



HOW TO OPERATE THE UNIT

RIGHT SIDE: Pendulum Lock

The 3D Cross Line Laser is a precision instrument and should be treated with care.

When not in use, the pendulum should always be in the Lock/OFF position (**figure 1**),

To lock the pendulum allows the Cross Line Laser to better withstand vibration and trauma incurred during transportation or if the unit is dropped.



Figure 1

LEFT SIDE-Automatic Leveling

When the pendulum is unlocked/OFF (**figure 2**), the pendulum is free to automatically level, In order for the Cross Line Laser to automatically level, the base of the unit needs to be within 5° of level.



Figure 2

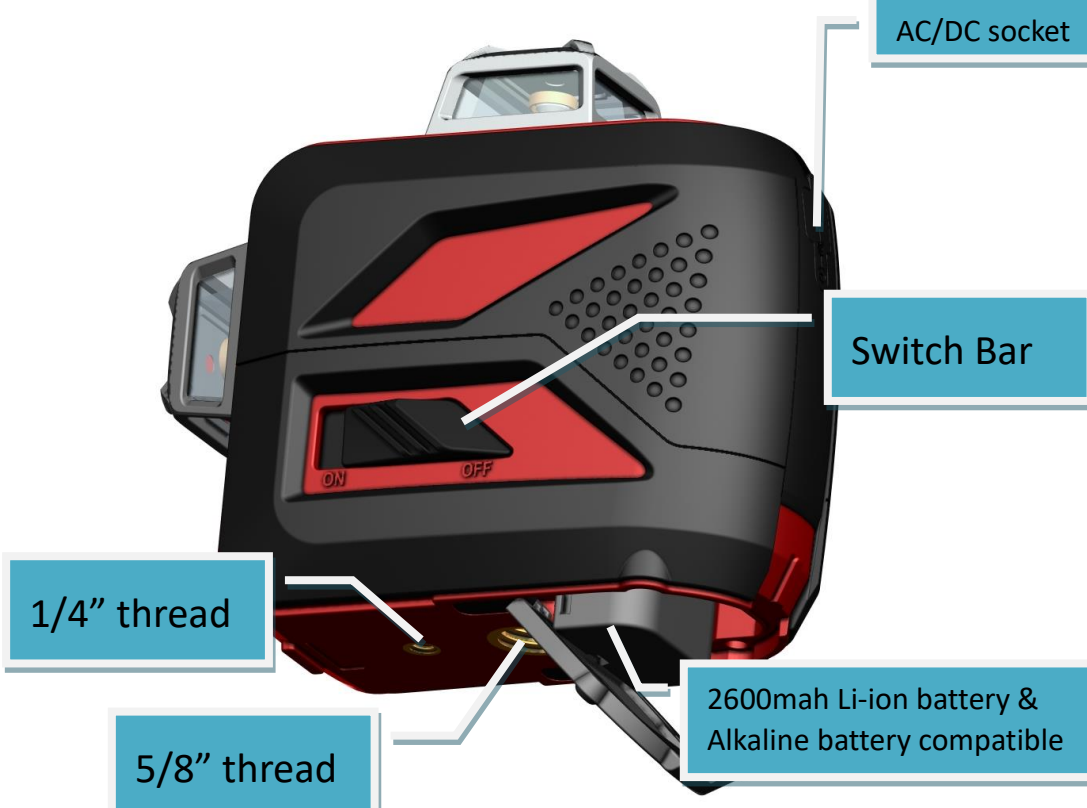
Keypad Area

H

V2

V1





AC/DC socket

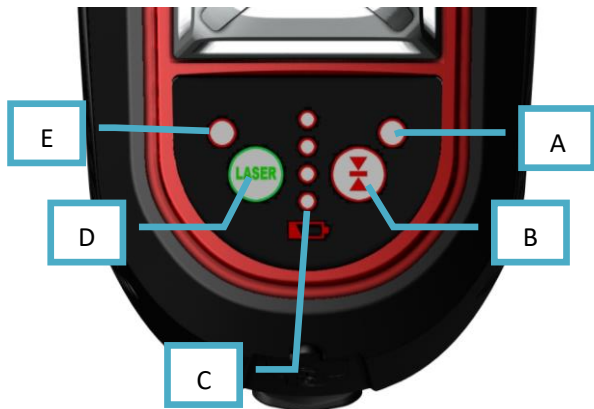
Switch Bar

1/4" thread

5/8" thread

2600mah Li-ion battery &
Alkaline battery compatible

Keypad:



A. Pulse indicator

B. Pulse button

When pulse is on, this indicator A will turn to red, at this moment laser line can be picked up by laser receiver. Press this key B again to turn off the pulse function and the light will be off.

C. Power indicators

The indicators can display four levels of power:

100%(4 LED on)-75%(3 LED on)-50%(2 LED on)-25%(1 LED on).

When there has only 1 LED on/25%, laser need to be charged.

Laser will be off when there has no LED on.

D. Line Selection

-Line Selection: By pressing Line Selection Button at the keypad panel can make a various change/collocation of laser lines. The sequence of it is as below:

Laser will be switched on with H laser.

Press Line Selection Button for one time, Both H & V1 laser will be on.

Press Line Selection Button for two times, All the three laser lines including H, V1

& V2 will be on simultaneously

Press Line Selection Button for three times, it will turn back to first sequence of the laser/H lights on.

E. Lock mode indicator:

When the laser is in the mode of Pendulum Lock (switch bar at right side).

By pressing/holding line selection button (D) for 3 seconds to activate Lock Emitting mode. At this model, lock indicator indicator (E) will be on, to indicate user the laser is in lock mode and out of accuracy.

AC/DC Socket:

Laser can be powered from main power directly when there has no battery inside the laser or lithium-ion battery goes flat, by using the authenticated power adaptor which is come with the kit, to provide continuous electricity to laser.

Ps: When connecting power adaptor with AC/DC socket, power from lithium-ion battery will be cut off automatically.

In the meanwhile the power adaptor can charge the Li-ion battery during the time it drive the laser.

When the laser is off and connects with power adaptor, it can charge the li-ion directly.

Diameter of AC/DC socket pin: 2.5mm.

Power adaptor & battery system:

Lithium battery can be charged when laser is off. By simply keep the battery into the battery compartment and has laser connects with power adaptor. Power adaptor will charge the laser automatically. During the charge, the power indicators(C) will be on to indicate how many power has been charged.

When there has no li-ion battery inside the laser, by connecting the laser with power adaptor, it can provide continuous electricity to laser.

Alkaline battery pack is also compatible with this new battery system.

By simply replacing the li-ion battery by battery pack comes with 4 x alkaline batteries. It can provide a continuous working to laser as well.

Output Voltage:12V.

Input current: 2A.

Time to full charge the battery:3-4hours.

Protective voltage:8.4V

Battery capacity: 2600mAh.

Benefit Feature:

Lock & Emitting:

When our 3D laser is in the mode of Pendulum Lock (switch bar at right side).

By pressing/holding line selection button (D) for 3 seconds to activate Lock Emitting mode. At this model, lock indicator (E) will be on.

Line will come out from laser but be aware at this mode the laser itself is out of accuracy as the pendulum is locked.

Laser at this moment can be used for some "special" applications such as stairs alignment since the pendulum is locking.

Line alarm when at Lock Emitting mode:

Laser line will flash for every 5 seconds to notice user that the laser is out of accuracy.

Alarm Functions

Out Level Alarm:

When the pendulum is unlocked and the Cross Line Laser is within 3° of level, the unit will be in automatic leveling range, in this situation no LED light will be on. When the base of the unit locates outside the 3° leveling range the laser beam will flash meanwhile an audibly warning will be sent out from Cross Line Laser.

Specification:

Accuracy	$\pm 3\text{mm}/10\text{m}$
Leveling Range	$\pm 4^\circ$
Working Range/With Detector	15m(Indoor) and 60m c/w detector
Tripod Thread	1/4" & 5/8"
Laser Type	Red:635nm Green:515nm
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Dimension	150 x 87 x 128/mm3
Continuous Working Time	$\geq 8\text{hour}$ (All Green diodes on) > 15hour(All Red Diode on)
Power system	Li-ion battery 2600mah, 7.4V & 4 x Alkaline battery pack & Power adaptor
Net Weight	0.8kg

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.