

TOLSEN

35074

~~LASER~~
DISTANCE
METER



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First of all, thank you for your choice on the handheld laser distance meter.

Please carefully read the safety instructions and the user manual before using this product, otherwise it may result in hazardous laser radiation and electric shock. The person responsible for the equipment must ensure that all users understand these directions and adhere to them.

Safety Instructions

- 1.This product is a class II laser product. Please DO NOT stare into beam at any time when operating this product!
- 2.Please DO NOT looking directly into the beam with optical aids (e.g.binoculars, telescopes)!
- 3.Please DO NOT remove any safety labels on this product!

Equipment Performance

- 1.Measuring range is from 0.2~60m
- 2.Calculation function:
 - a. Area
 - b. Volume
 - c. Height (Pythagorean theorem)
 - d. Angle
- 3.Storage and recall of measurement results
- 4.Metric and British unit system
- 5.LCD with background light
- 6.Automatically switch off

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Technical Parameters:

Measuring Range	0.2~60m
Measuring Accuracy(Standard Deviation)	2.0mm
Angle Measuring Range	-180°~180°
Angle Measuring Accuracy(Standard Deviation)	+/-2°
Measuring Unit	m, ft ,in, ' "
Area Unit	m ² ,ft ²
Laser Type	620~690nm
Laser Class	II , <1mW
Laser Spot @ Distance	6mm@10m, 30mm@50m
Single Measurement Time	0.25~4s
IP Protection	IP40
Operating Temperature	0~+40 C
Storage Temperature	-20~+65 C
Batteries	AAA (Alkaline), 2x1.5V
Measurements Per Battery Set	>5000
Weight (Without Batteries)	Approximately 69g
Dimensions (L×W×H)	110×43×24mm

Basic Functions

Single Measurement	√
Max. / Min. Measurement	√
Continuous Measurement	√
Area / Volume	√
Unit Setting	√
Reference Setting	√
Display Illumination	√
Operation Icon Indicator	√
Multi-line Display	√
Laser Signal Power Indicator	√
Technology of Intelligent Alterable Frequency Conversion	√
Buzzer Indicator	√

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Historical Data Records	30Groups
Data Cleanup	√
Error Message Code	√
Battery Indicator	√
Laser Auto. Switch off	30s
Instrument Auto. Switch off	180s

* Maximum deviation error or Shorter range occurs under unfavourable conditions such as bright sunlight or when measuring too poorly reflecting or very rough surfaces, the environment temperature is too high or too low.

** When measuring within 10m, measurement accuracy is $\pm 2.0\text{mm}$; more than 10m, measurement accuracy is calculated as follows: $\pm 2.0\text{mm} \pm 0.05^* (D-10)$ (D: Measuring Distance, Unit: m)

Prohibited Use

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1. Opening the equipment by using tools (screwdrivers, etc.), as far as not specifically permitted for certain cases
2. Aiming directly into the sun
3. Using outside the stated limits
4. Immersing the equipment in water
5. Cleaning the lens using alcohol or any other organic solvent
6. Wiping the lens directly with fingers or other rough surfaces
7. Powering the equipment beyond the rated DC voltage

LCD icon indication	
1 SIGNAL POWER INDICATION	
2 REFERENCE	
3 Max. / Min. Measurement	max min
4 AREA / VOLUME	
5 BATTERY STATUS	
6 HISTORICAL READINGS	
7 HARDWARE ERROR	
8 UNIT	m, ft, in, ' ", m ² , ft ² , m ³ , ft ³
9 Angle	33.2°



- 1 POWER ON / MEASURING - KEY
- 2 AREA / VOLUME /
HISTORICAL DATA RECORDS - KEY
- 3 REFERENCE / UNIT SETTING - KEY
- 4 CLEAR / OFF - KEY

figure A

Start-up

1. Battery Installation

- a. According to figures, remove battery compartment lid
- b. Insert batteries with correct polarity according to battery lid indications
- c. Close the battery compartment lid

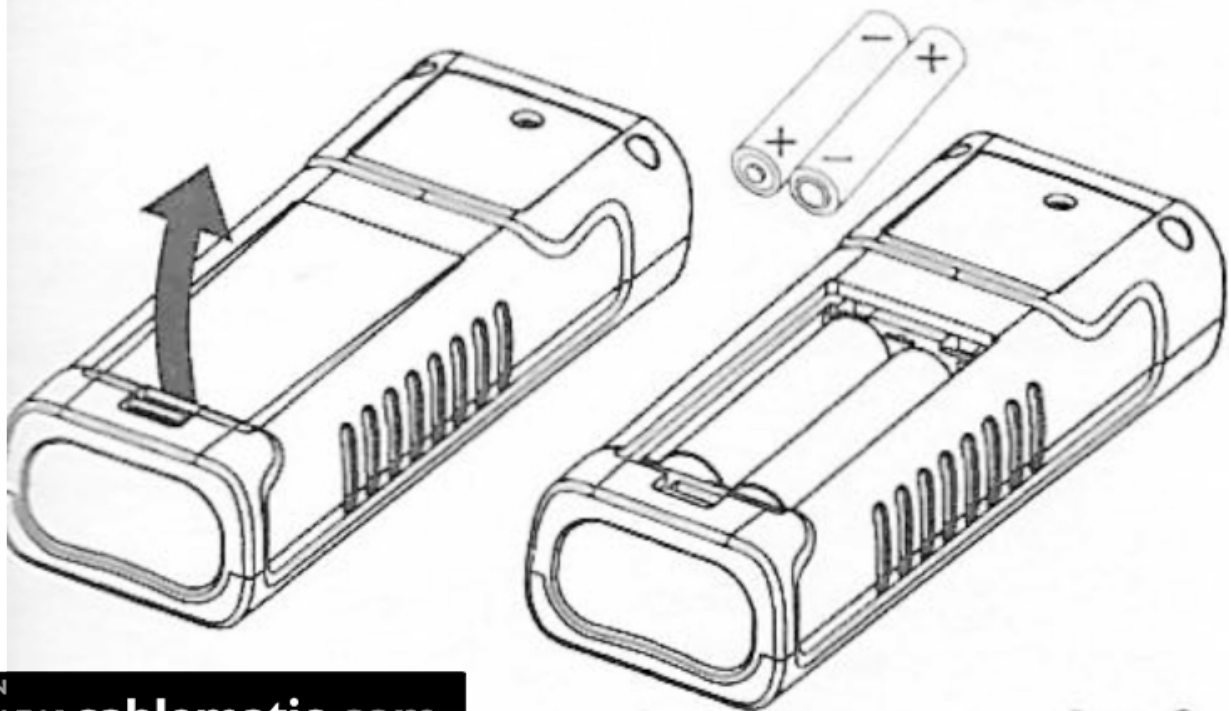


figure B

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*Caution:

1. Please do not mix new and old batteries, Use alkaline batteries or rechargeable batteries only
2. Please replace batteries when the symbol flashes permanently in the display

3. Please remove the batteries before any long period of non-use
4. Flat batteries must not be disposed of with household waste.
Care for the environment and take them to the collection points provided in accordance with national or local regulations

Equipment Operation

Switch on and off

Long-time press  button to switch on the equipment with default reference setting of single measurement mode, rear reference and metric unit system; At the same time battery state and laser reflection signal intensity indication as shown as figure C;

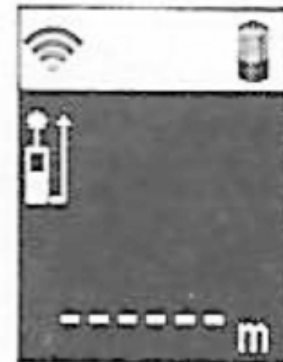





figure C

Long-time press  button to switch off the equipment; the laser will be switched off automatically after 30 seconds and the equipment will be powered off after 3 minutes of inactivity;

Clear Button

Pressing  button to clear the last command or displayed data by lines;

Change Measurement Reference

 Default setting of measurement is rear edge when switching on. Pressing this button will change the measurement reference;

Unit Conversion

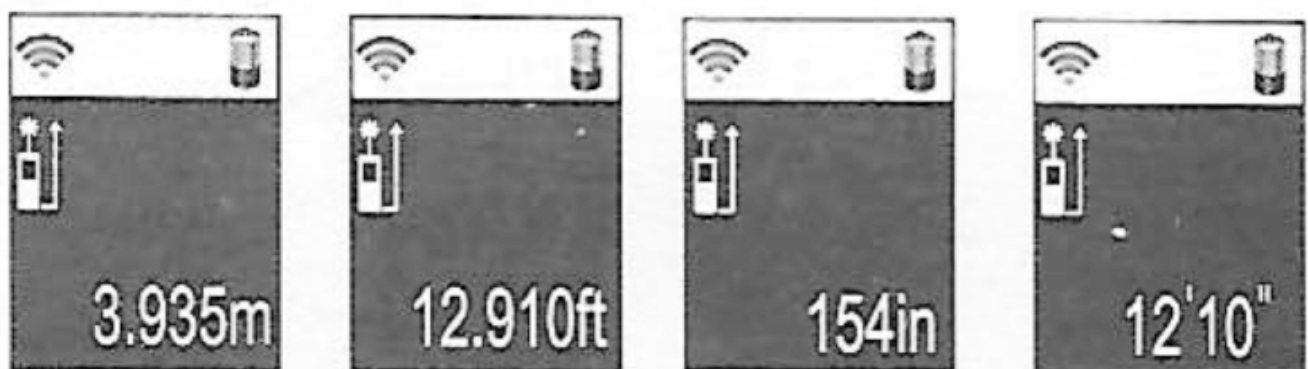



figure D

Default setting of measurement unit is metric unit. Long-time pressing  button will convert metric unit British unit from ft, in to ' " and so on as shown in figure D.

Measurement

Single-mode Measurement




When equipment is switched on, pressing  button will activate the laser and aim the laser onto target and pressing  button again will trigger single-mode measurement, the result is will results displayed immediately as shown in figure E.



figure E

Continuous-mode Measurement

When the equipment is switched on, long-time pressing  button will trigger continuous-mode measurement .

MIN: MINIMUM VALUE

MAX: MAXIMUM VALUE

Current measurement value is displayed in LCD bottom line as shown in figure F.



figure F

Functions

Area, Volume

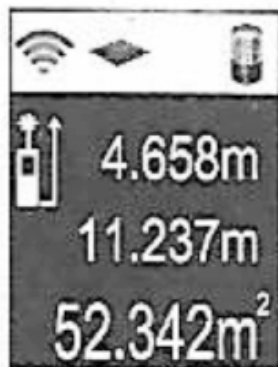



















figure G

Press  button to change measurement functions, respectively, as shown in figure G; select corresponding function and begin the measurement;

Measurement Functions	Icons	Measurement Sequence
Area Measurement		 
Volume Measurement		  
Pythagorean theorem1		
Pythagorean theorem2		 
Pythagorean theorem3		 

Storage and Recall of Measurement Results

The equipment will automatically store the last 10 measurement results at reverse sequence. On standby state, pressing  buttons will recall historical measurement results with the first reading as record No.1 and so on, shown in figure I.

When 10-record space is full, the equipment will directly delete the first reading and store the current reading.

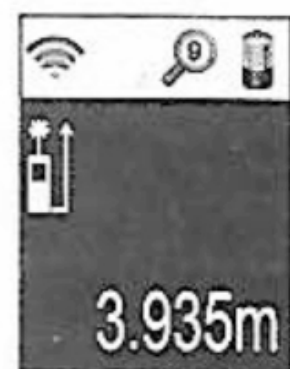


figure I

Appendixes





Message Code

Message Code	Cause	Remedy
101	Battery too low	Change batteries
104	Calculation error	Repeat procedure
152	Temperature too high	Cool down equipment
153	Temperature too low	Warm up equipment
154	Out of range	Please measure target with in distance of 0.2 to 25m
155	Received signal too weak	Use target plant
156	Received signal too strong	Use target plant
157	Measure error or background brightness too high	Darken target or change target
160	Shake too much	Stabilize equipment and repret measurement

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Important Icons

Icons	Content	Description
	Received signal power indicator	More signal power bar indicates stronger reflection signal with faster measurement speed and higher accuracy
	Batter indicator	More battery bar indicates more battery energy; Flash of this icon means batteries run out
	Data storage	Measurement results are stored at reverse time
	Hardware error	Switch on / off the equipment several times. if the symbol still appears, then your instrument is defective. please call your dealer for assistance

Warranty

We guarantee TWO-year warranty. More information can be found at local dealer. All illustrations, description and technical specifications may be subject to change without prior notice.

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