

TOTAL

One-Stop Tools Station

TOTAL

LASER DISTANCE DETECTOR

TMT56016



SCAN FOR VIDEO



0.05-60m

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: 0.05m~60m;
- 2.Calculation function:
 - a. Area b.Volume c.Height (Pythagorean theorem)
 - d. Addition and subtraction e. Area Summation
- 3.Storage and recall of measurement results
- 4.Metric and British unit system
- 5.LCD with background light
- 6.Automatically switch off

Basic Functions

Single Measurement	√
Max. / Min. Measurement	√
Continuous Measurement	√
Area / Area Summation / Volume	√
Unit Setting	√
Reference Setting	√
Display Illumination	√
Operation Icon Indicator	√
Multi-line Display	√

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

Technical Parameters:

Measuring Range	0.05m~60m
Measuring Accuracy(Standard Deviation)	±2.0mm
Measuring Unit	m,ft,in, ' "
Area Uni	m ² ,ft ²
Laser Type	620~690nm
Laser Class	II, <1mW
Laser Spot @ Distance	8mm@10m,40mm@50m
Single Measurement Time	0.25~4s
Operating Temperature	0~+40℃
Storage Temperature	-20~+65℃
Batteries	AAA(Alkaline), 2x1.5V
Measurements Per Battery Set	>8000

* 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.

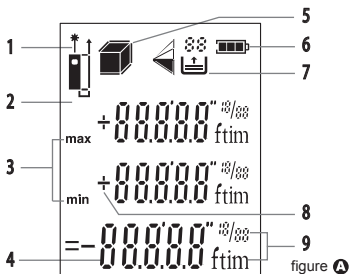
** When measuring within 10m, measurement accuracy is ± 2.0mm; more than 10m, measurement accuracy is calculated as follows: $\pm 2.0\text{mm} \pm 0.1 * (D-10)$ (D: Measuring Distance, Unit: m)

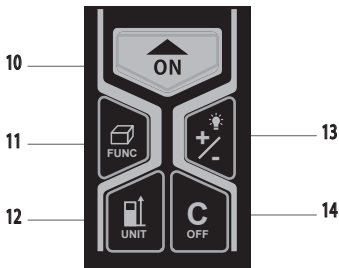
Prohibited Use

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	keypad functions
1 LASER "ON"	10 POWER ON/ MEASURING - KEY
2 REFERENCE	11 AREA/VOLUME/PYTHAGORAS - KEY
3 CONTINUOUS MEASUREMENT	
4 CURRENT READING	12 REFERENCE/ MINUS - KEY
5 AREA/AREA SUMMATION/ VOLUME/PYTHAGORAS	13 PLUS[+]/PLUS[-]/BACK LIGHT/ HISTORICAL DATA RECORDS BUTTON- KEY
6 BATTERY STATUS	
7 HISTORICAL READINGS	
8 ADD AND SUBTRACT	14 CLEAR/OFF - KEY
9 UNIT	

LCD and Keypad Description





Start-up

1. Battery Installation

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

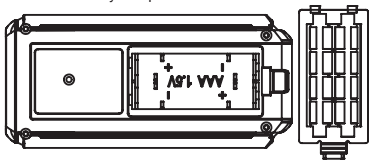



figure ③

*Caution:

- Please do not mix new and old batteries, Use alkaline batteries or rechargeable batteries only
- Please replace batteries when the symbol flashes permanently in the display
- Please remove the batteries before any long period of non-use
- 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 intensity indication as shown as figure C;

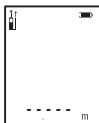





figure C

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;

Change Measurement Reference

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

Clear Button

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

Display Background Light

 Default setting of LCD background is switching off. Pressing the button will switch on or off LCD background light;

Unit Conversion

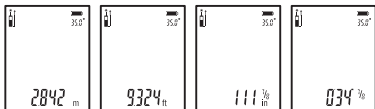



figure D

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, Indirect Measurement (Pythagorean Theorem)

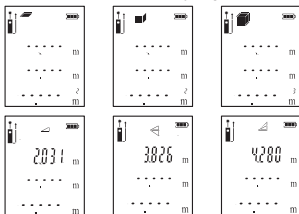








figure G

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

Measurement Functions	Icons	Measurement Sequence
Single-mode Measurement		
Area Measurement		 
Area Summation Function		  



Volume Measurement				
Height Measurement 1				
Height Measurement 2				

Addition and Subtraction Functions

- + The current measurement result is added to the previous one
- The current measurement result is subtracted from the previous one, as shown in figure H

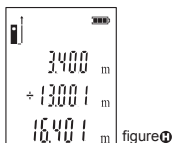




figure H

Storage and Recall of Measurement Results

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

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





figure I

Appendixes

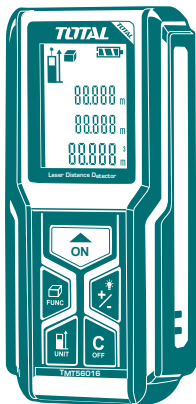
Message Code	Cause	Remedy
err101	Battery too low	Change batteries
err104	Calculation error	Repeat procedure
err152	Too high temperature	
err153	Too low temperature	
err154	Out of range	Please measure target with in distance of Measuring Range
err155	Received signal too weak	Use target plant
err156	Receiving signal is too strong	
err157	Light is too strong	
err160	Over shaking	
err194	Data overflow	

Important Icons

Icons	Content	Description
	Batter indicator	More battery bar indicates more battery energy;Flash of this icon means batteriesrun out
	Data storage	Measurement results are stored at reverse time

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MADE IN CHINA
T0422.V05

0.05-60m