

RF0350

Laser Distance Meter

Instruction Manual



**Perfect
Prime**

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1. Overview

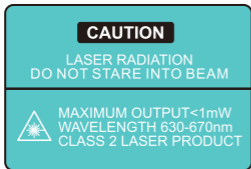
Thank you for choosing our products! Please carefully read this product Quick Start to ensure the safe and most efficient use of this product.

Designed by globally recognized team, this laser distance meter is compact and handy. The innovative design with clip accessory enables user to bring the meter anytime as well as it also protect the batteries broken out when drop on the ground in operation.

Distance measurement, Area/Volume and Pythagorean calculation are provided to fulfill most of measurement conditions.



2. Warning

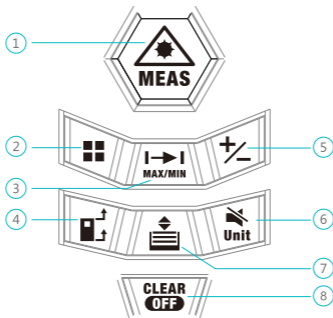


Laser Class 2 products;

Do not look directly into the beam with optical aids or direct it towards other people unnecessarily.



3. Button Function



① ON / Measure button

② Area / Volume/Pythagorean button

③ Continuous measurement button

④ Measuring reference button

⑤ Add(+)/Subtract(-) button

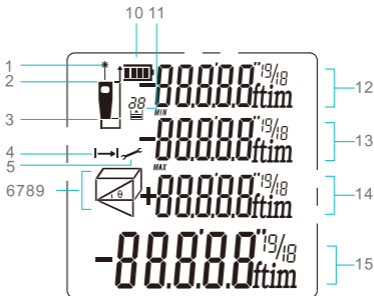
⑥ Unit/Beep button

⑦ Historical memory button

⑧ OFF/Return/Clear button



4. LCD Display



1 Laser on

2 Reference point (front)

3 Reference point (rear)

4 Distance / Continuous measurement

5 Setting

6,7,8,9 Measuring mode indication

10 Battery status

11 Historical memory

12 Value 1

13 Value 2 / Min value

14 Value 3 / Max value

15 Summary line / latest value /
Calculation result




5. Initial Operating and Setting

5.1. Power On/Off

Power on/off (manually)


Long press  to switch on the device.

Long press  to switch off the device.


Power off (automatically)

The instrument switches off automatically after three minutes of inactivity.

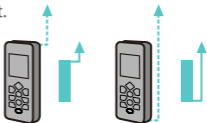
5.2. Return/Clear

When measuring, press  to undo the last action or clear measured value.

5.3. Adjusting Measuring Reference

Press  to switch reference point between the front and the rear of the instrument.

There is a beep warning tone when reference point is changed.







5. Initial Operating and Setting

The default reference setting is from the rear of the instrument. The reference point will be set to default every time when it's powered off, i.e. the measuring reference point is from the rear of the instrument every time when it's powered on.

5.4. Unit Change

Press  to change distance unit between m, ft, in and ft+in.

5.5. Beep On/Off


Long Press  to switch on/off the beep.




6. Distance Measurement

6.1. Single Distance Measurement

Press  to activate the laser.

Press  again to trigger the distance measurement. The measured value is displayed immediately.

6.2. Continuous Measurement (Min/Max)

Press  key to activate continuous measurement. The maximum and minimum distances measured are shown in the display. The last measured value is displayed in the summary line.

This function will be stopped automatically after 5 minutes of inactivity.



User can press  or  to stop the function.





7. Functions

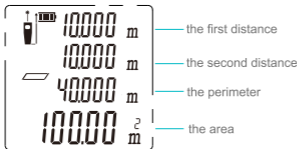
7.1. Area Measurement

Press  once, the symbol  appears in function field of display.

Press  to take the first distance measurement (e.g. Length).

Press  again to take the second distance measurement (e.g. width).

The results of length, width, perimeter and area are displayed in the screen.



7.2. Volume Measurement

Press  twice, the symbol  appears in the function field on the display.

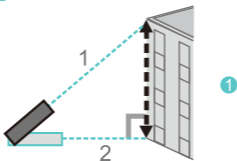
Press  to take the first distance measurement (e.g. Length).

Next get the width, then height, the result of length, width, height and volume is displayed orderly.




7. Functions

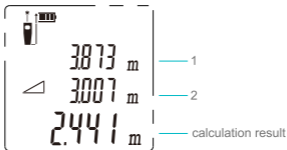
7.3. Pythagorean Method-Two Points



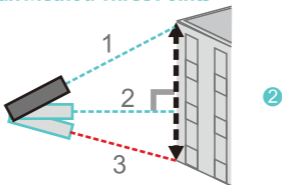
Refer to figure 1. Press  times to activate.

the function, the symbol  appears in the function field on the display.

Take measurement with the 2 points shown on below figure in numeric sequence, the height of the object will be calculated automatically and displayed on screen.



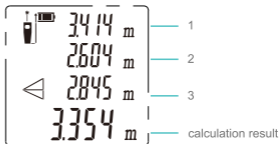
7.4. Pythagorean Method-Three Points



Refer to figure 2. Press 4 times to activate the function, the symbol appears in the function field on the display.

Take measurement with the 3 points shown on below figure in numeric sequence, the height is calculated and displayed on the summary line.


Press to delete any measured length and then press to re-measure.








7. Functions

7.5. Addition/Subtraction


Addition: shod press 

Subtraction: long press 

Take a measurement, then press  addition/subtraction symbol will appear on display, then press  button to take the second measurement, the second value will be automatically added to/subtracted from the first one.

Note: This process can be repeated as required

7.6. Historical Memory

Press  to view historical memory, the last 20 measured value will be displayed in reversed order.

Press  to quit historical value viewing.



8. Trouble Shooting

All errors or failures will be shown as codes. The following table explains the meaning of codes and solutions.

Code	Cause	Corrective Measure
204	Calculation error	Refer to user manual, repeat the procedures.
208	Excessive current	Please contact your distributor
220	Battery low	Replace new batteries.
252	Temperature too high	Let device cool down to operating temperature at 0°C-40°C.
253	Temperature too low	Warm up the device to operating temperature.
255	Received signal too weak or measurement time too long	Use target plate or change a good reflective surface.
256	Received signal too strong	Target too reflective, use target plate or do not aim at strong light objective.
261	Outside of the range of measurement	Select the measurement distance within the range of measurement.
500	Hardware error	Switch on/off the device several times. If the symbol still appears, please contact your dealer for assistance.



9. Specification

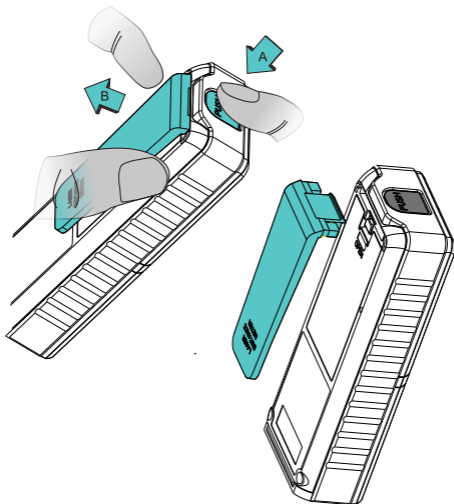
Specification	RF03	Specification	RF03
The maximum measuring range ¹	0.2~120m	4-line display with backlight	√
Measuring accuracy ²	± 2 mm	Single distance measurement	√
Measuring units	m / in / ft / ft+in	Historical memory	20 sets
Laser class	Class 2	Button	Soft rubber buttons
Laser type	630-670nm, < 1mW	Operating temperature	0°C~40°C
Area ,Volume Measurement	√	Storage temperature	-10°C~60°C
Indirect Pythagorean theorem	√	Battery life	5,000 measurement times
Addition and subtraction	√	Battery type	AAA 2 x 1.5V
Continuous measurement	√	Auto laser off	30 seconds
Min. / max. value	√	Auto instrument off	180 seconds
Beep	√	Dimensions (mm)	120*48*27
		Weight (g)	120

1. The maximum measuring range is determined by the version of laser distance meter. Exact measuring range is shown on the gift box. During daylight or if the target has poor reflection properties, please use target plate.
2. Infavorable conditions (good target surface properties, room temperature), the device can reach up to rated measuring range. In unfavorable conditions, such as intense sunshine, poorly reflecting target surface (black surface) or high temperature variations, the deviation over 10m of distance may increase .



10. Clip Assembly Drawing

hold down A and simultaneously pull out B



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