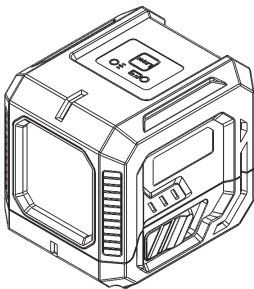




100FT SELF-LEVELING CROSS-LINE LASER LEVEL



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.

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 an 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.
- 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.

FEATURES

- **COMPACT AND HANDY:** Soft-grip, light weight and palm-sized design.
- **THE UNIQUE LARGE WINDOW LASER RADIATION OUTLET DESIGN:** the expansion angle is 140° horizontally and 135° vertically. The vertical radiation exceeds the ceiling, which greatly facilitates ceiling construction.
- **SELF-LEVELING MODE:** Self-leveling up to 4 degree automatically, the instrument self-levels so the user 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 laser cross-line (Optical Alarm).
- **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.

- **PULSE MODE:** Work with laser detector for extending further distance range. (The laser detector is not included in the kit and is sold separately).
- **POWER SAVING MODE:** Laser line brightness adjustable via 4 gears, adapt to the brightness of different working environments and appropriately extend the working time of the instrument.
- **IP 54 PROTECTION:** With a protection level of IP54, the instrument is waterproof, dust-proof, and shockproof.
- **TWO LED INDICATORS DESIGN:**

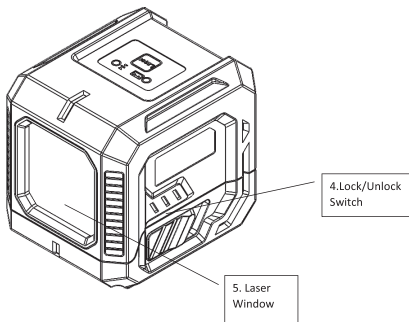
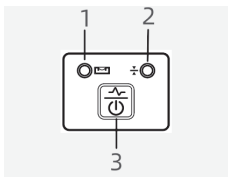
Unblock the Lock/Unlock Switch to turn on the laser level, the self-leveling mode will be activated by default, the left side indicator light  on the operation panel turns on and keeps in green. Under the self-leveling mode, when the tilt angle of the instrument is out of its self-leveling range $4^{\circ} \pm 1^{\circ}$, the indicator light  on the left side of the operation panel emits red light. The left side indicator light  will not turn from red to green until the user places the instrument in a level position. Block the Lock/Unlock Switch, shortly press the key button and the manual mode will be activated by default, the left side indicator light  on the operation panel turns on and emits stable red light.

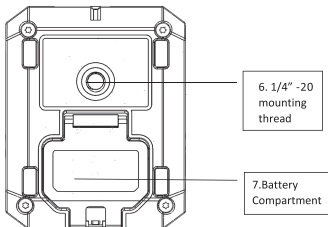
Under the low power state, the left side indicator light  on the operation panel keeps flashing in red (At this time the user should replace the battery).

Under the startup state, long press the key button $>3s$ to enter the pulse mode, the pulse mode will be activated by default. At this time, the right-side indicator light  on the operation panel turns on and keeps in red; Long press the key button $>3s$ again to exit the pulse mode, at this time, the right-side red indicator light  on the operation panel turns off.

PRODUCT OVERVIEW

1. Self-leveling/ Manual/Low battery state indicator light	2. Pulse Mode indicator light
3. Key Button	4. Lock/Unlock Switch
5. Laser Window	6. 1/4"-20 mounting thread
7. Battery Compartment	





SPECIFICATIONS

Laser Wavelength	Green Beam:510-530nm, ≤1mW
Laser Class	Class 2
H/V Accuracy	±3mm/10m
Self-leveling range	4°±1°
Self-leveling time	2S
Leveling	Automatic
Working Range	100ft/30m
Laser radiation angle	Horizontal radiation angle 140° Vertical radiation angle 135°
Power supply	2*1.5V AA Alkaline Batteries
Operating time	Approx. 4-5 hours/first gear Approx. 5-6 hours/second gear Approx. 9-10 hours/third gear Approx. 20 hours/fourth gear

Mount Size	1/4"-20 mounting thread
Operating Temperature Range	-10° C to +50° C
Storage Temperature Range	-25°C to +70°C

OPERATION

Before inserting the two 1.5V AA alkaline batteries correctly, please make sure the Lock/Unlock Switch is at locked position . Please keep the Lock/Unlock Switch at locked position  during moving the instrument or storage it.

When installing the battery, please pay attention to the positive and negative poles of the battery, if the battery is installed backwards, the instrument will not be able to turn on. Close the battery compartment cover after properly placing the battery, and hear a click to indicate that the entire step of battery installation has been completed.

Two methods to turn on the instrument

Methods one: Turn the Lock/Unlock Switch at unlocked position  to turn on the instrument

and then turn the Lock/Unlock Switch at the locked position  to turn off the instrument.

Methods two: Keep the Lock/Unlock Switch at the locked position , short press the key

button  for 1s to turn on the instrument, short press the key button  for 1s at the fifth time to

turn off the instrument.

Self-leveling mode

Turn the Lock/Unlock Switch at unlocked position  , the cross-line laser beams light up,

the self-leveling mode will be activated by default. The left side indicator light  on the

operation panel turns on and emits solid green light. The self-leveling range is $4^{\circ}\pm 1^{\circ}$, if over leveling,

the indicator light  on the left side of the operation panel turns on in red, it also indicates out-of-

level condition with a blinking laser cross-line as an optical signal used as an alarm. The left indicator

light  will not emit solid green light and the crossed laser line will not stop flashing until the user

places the instrument in a level position. In Self-leveling mode, the laser line will flash 1 time per second.

(0.5 seconds on, 0.5 seconds off.)

Note: The shutdown method in self-leveling mode is to turn the Lock/Unlock Switch at the locked

position  to turn off the instrument.

Manual Mode

Keep the Lock/Unlock Switch at the locked position  , shortly press the key button  for

1s, the cross-line laser beams light up to meet the alignment needs from different angles. The left side

indicator light  on the operation panel turns on and keeps in red under the manual mode. At this

point, the laser line is not absolutely horizontal or vertical in the conventional sense.

Note: The shutdown method in manual mode is to shortly press the key button  for the fifth time after

powering on, at this point, the laser line will extinguish and the instrument will be turned off.

Pulse Mode (Used with laser detector, and the detector is sold separately)

The Pulse Mode can be activated in both Self-leveling mode or 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, long-press the Key Button  for >3 seconds, the pulse mode will be activated. The right-side indicator light on operation panel  turns on and keeps in red; Long-press the Key Button  for >3 seconds again to switch off the pulse mode and the right-side indicator light on operation panel  turns off.

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.

Power saving mode

The Power Saving Mode can be activated in both Self-leveling mode or Manual mode.

When the instrument is working, short-press the Key Button  for 1s, the power-saving mode will be activated.

- **In Self-leveling mode**

Turn the Lock/Unlock Switch at unlocked position  to turn on the instrument, the brightness defaults to 100% on the first gear.

Press Key Button Sequences 	Brightness gear	Recommended indoor working distance (Under 100LUX)	Recommended working distance (Under 10000LUX)
1 st time	Second gear 75%	30M	15M-25M
2 nd time	Third gear 50%	30M	10M-20M
3 rd time	Fourth gear 25%	20M	1M-10M
4 th time	Restore the First gear 100% brightness cyclically	30M	20M-30M

Note: Press the key button to cycle the brightness in turn.

- In Manual mode

Keep the Lock/Unlock Switch at the locked position



Press Key Button Sequences 	Brightness gear	Recommended working distance (Under 100LUX)	Recommended working distance (Under 10000LUX)
1 st time	Power on, First gear 100%	30M	20M-30M
2 nd time	Second gear 75%	30M	15M-25M
3 rd time	Third gear 50%	30M	10M-20M
4 th time	Fourth gear 25%	20M	1M-10M
5 th time	Power off	--	--

Note: Shortly press the Key Button  for the sixth time, the instrument will be turned on again, and the order of decreasing brightness will be cycled sequentially.

Low-battery alert

When the dry cell voltage is relatively low, the left side indicator light  emits red light as an alarm.

When the dry battery voltage is exhausted, the left side indicator light  emits a steady red light, the crossed laser line extinguishes automatically, and the instrument will automatically

shut down. At this time the user should replace the battery immediately to continue using the instrument.

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 three years 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 authorized 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 the 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.