

UNI-T®



LM520G-LD/LM530G-LD/LM550G-LD Laser Level English Manual

P/N:110401109493X

Preface

Thank you for purchasing this brand new product. In order to use this product safely and correctly, please read this manual thoroughly, especially the safety notes.

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 or 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.

Uni-Trend will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by using this device.

1. Description



2. Safety Instruction

Please carefully read and obey the following safety instructions before use, otherwise may void the warranty:

Warning! • Class II laser product • Maximum output power: $\leq 1\text{mW}$ • Wavelength: 510nm-515nm	 IEC /EN 60825-1
Laser radiation: • Never stare into the laser beam directly • Do not expose eyes to the laser beam directly • Avoid using optical instrument	

3. Cautions

Please read all the instructions carefully before operation. Do not remove any label of device.

- Do not expose eyes to the laser beam (green/red laser) during operation. Prolonged exposure to the laser beam may cause eye damage.
- Never stare into at the laser beam directly or observing it by any optical instrument. Do not set the meter at a visual height (to avoid injury caused by exposing eyes to laser beam).
- Do not disassemble or modify the laser meter in any way. No inner parts can be repaired by users. Unauthorized modifications may emit harmful laser radiation. Please send the meter to professional maintenance personnel.
- Keep the laser meter away from children or serious injury may occur.
- Class II laser should not be observed for more than 2s.
- For safety and convenience, the following print (or label) should be placed on product to inform the laser type. Some product sets provide with accessory glasses. Please note that this kind of glasses is not safety glasses. It only helps user to easily identify the laser beam in strong ambient light or far away from the laser meter source.
- Do not use the meter in flammable, explosive environment.
- It is not recommended to clean it with organic dissolvent.

4. Battery Charging and Safety Instructions

2 build-in 18650 Li-ion batteries of this product are not allowed to be removed by users. Otherwise we will not responsible for this kind of repair.

Safety of Li-ion Battery:

- Please charge the battery pack with the specified charger. Fire hazard may be caused by improper charger using.
- When the battery pack is not in use, keep it away from metal objects (such as: paper clips, coins, keys and nails) to prevent two ends' connection, which may cause burning or fire hazard.
- Avoid contact or eye contact with the batteries' liquid leakage, which corrodes and burns. Flush with water in time if you touch it. Immediately go to hospital for medical treatment in case of eye contact.
- Do not use the damaged or modified battery pack to prevent unpredictable results. Unauthorized repair for battery pack is not allowed. Please send it to manufacturer or authorized service provider.
- Do not expose the batteries to the fire or high temperature over 130°C to prevent explosion.
- Please charge in 24 hours when the battery is low or the laser is shut down by low power.
- Optimal charging temperature: 0°C-20°C (32°F-68°F)

5. Operation Guideline

Device Installation

Place the meter on flat ground, lifting platform or fix it on a tripod. Make sure the bottom screw is tightened to prevent the device dropping from the tripod.

Battery Installation

The product comes with a 3.7V 4000mAh li-ion battery pack, please install the battery pack correctly to the groove.

Leveling

Before use, please level the device by the leveling bubble on the top. The laser tube will blink and the buzzer beeps if the leveling range is exceeded.

Battery Charging

The blue battery indicators will display the battery status: 25%-50%-75%-100%. The remaining battery capacity is 25% or less when only the leftmost indicator is on. Please charge the battery in time, otherwise when the battery is low, the indicator of leveling bubble will blink and the laser darkens.

Take out the battery pack, insert the charging wire and the adapter into it. Charging starts when the indicators blink. Charging is completed when 4 indicators are kept on. Then the charging wire should be unplugged. After the battery pack cooling down, install it on the device.

Laser Function

- Turn the power switch to ON, the horizontal laser will be enabled and can be adjusted by H/V button. At this point, short press the V button to enable V1, V3 and lower reference point, press the V button again to enable V2 and V4. The buzzer alarm will be triggered if the leveling angle of 3.5° is exceeded. Turn the power switch to OFF to turn off the device.
- In power-off state, long press H/V button for 3s to enter the lock mode (diagonal function), the button indicator will be on, adjust the laser line by H/V button. At this point, short press the V button to enable V1, V3 and lower reference point, press the V button again to enable V2 and V4. Short the H/V button to turn off the lock mode.

Short press the OUTDOOR button to enter pulse mode.

6. Specification

Models	LM520G-LD	LM530G-LD	LM550G-LD
Laser lines	2	3	5
Laser points	3	4	6
Laser level	Class II		
Laser accuracy	±3mm@10m		
Emission angle	$V \geq 110^\circ$, $H \geq 130^\circ$		
Self-leveling	√		
Self-leveling time	≤5s		
Self-leveling range	3° (±0.5°)		
Self-leveling alarm	√		
Diagonal mode	√		
Outdoor pulse mode	√		
Buttons	3 buttons (H/V/Outdoor)		
Operating distance	25m (point) /20m (line) @300Lux		
Tuning mode	360° fine tuning		
Graduated collar	√		
Size of screw hole	5/8"		

7. Maintenance

- The laser device 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 during high precision requirements.
- Turn the device off when it is not in use.
- Do not short-circuit the battery contacts, charge the alkaline battery or throw the battery into fire, these actions may cause dangerous accidents.
- Do not use old and new batteries simultaneously. Be sure to replace all of them with the same type of batteries in same brand.
- Keep the battery out of the reach of children.
- 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. Remove the batteries during long-time storage to avoid battery leakage.
- 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.

8. Accessories

- English Manual
- Adapter
- Fiducial mark
- Laser glasses
- Toolbox

The contents of this manual are subject to change without prior notice.

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