& SNDWAY

深达威[®] 手持式激光测距仪 Laser Distance Meter

> 用户手册 User Manual



SW-M30A



SW-M30B









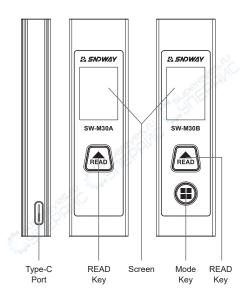


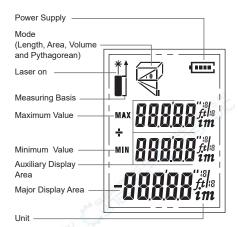
Safety Regulations

Please read the safety regulations and operation guide carefully before operating.

- Please read all of the operational guide and safety regulations in this manual before operation. Improper operations without complying with this manual may cause damage to the device, influence on measurement result or cause personal injury to the user or a third party.
- The instrument is not allowed to disassemble or repair in any ways. It is forbidden to do any illegal modification or performance change for laser emitter. Please keep it out of reach of children and avoid being used by any irrelevant person.
- ↑ It is strictly prohibited to shoot eyes or other parts of body with the laser. It is not allowed to take the laser to shoot the surface of any highly reflective objects.
- ∆ Due to electromagnetic radiation interference to other equipment and devices, please don't use the meter in the plane or around medical equipment, don't use it in inflammable. explosive environment.
- ⚠ Discarded meter device should not be processed just like. household garbage, please handle it in line with related law and regulations.
- Any quality issues or any questions on the meter, please contact local distributors or manufacturer in time, we are ready to offer solutions for you.

Product introduction





Lithium Battery

- The built-in 3.7V 220mAh lithium battery is nonremovable. The instrument has its own charging circuit, with clear undervoltage indication and charging indication.
- Battery charging: The charging head should be of good quality and DC5V >0.5A output. It is recommended to use the mobile phone charging head for charging.

Battery Maintenance

Keep it with full power if no operations for a long time; and charge it once every half year to avoid the battery damage.

Start the Instrument / Menu Setting

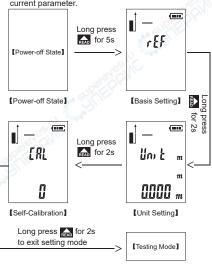
Turn on/off the Instrument

Turn on: Under off state, short press and, device and laser get started simultaneously and the device enters the measurement mode.

Turn off: If no operation is performed within 150s, the instrument will shut down automatically. Or long press for more than 5s to turn off it.

Function Setting

- 1. Enter baseline Settings: In the shutdown state, long press for 5s.
- 3. Modify the setting parameters: Press to modify the current parameter.



• Changing Reference Point

In the basis setting state, short press to change the reference point. The default reference point is the terminal baseline.

Unit Setting

In the unit setting state, short press to switch the measurement unit. There are 6 units for selection.

| | Length | Area | Volume | |
|---|------------|----------------------|----------------------|--|
| 1 | 0.000 m | 0.000 m ² | 0.000 m ³ | |
| 2 | 0.00 m | 0.00 m ² | 0.00 m ³ | |
| 3 | 0.0 in | 0.00 ft ² | 0.00 ft ³ | |
| 4 | 0 1/16 in | 0.00 ft ² | 0.00 ft ³ | |
| 5 | 0'00" 1/16 | 0.00 ft ² | 0.00 ft ³ | |
| 6 | 0.00 ft | 0.00 ft ² | 0.00 ft ³ | |

Self-Calibration

To ensure the precision of the instrument, a self-calibration function is provided.

Calibration method: In the self-calibration state, press and to adjust the self-calibration value. The default self-calibration value of the instrument is 0, when the value is adjusted to 9, then press in the instrument, long press is 2s to save the calibration result.

For example, the actual distance is 3.780m.

If the measured value is 3.778m, 2mm smaller than the actual value, the calibration value can be adjusted up by 2mm on the existing basis with the through the calibration function.

If the measured value is 3.783m, 3mm larger than the actual value, the calibration value can be lowered by 3mm on the existing basis with through the calibration function.

Single Distance Measurement

Under the test mode, press , and the instrument emits laser to lock the measuring point. Press again for single distance measurement, and the measurement result will be displayed in the major display area.

Continuous Measurement

In the testing mode, long press for 2s to enter the continuous measurement mode. The auxiliary display area will show the maximum and minimum measurement values during the measurement process.

Area Measurement(Only SW-M30B)

In the testing mode, press \blacksquare once to switch to the area measurement function. The screen displays \square , and one side of the rectangle flashes. Follow the prompts to complete the measurements:

Press to measure the first side (length);

Press to measure the second side (width);

The instrument will automatically calculate the area and the result is displayed on the screen.

Volume Measurement(Only SW-M30B)

In the testing mode, press \coprod twice to switch to the volume measurement function. The screen displays \boxminus , and one side of the cubic flashes.

Follow the prompts to complete the measurements:

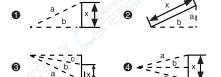
Press to measure the first side (length);

Press to measure the second side (width);

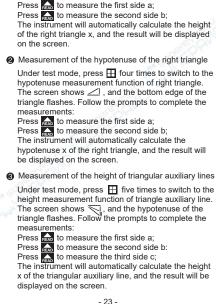
Press to measure the third side (height);

The instrument will automatically calculate the volume and the result is displayed on the screen.

Pythagoras(Only SW-M30B)



There are four Pythagoras modes which is convenient for indirect measurement in a specific complex environment.



Measurement of the height of right triangle Under test mode, press H three times to switch to the height measurement function of right triangle. The screen displays / and the hypotenuse of triangle flashes. Follow the prompts to complete the

measurements:

In the state of area, volume and pythagorean measurement state, long press

to return to the straight-line distance measurement mode

result is displayed on the screen.

Tips

If <code>frrX</code> is displayed on the screen, it indicates that the measurement failed. Press again to measure again. The error messages are shown in the following table:

| Prompt | Cause | Solution | | |
|-----------------------------------|---------------------------------------|--|--|--|
| Err1 | Signal is too weak | Choose the surface with stronger reflection. Use the reflecting plate. | | |
| Err2 | Signal is too strong | Choose the surface with weaker reflection. | | |
| Err3 | Low battery voltage | Charge the battery | | |
| Err4 | Beyond working temperature | Use the device in the specified temperature. | | |
| Err5 | Pythagoras measuring breaks the rules | Re-measure and ensure that hypotenuse is longer than legs. | | |
| Err6 Out of the measurement range | | Use the device within the measurement range | | |

Specification

| ITEM | SW-M30A | SW-M30B | |
|----------------------------------|-----------------------------------|---------|--|
| Measurement Range | 0.05-30m | | |
| Precision | ±(5mm+d*1/10000) (Note 1) | | |
| Minimum Unit | 0.001m | | |
| Continuous Measurement | ✓ | | |
| Area/Volume Measurement | X | V | |
| Pythagorean Measurement | X | 40000 | |
| Max/Min Value | ✓ | | |
| Self-Calibration | ✓ | | |
| Laser Type | Class II 630-670nm, <1mW | | |
| Automatically Cut off Laser | 20s | | |
| Auto Power-off | 150s | | |
| Storage Temperature | -20°C~60°C | | |
| Working Temperature | 0°C~40°C | | |
| Storage Humidity | 20%~80%RH | | |
| Battery | 3.7V 220mAh lithium battery | | |
| Charge and Discharge Times | 500 times | | |
| Charging Specification | DC 5V >0.5A, Type-C USB interface | | |
| Full Charge Measurement Times | 5000 times | | |
| Screen | Segment LCD | | |
| Dimension | 85x23x11.5mm | | |

Note 1: "d" indicates the actual distance.

In harsh environment, such as: sunlight is too strong, the ambient temperature fluctuates excessively, the reflection effect of the object's surface is weak, the battery is low, the measurement results will have a large error, so a reflecting plate is needed.

Instrument Maintenance

- The meter should not be stored in high temperature and humid environment for a long time. If it is not used very often, please place the meter in the box and store it in cool and dry place.
- Please keep the device surface clean. Use a soft wet cloth to wipe the dust on the surface. Do not use corrosive liquid to clean the device. Use the same method as wiping optical devices to wipe the meter and focusing mirror.

Packing List

Please check if all accessories are complete according to the following list.

| No. | Item | Unit | QTY | Note |
|-----|--------------|------|-----|------|
| 1 | Meter | рс | 1 | |
| 2 | User Manual | рс | 1 | |
| 3 | Gift Box | рс | 1 | |
| 4 | Type-C Cable | рс | 1 | |

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