PEN LASER METER



Safety Regulations

Before using this product, please carefully read and understand all the terms and operational guidelines in this manual. Hazardous laser radiation damage, electric shock or personal injury may occur if operations are not implemented under those safety regulations in this operation manual.

Do not change the performance of the laser in any way, otherwise it may cause dangers due to laser exposure. Activate the laser only when you use the instrument. Don't stare at the laser directly. Please keep your instrument safe from use of any unauthorized persons.

- Do not shoot at others with the laser intentionally or in dark.
- Do not shoot the laser beam onto objects with high-reflective surface.
- Do not place the laser meter in reach of the child.

Do not repair the equipment without authorization. If the equipment is damaged, please contact your local dealer.

Electromagnetic radiation may interfere other instruments or devices (such as medical instruments like pacemakers or hearing aid .)

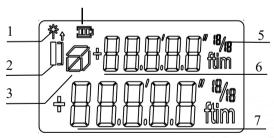
- Do not use the instrument near gas stations and other inflammable and explosive places.
 - Do not use the instrument near medical equipment.
 - Do not use this instrument on the plane.

A Please follow your local laws to dispose the obsolete instrument.

Picture A



Picture B 4



Congratulations on your purchase of BBDORLY3030 distance meter.





The safety regulations and instructions along with the user manual should be read carefully before initial operation.

Overview

Keyboard

See Picture A:

- 1 ON / Single measure / Continuous measure
- 2 Function key--Area / Volume measure/ Pythagorean measure
- 3 Clear / OFF

Display

See Picture B

- 1 Laser ON
- 2 Reference (front/rear)
- 3Area/Volume/ Pythagorean
- 4 Battery display

- 5 Units with exponents (2/3)
- 6 Auxiliary Display
- 7 Main display

Start Up

Inserting / Replacing Batteries

Remove the battery cover, insert the battery correctly. Close the battery compartment. Replace the battery when this symbol constantly blinks in the display.

- · Only use alkaline batteries.
- · Batteries should be removed in case of danger of corrosion, if the device will not be used for a long time.

Operation

measure.

Switching on/off

Press Device and laser are switched on to wait to

Holding down this key for 2 seconds to switch the device off, the device also switches off automatically after 3 minutes of

inactivity i.e. no key is pressed within that interval.

Clear-Key

Cancel the last action. Within a function (area, volume, etc.) single measurement can be deleted step by step and re-measured.

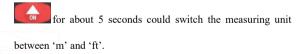
Reference Setting

Default reference setting is the rear of the device.

Press this key to change the reference. The reference returns automatically to the default setting (rear reference) after power off.

Measuring Unit Setting

When the laser distance meter is off, holding this key



Measuring

Single Measurement



Press this key to activate the laser. Press again to implement the distance measurement.

Continuous Measurement



Press the key briefly to activate the laser, press and

hold key for about 2 seconds to start continuous measuring. Press again shortly: continuous measurement is stopped.

During continuous measuring, the latest measured value is displayed on the main display area, auxiliary display area shows the minimum and maximum measured value.

Function

Area

FUNC Press this key once. This symbol 🖝 is displayed.

Press key to take the first line measurement.

Press again and take the second line measurement.

The result is displayed in the main display area.

Volume

Press this key once, This symbol is displayed. Press this key to take the three lines measurement and then the volume value will be displayed in the main display area and the third line measured value is displayed in the auxiliary area.

Pythagorean calculation

Pythagorean measurement is used in the condition that the objective needing to be measured is covered or has no effective reflecting surface and can't be measured directly. The accurate measured result can be got only when the laser beam and

measured goal are at the right angle.

Press this key briefly, this symbol is displayed in the screen. According to the on-screen prompts, press to take right angle edge - right angle, or bevel edge - right angle edge operation then the instrument will automatically realize Pythagorean operation, the result is displayed in the main display area.

- When measuring in Pythagorean measurement mode, right-angle edge length must be less than the length of the hypotenuse, otherwise the equipment will report mention information.
- Under the Pythagorean measurement mode, make sure to start the measurement from the same starting point. In hypotenuse right angle edge model, it is also necessary to ensure that right-angle side is perpendicular to the measured surface.

Appendix

Display Notices

In the course of using the instruments, information as below may be displayed on the screen:

InFo	Cause	Correction		
204	Data overflow	Repeat steps		
205	measurement range transfinite	Use the meter in distance allowed		
252	Temperature too high	Let device cool down		
253	Temperature too low	Warm device up		
255	Received signal too weak	Measure target point with stronger reflectance		
256	Received signal too strong	Measure target point with weaker reflectance		
206	Pythagorean measurement Violation	Re-measure and ensure the hypotenuse is greater than right angle edge		
258	Initialization error	reboot		
Error	Cause	Correction		
8	Hardware error	If the signal still appears after repeatedly switching on/off the equipment, please contact your dealer.		
2	Hardware error			

Technical Specifications

Range (for extended Distances, use a target Plate)	0.05 m to 30 m		
Measuring accuracy	typically: ± 3mm *		
Minimum unit displayed	1 mm		
Laser class	II		
Laser type	635 nm, < 1 mW		
Automatic power off	180s		
Display illumination	√		
Continuous measurement	\checkmark		
Battery (AAA 2 × 1.5V)	up to 5000 measurements		
Dimensions and weight	110×38×23 mm, 100g		
Temperature range:			
Storage:	-25°C to +70 °C		
Operation:	-10 °C to +50 °C		

In unfavorable conditions, such as intensive sunshine, very weakly reflecting target surface or large temperature fluctuations, measuring accuracy may deteriorate.

Maintenance

Do not immerse the instrument into water. You can use wet soft cloth to wipe the surface, but do not use corrosive lotion. Clean optical components like cleaning Eyeglasses and camera lenses (The laser emission window and receiving lens).

Warranty

Warranty Regulations

- The company offers two-year warranty since the purchase date of the instrument.
- 2. The following conditions are beyond the warranty lists:
- * Instrument of which the instrument number is deleted or modified.
- * Instrument which is repaired without authorization.
- * Instrument with man-made damage or fault caused by improper storage.
- **3**. Warranty card with date of purchase, model, instrument number must be provided when warranty.

Warranty Card

Instrument Model	
Serial Number	
Date of sales	
Sale company	
Sale Address	

Packing list

NO.	Name	quantity	unit	Remarks
1	Main body	1	рс	
2	AAA battery	2	pcs	
3	User manual	1	рс	

Certificate

Name: Hand-Held Laser Distance Meter

Model: BBDORLY3030

Testing:



