

Instructions

MS5

<<< Thank you for choosing our product.
Please read completely through this manual
before use. >>>

The laser used in this product should not be used to irradiate the eyes. The power of the laser is within the safety guidelines, but long-term exposure may cause potential harm. The total continuous power of the laser is less than 1.0 mW.

Disassembly, significant physical damage and prolonged water immersion could lead to inaccurate measurements. The instrument should be tested regularly, especially after improper usage or before important measurements. The optical lens should be maintained dry and clear. The lens may be wiped with a microfiber cloth.



This is a Class 2 laser product in accordance with IEC60825-1:2007.




Key functions



● Single Measure

Press  to turn on, and press  again to measure the distance. The result will be displayed on the screen immediately.

● Continuous Measure


Press  to enter the Continuous Measure mode. Screen row 9 (next page) displays the min value, and row 10 displays max value. The current value is displayed on row 12.

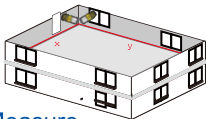
Note: Continuous mode will end after 5 Minutes or when ON button is pressed.

● Area Measure


Single Press  to enter the Area Measure mode. The laser will be automatically activated.


Measure the length and width according to prompts on the screen display. The area result will be displayed on the screen after both dimensions are measured.

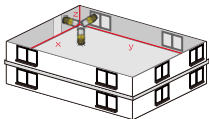
Press  to change the units.




● Volume Measure

Press  twice to enter the Volume Measure mode. The laser will be automatically activated. Measure the length, width and height according to screen display prompts. The result will be displayed on the screen after all dimensions are measured.

Press  to change the unit.



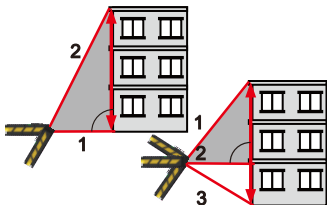
● Indirect Measure

Press  to enter the Indirect Measurement mode. Height can be indirectly calculated according to the Pythagorean Theorem ($a^2+b^2=c^2$). The laser will be activated when it enters the Indirect Measurement mode.

Measure the slope distance and horizontal length according to the screen display, and then the system will calculate the height.

The second example shows how to measure the height if you are not located at ground level.

Note: To maximize accuracy, tripods are recommended during this type of measurement.



● Add/Subtract Measure Value

It is very simple to add (or subtract) new measurements to your existing results.

After a distance is measured,

press **+** or **-** to save the data

(temporarily). Line up your next

measurement and press **ON** to obtain the distance. The final total of measured values will be displayed in the main line, and previously measured values can also be displayed.

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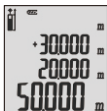
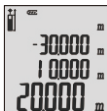
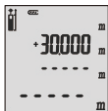
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+/-Measure

●Memory Function


The Memory Function holds your past 20 measurements.

Press  to review.


Press  and  to scroll up and down.

●Enhanced Mode

In poor conditions, such as bright sunlight, the reflected light of the object will be very weak.


Press and Hold the SAVE BUTTON  to enter Enhanced Laser Emission mode. This mode can be used to assist with accurate measurements. (There is no need to use this feature under normal measurement environments.)

●Change Measure Unit

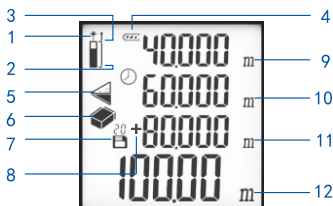
Press  to change the measurement display units. The sequence of displayed units will be: m, in, ft, ft+in. For area measurements, the sequence of displayed units will be: m², ft². For volume measurements, the sequence of displayed units will be: m³, ft³.

● Measuring Reference

By default, measurements will include the length of the meter as shown by screen

indicator 2 (back edge). Press  to toggle measurement between the front edge and back edge of the meter.

Introduction of screen



- 1. Laser meter representation
- 2. Measuring reference (back edge) – Will include length of meter
- 3. Measuring reference (front edge) – Does not include length of meter
- 4. Battery
- 5. Indirect measure



Single Use Pythagoras



Double Use Pythagoras

- 6. Area / Volume
- 7. Review



Area

- 8. Timer



Volume

- 9. Min

- 10. Max

- 11/12. Main line that indicates the final measured value and results.

Technical Parameters

Measuring range	0.05-40/60/80/100m
Accuracy	$\pm 1.5\text{mm}$ ($\pm 1/16$ inch)
Measure unit	M / in / ft
Laser class	Class II
Laser type	620nm-690nm, <1MW
Single measure	✓
Continuous measure	✓
Area/Volume measure	✓
Indirect Pythagoras measure	✓
Buzzer	✓
Review	20 groups
Button type	P+R
Button life	More than 1 million times
Battery type	Type 1.5v(AAA)x2
Battery life	~5000 measurements
Protection grade	IP54
Operating temperature	0℃~40℃ (32- 104 F)
Storage temperature	-10℃~60℃ (14-140 F)
Laser auto power-off	30s
Meter auto power-off	180s
Instrument specification	120*50*30 (mm)
Instrument weight	110g (4 oz)

► Working range and accuracy depend on the level of reflected laser energy. The brightness of the laser will be affected by ambient light. Minimizing bright light (especially sunlight) will provide maximum measurement range and accuracy.

► The standard accuracy is $\pm 1.5\text{mm}$. Under extreme conditions (e.g. bright sunlight, extreme temperature) the measurement error could increase to $\pm 0.25\text{mm/m}$ (between 10 and 30 meters) or $\pm 0.25\text{mm/m}$ (greater than 30 meters).

► Measuring transparent objects (e.g. liquid, glass) may lead to inaccurate measurements. Measuring angled objects could result in laser deflecting away from meter and resulting in no measurement. Dark surfaces, or other strongly absorbent material, could result in slow measurements.

Error Code Explanation

● All information will be displayed in the form of code or "Error". The displayed codes and relevant solutions as below:

Code	Reason	Solution
204	Miscalculation	Try again according to user manual
208	Electric currents exceed standard	Please contact your dealer
220	Low battery	Please change battery soon
252	High temperature	Keep temperature below 40 C/104 F
253	Low temperature	Keep temperature above 0 C/ 32 F
255	Reflected signal too weak; measuring time too long	Improve reflecting surface. This can also be accomplished with a measurement target or white piece of paper.
256	Reflected signal too strong	Improve reflecting surface. This can also be accomplished with a measurement target or white piece of paper.