to turn on/off the vertical laser line. (The two horizontal/vertical laser lines can be used alone or together).

When the instrument is turned on, toggle the pendulum lock to the locked position again, and the instrument can be turned off.

Note: It is to ensure that users must toggle the pendulum lock to the locked position before turning off the instrument.

Manual Mode

When the instrument is turned off, press and hold the Manual mode/Pulse button for more than 3 seconds to turn on the instrument and enter the manual mode. The laser line can be set to different angles. In the self-leveling/manual mode, the LED indicator is red. Press and hold the Manual mode/Pulse button again for more than 2 seconds to turn off the instrument.

In the manual mode, the out-of-range sensing will be turned off and the laser line will flash once every five seconds to remind users that the manual mode is enabled.

Note: The laser line in the manual mode cannot be used as a horizontal/vertical reference line.

Function Description

This product can emit 4 vertical laser lines, 1 horizontal 360° laser line and 1 lower line point, which are controlled by pressing the H and V buttons. When the instrument is turned on, it emits the front vertical laser line, horizontal laser line and lower line point by default.
Short press the H button to turn on/off the horizontal laser line and lower line point.
Short press the V button to step through vertical laser lines.
Short press the P button to adjust the laser line brightness (three scales).

Specifications

Model	LM585R
Laser tube	SHARP LD
Laser type	Red, high brightness
Laser lines	8 lines
Laser wavelength	635nm±10nm
Laser class	CLASS II
Horizontal accuracy	±3mm/10m
Vertical accuracy	±3mm/10m
Brightness adjustment	3 scales adjustable
Laser linewidth	5mm±1/10m (indoor lighting: 80~100lux)
Emission angle	Horizontal: 360°, vertical: 120°
Leveling range	±(3±1)°
Minimum distance to ground	20mm
Battery life	> 30h
Operating range	In the highest brightness, radius > 30m
Leveling modes	Magnetic damping, heavy hammer
Alarm modes	Buzzer + laser line flashes
Diagonal mode	√
Product size	85×75×115mm
Operating temperature	-10~50℃
Power supply	3.7V 6000mAh
Standard accessories	Line laser, 6000mAh battery pack, Type-C cable, user manual, tripod base, toolbox

Maintenance

- The laser instrument has been carefully calibrated and packaged according to various precise specifications before leaving the factory.
- It is recommended to perform accuracy test before the first-time use and perform test regularly, especially under high accuracy requirements.
- Turn the product off and toggle the pendulum lock to the locked position when it is not in use.
- In the manual mode, the out-of-range sensing will be turned off. The laser line in this mode cannot be used as a horizontal/vertical reference line.
- Keep the instrument out of the reach of children.
- Do not short-circuit the battery contacts or throw the battery into fire.
- Do not expose the meter to sunlight or high temperatures. The meter shell and some parts are made of plastic, which may be damaged in high temperature environments.
- Clean the outer plastic parts with a damp cloth. It is not recommended to clean it with dissolvent. Wipe away moisture with a dry soft cloth before putting the meter into the box.
- Store the meter properly in its pouch or package.
- Do not dispose the meter into household trash.
- Dispose the battery or related electronic waste according to local laws and WEEE (Waste Electrical and Electronic Equipment) rules.

Accessories

Line laser ----------1 PC
6000mAh lithium battery----------1 PC
User manual----------1 PC
Tripod base ----------1 PC
Type-C charging cable----------1 PC
Toolbox----------1 PC

UNI-T®
UNI-TREND TECHNOLOGY（CHINA）CO., LTD.
No. 6, Gong Ye Bei 1st Road,
Songshan Lake National High-Tech Industrial
Development Zone, Dongguan City,
Guangdong Province, China