

MILESEEY®

S20

(Camera)

**Professional
Laser Distance Meter**

User's Guide

Laser Distance Meter S20(Camera) Series Quick Start

Product overview

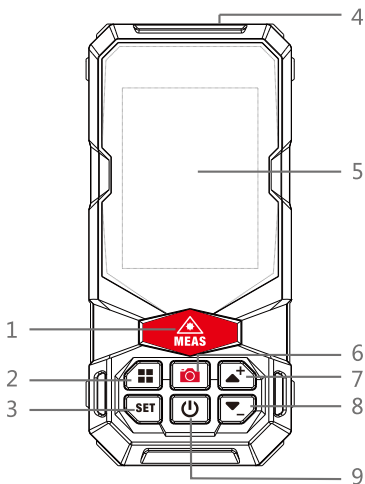
Thank you for using Mileseey handheld laser distance meter. Please read the instruction carefully before operation.

Thanks to the creative skeleton design, robust housing and compact inner structure, S20 (Camera) series can offer the amazing features of IP65 waterproof and super long battery life. With 2.4" HD colored display, it can also provide better visual experience. What's more, S20(Camera) series has reached up to IP65 that the water and dust proof could be truly fulfilled.

S20(Camera) series could help find the target in sunshine or longer range, as well as allowing user to measure more accurate within the extended range of 330ft. The built-in inclinometer enables the 3D measurement, P2P function shall be able to measure distance between any two points. The embedded Bluetooth technology can support real-time data transmission. Dual power supply can offer more options not limited to rechargeable NI-MH batteries but also AAA alkaline batteries.

S20(Camera) series offers comprehensive measuring functions including Area, Volume, Pythagoras, Auto Level, Auto Height. Besides, it also introduces the measurement of Circular area, Cylindrical volume, trapezoid, stake-out and time-delayed measurement, which can satisfy all the needs from different users.

Appearance

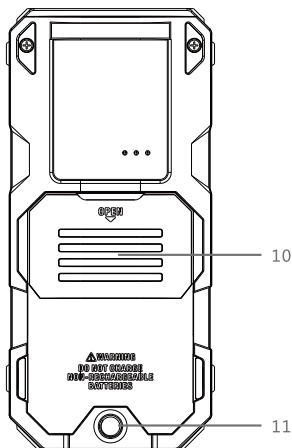


1. Measure Button

Activate the measuring mode; short press to measure; long press to activate continuous measurement.

2. Menu Button

Press to change measuring mode: Area / Volume / Pythagorean two points / Pythagorean three points / Auto level / Auto height / Trapezium measurement① / Trapezium measurement② / Triangle Area measurement / Circular Area measurement / Cylindrical Volume measurement / Stake out.



3. SET Button

Press the button to select Bluetooth, Unit change, Reference, 3D level, Screen rotation, History and Time-delayed measurement.

4. Laser Emitter label

5. Display Screen

Mode selection display.

6. Camera

Press the button to activate the camera.

7. Add/Previous

8. Subtract/Next

9. Power Button

Long press to switch ON/OFF, short press to return to single measurement.

10. Battery Compartment

11. Tripod Mount

Safety Instruction

The safety instructions should be read through carefully before the product is used for the first time.



Warning

a. The device is categorized into Class 2 laser product. DO NOT stare at laser directly or shoot at others or it will cause damage to eyes.

b. The product is in accordance with strict standards and regulations through the development and manufacturing, but still can't entirely exclude the possibility of interference to other devices, and may cause discomfort to human and animals.

· Please DO NOT use this product under explosive or corrosive environment.

· Please DO NOT use this product near medical devices.

· Please DO NOT use this product on the plane.

1. Disposal

Everyone is responsible for environmental protection. It's prohibited to dispose used batteries together with household waste. Please collect used batteries to designated waste station.

This product must not be recycled with household waste. Please dispose of the product appropriately in accordance with the national regulations in your country.

2. Range of Responsibility

MileSeey will not be responsible for the damages caused by improper use below:

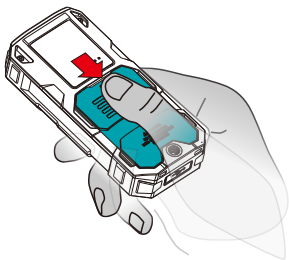
*Using the product without instruction;

*Use of accessories from other manufacturers without approval from MileSeey ;

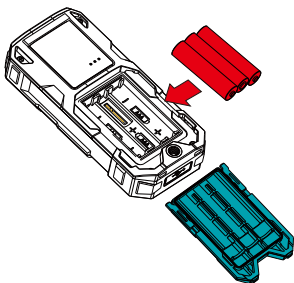
*Carrying out modification or conversion of the product.

Battery Installation and Instructions

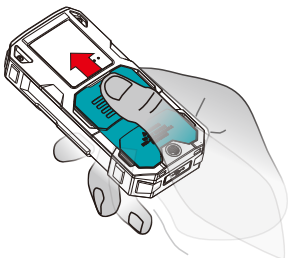
Press and slide the cover toward the rear of the body shell to open the battery door.



Insert 3* AAA rechargeable NI-MH batteries, observing correct polarity.



After the battery is placed, cover and hold the battery door; press and slide to the top, the cover can be sealed.



The product uses rechargeable NI-MH batteries. Please use provided USB cable while charging. The computer can also be used to charge, but this takes more time.





Warning

When using dry batteries, please DO NOT use USB to charge. DO NOT mix rechargeable batteries with dry batteries at the same time to avoid accidents. Any damage caused by improper use of charging dry battery is not covered by the warranty, and Mileseey will not be responsible for it.

While charging, the device may heat up, which is normal, and will not affect the product performance and lifetime.

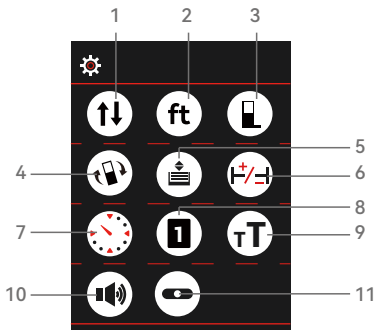
Please unplug the charger and take off the batteries when not in use.

Camera

When the camera tracks the laser dot, if no red square appears in the center cross, it means the camera is sourcing the laser dot; If red square appears in the center cross, the camera finds the laser dot, and then press the  to get the distance. The pointfinder camera can be used under any measure mode. However, for measurement that requires capturing the distance of multiple segments, user needs to repeatedly press the camera icon  after completion of measuring each segment in order to enable the measurement of next segment.




Display Screen





1. App Connectivity



To select , press  to activate or de-activate the data transmission by connecting with the APP.

When the icon  turns grey, the connection shuts off.



2. Measuring Unit

select , and then press  to change the units (m/ft/in/ft+in)







3. Measuring Reference

select , and then press  to change the reference (Front/Tripod/Rear), Rear is the default reference.





4. Display Rotation

select , and then press  to confirm. It will automatically switch to landscape display when the device placed horizontally.



5. Memory

select , and then press  to confirm, and then press or add/subtract to check the records. Press  to delete the record selected. Press  button to select delete one or all records. Then press  button to confirm delete or press  button to exit.



6. Constant Settings

select , and then press  to confirm, press  to move the cursor among the digits, adding or subtracting the value via  button. The measuring results will automatically add/subtract that constant value.



7. Time-delayed Measurement

select , and then press  to confirm, the device shall start measuring after 5 seconds.

8. Display Mode

select , and then press  to select the white words in dark screen mode or black words in light screen mode.
(White words in dark screen mode can only be used during single distance measurement and camera mode.)



9. Big Text Mode

select , and then press  to enable or disable the larger font size function.
(The big text mode can only be used during single distance measurement.)

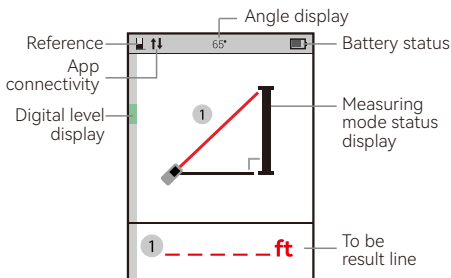
10. Sound

select , and then press  to change the sound on  or off .

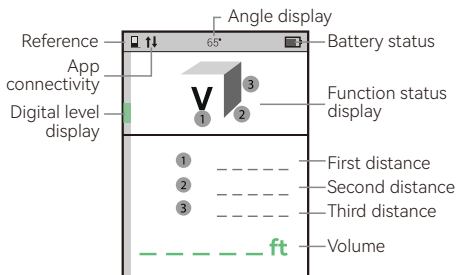
11. 3D Level

select , and then press  to enter 3D level function.


A Measuring interface:

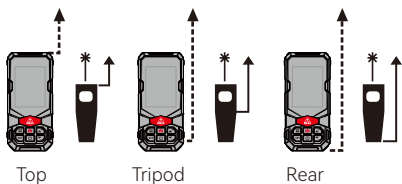


B Result interface:



Operation Instructions

The Single Distance Measurement is the default measuring mode when it is switched ON. Press  to change the measuring mode. The red line indicates the current measuring line, and distance data are displayed in Red.



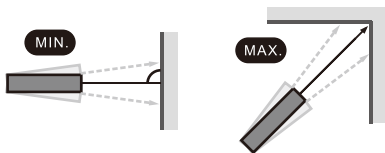
The measuring data should be different due to different reference settings.

Single Distance Measurement




The device will come to Single Distance Measurement  when it is switched ON. Press  after aiming at target to get result in summary line.

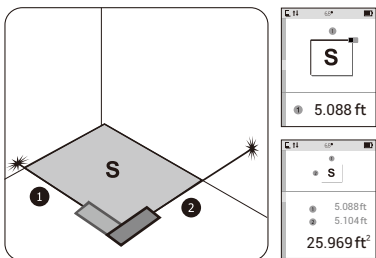
Continuous Measurement

The Continuous Measurement allows the user to measure the Maximum or Minimum distance from a fixed measuring point. Press and scan slowly the laser back and forth and up and down over the desired target point. The value for Maximum and Minimum distances are indicated in the display as well as the last measured value in green. You can choose Max or Min value according to your needs.







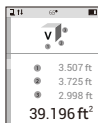
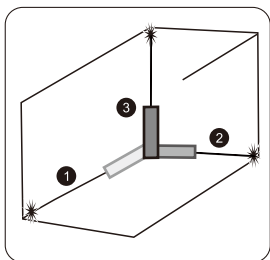
Area Measurement

Press  to select Area Measurement via **S**.
According to reminding of the red line, press  to get the distance for 1st line (e.g Length), press  according to the reminding line again to get the distance of 2nd line (e.g. Width), the Area is calculated and displayed in the summary line.







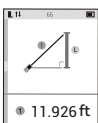
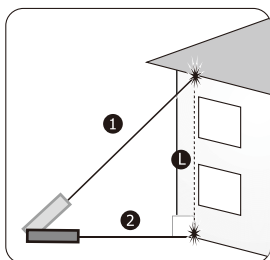
Volume Measurement

Press  to select Volume Measurement via **V**.
According to reminding of the red line, press  to get the distance for 1st line (e.g Length), press  again for 2nd line (e.g Width), and press  third time for 3rd line (e.g Height).
The Volume is calculated and displayed in the summary line.








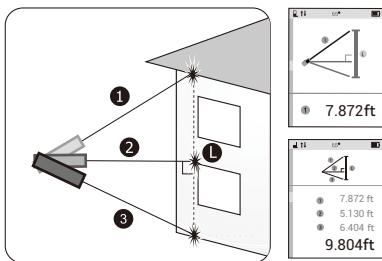
Pythagoras (2-point)

Press  to select Pythagoras via . according to reminding of the red line, press  to get the distance of 1st line, and then switch to the horizontal direction of the object from the fixed measuring point, and press  again to get the distance of 2nd line. The result is displayed in the summary line.








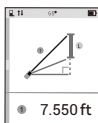
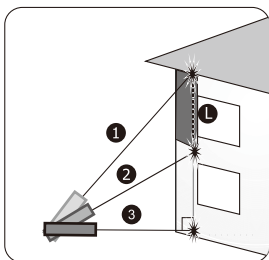
Pythagoras (3-point) ①

Press  to select Pythagoras ① via . According to reminding of the red line, aiming at 1st target point, press  to get the distance of 1st line, and then switch to the horizontal direction of the object from the fixed measuring point, press  again to get the distance of 2nd Line, and then move to the 3rd target point, press  to get the distance of 3rd line. The result is displayed in the summary line.






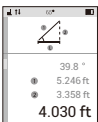
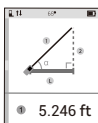
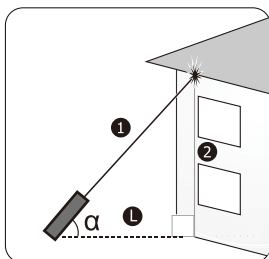
Pythagoras (3-point) ②

Press  to select Pythagoras ② via . According to reminding of the red line, aim at 1st target point, press  to get the distance of 1st line, and then switch to the horizontal direction of the object from the fixed measuring point, press  again to get the distance of 2nd Line, move to the 3rd target point, press  to get the distance of 3rd line. The result is displayed in the summary line.







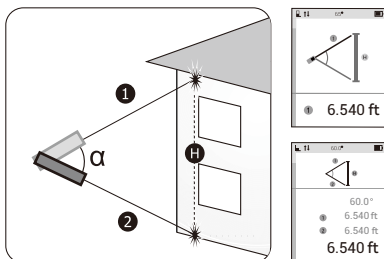
Auto Level Measurement

Press  to select Auto Level Measurement via . According to reminding of the red line; press  to get the distance of hypotenuse, vertical and horizontal lines. The result is displayed in result line accordingly.






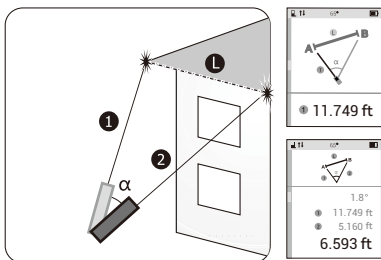
Auto Height Measurement

Press  to select Auto Height Mode . According to reminding of the red line, press  to get the distance for 1st line, press  again for 2nd line, and then you can get vertical height displayed in summary line.







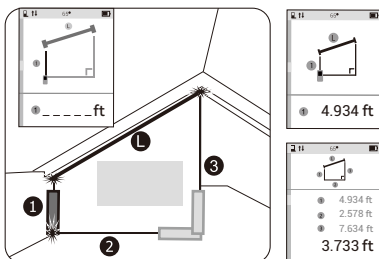
Point to Point (P2P) Measurement

Press  to select Point to Point (P2P) Measurement. Follow the instruction: "Set the measuring reference for the center point of rotation, and wait for stable performance before operating". Hold the device still and wait until the instruction icon disappear. According to reminding of the red line, press  to get the distance to 1st laser point, and then move the device from the fixed measuring point; press  again to get the distance to 2nd laser point. The distance between two points is displayed in the summary line.







Trapezium Measurement ①

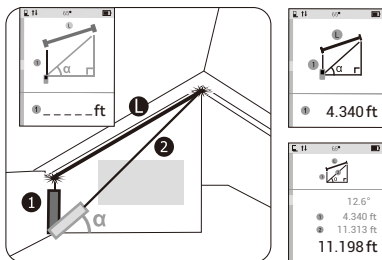
Press  to select Trapezium Measuring mode . According to reminding of the red line, press  to get the distance for 1st line, press  according to the reminding line again to get the distance of 2nd and 3rd line, and meanwhile, the last line shall be displayed in the summary line.






Trapezium Measurement ②

Press  to select Trapezium Measuring mode . According to reminding of the red line, press  to get the distance for 1st line, taking the fixed measuring point as center then rotate the meter aiming at next target, press  to get the distance of 2nd line.

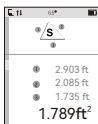
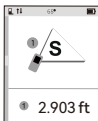
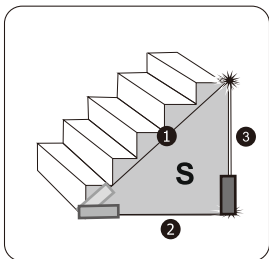
The angle between the diagonal edge and the horizontal edge, the length of right-angle side, the length of diagonal edge and hypotenuse shall be displayed accordingly on screen.






Triangle Area Measurement

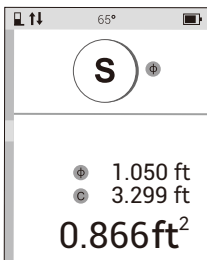
Press  to select Triangle Measuring mode . According to reminding of the red line, press  to measure the length of the three line of the Triangle ①②③. The result of area shall be displayed on screen.

Attention: If the Triangle could not be composed by that three measured lines, then it outputs error.






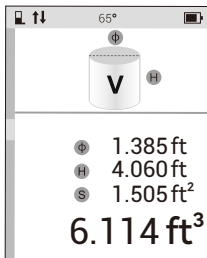
Circular Area Measurement

Press  to select Circular Area Measuring mode . According to reminding of the red line, press  to get the diameter, and then area and circumference shall be automatically output on the screen.








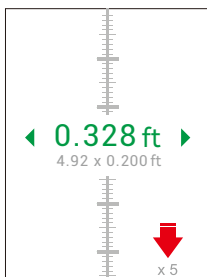
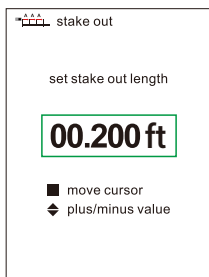
Cylinder Volume

Press  to select Cylinder Volume Measuring mode . According to reminding of the red line, press  to get the diameter and height of the cylinder, the device will automatically calculate the area and volume, and display on screen.





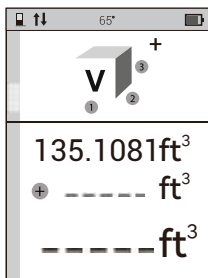
Stake out

Press  to select Stake out . press  to move the cursor and select the corresponding number, press to  add/subtract the value until the desired distance is reached. Press  and start Stake out measurement. The green value would be the distance in real-time. You can move the device forward or backward according to the red arrow, when approaching the target, the instrument starts buzzing. The X1/X2/X3 well below or above the red arrow stands for the order of data group.



Add/Subtract

Under the mode of single measurement, Area and Volume measurement, press "" or "" to make add/subtraction calculations on the basis of previous record. The result is displayed in the result line.



App Download

Device Operation

The ICON flashing means Bluetooth is not connected with APP. If the Bluetooth ICON is keeping still, it means Bluetooth is connected to APP successfully.

On Smartphone APP

Turn on Bluetooth in smartphone and connect it with device on APP. when Bluetooth ICON on smartphone turn to blue and Bluetooth ICON on device doesn't flashing, It means it is connected successfully, and then users can measure the distance by handling APP and transfer data to APP.

Scan code



Step 1

Jump to the
App Market



Step 2

Search and install
"Smart Life"



Step 3

Open the APP to
connect the device



Step 4

Erase the wireless communication setting of S20

Upon starting up, long-press the “Power” button plus the “Measuring Mode” button simultaneously, and the device will power off after successful erasure.

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	Low battery	Replace batteries or charge the batteries.
255	Received signal too weak or measuring time too long	Change target surface
256	Received signal too strong	Change target surface
261	Out 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.

Specification

Measuring Range	0.65–330ft
Measuring Accuracy	$\pm(0.006\text{ft}+5\times 10^{-5}\text{D})$
Single Distance Measurement	√
Continuous Measurement	√
Area Measurement	√
Volume Measurement	√
Pythagoras(2-point)	√
Pythagoras(3-point)①	√
Pythagoras(3-point)②	√
Auto Level	√
Auto Height	√
Point to Point(P2P)	√
Trapezium Measurement①	√
Trapezium Measurement②	√
Triangle Area Measurement	√
Circular Area Measurement	√
Cylindrical Volume Measurement	√
Stake Out	√
Time-delayed Measurement	√
Track the laser do	√
Freeze motion after measuring	√
Constant Settings	√
Bluetooth	√
Add/Subtract	√
Tilt Sensor	√
Digital level	√
Data Export	√

Memory	1000 Sets
Measuring Reference	Top/Tripod/Rear
Measuring Units	m/ft/in/ft+in
Auto Power Switch-off	After 180s
Screen Display	2.4" Colored Display
Screen Rotation	√
Laser Class	Class 2
Class Type	630-670nm,<1mW
Battery Type	3*AAA NI-MH rechargeable batteries
Operating Temperature	0°C~+40°C(32°F~+104°F)
Dimension(mm)	120*56.5*28

1. Measuring Range

The Maximum range shall be different according to different models. The actual range refers to the package.

2. Measuring Accuracy

If measuring under favorable conditions, such as smooth surface, proper temperature and indoor lighting, the device is able to work within certain range as indicated.

If measuring under unfavorable conditions, such as strong light, uneven surface and improper temperature, the tolerance will be enlarged.

Tips: In case of poor sunlight and bad reflection of the object, please use the target plate or reflector.

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Made in China

Mileseey has started researching, developing and manufacturing of high-quality optical products including laser measure, laser level, golf rangefinders, thermal and digital night vision monocular & goggles since 2009.

Having focused on the development, researching, and manufacturing for over 15 years, we strive to provide premium products and best customer services to make people's life easier and smarter.

Warranty

30-Day return and refund guarantee, 12-Month warranty, lifetime technique support by MILESEY.

Please feel free to reach us with any concerns.

Email: service@mileseey.com

We strive to reply to you within 24hours.

FCC Statement

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.

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.



MILESEEY®

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Made in China

R-R-MLY-DP20-PRO

FCC ID: 2AEOGS20



Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !