

*Your excellent helper in  
laser distance test!*

**NEW!**

## **Laser Distance Meter**

### **INSTRUCTION MANUAL**



*Your excellent helper in laser distance test*



**NF-271**



**NF-272L**



**VER: V1**



**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.

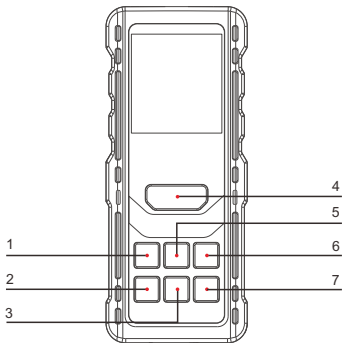
**⚠** Any quality issues or any questions on the meter, please contact local distributors or manufacturer in time, we are ready to offer solutions for you.

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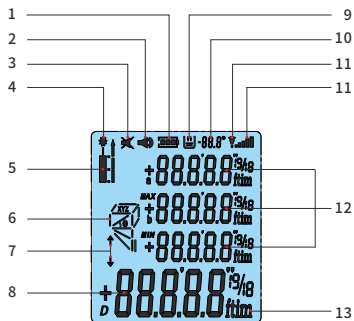
## Overview

NF-271 designed to measure Distance, Area, Volume, Pythagorean measurement, which is mainly applied in indoor decoration and design, building construction. In these basic functions, NF-272L has upgraded many more functions, such as Level measurement, Vertical measurement, Voice broadcast, Degree measurement and so on.



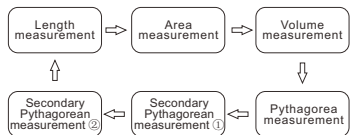
1	Add	2	Subtract
3	Power & Clear	4	Measure
5	Menu	6	Benchmark & Unit switch
7	Record query & setting		

## 1. Display instruction

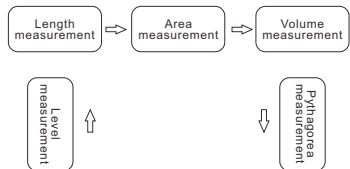


1	Battery condition	7	Setting
2	Beep	8	Display
3	Buzzer (271)	9	Data storage
	Voice broadcast (272L)	10	Data storage number (271)
4	Laser function opener		Degree (272L)
5	Benchmark point	11	Signal
6	Area/volume/Pythagorean	12	Auxiliary indicator
		13	Unit

## 2. Product features



NF-271



NF-272L

## 3. Operation instructions


### 3.1. Turn on & off

Long press "  " 2s to turn on,

Long press "  " 2s to turn off.

### 3.2. Single measurement

Press "  " turn on the laser and Press "



 " again, the result will display on the screen.

### 3.3. Continuous measurement



Long press "  " 2s to go in, the MAX & MIN will show. Press "  " or "  " to quit.

Besides, it will stop if no operation after 3mins.



### 3.4. Area measurement

Press "" to go in when the testing mode in Single measurement, and Press "" to get the length & width, then it will work out the area on the screen.

### 3.5. Volume measurement



Press "" to go in when the testing mode in Area measurement, and Press "" to get the length & width & height values, then it will work out the volume on the screen.

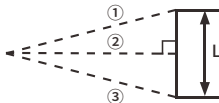
### 3.6. Pythagorean measurement

Press "" to go in when the testing mode in Volume measurement, then press "" to get the ① & ② values, it will work out the height "L" on the screen.





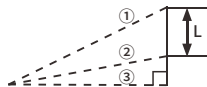
### 3.7. Secondary Pythagorean measurement "①"

Press "" to go in when the testing mode in Pythagorean measurement, then press "" to get the ① & ② & ③ values, it will work out the height "L" on the screen.



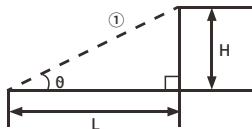
### 3.7. Secondary Pythagorean measurement "②"

Press "" to go in when the testing mode in Pythagorean measurement ①, then press "" to get the ① & ② & ③ values, it will work out the height "L" on the screen.



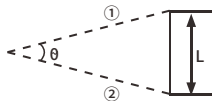
### 3.8. Level measurement (Only for NF-272L)

Pres " $\text{MEAS}$ " to go in when the testeing mode in Pythagorean measurement ②, then press " $\text{MEAS}$ " to get the ①, it will automatically calculate the angle degree between the hypotenuse and the horizontal edge, vertical Length "H" and horizontal length "L".



### 3.9. Vertical measurement (Only for NF-272L)

Pres " $\text{MEAS}$ " to go in when the testeing mode in Level measurement, then press " $\text{MEAS}$ " to go in, then press " $\text{MEAS}$ " to get the ① & ② length, it will work out the degree " $\theta$ " and length "L".



### 3.10. Addition & subtraction measurement

Under the Single, Area, Volume measurement mode, press " $\text{MEAS}$ " to get a result "A", then press " $+$ " or " $-$ ", press " $\text{MEAS}$ " again to get a another result "B", then it will auto matically calculate the value ("A+B" or "A-B").

### 3.11. Unit switching

Long press " $\text{UNIT}$ " 2s to switch the unit, optional from (0.000m $\rightarrow$ 0.00m $\rightarrow$ 0.00ft $\rightarrow$ 0'00"% $\rightarrow$ 0.0in $\rightarrow$ 0%in)

### 3.12. Benchmark switching

Press " $\text{BENCH}$ " to go in, you can set the benchmark to measure from the front side ①, or from the end side ②.

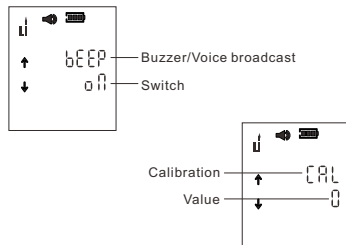


### 3.13. Unit switching

Press "**MEAS**" to go in, you can query the data measured before. Then press "**MEAS**" or "**CLEAR**" to quit.

### 3.14. Setting

Press "**MEAS**" 2s to go in, the flashing arrow on the screen indicates that the Buzzer/Voice broadcast switch setting has been entered. By press "**+**" or "**-**" to adjust the Off/On. Then press "**MEAS**" to go voice calibration setting, by press "**+**" or "**-**" adjust the parameters. Press "**CLEAR**" to quit.



## 4. Specification

Model	NF-271	NF-272L
Range	50m 70m	60m 80m 100m
Accuracy	+/-1.5 mm	
LCD screen	FSNT with backlight	
Wavelength & Output	620~680nm, <1mw	
Working temperature	0~40°C	
Storage temperature	-20~60°C	
Laser Off	30s	
Auto-off	2minutes	
Protection level	IP54	
Power	AAA	850mAh Lithium battery
Voice broadcast	×	✓
Degree measurement	×	✓
Level measurement	×	✓
Unit switching	m/ft/in/ft+in	
Benchmark switching	✓	
Single measurement	✓	
Continuous measurement	✓	
Area measurement	✓	
Volume measurement	✓	
Pythagorean measurement	✓	
Vertical measurement	×	✓
Addition & subtraction measurement	×	✓
Data storage	50 sets	99 sets
Size	119*50*26mm	
Weight	100g	

## 5.Packing List

1	Packing List	1pcs
2	Carry bag	1pcs
3	USB cable	1pcs
4	Reflector board	1pcs
5	AAA battery	3pcs
6	Manual	1pcs
7	Qualification certification	1pcs

## 6.Error reasons and solutions

Code	Reason	Solution
203	High or low temperature	Measure at the required temperature range
220	Low battery	Replace new battery
254	Wrong calculate	Measure again in correct operation
255	Weak signal	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	harware error	Restart, or contact dealer if it happens again

## Overview--Laser distance meters



NF-2140



NF-2170



NF-2100



NF-2050



NF-2330



NF-2030



NF-2130L



NF-2650



NF-2230



NF-2680



NF-273L



NF-274L