

Laser Distance Meter

User Manual

Congratulations on the purchase of your products.

Carefully read the Safety Instructions and the User Manual before using this product.

The person responsible for the instrument must ensure that all users understand these directions and adhere to them.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: 2AEOGMC160001

Radio Frequency Interference Requirements-FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Radio Transmitters (Part 15)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Hereby, [Shenzhen Milesee Co, Ltd], declares that this S6 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the full DoC is attached.

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Safety Instructions

Symbols used

The following displays are used to distinguish precautions by the degree of injury or damage that may result in the precaution is ignored.



WARNING:



Indicate a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.



CAUTION:

Indicate a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and / or in appreciable material, financial and environmental damage.


Use of the instrument

- a). Press the button  to switch on the device. The laser beam emits from the front.
 - b). Press again  to measure the distance. The result will show on the screen.
- If there is no laser beam or no data displayed on the screen; or “0000” shows on the display. Contact the local dealer for advice or solution.

Possible danger when use the device:

- The laser beam will harm eyes when aim to eyes directly
- The device may produces a spark and light dust or gas
- When clean battery electrolyte, heman fingers may be affected
- The device may cause an hazardous radiation explosion
- Laser exposure radiation damage

Caution:

- Do not look straight at the laser beam
- Do not use the device in inflammable and explosive environment
- Remove the batteries to avoid the electrolyte leakage when not use the device.
- Do not try other functions that the device does not have itself
- Do not attempt to convert the performance of the device in any way
- After repaired, this equipment shall be re-evaluated to comply with the safety requirement according to standard EN 61010-1: 2010.
- If the equipment is used in a manner not specified by the manufacture, the protection provided by the equipment may be impaired.
- This equipment contains no operator serviceable parts, serviced by the qualified person only.
- Must be consulted this manual in all cases where symbol  is marked.

Care

Wipe off dirt with a damp, soft cloth. If the water does not clean the dirt, use a clean cloth moistened with alcohol to wipe the dirt. Be careful with the optical components (such as optical lens): wipe with a clean soft cloth or cotton swab moistened with distilled water (as cleaning glass or camera lens). Do not use aggressive cleaning agents or solutions.

Permitted use

Measuring distances

Computing functions, e.g. areas and volumes

Indirect measurement

Addition and subtraction operations of measurement

Prohibited use

- Using the instrument without instruction.
- Using outside the stated limits.
- Deactivation of safety systems and removal of explanatory and hazard labels.
- Opening of the equipment by using tools (screw drivers, etc.), as far as not specifically permitted for certain cases.
- Carrying out modification or conversion of the product.
- Use of accessories from other manufacturers without the express approval of our company.
- Deliberately or irresponsible behavior on scaffolding, when using ladders, when measuring near machines which are running, or near parts of machines or installations which are unprotected.
- Aiming directly into the sun.
- Deliberately dazzling of third parties; also in the dark.
- Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)

Limits of use

See section "Technical Data" .

The product is designed for use in areas permanently habitable by humans, do not use the product in explosion hazardous areas or in aggressive environments.

Areas of responsibility

As the original producer responsibility:

Responsible for providing security products include manual and origin of the parts.

Responsibilities of the manufacturer of non-original accessories:

The manufacturers of non-original accessories for the products are responsible for developing, implementing and communicating safety concepts for their products. They are also responsible for the effectiveness of these safety concepts in combination with the products equipment.

Responsibilities of the person in charge of the instrument:



WARNING:

The person responsible for the instrument must ensure that the equipment is used in person is also accountable for the deployment of personnel and for their accordance with the instructions. This training and for the safety of the equipment when in use. The person in charge of the instrument has the following duties:

- To understand the safety instructions on the product and the instructions in the User Manual.
- To be familiar with local safety regulations relating to accident prevention.
- To inform local dealer immediately if the equipment becomes unsafe.

Hazards in use



CAUTION:

Watch out for erroneous distance measurements if the instrument is defective or if it has been dropped or has been misused or modified.

Precautions:

Carry out periodic test measurements. Particularly after the instrument has been subject to abnormal use, and before, during and after important measurements.

Make sure the optics is kept clean and that there is no mechanical damage to the bumpers.



CAUTION:

In using the instrument for distance measurements or for positioning moving objects (e.g. cranes, building equipment, platforms, etc.)

Unforseen events may cause erroneous measurements.

Precautions:

Only use this product as a measuring sensor, not as a control device. Your system

must be configured and operated in such a way, that in case of an erroneous measurement, malfunction of the device or power failure due to installed safety measures (e.g. safety limit switch), it is assured that no damage will occur.



WARNING:

Flat batteries must not be disposed of with household waste. Care for the environment. Always prevent access to the product by unauthorized personnel.

And take them to the collection points provided in accordance with national or local regulations. The product must not be disposed of with household waste.

Dispose of the product appropriately in accordance with the national regulations in force in your country.

Electromagnetic Compatibility (EMC)

The term “electromagnetic compatibility” is taken to mean the capability of the product to function smoothly in an environment where electromagnetic radiation and electrostatic discharges are present, and without causing electromagnetic interference to other equipment.



WARNING:

The products conform to the most stringent requirements of the relevant standards and regulations. Yet, the possibility of it causing interference in other devices cannot be totally excluded.

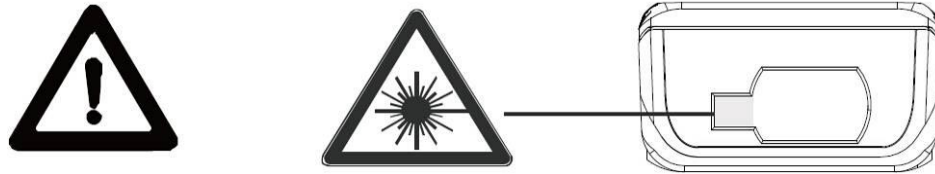


CAUTION:

Never attempt to repair the product yourself. In case of damage, contact the local dealership.

Laser classification

Integrated distance meter



- That produces a visible laser beam which emerges from the front of the instrument.

It is a Class 2 laser product in accordance with:

- IEC60825-1: 2007 “Radiation safety of laser products”

- Do not stare into the laser beam or direct it towards other people unnecessarily.

- Eye protection is normally afforded by aversion responses including the blink reflex.

- The radiation pattern emitted from this equipment during the performance of operation and maintenance procedure:

- Wavelength: 630-670nm
- Beam divergence: 0.16 x 0.6 mrad
- Pulse duration: 0.25s (continuous)
- Maximum power or energy output: <1mW

- Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

WARNING:

Looking directly into the beam with optical aids (e.g. binoculars, telescopes) can be hazardous.

Precautions:

Do not look directly into the beam with optical aids.

CAUTION:

Looking into the laser beam may be hazardous to the eyes.

Precautions:

Do not look into the laser beam. Make sure the laser is aimed above or below eye level. (particularly with fixed installations, in machines, etc.)

Overview

Thank you for purchasing MileSeey products! Please carefully read this product Quick Start to ensure the safe and most efficient use of this product. S6 is a masterpiece by globally recognized designer adopting the idea of “brics”, with beautiful “Cadillac” geometries and outlines, adding a stale and reliable impression to Users. The silk-like smooth soft rubber, the multifunctional end-piece, 10 ° angled ergonomic housing and powerful function list, excellent performances made S6 one of the best choice for users of laser distance meter from the globe.

Warning


Laser Class 2 products;
Do not look directly into the beam with optical aids or direct it towards other people unnecessarily.




Power on / off

Inserting/replacing batteries Remove battery compartment lid by lifting it lightly, insert the provided batteries and close the cover.

Power on

Long press  to power on the device, and directly goes to single distance measurement interface.

Power off (manually)

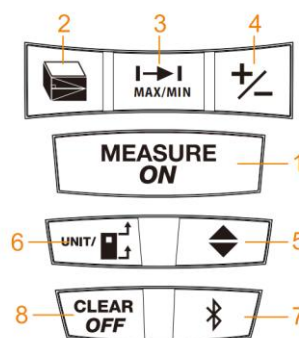
Long press  to switch off the device.

Power off (automatically)





The instrument switches off automatically after three minutes of inactivity.

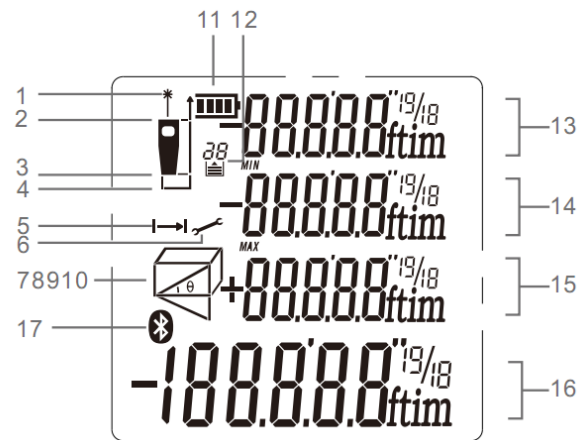
Button functions

1. Power on / Laser on / Measure
2. More functions
3. Continuous measurement
4. Addition / Subtraction
5. Historical data
6. Reference point / Unit
7. Bluetooth
8. Clear / Power off





Display




1. Laser on
2. Reference point (top)
3. Reference point (bottom)
4. Reference point (end-piece)
5. Continuous measurement
6. Error message
- 7, 8, 9, 10 auxiliary tools:
 -  Area measurement
 -  Volume measurement
 -  Pythagoras two points
 -  Pythagoras three points
11. Battery status
12. Historical data
13. Angle
14. Value 2 / Min value
15. Value 3 / Max value
16. Summary line / latest value / calculation result
17. Bluetooth

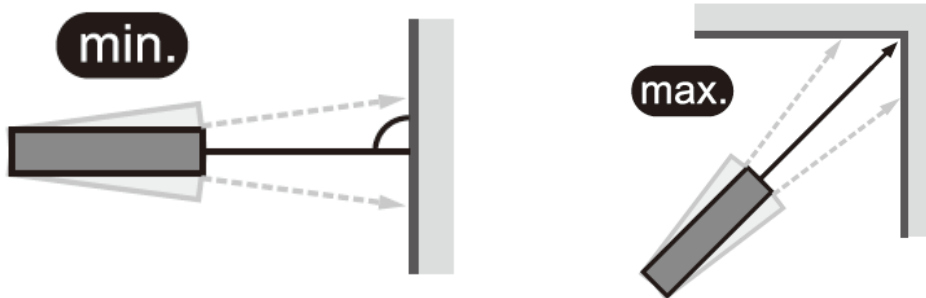


Single Distance Measurement



Press  to activate the laser.
 Press  again to trigger the distance measurement. The result is displayed immediately


Continuous Measurement (Min / Max)


Press  key to activate continuous measurement. User can press  or  to stop the function and the values of maximum and minimum distances are shown in the display as well as the last measured value in the summary line. This function will be stopped automatically after 5 minutes of inactivity.

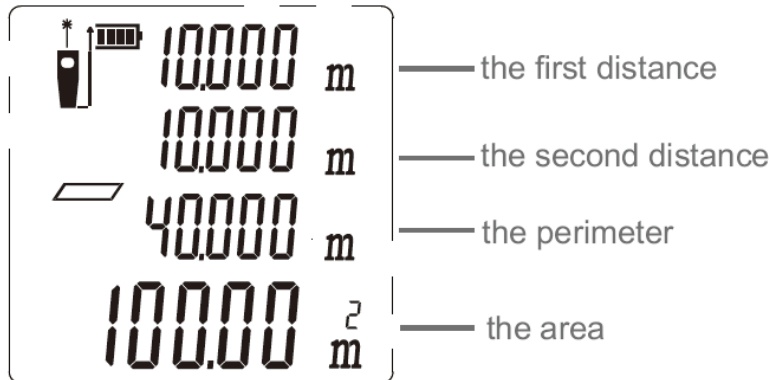


Area Measurement



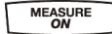
Press  once, the symbol  appears in function field of display.

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 and area are displayed in the display orderly.



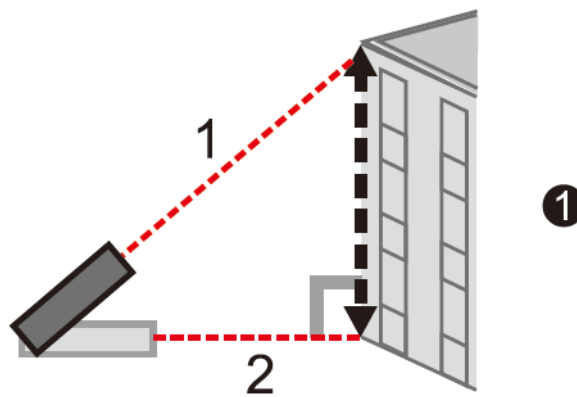
Volume Measurement



Press  twice, the symbol  appears in the function field on the display.
Press  to take the first length measurement (e.g. Length). Next get the width, then height, the result of length, width, height and volume is displayed orderly.

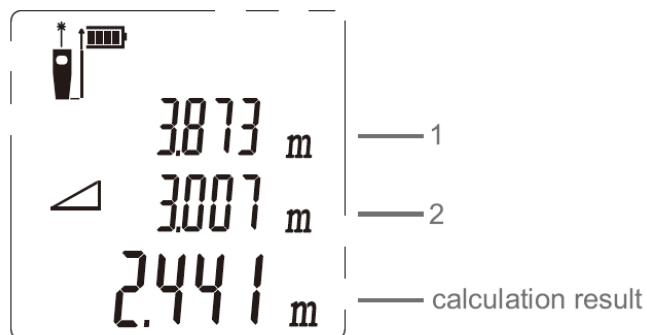
Indirect Measurement - Pythagoras

S6 calculates indirect distance using Pythagorean Theorem. Note: Target points should be in the same line. When measuring the 2nd distance, laser beam should be right-angled to the line.



Pythagorean Method-Two points





Refer to figure 1. Press  3 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.

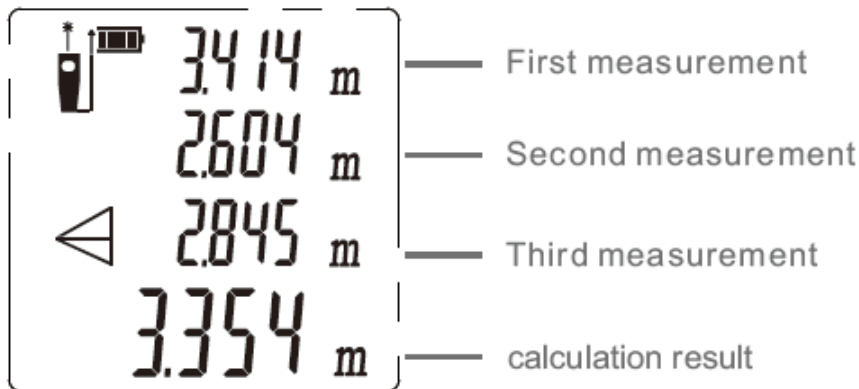
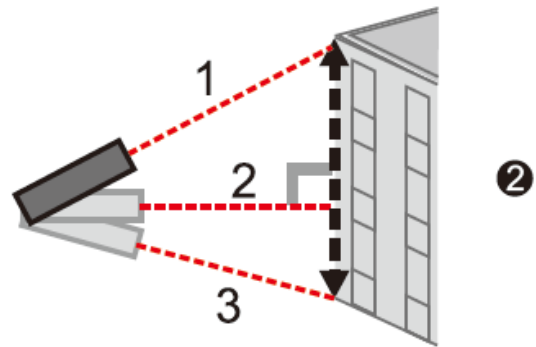


Pythagorean Method-Three points




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

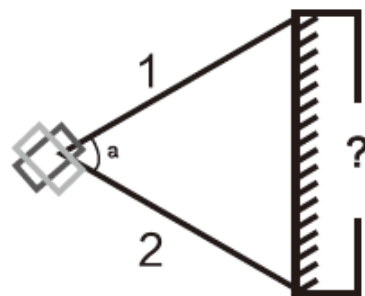
Take measurement with the 3 points shown on below figure in numeric sequence, the height is calculated and displayed on the summary line.

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





Auto Height Measurement

Press  five times, the symbol  appears on display. Press  button to measure distance to the top and to the bottom of the object, distance of two hypotenuse, and height of object will be seen on display. Refer to the figure below.




Addition/Subtraction

Take a measurement, then press  or long press it, 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.


Bluetooth

Initiate Bluetooth On the device



Long press  to initiate Bluetooth function, the Bluetooth icon will be displayed on LCD, and the device is ready for Bluetooth connection. User must open the "mileseey imeter" on smart phone and operate according to the quick guide on APP.


Mobile phone operation steps

1, Open APP to enter scene measuring, press the Bluetooth button on up-right, then the Bluetooth will be turned on.


2, Search for Bluetooth name of the instrument, for example: , click it and connect them.

The Bluetooth function must be initiated first.

3, After connection, Bluetooth icon turns green, and the  on the device stops flashing. At this time users can remotely control the device, press  in APP to take measurements and distance will be shown on APP and S6.

4, Open the APP to enter the scene measuring, short press the button  on the device, the realtime data on the instrument will be synchronous transmitted to the display window of the APP.

5, Touch the data in the display window, and you can move data to any line in the drawing area.

6, Open APP and find "import records" function. Click button  to connect with the instrument, and you can import all data stored on S6 to the APP.

* The APP is also equipped with professional mapping software; available to users for free for one month.

APP Download address:

1, Android users can download in the android market or from official website of Mileseey (www.mileseey.net) .

2, Apple users can download and install directly in App Store.


* S6' s Bluetooth function can only work with the APP on Android and Ios platform. Please download and install Mileseey APP in advance.

APP name: "Mileseey iMeter" .

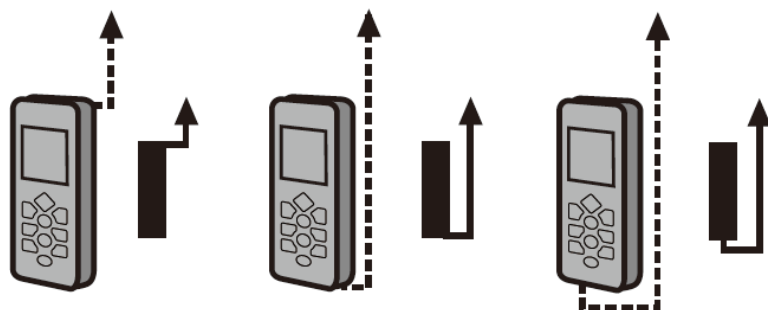
APP Operating environment requirements:

- 1, Android platform: Android 4.3 and above version. The Bluetooth module need to be version 4.3 and above, lowpower Bluetooth.
- 2, iOS platform: Applicable to the iPhone 4s and above, iPad 3 and above.


Set up Reference Point

Press  to switch reference point between the top, bottom and end-piece of the instrument. There is a beep warning tone when reference point is changed.


The default reference setting is from the bottom 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 bottom of the instrument every time when it' s powered on.





Unit Change

Long press  to change distance unit between m, ft, in and ft+in. The default unit is ft.

Cancel/Clear

When measuring, press  to cancel the last action or clear measured data.

Historical Data

Press  to view historical data, the last 20 measured data will be displayed in reversed order. Press  to quit historical data viewing.

Troubleshooting

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 is too high	The external temperature for the instrument should be kept at 0° C-40° C
253	Low temperature	Warm up the device to meet work conditions.
255	Received signal too weak, measurement time too long	Use target plate or change a good reflection.
256	Received signal too strong	Target too reflective use target plate or do not aim at strong light objective.
261	Measure value over range	Please make measurement within its range.
500	Hardware error	Switch on/off the device several times. If the symbol still appears, then your instrument is defective. Please call your dealer for assistance.

Specifications

Specification	S6
The Maximum Measuring range	0.2 ~40M*
Typical Measuring accuracy	± 1.5 mm**
Measuring units	m / ft / in /ft+in
Laser class	Class 2
Laser type	630-670nm, <1mW
Area, Volume measurement	●
Addition/subtraction	●
Single distance measurement	●
Continuous measurement	●
4-line display with backlight	●
Continuous distance measurement (Min/Max)	●
Bluetooth	●
Ingress protection	IP30
Historical data	20 sets
Operating temperature	0° C~40° C
Storage temperature	-10° C~60° C
Battery life	5,000 measurement times
Battery type	Type AAA 2 x 1.5V
Auto laser off	30 seconds
Auto instrument off	180 seconds
Dimensions	115*52*32 mm
Weight	118g

Note:

The maximum measuring range is determined by the version of the meter. Exact measuring range for the laser distance meter is shown on the gift box.

Range and accuracy are based on typical conditions, may deteriorate under unfavorable conditions such as bright sunlight or poor reflectivity.

Contact us



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