# Laser Distance Meter

## INSTRUCTION MANUAL

NF-2050

NF-2030

ORIGINAL AUTHENTIC

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**Please read the complete instructions including safety precautions before attempting any testing.**

⚠ Please read all of the operational guide and safety regulations in this manual before operation. Improper operations without complying with this manual guided could cause damage to the device, influence on measurement result or bodily injury to the user.

⚠ The instrument is not allowed to disassemble or repair on 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 using by any irrelevant personnel.

⚠ 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 any objects' surface with strong reflecting.
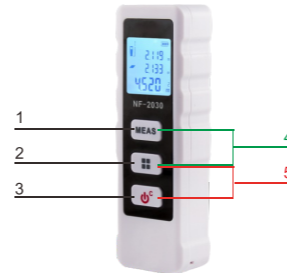
⚠ Due to electromagnetic radiation interference to other equipment and devices, please don't use the meter in the plane or around medical equipment, don't use it in inflammable, explosive environment.

⚠ Discarded batteries or meter device shall not process just like household garbage, please handle them 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.

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## Overview

This series of devices are designed to measure Distance ,Area,Volume. which is mainly applied in indoor decoration and design, building construction.

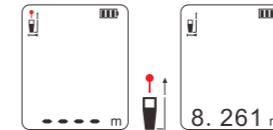| 1 | Measure (short press: single measurement; long press: continous measurement ) |
|---|---|
| 2 | Function switch (short press: distance/area/volume measurement ; long press: unit switch) |
| 3 | Return / Power button (short press: return; long press: power on or off) |
| 4 | Record query (press the two buttons together) |
| 5 | Reference point (press the two buttons together) |

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## Operation

### 1. Power on or off

Long press ⏻ for 2 secs to turn on or off the device.
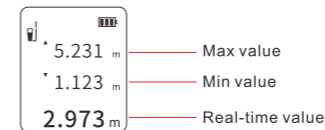
### 2. Single measurement

short press MEAS to start laser, short press MEAS again to start measuring.
Then the result will display on the screen immediately.

8. 261 m

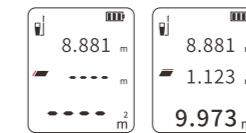During work mode, the red icon will flicker, otherwise, it would be invisible.

### 3. Continous measurement

Long press MEAS for 2 secs to enter continous measurement mode, the real-time Max & Min value will be on the screen. ( below image)
In this mode, press MEAS or ⏻ button to stop measurement. or it will stop if no operation after 3mins.
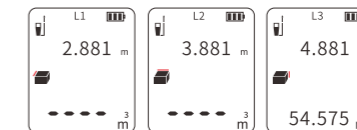
5.231 m — Max value
1.123 m — Min value
2.973 m — Real-time value

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### 4. Area measurement

Press ▦ , it enters area mesurement mode when ▱ displays on the screen , then short press MEAS to measure the length and width accordingly, the device will cacluate the area value automatically and display the value on the screen.

8.881 m
- - - - m
- - - - m²

8.881 m
1.123 m
9.973 m²

### 5. Volume measurement

Press ▦ , it enters volume mesurement mode when ▱ displays on the screen , then short press MEAS to measure the length ,width and heigth accordingly, the device will caculate the volume value automatically and display the value on the screen.

L1 2.881 m
- - - - m³

L2 3.881 m
- - - - m³

L3 4.881 m
54.575 m³

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### 6. Unit switch

Long press ▦ for 2 secs, then you can select the preferred unit.
0.000m → 0.00m→0.00ft, →0.0 in→0'00"$^{1/16}$

### 7. Benchmark

Press ▦ + ⏻ together, you can set the benchmark to measure from the front side , or from the end side.

### 8. Record query

Press ▦ + MEAS together, you can query the datas measured before. then short press ▦ to read the records. press MEAS or ⏻ button to quit.

## Accessories

| 1 | Laser distance mete | 1pc |
|---|---|---|
| 2 | 1.5V AAA battary | 2pcs |
| 3 | User manual | 1pc |
| 4 | Hanging rope | 1pc |
| 5 | Qualification certification | 1pc |

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## Specification

| Model | NF-2030 | NF-2050 |
|---|---|---|
| Range | 0.2-30m | 0.2-50m |
| Accuracy | ±1.5mm | |
| Output | <1mW | |
| Wavelength | 620-680nm | |
| Test time | 0.2~3S | |
| LCD screen | FSTN with backlight | |
| Buttons | MEAS,FUNC,POWER | |
| Units | m/ft/in/ft+in | |
| Benchmark | ✓ | |
| single/continuous measurement | ✓ | |
| Distance/Area/ Volume measurement | ✓ | |
| Data storage | 20 sets | |
| Laser auto-off | 30s | |
| Auto-off time | 2mins | |
| Power supply | 1.5V AAA*2 | |
| Working temperature | 0℃～40℃ | |
| Protection level | IP40 | |
| Size | 20*34*105mm | |
| Weight | 44g | |

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## Error reasons and solutions

| Code | Reason | Solution |
|---|---|---|
| 203 | High or Low Temperature | Measure at the required temeprature range |
| 220 | Low battary | Replace new battary |
| 254 | Wrong caculation | Measure again in correct operation |
| 255 | Weak singal | Test strong reflection ability of target |
| 256 | Strong signal | Don't measure under strong light |
| 257 | Out of measure range | Measure within the range |
| 300 | Hardware error | Restart, or contact dealer if it happens again |

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## Overview--Laser distance meters

NF-2140    NF-2170    NF-2100

NF-2650    NF-2680    NF-271

NF-2130L    NF-2330    NF-2230

NF-272L    NF-273L    NF-274L