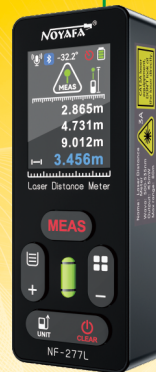


NF-277L

LASER DISTANCE METER

INSTRUCTION MANUAL



NF-277L



VER: V2



Please read and understand the safety precautions before using or maintaining the equipment.

- Do not open or repair the instrument in any way. It is strictly prohibited to illegally modify or change the performance of the laser transmitter of the instrument. Please keep the instrument properly and do not place it in the place where children can reach it.
- Do not use the instrument laser to illuminate your own or other people's eyes and other parts of the body, and do not shine the laser on the surface of highly reflective objects.
- The electromagnetic radiation of the instrument may cause interference to other equipment and devices. Please do not use the instrument near aircraft or medical equipment, and do not use the instrument in flammable and explosive environments.
- Dispose of discarded batteries and instruments in accordance with your local laws and regulations.
- When the battery symbol blinks, charge it in time.

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Overview

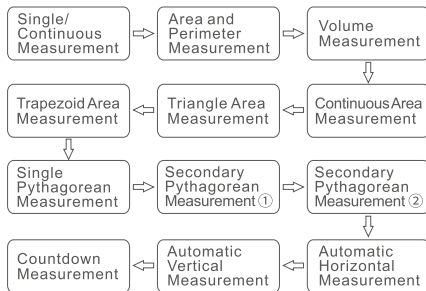
The NF-277L laser distance meter can measure distance, length, height, and spacing, as well as calculate area and volume.

It also includes functions for triangle area measurement, trapezoid measurement, Pythagorean measurement, automatic horizontal measurement, automatic vertical measurement, countdown measurement, sound alerts, record saving, level bubble, green cross line, and Bluetooth. This measuring instrument is suitable for both indoor and outdoor measurement tasks.



NF-277L


Product Functions




NF-277L (Green Light) Measurement Functions

Instructions for Use

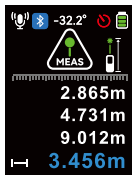
1. Turn on & off

Power On: Press and hold the "  " button for 2 seconds to turn on.

Power Off: Press and hold the "  " button again for 2 seconds to turn off.

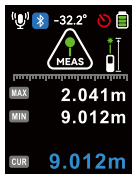
2. Single Measurement

Short press "MEAS" to activate the laser. Press "MEAS" again to perform a single measurement. The current result will be displayed on the main line.



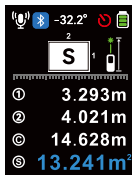
3. Continuous Measurement

Press and hold "MEAS" for 1 second to enter continuous measurement mode. The maximum and minimum values will be displayed. In continuous measurement mode, short press "MEAS" or "CLEAR" to stop continuous measurement.



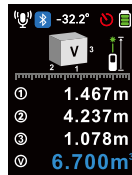
4. Area and Perimeter Measurement

In non-area and volume measurement modes, short press " " once to enter area and perimeter measurement mode. Short press the "MEAS" button to measure the width (1) and length (2) for the area and perimeter. The area (S) and perimeter (C) will be calculated, with the area (S) displayed on the main line.



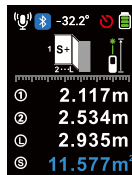
5. Volume Measurement

In area measurement mode, short press " " once to enter volume measurement mode. Short press "MEAS" to measure the length (L), width (W), and height (H) of the volume. The calculated volume (V) will be displayed on the main line.



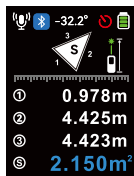
6. Continuous Area Measurement

In volume measurement mode, short press " " once to enter continuous area measurement mode. Short press "MEAS" to measure the wall height. Press "MEAS" again to measure the width (W1) of wall 1, and the instrument will automatically calculate the area of the wall as height × W1. Press "MEAS" to measure the width of wall 2, and the instrument will automatically calculate the total area of the walls as height × (W1 + W2). This process can be repeated: total area = height × (W1 + W2 + W3 + ... + Wn).



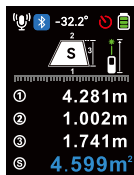
7. Triangle Area Measurement

In continuous area measurement mode, short press " \blacksquare " once to enter triangle area measurement mode. Short press "**MEAS**" to measure the lengths of the three sides of the triangle (①②③). The instrument will calculate the area of the triangle (S) and display it on the main line.



8. Trapezoid Area Measurement

In triangle area measurement mode, short press " \blacksquare " once to enter trapezoid area measurement mode. Short press "**MEAS**" to measure the lengths of the two parallel sides ①, ② and the height ③. The instrument will calculate the area of the trapezoid (S) and display it on the main line.



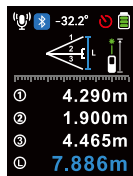
9. Single Pythagorean Measurement

In continuous area measurement mode, short press " \blacksquare " once to enter single Pythagorean measurement mode. Short press "**MEAS**" to measure the hypotenuse length ① and the horizontal side length ②. The instrument will calculate the length of the other vertical side (L) and display it on the main line.



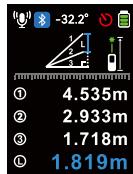
10. Secondary Pythagorean Measurement ①

In single Pythagorean measurement mode, short press " \blacksquare " once to enter Secondary Pythagorean measurement ① mode. Short press "**MEAS**" to measure the lengths of the hypotenuse ①, horizontal side ②, and another hypotenuse ③. The instrument will calculate the length (L) between points ① and ③ and display it on the main line.



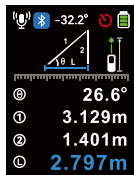
Secondary Pythagorean Measurement ②

In Secondary Pythagorean measurement ① mode, short press " \blacksquare " once to enter Secondary Pythagorean measurement ② mode. Short press "**MEAS**" to measure the lengths of the two hypotenuses ①②, and the horizontal side ③. The instrument will calculate the length (L) between points ① and ② and display it on the main line.



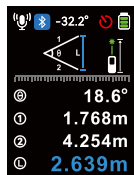
11. Automatic Horizontal Measurement

In trapezoid measurement mode, short press " \blacksquare " once to enter automatic horizontal measurement. Short press "**MEAS**" to measure the length of the inclined side 1. The Instrument will automatically measure the angle (θ) between the inclined side and the horizontal side, calculate the vertical length 2, and the horizontal length (L), and display them on the screen.



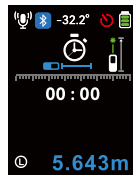
12. Automatic Vertical Measurement

In automatic horizontal measurement mode, short press " \blacksquare " once to enter automatic vertical measurement. "**MEAS**" Short press to measure the length of the first inclined side ① and the second inclined side ② of the vertical surface. The instrument will automatically measure the angle (θ) between the two inclined sides and calculate the length (H) between points ① and ②, displaying it on the main line.



13. Countdown Measurement

In automatic vertical measurement mode, short press " \blacksquare " once to enter countdown measurement. Use the "+" and "-" buttons to adjust the countdown time. Press "**MEAS**" to start the countdown measurement. When the countdown time elapses, the length (L) will be automatically measured and displayed on the main line.



14. Settings


In the single measurement interface, long press the " \blacksquare " button for 3 seconds to enter the settings. Short press the " \blacksquare " button to switch between settings, and press the "+" or "-" buttons to adjust parameters. Press the "**CLEAR**" button to exit.

Setting	
Language	English
Bluetooth	NO
Voice	NO
Dist Offset	0mm
Tilt Offset	0.0°
Roll Offset	0.0°
Auto Off	3min
About	10min

15. Addition and Subtraction

Only in single measurement, area measurement, and volume measurement modes, after obtaining a result, short press "+" or "-" the button to enter addition and subtraction calculation measurement. Press "**MEAS**" to calculate another result, then the two results will be used for addition or subtraction, and the result will be displayed on the main line.

16. Unit Conversion

Press and hold the "  " button for 2 seconds to initiate unit conversion.

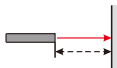
UNIT(0.000m→0.00ft→0in→0'00")

17. Reference Switch

Press the "  " button to switch between front and rear references.



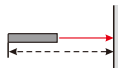
Front End Reference



Measure the distance from the front end of the device







Rear End Reference





Measure the distance from the rear end of the device

18. Record Saving, Viewing, and Deleting

After measurement completion, short press "  " to save the record. Long press "  " to enter record viewing mode. Use the "+" and "-" buttons to browse through the historical records. Long press the combination keys "  " + "  " for 3 seconds to delete all records.

19. Cross Line Functionality

Long press the " + " button for 2 seconds to enter the cross line function. Press "  " to test, and press "  " to exit.

Note: The cross line laser is strong, do not shine directly into the eyes.

20. Electronic Level Functionality

Long press the " - " button for 2 seconds to enter the electronic level function. Press "  " to exit.

Error reasons and solution

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	Hardware error	Restart, or contact dealer if it happens again

Technical parameters

Product model	NF-277L
Measurement Range	60/80/100/120m
Measurement Accuracy	±1.5mm(d*0.005%)
Screen Type	2.0-inch HD color screen
Laser Type	500-530nm
Laser Class	Class IIIA
Min Display Unit	1mm
Single Measurement	√
Continuous Measurement	√
Max/Min Values	√
Area and Perimeter Measurement	√
Volume Measurement	√
Continuous Area Measurement	√
Triangle Area Measurement	√
Trapezoid Area Measurement	√
Pythagorean Measurement	√
Secondary Pythagorean Measurement ①	√
Secondary Pythagorean Measurement ②	√
Automatic Horizontal Measurement	√
Automatic Vertical Measurement	√
Countdown Measurement	√
Addition and Subtraction	√

Unit Conversion	√
Reference Switch	√
Historical Measurement Records	100 sets
Green Cross Line	√
Acrylic Level Bubble	√
Electronic Universal Level Bubble	√
Audible Alerts	√
Human Voice Broadcast	√
Angle Range ±90°	√
Bluetooth Functionality	√
Automatic Laser Shutdown	√
Auto Power Off	√
Battery Type	600mAh lithium battery
Operating Temperature	0°C~40°C
Storage Temperature	-20°C~60°C
Dimensions	118*45*27mm

Packing List

Main tester	1pc	Color Box	1pc
User Manual	1pc	Type-C Data Cable	1pc
Reflective Board	1pc	Certificate Card	1pc

Note: Please refer to the actual items received for product packaging accessories. (Reflective board is only included for models with a range of ≥ 80 meters)

<div><div><div>NOYafa</div><div></div></div><div>精明鼠</div><div>深圳市诺方舟电子有限公司</div></div>											
编号	201	202	301	302	303	304	305	比例:	1:1	品号:	304-H3001-0003
类目	塑胶件	五金类	镜片	PVC贴纸	不干胶贴	说明书	包装盒	单位:	mm		
选择						√		设计	CZG	品名:	NF-277L说明书骑马订英文-V2 20240706
306	307	308	309	310	311	312	313	标准		文件类型:	做货文件
彩卡	吸塑	工具包	PE袋	纸箱	宣传单	合格证	打印标签	标准	√		
								定制:			
制作日期	2024.07.06			样式	骑马订		印刷材质	128g双铜纸			
印刷要求	彩色			页码	16P		变更记录	V2较V1版本，更新参数的电池容量			
尺寸大小	120×66.5mm			版本	V2						