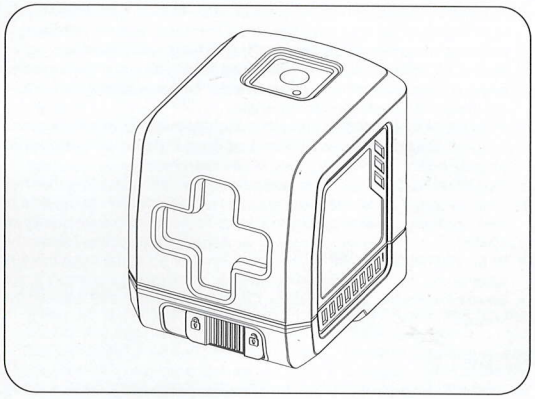
Motovera

Manual

LASER LEVEL



***Congratulations!**

You have chosen one of our laser level which is the most handy and professional laser tool you can think of to carry out work for all trades from drop ceiling installation, lighting fixtures, photo frames aligning and wall tiling down to floor tiling etc.

V 202311

FEATURES

- **COMPACT AND HANDY:** Soft-grip, light weight and palm-sized design.
- **SELF-LEVELING MODE:** Self-leveling up to 4 degree automatically, the instrument self-levels so the operator doesn't have to manually level the tool. Not only does the Smart Pendulum System self-level, it indicates out-of-level condition with a blinking cross-line laser.
- **MANUAL MODE:** Support for tilting laser lines manually at any angle. It is convenient for DIY decoration or suspended ceilings, and manually obtains slashes at any angle.
- **POWER SAVING MODE:** Laser line brightness adjustable via 4 gears, adapt to the brightness of different working environments and appro priately extend the working time of the instrument.
- **PULSE MODE:** Work with laser detector for extending further distance range. (The laser detector is not included in the kit and is sold separately, please purchase a laser detector with a frequency of 10 KHz).
- **IP 54 PROTECION:** With a protection level of IP54, the instrument is waterproof, dust-proof, and shockproof.
- **Smart indicator light design:** Clearly displaying the instrument status.

SAFETY

Read the Safety Instructions and Manual thoroughly before using this product.
All users must fully understand and adhere to these instructions.

- While the product is in operation, be careful not to expose your eyes to the emitting laser beam . Exposure to a laser beam for an extended time may be hazardous to your eyes.
- Do not stare directly into the beam or view directly with optical instruments or set up the laser at eye level.
- Do not disassemble the laser tool. There are no user serviceable parts inside.
- Do not modify the laser in any way. Modifying the tool may result in hazardous Laser Radiation Exposure.
- Do not operate the laser around children or allow children to operate the laser.
- An exposure to the beam of a Class 2 laser is considered safe for a maximum of 0.25 seconds. Eyelid reflexes will normally provide adequate protection.
- Please do not mix this instrument with household garbage and discard it. Please recycle this instrument in accordance with local ordinances.
- Please recycle alkaline batteries in accordance with local ordinances.

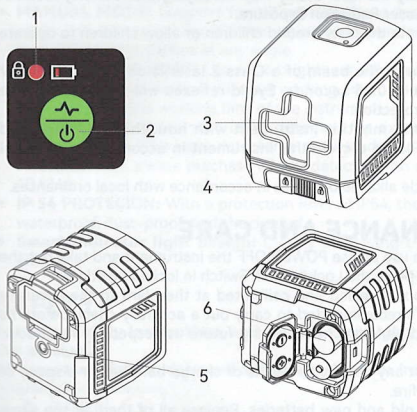
MAINTENANCE AND CARE

- When not in use please POWER OFF the instrument and take out the battery and place the Lock/Unlock Switch in locked position.
- The laser tool is sealed and calibrated at the plant to the accuracy specified. It's recommended to carry out a accuracy check before its first use and periodic checks during future use especially for precise layouts.
- Do not short any battery terminals or charge batteries or dispose of batteries in fire.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.
- Keep batteries out of reach of children.
- Remove batteries if the tool will not be used for several months.
- Do not store the laser tool in direct sunbeam or expose it to high temperatures.
- The housing and some internal parts are made of plastics and may

become deformed at high temperatures.

- Exterior plastic parts may be cleaned with a damp cloth. Although these parts are solvent resistant, NEVER use solvents. Use a soft, dry cloth to remove moisture from the tool before storage.
- Do not dispose of this product with household waste.

PRODUCT OVERVIEW



1	Lock/Unlock/Low battery state indicator light	2	Key Button
3	Laser Window	4	Lock/Unlock Switch
5	1/4"-20 mounting thread	6	Battery Compartment

SPECIFICATIONS

Laser Wavelength	Green Beam:510-530nm
Laser Class	Class 2
H/V Accuracy	< ±3mm@10m
Self-leveling range	4° ±1°
Self-leveling time	< 3s
Leveling	Automatic
Working Range	100ft/30m @ Indoor 100m @Outdoor with detector(10 KHz)
Power supply	2*1.5V AA Alkaline Batteries
Operating time	Approx. 4 hours@ first gear Approx. 5 hours@ second gear Approx. 8 hours@ third gear Approx. 22 hours@ fourth gear
Mount Size	1/4"-20 mounting thread
Operating Temperature Range	-10° C to +50° C
Storage Temperature Range	-25℃ to +70℃

MODE OF OPERATION

A. How to use the laser level:

1.Turn on the laser level:

Manual Mode: Press and hold the top green button for 3-5 seconds to turn on the laser level.
Auto Mode: Slide the pendulum button to the unlock position to turn on the laser levlel.

2.Turn off the laser level:

Manual Mode : Be sure to leave the pendulum key in the locked position and then long press the top green button for 3-5 seconds to turn off the laser level. (NOTE: The laser leveler can only be turned off when the pendulum is in the locked position .)

Auto Mode: Slide the pendulum key to the locked position .

B.How to operate the laser level:

1.Auto Leveling Mode: Enabled when the pendulum key is switched to the unlocked position . The laser beam flashes rapidly when the laser level is outside the auto-leveling range (4°+1°). (NOTE: Place this laser level on a level surface when used in Auto Leveling Mode.)

2.Manual Mode: Slide the pendulum key to the locked position , then press and hold the top green button for 3-5 seconds. Manual mode can be turned on.
The laser level can be positioned at various angles to project non-horizontal lines or dots.

The laser beam will blink every 3-5 seconds to notify the user. (NOTE: The laser beam projected in manual mode cannot be used as a horizontal or vertical reference by nature.)

C. 3 Dimming Modes: Simply press the top green button to adjust the beam brightness (each press can adjusts the light level).

● **In Self-leveling mode:**

Press Key Button Sequences	Brightness gear	Recommended indoor
working distance		
1st time	Second gear 75%	15M-25M
2nd time	Third gear 50%	10M-20M
3rd time	Fourth gear 25%	1M-10M
4th time	Restore the first gear 100% (cyclically)	20M-30M

Note: When powered on, the brightness defaults to 100% on the first level.
Press the key button to cycle the brightness in turn.

● **In Manual mode:**

Press Key Button Sequences	Brightness gear	Recommended indoor working distance
Long press>5s (Power on)	First gear 100%	20M-30M
1st time	Second gear 75%	15M-25M
2nd time	Third gear 50%	10M-20M
3rd time	Fourth gear 25%	1M-10M
4th time	Restore the first gear 100% (cyclically)	20M-30M

*Press the key button to cycle the brightness in turn.

D. Pulse mode(Used with laser detector with a frequency of 10 KHz, and the detector is sold separately)

The Pulse Mode can be activated in Self-leveling mode and Manual mode.

When used in Pulse Mode with a laser detector (laser detector sold separately), the user gets a longer working distance, and the laser beam can be detected in high-brightness environments or when the eye cannot see it.

When the instrument is working, short-press the Key Button <1s , the pulse mode will be activated.

In power on state, and when the laser brightness reaches 75%, 50%, and 25%**(For the method of brightness adjustment, please refer to step D-Power saving mode)**, the pulse mode is activated, which can be used in conjunction with the laser detector. In the state of 100% brightness, the pulse mode is not activated.

*Lock/Unlock Switch at unlocked position .

*Lock/Unlock Switch at locked position .

Lock Switch Position	Press Key Button Sequences	Pulse Mode	Cross-line laser line brightness	Recommended outdoor working distance with laser detector
Unlocked	0(Power on)	OFF	First gear 100%	Pulse Mode OFF
Locked	Long press >5s(Power on)	OFF	First gear 100%	Pulse Mode OFF
Unlocked/ Locked	1st time	ON	Second gear 75%	≤ 100M
Unlocked/ Locked	2nd time	ON	Third gear 50%	≤ 100M
Unlocked/ Locked	3rd time	ON	Fourth gear 25%	≤ 100M
Unlocked/ Locked	4th time	OFF	First gear 100%	Pulse Mode OFF

*Cycle in turn

Note: When used outdoors, the strong ambient light can affect the visible brightness of the laser line. When used outdoors for long distances, pulse mode should be turned on and used in conjunction with the detector.

E: Low-battery alert

When the dry cell voltage is relatively low, the left side indicator light flashes in red , and the crossed laser line flashes continuously as an alarm.The laser line flashes every 3 seconds.

When the dry battery voltage is exhausted, the left side indicator light emits a stable red light source, the crossed laser line

extinguish automatically. At this time the user should replace the battery immediately to continue using the instrument.

F. Precautions

1. When using the instrument, please ensure stable installation, as surrounding vibrations can affect the stability of the instrument.
2. When using brackets and target boards, special attention must be paid to the fact that the adsorbed material must be steel with a certain thickness to ensure normal operation. Thin iron sheet (lead iron sheet), smooth surface, and oil stains can reduce the adsorption force of the magnet.

WARRANTY

We are confident of the quality of our products and offer outstanding guarantee for professional users of the products. This statement is in addition to and in no way prejudices your contractual rights as a professional user or your statutory rights as a private non-professional user. We warrant our laser level(s) against faults in materials and workmanship for one year from date of purchase provided that:

- Proof of purchase is produced.
- Service/repairs have not been attempted by unauthorized persons;
- The product has been subject to fair wear and tear;
- The product has not been misused;

Defective products will be repaired or replaced, free of charge or at our discretion,if sent together with proof of purchase to our authorize distributor(s).

This Warranty does not cover faults caused by accidental damage, unfair wear and tear, and use other than in accordance with the manufacturers' instructions or repair or alteration of this product not authorized by us.

Repair or replacement under this Warranty does not affect the expiry To the extent permitted by law, we shall not be liable under this

Warranty for indirect or consequential loss resulting from faults in this product. This Warranty may not be varied without our authorization. Calibration and care are not covered by warranty.

(The company has the final right to interpret the warranty regulations and related technical issues of this product.)