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SELF-LEVELING ROTARY LASER

We continue to be committed to provide you tools with competitive price.
"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and doses not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	Warning-To reduce the risk of injury, user must read instructions manual carefully.
	Warning- Be sure to wear eye protectors when using this product.
	This symbol, placed before a safety comment, indicates a kind of precaution, warning, or danger. Ignoring this warning may lead to an accident. To reduce the risk of injury, fire, or electrocution, please always follow the recommendation shown below.
	**FCC statement:** 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.

CAUTION:

1、While the product operates, be careful not to expose your eyes to the emitting laser beam (red light source). Exposure to a laser beam for an extended time may be hazardous to your eyes.

2、Glasses may be supplied in some of the laser tool kits. These are NOT certified safety glasses. These glasses are ONLY used to enhance the beam's visibility in brighter environments or at greater distances from laser sources.

WARNING:

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

2、The following label/print samples are placed on the product to inform of the laser class for your convenience and safety.

• Do not stare directly into the beam, 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.

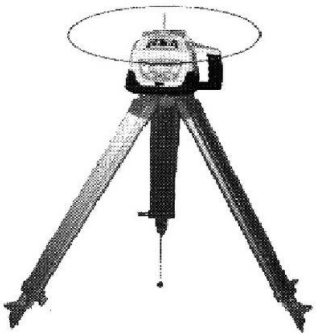
• Do not operate the laser around children or allow children to operate the laser. Serious eye injury may result.

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.

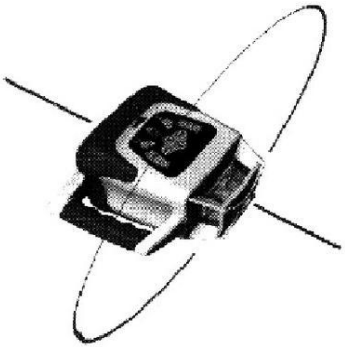
1. Functions

This instrument is equipped with a semiconductor diode with a wavelength of 532nm, and the laser beam has supreme visibility. And the laser module of the tool will rotate freely to form a laser-scanning surface. Emitting direction of the rotary laser beam is illustrated as follows:

Upright-setting



Horizontal-setting

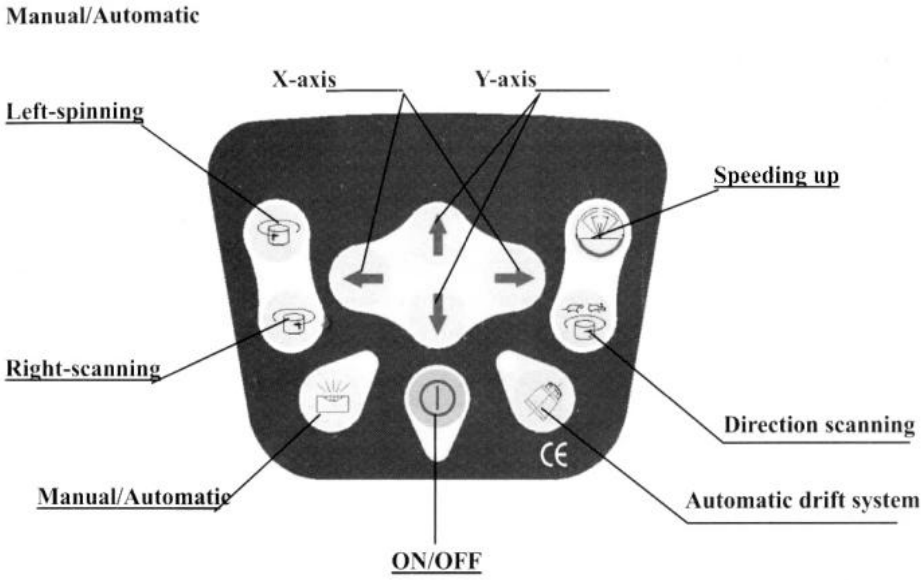


When the instrument is set upright, it will emit laser-beam to form a horizontal scanning surface and a plumb line automatically.When set horizontally, it will form a plumbscanning surface and a verticalline。

2.Introductions

2.1 Main body

2.2 Panel



2.3 Utilities of Panel

(1)ON/OFF: Controlling the state of power.

(2) Power indicator: When it lights, the instrument is starting up.Otherwise it is closing down.

(3)Mode indicator: When it lights, the instrument is leveling manually. When it winks, it stays in alarm.(The slope of the instrument is out of range).

(4)Key of Automatic drift system model:Warns the user for a misaligned device

(5)Light of Automatic drift system model: When thelight is twinkling slowly, it is in Automatic Drift System model.When the light is twinkling quickly, the laserlevel will not level when it is shaked.

(6)Speeding-up:Circling knob.Speed of scanning includes 5-knots:0-60-120-300-6000 r.p.m

(7)Directional scanning:Circling knob.Angle of scanning includes 5levels:0-10°-45°-90 -180°

(8)Manual/Automatic: Controlling the mode of leveling.

(9)Left-spinning:Making the laser module step-move counter-clockwise,when the lasermodule is power off oritis scanning directionally

(10) Right-spinning: Making the laser module step-move clockwise, when the laser module is power off or it is scanning directionally.

(11)X-axis:Adjusting the slope of X-axis, when the instrument stays in manual mode.

(12)Y-axis:Adjusting the slope of Y-axis, when the instrument stays in manual mode.

3. Directions

3.1 Battery Installation

4×C size Ni-MH Rechargeable batteries can be used in instrument.

(1) Take down the cover of battery case at the bottom of the instrument.

(2) Put the batteries into the case according to the right electrode.

(3) Lay the cover on the box, and then tighten all the screws.

3.2 Instrument Placement

3.2.1 Horizontalscanning

Lay the instrument on the tripod or stable flat surface, or even hang it on the wall.Set upright the instrument, and keep the slope of instrument within the range from -5°to +5°

3.2.2 Vertical Scanning

Lay the instrument on the flat surface, and keep the slope of instrument within the range from -5°to +5°

3.3 Operations

3.3.1 Power

· Press the Key ON/OFF to bring automatic leveling into function when the power indicator lights.

· When Power indicator lights, it shows the voltage of the batteries is insufficient. Then the rechargeable batteries need to be charged.

· Press the Key ON/OFF again to close down the instrument when power indicator goes out.

3.3.2 Leveling

· Press the Key ON/OFF to bring automatic leveling into function when the laser beam begins to wink. After automatic leveling, the laser module will rotate right at the speed of 600r.p.m.

If the instrument is placed improperly, or the slope of instrument exceedsthe range from -5°to +5°,when mode indicator and the laser beam will wink at the same time. Then place the instrument properly.

Notice:The instrument will close down automatically after five minutes alarm.

3.3.3 Spinning

(1) Continuous Spinning

Press the Key. Speeding-up to control the spinning speed of the laser module. If press the key repeatedly, the spinning speed of the laser module will continuously change as follows:0-60-120-300-600-0 r.p.m.

(2) Stepping Spinning

Locate the Key Speeding-up at O r.p.m, the laser module will stop spinning. And press the Key Right-spinning, the laser module will step-move clockwise. Then if press the Key Left-spinning, the laser module will step-move counter-clockwise.

3.3.4 Directional Scanning

(1) Press the Key Directional scanning; the laser module will scandirectionally. If press the key repeatedly, the angle of scanning of laser module will continuously change as follows: 0°

-10°-45°-90°-180°-0°

(2) Press the Key Left-spinning or the Key Right-spinning to change the direction of scanning.

3.3.5 Slope Adjustment

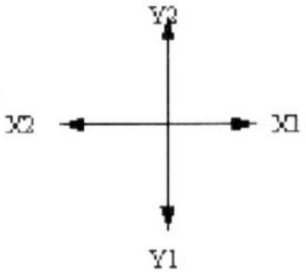
·When the instrument is set upright to do horizontal scanning, the slope of

X-axisand Y-axis can be adjusted.

· Press the Key Manual/Automatic when mode indicator lights, the instrument enters the mode of manual leveling.

(1)Slope of X-axis

a.Aim the X1-beam to the direction of the slope required to adjust,as depicted below:



b.Press the Key←or →to move the laser beam up or down.

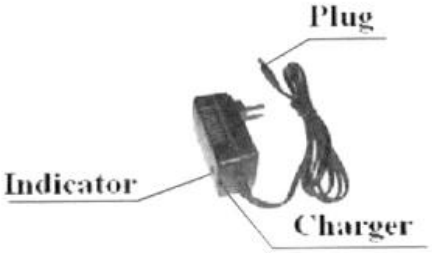
(2) Slope of Y-axis

a.Aim the Y1-beam to the direction of the slope required to adjust.

b.Press the Key ↑ or ↓ to move the laser beam up or down.

Notices:Press the Key Manual/Automatic again when mode indicator goes out, the instrument will enter mode of automatic leveling.

4.Power



When the voltage indicator lights, the batteries needs to be charged immediately.

Connecting the charger with AC, insert the plug of charger into the plughole at the bottom of the instrument(As depicted above).

If the indicator of charger lights, it shows the batteries are being charged.

If the indicator light of the charger winks, it shows the course of recharging has ended.

Notices:

(1) Using the standard rechargeable batteries of the instrument, recharging will be finished within 7 hours,

(2) Power required for the charger: Frequency:50-60HZ; Voltage:85-265V.

(3) Charging and using of the instrument can progress simultaneously.

(4) If keeping the instrument in storage (or Leaving the instrument unused for a long time),the batteries (dry battery or rechargeable battery) need to be taken out.

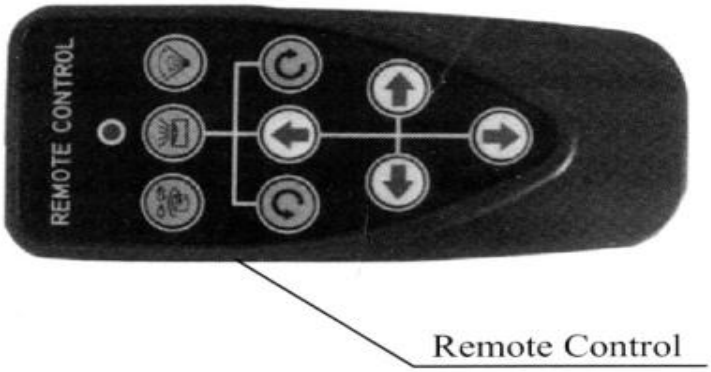
(5) Brand-new rechargeable batteries or long-time unused rechargeable batteries must be recharged and discharged three times to attain the required capacity.

5. Remote

The remote of the instrument adopts the infrared technique.

Aim the aperture of infrared ray to the instrument (as depicted below) to bring remote controlling into function (Available distance:indoor: 30M;outdoor:20M). The telecontrolling

panel includes 9 keys; the indicator on the device will wink to show the operating signal has been sent out once pressing any key.



Functions fulfilled by the remote as follows:

(1) Spinning: Operating method referring to 3.3.3

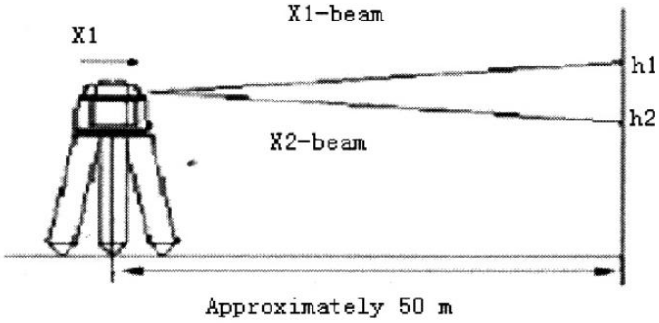
(2) Directional scanning:Operating method referring to 3.3.4

(3)Slope adjustment: Operating method referring to 3.3.5

6. Accuracey Checking

6.1 Horizontal-surface Checking

(1) Place the instrument at the point of 50m in front of wall(or set a scaleplate at the point of 50m away from the instrument), and then adjust the level of the base approximately to aim the X1 to the wall (or scaleplate), as depicted below:



(2) After switching on the power, use the laser detector measuring the h^1 of X1-beam on the wall or scaleplate.

(3) Loose the screw of the tripod ,and then turn around the instrument 180°to

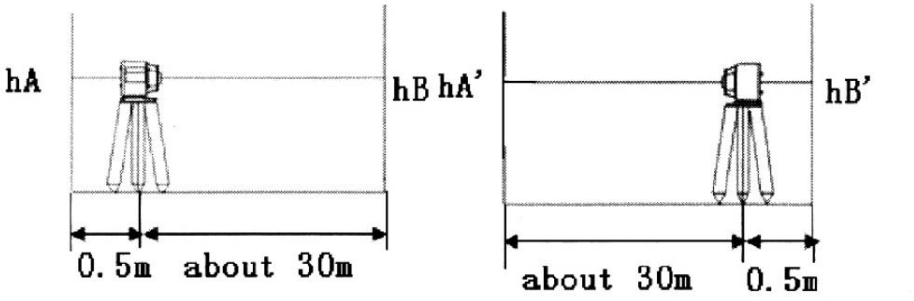
measure the h2 of X2 -beam on the wall or scale- plate.

D-value between h1 and h2 ought to be less than 10mm.

(4) Check the Y-beam in the same way.

6.2 Horizontal-line Checking

(1) Place the instrument between two walls with a distance of 30m (or two scale plates with a distance of 30m).



(2) Place the instrument according to horizontal setting and then adjust the instrument.

(3)Switch on the power, and then measure the middle point of the laser beam on the wall(or scaleplate):hA,hB and hA′,hB

(4) △1=hA-hA′, △2=hB-hB'

D-value between △1 and △2 ought to be less than 6mm.

7. Specifications

Leveling Accuracy	Horizontal:±20” Vertical:±20”
Leveling Range	±5°
Measuring Range	Diameter:500m (Using the laser detector)
Spinning Speed	0、60、120、300、600 r.p.m

Directional-Scanning Angle	0°、10°、45°、90°、180°
Slope-adjusting Range	±5°(Bi-directional)
Light Source	Laser Diode, wavelength:635nm (520nm)
Down Point Diode	Accuracy:±1mm/1.5m
Remote controlling Distance	Approximately 20m
Working Temperature	10℃--45℃(14°F--113”F)
Hours in Continuous Use	Approximately 20 hours
Water-proof	IP 66

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