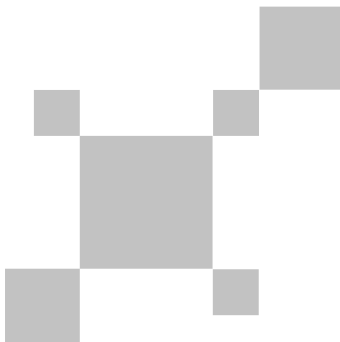


# UNI-T



P/N:110401109821X




## **LM585LD** **Line Laser User Manual**

## Product introduction



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	Protection lock
7	ON/OFF button
8	Battery pack
9	Charging port

## Safety instruction

<b>Warning:</b> <ul style="list-style-type: none"><li>● Class II Laser product</li><li>● Maximum output power: <math>\leq 1\text{mW}</math></li><li>● Wave length: 520nm</li></ul>	 IEC /EN 60825-1
<b>Laser radiation:</b> <ul style="list-style-type: none"><li>● Do not stare at the laser beam.</li><li>● Do not point the laser to eyes.</li><li>● Do not use optical instrument.</li></ul>	

## Safety guideline

Please carefully read and follow the safety instruction before use.

## Warning

Please carefully read this manual and relevant safety information before use.

## Attention

Do not point the red or green laser beam to eyes when operating. Laser beam may injure eyes.

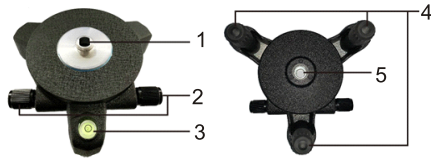
## Attention

Glasses as accessories are provided for some products, please pay attention that these glasses are not safety glasses, they are only used to help users to easily identify laser beam in strong light environment or when the laser source is relatively far away from the users.

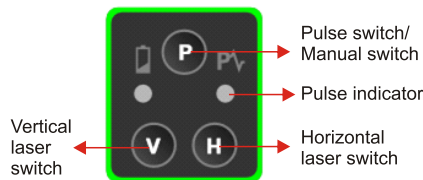
Do not observe laser beam directly by optical instrument or set the line laser at visual height.

- Do not disassemble the line laser without authorization, users do not need to repair any inside part of line laser.
- Do not make any alteration to the line laser, alteration may result in hazardous laser radiation.
- Do not use the line laser near children, and children are not allowed to use line laser.
- It is deemed as safe for users to expose eyes to Class II laser for no more than 2 seconds, users can blink to protect their eyes.

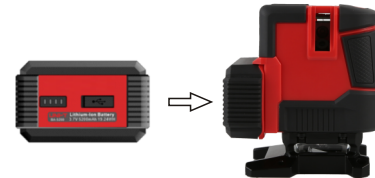
## Operation



1	5/8 threaded connector
2	Tune knob
3	Round water level
4	Foot screw
5	Screw hole



## Install lithium battery pack



Slide the switch to unlock/lock position to turn on/off the instrument. In self-leveling/manual mode, LED indicator lights up green, the battery power screen keeps displaying remaining power and stops displaying after turning off the instrument for 5 seconds.

The instrument will conduct self-calibration after switching on, the horizontal laser beam keeps lighting up after calibration, and then the line laser enters self-leveling mode, within  $3^{\circ}\pm 1^{\circ}$ , the instrument will conduct self-leveling, if beyond  $3^{\circ}\pm 1^{\circ}$ , the instrument will emit flashing beams and alarm.

Press H button to turn on/off horizontal laser beam, press V button to turn on/off vertical laser beams (Two horizontal/vertical laser beams can be used together or separately).

When the instrument is ON, user can slide the lock switch to lock position to turn off the switch.

Note:

This is to ensure that the instrument movement is locked before users turn off the instrument.

## Manual mode

When the instrument is OFF, long press manual/pulse button for more than 3 seconds to turn on the instrument and it will enter manual mode. The angle of laser beam can be set as needed. In self-leveling/manual mode, LED indicator lights up red. Long press manual/pulse button again for more than 2 seconds, the instrument will turn off.

Overrange sensing is OFF in manual mode and the laser beam flashes every 5 seconds to indicate that the manual mode is ON.

Note: In manual mode, the projected laser cannot be used as horizontal or vertical reference laser.

## Pulse mode

When the instrument is ON, short press manual/pulse button to enter pulse mode, the brightness of laser beam will decrease and the pulse indicator light up blue, the receiver can be used at this time. Short press manual/pulse button to exit pulse mode, and then the pulse indicator lights off.

## Function description

The instrument can generate four vertical laser beams, one horizontal 360° laser beam and one aligning point.

When the instrument is ON, the logic sequence defaults at vertical laser, horizontal laser and aligning point.

Short press H button to turn on/off horizontal laser beam and aligning point.

Short press V button to switch among vertical laser beams.

## Specification

Laser type	LD green light
Laser wave length	520nm±5nm
Laser power	30mW
Laser class	Class II
Laser number	8 beams
Horizontal accuracy	≤±3mm/10m (±60")
Vertical accuracy	≤±3mm/10m (±60")
Laser width	<4mm/10m (Indoor light: 80~100lux)
Distance from ground	≤20mm
Emitting angle	Horizontal 360°, vertical 120°
Working distance	30m
Working temperature	-10~40°C
Storage temperature	-10~40°C
Outdoor pulse	Pulse (5:5) mode
Leveling time	≤3 seconds
Leveling range	3°±1°
Leveling type	Magnetic damping type, heavy bob type
Battery type	Lithium battery pack (including 2 pieces of 18650 batteries)
Battery capacity	5200mAh with Type-C port
Dimension	138.3mm×89.5mm×136.4mm
Working time	4 hours

Maintenance

- When the instrument is not in use, please turn it off and slide the lock switch to lock position.
- Do not short circuit the battery contact piece or put the batteries into fire.
- Do not put the batteries in high temperature environment or in places where sunlight shines directly.
- Clean the exterior plastic part with damp cloth, it is not recommended to wipe the instrument by solvents. Wipe the instrument with dry and soft cloth before storage.
- Store the instrument in soft case or plastic box when it is not in use.
- Do not put the instrument near household waste.
- Dispose of the lithium battery pack or discarded instruments according to WEEE directive or relevant directives.

Accessories

Instrument -----	1 piece
5200mAh lithium battery-----	1 piece
Instruction manual-----	1 piece
Tripod mount-----	1 piece
Lifting platform-----	1 piece
Type-C charging cable-----	1 piece
Adaptor-----	1 piece
Blow-molding box-----	1 piece

