MiLESEEY®

ROCK K3 Series | User Manual

www.mileseey.net

Contents

●● Overview

MileSeey Rock K3 laser distance meter measures with +/- 1.5mm accuracy, integrates with tilt sensor and HD full color screen, which is specially designed for professional users. Initial adoption of li-ion battery, which greatly enhances battery usage life and can last for several years. In addition, it is green.

mOS V1.5, is an innovated and patented measuring system, which has vivid colorful screen, strong interactive interface, and has professional measuring functions. The various auxiliary functions and unique personal settings provide an excellent measuring experience and fun.

The built-in Bluetooth module transfers data from K3 to Android and iOS devices in real-time and enables remote control and photo-distance association.

The perfect combination of ergonomic and modern design fulfil a beautiful look and comfortable grasp. The Rock K3 is leading laser distance meter to a new era of professional measurement.

●● Power on and off

1.Power on
Long press ⚠ to power on the instrument and activate the laser. The single measuring interface will be displayed on the screen.

2.Power off manually
Long press 🔲 to power off the instrument.

3.Power off automatically
The instrument will be switched off automatically after three minutes of inactivity.

●● Buttons

1. OK / Confirm
2. Return / Cancel
3. Area / Volume / Pythagorean
4. Tilt / Auto Level / Auto Height / Triangle area
5. Go Left
6. Go Right
7. Go up / Addition(+)
8. Go down / Subtraction(-)
9. Bluetooth
10. Reference Point
11. Menu
12. Clear off / Power off
13. Power on / Measure

●● Reference Setup

The default reference setting: the bottom of the instrument.
Press ▯ to switch reference point between the top, tripod, bottom and end-piece of the instrument. There is a beep warning tone when reference point is changed. The reference point will return 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.
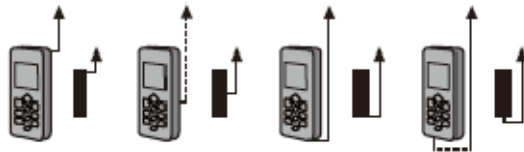
●● Measurement

1.Single Measurement

Press △ to activate the laser, and aim at the object which is to be measured and press △ again to take measurement. Results will be seen on display immediately.

2.Continuous Measurement(max/min distance)

Long press △ button to activate continuous measurement. Under this mode, minimum or maximum distance can be measured from a fixed measuring position by sweeping ideal points.

Note: Continuous measurement will stop after 5 minutes.
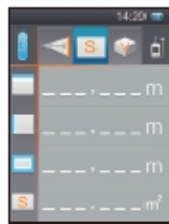
●● Functions

1.Area Measurement

Press ▭ once to activate area measuring function, the symbol S appears on display.

Press △ to take the first side distance measurement (e.g. Length).

Press △ again to take the second side distance measurement (e.g. width).

The results of length, width, perimeter and area will be seen on display orderly.

2. Volume Measurement

Press ⬜ twice to activate volume measuring function, the symbol ⬛ appears on display.

Press 🔺 to activate laser, and aim at the target, press again to take the first side distance measurement (e.g. Length). Then respectively press 🔺 to measure the width, and then height, the result of volume will be displayed in the summary line.
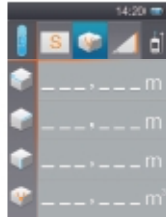
3. Addition/Subtraction

■ Distance

Distance

(1) Make a measurement of a distance.

(2) Press ⬆ addition button, the next measuring data will be added to the former one.

(3) Press ⬇ subtraction button, the next measuring data will be subtracted from the former one.

The operation can be repeated, result will be displayed in the main area of the screen.

■ Area/Volume

(1) Make a measurement of area or volume at first.

(2) Press ⬆ addition button, and measure the second area/volume, the next one will be added to the former one.

(3) Press ⬇ subtraction button, and measure the second area/volume, the next one will be subtracted from the former one.

■ Indirect Measurement

This device can measure distance to inaccessible points, such as the distance to a wall which is blocked by obstacles, or the height

of a tree, using trigonometric function. To ensure measuring accuracy, indirect measurement should be based on the following conditions:
(1) The measuring points of the object which is to be measured should be on the same horizontal or vertical line.
(2) Put the device at a fixed but horizontally and vertically rotary tripod.

4.Indirect Measurement: Pythagoras Two Points

As shown in Figure (A), if user wants to measure the height of the line 3, he can use Pythagoras Two Points to calculate the height.
(1) Press ▢ three times, the symbol ◿ appears on display.
(2) Press △ to activate laser and aim at the point which is to be easured.
(3) Press △ again to take the first measurement (1), and again to take the second measurement (2).
(4) The height of line 3 (third side of triangle), first and second distance value will be seen on display.
Note:
※ The device will automatically determine the longer distance as triangle's hypotenuse, and shorter distance as right-angle side.
※ When measuring right-angle side (Distance 2 in Figure A), user should ensure laser beam is right-angled to the target line.
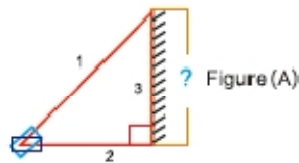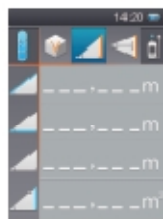
Figure (A)

5.Indirect Measurement: Pythagoras Three Points

As shown in Figure (B), if user wants to measure the height of the line 4, he can use Pythagoras Three Points to calculate the height.
(1) Press ▢ four times, the symbol ◁ appears on display.

(2) Press △ to activate laser and aim at the point which is to be measured.

(3) Press △ again to take the measurement from first (1), second (2) to third (3).

(4) The height of line 4, first, second and third distance value will be seen on display.

Note:

※ The device will automatically determine the longer distance as triangle's hypotenuse, and shorter distance as right-angle side.

※ When measuring right-angle side (Distance 2 in Figure B), user should ensure laser beam is right-angled to the target line.
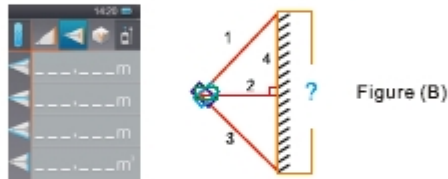
Figure (B)

6.Angle Measurement

Press button ◢, the symbol ◢ appears in the function field. As shown in Figure (C), press △ to measure the tilt and the distance.
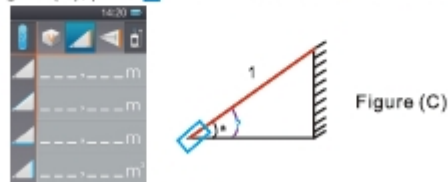
Figure (C)

7.Auto Horizontal Measurement

Press ◢ twice, the symbol ◢ appears on display. Press △ to measure tilt and hypotenuse distance (1), results of tilt, distance of hypotenuse and two right-angle sides will be seen on display. Refer to Figure (D).
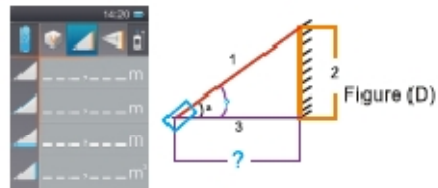
Figure (D)

8.Auto Height Measurement

Press ⊿ three 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 Figure (E).
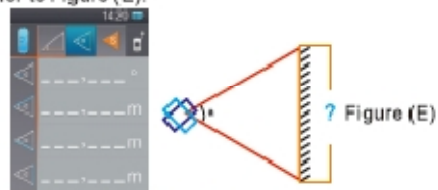
Figure (E)

9.Triangle Area Measurement

As shown in Figure (F). Press ⊿ four times, the symbol ◁ appears in the functional area. Press ⚠ button to measure three sloping sides respectively, the area of triangle will be displayed in the result bar.

Figure (F)
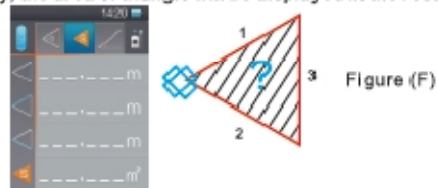
10.Bluetooth

Rock K3 laser distance meter's Bluetooth is used for interactions with Android and iOS devices on their corresponding App, such as data transfer, remote control and more. The following information is to guide how to enable the Bluetooth function. For more

information on the detailed function, operating steps, please refer the Android or iOS App.

Users can go to Bluetooth functions by the following two methods:

(1) Shortcut

Long press 🄱 until Bluetooth icon flickers on the status bar, meaning Bluetooth is enabled and waiting for connection.

(2) Menu

Press **MENU** , use the arrow keys to navigate and select Bluetooth and press**OK**.

Press ⬆ or ⬇ to switch on or switch off the Bluetooth, and press**OK** to save the setting, or press ⮌ to quit the setting without saving.

Bluetooth APP downloading address: www.mileseey.net

🟠🔵 Menu

Press **MENU** to go to function menu which lists all of Rock K3's functions by 3*3 icons per page.

Use arrow keys to select the desired function.

1.Staking Out Measurement

Press **MENU** , use the arrow keys to navigate and select "Loft" and press**OK**.

Press ⬅ or ➡ to move cursor and select corresponding number.

Press ⬆ or ⬇ to increase/decrease the value until the desired distance is reached.

Press **OK** and start Staking out measurement.

Move the instrument along the staking out line, the screen shows the distance in real-time. When approaching the preset distance within 0.1m, the instrument starts buzzing. The status bar will show icon ⌃ or ⌄ to indicate which is the right direction to reach the appointed distance.

2.Timer

Press **MENU** , use the arrow keys to navigate and select "Timer" and press **OK** .

Press ⬅ or ➡ to move cursor and select corresponding number.

Press ⬆ or ⬇ to increase/decrease the exact time value.

Press **OK** and start timing measurement.

The countdown (e.g. 10, 9, 8…) is displayed and the last 5 seconds are counted down with a beep. After the last beep the measurement is taken and the value is displayed.

3.Historical Data

■ View historical record

Press **MENU** , use the arrow keys to navigate and select "Record",

to call up the function, press ↑ or ↓ to select the measurment type, press ← to enter the record of this type, press ↑ or ↓ to select one record and press ▊▌ to read details, including data type (locked/unlocked), date, time, measurement function, measurement types, corresponding result, additional information.

■ Delete historical record

1) Delete by batch

When viewing historical data, and a measurement type is selected, user can press ▓▓, then press ▊▌ to delete all the historical records belonging to this measurement type.

2) Delete one by one

Press ↑ or ↓ to browse the record, then press ▓▓, and then press ▊▌ to delete the record.

■ Historical data lock / unlock

Usually the instrument saves a limited number of measurement data, and automatically delete the oldest data when new data comes in. "Data locking" function enables user to save data permanently except user deletes it manually from memory.

Press ↑ or ↓ to browse the records, then repeatedly press 🗔 to lock and unlock the record.

4. Thermometer

Press **MENU**, use the arrow keys to navigate and select "thermometer", and press ▊▌.

Current temperature of instrument in the environment will be displayed on the screen.

Press ⮌ to return to the menu.

5. Level

Press **MENU**, use the arrow keys to navigate and select "level", and press ▊▌.

Three mercury columns represents X, Y and 45° axis, also the degree value is displayed.

Press ⮌ to return to menu.

6. Bubble

Press **MENU**, use the arrow keys to navigate and select "Bubble", and press ▊▌.

Press ↑ or ↓ to select "Yes" or "No" to switch on or switch off the leveling bubble.

Press **OK** to save the setting or press **↩** to exit without saving.

7.Measuring Unit

Press **MENU** , use the arrow keys to navigate and select "Unit", and press **OK** .
Press **↑** or **↓** to change the distance unit between m, ft., in, ft. + in, and press **OK** to save the setting, or press **↩** to exit without saving.
Remark: System default measuring unit is m.

8.Angle Unit

Press **MENU** , use the arrow keys to navigate and select "Angle-unit", and press **OK** .
Press **↑** or **↓** to select the unit between two kinds of angel unit available: +/- 0.0° or 0.00%.
Press **OK** to save the setting, or press **↩** to exit without saving.
Remark: System default angle unit is:+/- 0.0°

9.Language

Press **MENU** , use the arrow keys to navigate and select "Language", and press **OK** .
Press **↑** or **↓** to select the language between "Chinese" and "English".
Press **OK** to save the setting, or press **↩** to exit without saving.

10.Constant

Press **MENU** , use the arrow keys to navigate and select "Const", and press **OK** .
Press **←** or **→** to move cursor and select corresponding number.
Press **↑** or **↓** to increase/decrease the exact value.
Press **OK** to save the setting, or press **↩** to exit without saving.
Note:
All measuring results will be added or subtracted the constant;
tolerance will be calculated into the result.

11.Beep

Press **MENU** , use the arrow keys to navigate and select "Beep", and press **OK** .
Press **↑** or **↓** to select "Yes" or "No" to switch on or switch off the beep.
Press **OK** to save the setting, or press **↩** to exit without saving.

12. G-Sensor

Press **MENU**, use the arrow keys to navigate and select "G-sensor", and press **OK**.

The built-in tilt sensor can be automatically calibrated. Calibration requires two measurements on a level surface.
1) Put the instrument on a flat surface, press **OK** button.
2) Rotate 180 degree, then press **OK** button. The sensor is calibrated.

13. Date Settings

Press **MENU**, use the arrow keys to navigate and select "Date Setting", and press **OK**.
Press ↑ or ↓ to select the corresponding place.
Press ↑ or ↓ to increase/decrease the exact value.
Press **OK** to save the setting, or press ↩ to exit without saving.

14. Brightness

Press **MENU**, use the arrow keys to navigate and select "Brightness", and press **OK**.
Press ↑ or ↓ to adjust brightness.
Press **OK** to save the setting, or press ↩ to exit without saving.

15. Reset

Press **MENU**, use the arrow keys to navigate and select "Reset", and press **OK**.
Press ↑ or ↓ to select "Yes" or "No" to confirm whether resetting instrument.
Press **OK** to reset, or press ↩ to exit without saving. After reset, all personal settings will be deleted, and set to default settings.

16. About Us

Press **MENU**, use the arrow keys to navigate and select "About us", and press **OK**.
There is some relevant information of software, such as software version number, ownership, and so on. Go back to the menu system by clicking ↩.

●● Troubleshooting

Code	Cause	Corrective Measure
204	Calculation error	Refer to user menu, repeat the procedures.
208	Current for LD out of range	If cannot be solved after several times of reboot, meaning the instrument is out of work, please contact your distributor.
220	Battery low	Replace new batteries.
252	High temperature	Keep instrument within 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 and uncertainty error	Switch on/off the device several times. If the symbol still appears, then your instrument is defective. Please contact your distributor.

●● Function List and Specifications

Specifications	Rock K3
The maximum measurement range	0.05~200m
Typical measuring accuracy	±1.5 mm
Measuring units	m/ft/in/ft+in
Laser class	Class 2
Laser type	635 nm, < 1mW
Area/Volume/Pythagoras /Add/Subtract	✓
Tilt/Auto level/ Auto Height/Staking out	✓
Beeper	✓
Backlight	✓
mOS	V1.5
Historical data	1000 sets
Button class	Metal dome array
Button life	Over 500,000 times
Battery type	Lithium battery
Battery life	15,000 measurement times
Ingress protection	IP65
Operating temperature	0°C~40°C
Storage temperature	−10°C~60°C

LCD Resolution	QVGA(320*240)
USB	Online upgrade, Data export
Auto laser off	30 seconds
Auto instrument off	180 seconds
Dimensions	125*53*32(mm)
Weight	160g

Note:
1.Range: 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.In bad daylight or reflection situations, please use the target plate or better reflective surface.
2.Accuracy: In favorable conditions (good target surface properties, room temperature), measuring range is up to 100m. In unfavorable conditions, such as intense sunshine, poorly reflecting target surface (black surface) or high temperature variations, the deviation over 10m distance may increase.

●● Warranty

1.Maintenance
Do not use aggressive cleaning agents or solutions. Remove the battery before long period of non-use.

2.Warranty
The MILESEEY ROCK K3 comes with a one year warranty from MILESEEY Technology Limited. More detailed information at www.mileseey.net

3.Contact
Address: F/6, Buliding 9, Zhongguan Honghualing industrial South Park II, 1213 Liuxian Ave, Taoyuan Street, Nanshan District, Shenzhen, 518055. P.R. China.
Tel:+86-755-86329055   Fax:+86-755-86701592
Website:ww.mileseey.net   Email: info@mileseey.net

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.