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Nivel System CL1D

Laser Crossliner

HOW TO OPERATE THE UNIT

RIGHT SIDE: Pendulum Lock

This Cross Line Laser is a precision instrument and should be treated with care.

When not in use, the pendulum should always be in the 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.

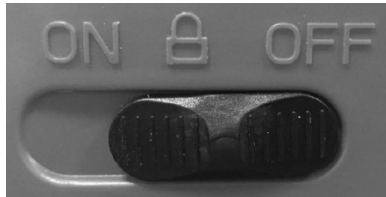


Figure 1

MIDDLE SIDE-Locked Line Angle

In the locked line angle position (**figure 2**), the pendulum is in the locked position and will not automatically level. When in the locked line position, both two laser lines will be on and flash slowly. The Red Lock LED will be on as well.

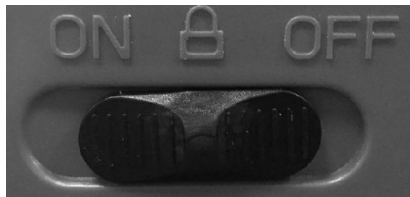


Figure 2

LEFT SIDE-Automatic Leveling

When the pendulum is unlocked (**figure 3**), 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 3.5° of level.



Figure 3

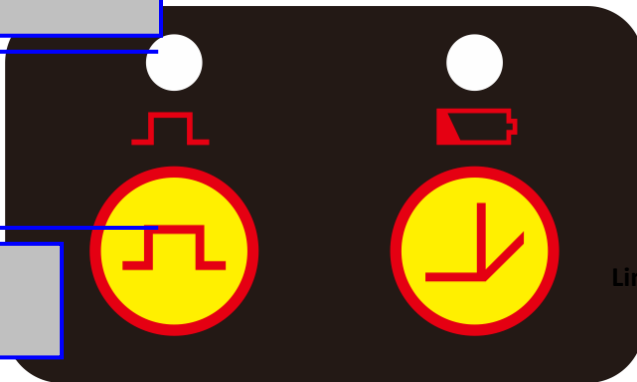
Control Panel:

Low Power
Indicator

Pulse Indicator

Pulse Mode
(with detector)

Line Selection



Utilities of Panel

-Pulse Mode: It can make the laser diode with PULSE(The pulse indicator will be on). The laser line is able to be picked up by detector after this function is activated.

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

After switch on the laser, the H laser will be on.

Press Line Selection for one time, H line off, V line will on.

Press Line Selection for two times, Both H & V lines will be on simultaneously

Press Line Selection for three times, it will turn to the situation when the laser is switched on. (H line emits)

For graphic illustration please refer to **figure 4**.

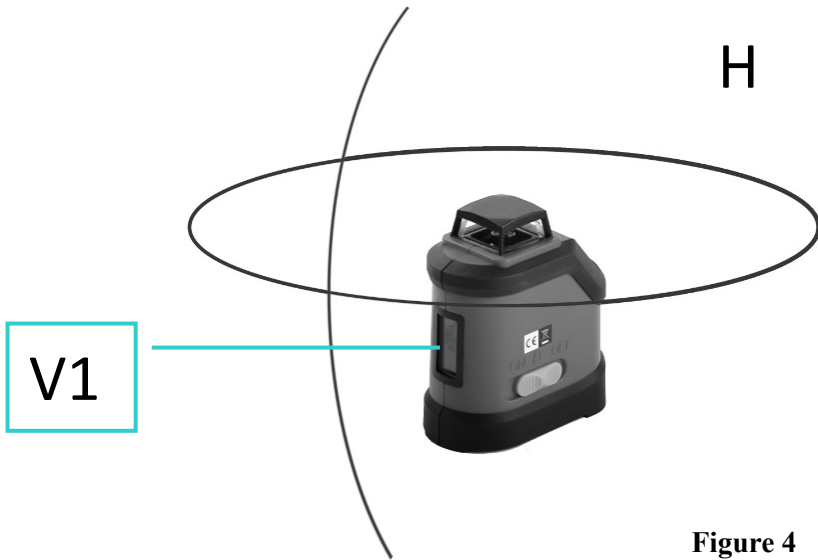


Figure 4

Alarm Functions

Out Level Alarm:

When the pendulum is unlocked and the Cross Line Laser is within 3.5° 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 3.5° leveling range the laser beam will flash meanwhile an audibly warning will be sent out from Cross Line Laser.

Low Battery Alarm:

The Green battery LED will be on and keep flashing slowly when the working voltage is $<3V$. At this situation the batteries are required to be replaced.

What is included with your Red Beam Palm Laser

1. Instrument CL1D
2. Laser sensor (with bracket)
3. Laser target
4. Rotatable base
5. Alkaline batteries
6. Plastic case
7. Manual



Specification:

Accuracy	$\pm 1\text{mm}/5\text{m}$
Leveling Range	$\pm 3.5^\circ$
Working Range/With Detector	15m/60m with detector
Tripod Thread	1/4"
Laser Type	635 nm, laser class II
Beam display / planes	horizontal (360°), vertical (90°)
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Dimension	110x60x121 mm
Protection Class Spray Water/Dust	IP44
Net Weight	0.8kg