

# Laser Distance Meter

## User Manual

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: 2AEOGMC160002**

### **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.

**MODIFICATION:** Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

### ***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.

## English

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.

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# Safety Instructions

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## 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.



Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and efficient manner.

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## Use of the instrument

- a). Slide down the button to switch on the device. The laser beam emits from the front.
  - b). Press  to measure the distance. The result will show on the screen.
- If there is no laser beam or no data displayed on the screen, ntact 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. area and indirect measurement.

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### 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.)

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### 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.

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### 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.

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### **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.)

Unforeseen 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.

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## 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.



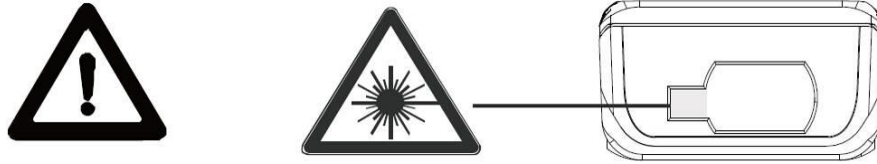
**CAUTION:**

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

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## 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:**

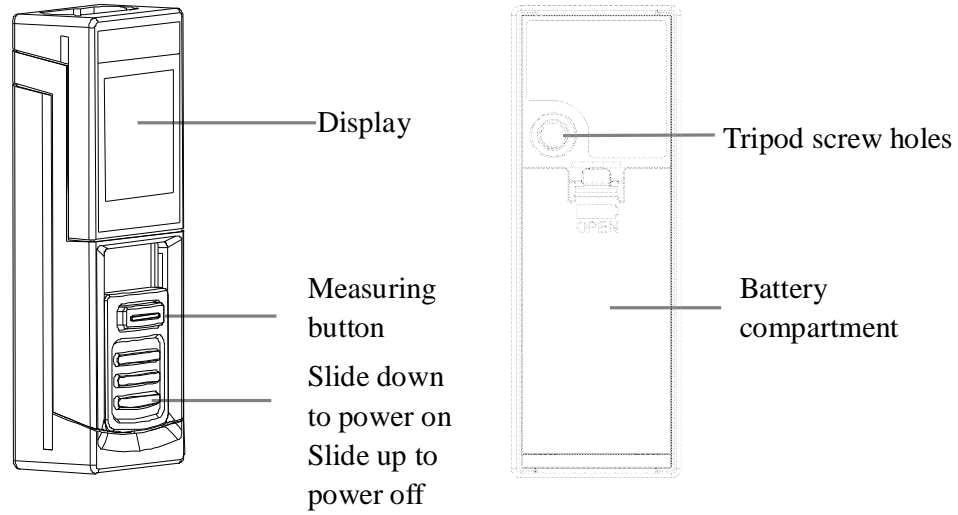
Looking into the laser beam may be hazardous to the eyes.

#### **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.)



## Appearance diagram



## Warning

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



## Specification

Specification	dTape 5T
Measuring range <sup>①</sup>	0.2-60m
Measuring accuracy <sup>②</sup>	+/-2mm
Continuous measurement	✓
Area measurement	✓
Pythagorean measurement	✓
Auto level	✓
Auto height	✓

Touch screen	✓
Tilt measurement	✓
Bluetooth	Bluetooth 4.0
Reference	Front/middle/rear
Measuring unit	m/ft/in/ft+in
Laser class	Class 2
Laser type	630-670nm, < 1mW
Battery type	AAA 2X1.5V

**Remark:**

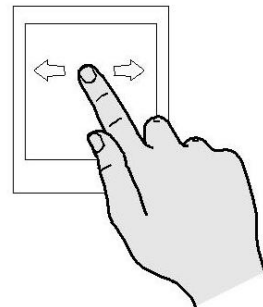
- ① The maximum measuring range is determined by the version of laser distance meter. Exact measuring range is shown on the gift box.
- ② In unfavorable conditions, such as intense sunshine, poorly reflecting target surface (black surface) or high temperature variations, the deviation over 10m of distance may increase.

\*During daylight or if the target has poor reflection properties, please use target plate.

**Operation on touch panel**

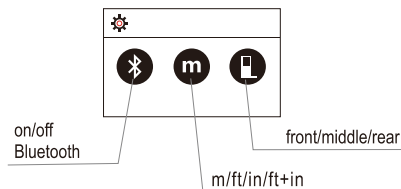
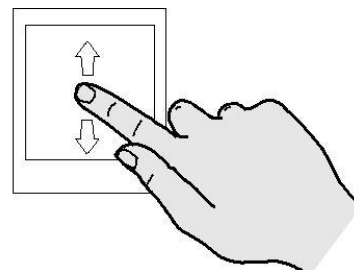
**Slide left or right**

Slide left or right to exchange functions between: Continuous measurement, Pythagoras indirect measurement, Area measurement, Volume measurement, Auto level, Auto height.



**Slide up or down**

Slide down to enter into setting menu, and click on icons to change relevant setting. Slide up to exit setting menu.



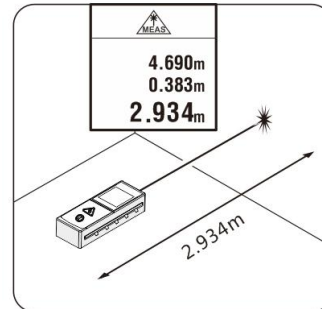
## Operating procedures

Slide on the screen left or right to exchange measuring mode.  
The red side on the icon is to be measured.



### Continuous measurement


The device goes to continuous measurement directly when it's powered on, click on the screen or press the measuring button to hold the measurement, press the measuring button to measure again.

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

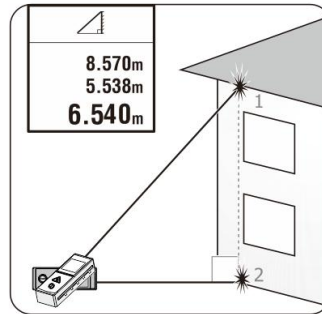


### Pythagorean Method-Two points




Slide on the screen left or right to locate the Pythagorean Method-Two points icon , press  to take the first distance measurement.

press  to take the second distance (keep the instrument horizontal).

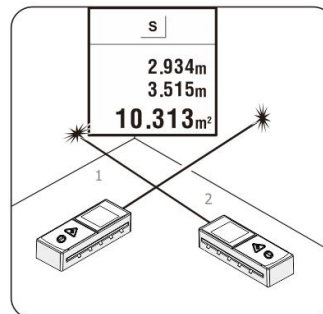
The results of first length, second length and the height will be orderly displayed on the screen.





### Area measurement

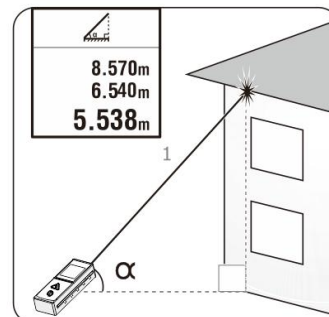
Slide on the screen to locate the area measurement icon , and press  button to take the first distance measurement (e.g. Length). Press  again to take the second distance measurement (e.g. width).

The results of length, width, and area will be displayed in the display orderly.






### Auto level

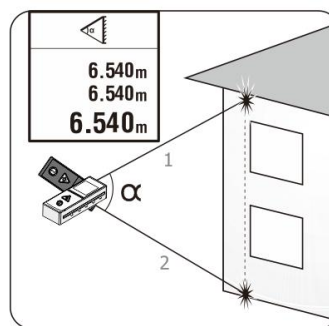
Slide on the screen to locate auto level icon , and press measuring button  to measure the length of Hypotenuse, then Hypotenuse, Vertical and horizontal distance will be displayed on the screen.



### Auto height

Slide on the screen to locate auto height icon , and press measuring button  to measure the first distance. Press  again, take the second distance.

The results of first length, second length and the height will be orderly displayed on the screen.




### Error code

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.

## Bluetooth wireless data transfer

### Operation on the device

Click Bluetooth icon  on the setting menu, when the icon lights up, it means Bluetooth is activated, and it flashes waiting for connection.

### Operation on App

Open APP to enter scene measuring, press the Bluetooth button  on up-right, then the Bluetooth will be turned on. Search for Bluetooth name of the instrument: **D5 Series** , click and connect it. After connection, Bluetooth icon turns green, and the Bluetooth icon  in the device stops flashing, users can remotely control the device.

\*As D520T do not have the function of data recording, the Import Records function in the APP can not be used.

Bluetooth function can only work with the APP, Please download and install Mileseey APP in advance. APP name: " Mileseey iMeter" . Android users can download in the Android market or official website of Mileseey. Apple users can download and install directly in App Store.

APP Operating environment requirements:

Android platform: Android 4.3 and above version. The Bluetooth module need to be version 4.3 and above.

iOS platform: applicable to the iPhone 4S and above, iPad 3 and above.

APP name: " Mileseey iMeter" .

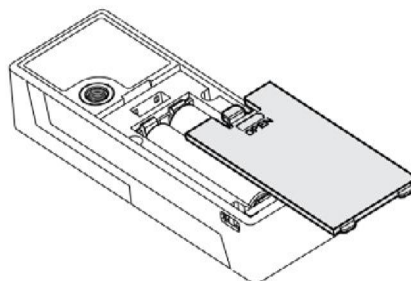
APP Operating environment requirements:

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.

## Battery installation

Open the battery cover, put two batteries into the compartment correctly according to the sign of positive and negative pole. Close the cover after installation for safe use.



## Contact us



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