LM80D PRO/LM120D PRO **User Manual**



1. Distance button

Short press to measure/confirm

Long press to enter continuous measurement mode

2. Function button

Press to enter the measurement function menu, use up/down buttons to select and press the distance button to enter the measurement function

3. Setup/laser marking button

Short press to enter the setup menu, use up/down buttons to select and press the distance button to enter the setting; Long press to turn on/off the laser marking function

4. Down/subtract button

Press to scroll down/subtract

5. On/off/clear/back button

Long press to turn on/off the meter;

Short press to clear the previous operation or return

6. Up/Add button

Press to scroll up/add

7. Bluetooth data transmission/history

Short press to turn on manual Bluetooth/transmit data to APP: Long press to view history

8. Wheel measurement button

Short press to turn on/off wheel measurement

9. Wheel

In wheel measurement, roll the wheel along the measurement path to measure the distance.

Tip: Each time the wheel measurement is turned on, the measured data in the first rolling direction is positive, and in the opposite direction is negative.

10. Battery compartment

11. Tripod mount

Measurement Function Icons						
	Wheel measurement					
	Single measurement					
S	Area measurement					
S	Triangular area measurement					
V	Volume measurement					
7	Direct Pythagoras measurement					
\blacksquare	Indirect Pythagoras measurement ①					
	Indirect Pythagoras measurement ②					
As.	Auto horizontal measurement					
₹	Auto vertical measurement					
	Trapezoid measurement ①					
	Trapezoid measurement ②					
A A	Point to point measurement					
	Laser marking					

Setup Menu Icons



1) Bluetooth

Short press on to switch between auto/manual Bluetooth or turn off Bluetooth

- Auto Bluetooth transmission mode: The measured data is automatically uploaded to APP.
- Manual Bluetooth transmission mode: In any measurement mode, short press 6 to transmit data to APP
- Note: When the icon color switches to gray, the Bluetooth is off.

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2) Measurement Units

Short press to switch the measurement units (m/ft/in/ft+in)

3) Measurement References

Short press 🚳 to switch the measurement references (front/tripod mount/rear reference).

This distance meter defaults to the rear reference.

4) Chinese/English Voice Switching

Short press ato switch between Chinese/English voice broadcast

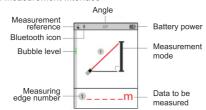
5) Screen Rotation

Short pressato turn on/off the screen rotation, the horizontal and vertical screens can be switched automatically (only in single/ continuous measurements).

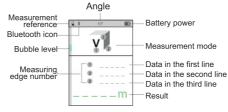
6) Voice

Short press 🙆 to turn on/off the voice

A. Measurement Interface



B. Result Interface



Operation Instructions

Turn on the meter and it will enter the single measurement mode by default. Short press to select the measurement mode; the red edge is the edge to be measured.

* Please pay attention to the measurement reference. The starting point will be different when different reference points are selected. The measurement reference in this manual refers to the rear reference.



Single Measurement

Turn on the meter and it will enter single measurement mode by default. Point the laser at the measurement target, then press and the measurement result will be displayed at the bottom of the

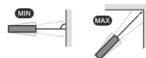
Continuous Measurement (Max/Min Measurement)

This function can be used to measure the diagonal of a house, look for levels, stake out, etc.

Long presstoto enter the continuous measurement.

Point the laser at the measurement target, then press to stop measuring. The MIN/MAX/current measured value will be displayed

This function will stop automatically after 5 minutes of continuous measurement



Wheel Measurement

Press to turn on the wheel measurement, scroll the wheel from the start point to the end point, then press to end the measurement

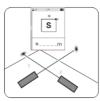
The wheel auxiliary measurement can be turned on in single/area/ volume measurement modes

Note: Please pay attention to positive and negative directions during wheel measurement

Note: Please try to keep it balanced when measuring.

Area Measurement

- Press to switch to area measurement .
 According to the red edge, point the laser at the first point of the target, press 🙆 to measure the first edge (length) 🛈
- 3) Point at the second point, press 🙆 to measure the second edge (width) 2
- 4) The area calculation result will be displayed at the bottom of the screen



Volume Measurement

- 1) Press to switch to volume measurement 🗐
- 2) According to the red edge, point the laser at the first point of the target, press to measure the first edge (length) ①.

 3) Point at the second point of the target, press to measure
- the second edge (width) 2
- 4) Point at the third point of the target, press 6 to measure the third edge (height) 3.
- 5) The volume calculation result will be displayed at the bottom of the screen.



Pythagoras Measurement

All Pythagoras measurements can be applied to different plane measurements, just ensure that the right-angle side is perpendicular to the object being measured.

Note: In Pythagorean Theorem, the right-angle side cannot be longer than the hypotenuse; otherwise a calculation error will occur.

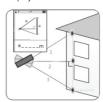
Direct Pythagoras Measurement

- 1) Press to switch to direct Pythagoras measurement $\angle 1$.
 2) According to the red edge, point the laser at the first point of the target, press to measure the hypotenuse ①.
- 3) Rotate to the direction perpendicular to the target with the set reference as center, press (a) to measure one right-angle
- 4) The calculation result of the other right-angle side is displayed at the bottom of the screen



Indirect Pythagoras Measurement ①

- 1) Press to switch to indirect Pythagoras measurement ① ←
- 2) According to the red edge, point the laser at the first point of the target, press 🙆 to measure the hypotenuse ①
- 3) Rotate to the direction perpendicular to the target with the set reference as center, press 🙆 to measure one right-angle side 2.
- 4) Rotate to the third point of the target, press 🙆 to measure the hypotenuse 3
- 5) The calculation result of the length between the first point and the third point is displayed at the bottom of the screen



Indirect Pythagoras Measurement 2

- 1) Press be to switch to indirect Pythagoras measurement 2
- 2) According to the red edge, point the laser to the first point of the target, press 🙆 to measure the first hypotenuse 🛈
- 3) Rotate to the second point of the target with the set reference as center, press 🚳 to measure the second hypotenuse
- 4) Rotate to the direction perpendicular to the target, press 🙆 to measure one right-angle side 3.
- 5) The calculation result of the length between the first point and the second point is displayed at the bottom of the screen



Auto Horizontal Measurement

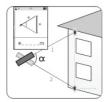
- 1) Press to switch to auto horizontal measurement
- 2) According to the red edge, point the laser to the first point of the target and press (a).

 3) The angle degree between the hypotenuse and the horizontal
- edge, the length of the hypotenuse ①/vertical edge (H)/horizontal edge (L) will be displayed on the screen from top to bottom.



Auto Vertical Measurement

- 1) Press by to switch to auto vertical measurement
- 2) According to the red edge, point the laser to the first point of the target, press 🙆 to measure the first hypotenuse ①
- 3) Rotate to the second point of the target with the set reference as center, press 🙆 to measure the second hypotenuse ②
- 4) The angle degree between both hypotenuses, the length of ①/②, the vertical height (H) will be displayed on the screen in sequence



Point to Point Measurement

- 1) Press to select the point to point measurement
- and a dialog box of "please wait...." will appear.

 2) Make sure that the distance meter is not moving, when the dialog box disappears, point at the first point of the target according to the red edge indication. Press to measure the length to the first point 1.
- 3) Rotate to the second point of the target with the set reference as center, press to measure the length to the second point 2

4) The angle degree between both hypotenuses and the length of 1)/2, the length between the two points will be displayed on the screen



Note: If the calibration fails, please return and re-enter the calibration.

Trapezoid Measurement ①

- 1) Press to switch to the trapezoid measurement (1)
- 2) According to the red edge, point at the first point of the target.
- Press to measure the first right-angle side ①.

 3) Point at the second point of the target, press to measure the second right-angle side
- 4) Point at the third point of the target, press 🚳 to measure the third right-angle side 3
- 5) The calculation result of the fourth bevel edge will be displayed at the bottom of the screen

Trapezoid Measurement 2

- 1) Press to switch to the trapezoid measurement 2
- 2) According to the red edge, point at the first point of the target.
- Press to measure the first right-angle side ①.

 3) Rotate to the second point of the target with the set reference as center, press 🚳 to measure the second diagonal 2
- The angle degree between the diagonal and the horizontal edge, the length of the right-angle side ①/diagonal ②/bevel edge (L) will be displayed on the screen in sequence.

Triangular Area Measurement

- 1) Press to select the triangular area measurement 5.
 2) According to the red edge, press 6 to measure the three edges (123) of the triangle separately.
- 3) The calculation result of the triangular area will be displayed at the bottom of the screen.

 Note: If the measured three edges cannot form a closed triangle,
- it is a calculation error

Addition/Subtraction

In the single/wheel/area/volume measurement mode, after the first result is measured, you can press +/- buttons to add or subtract the next measurement result. The calculation result will be displayed at

Laser Marking
Long press to turn on the laser marking function. The red laser
beam will mark on the target, and the interface will display the angle
of the laser beam in real time. The angle of the laser marking will change according to the angle of the distance meter

Press the back button or shutdown to turn off the laser marking

Notes:

- When using the "angle marking function", the emitting surface should be parallel to the target wall, and then turn left or right to adjust the angle along the "laser emission axis", and an angled laser marking line is formed on the wall.
- 2) Considering the site environment and operation errors, the angle marking function will generate an "approximate value"; if the accuracy requirement for the marking angle is very high, please use angle auxiliary tools

Technical Parameters

Range (m)	80/120		
Accuracy (mm)	±(2.0mm+5x10 ⁻⁵ D)		
Wheel measurement	√		
Single measurement	√		
Continuous measurement	√		
Area measurement	√		
Triangular area measurement	√		
Volume measurement	√		
Direct Pythagoras	√		
Indirect Pythagoras ①	√		
Indirect Pythagoras ②	√		
Auto horizontal measurement	√		
Auto vertical measurement	√		
Trapezoid measurement ①	√		
Trapezoid measurement ②	√		
Point to point measurement	√		

Laser marking	√			
Addition/Subtraction	√			
Bluetooth 4.0	√			
Angle sensor	√			
Screen rotation	√			
Display type	2.4" color screen			
Voice broadcast	Chinese/English			
Measurement references	Front/tripod mount/rear reference			
Measurement units	m/ft/in/ft+in			
Data logging	50 groups			
Auto power off	3 minutes without operation			
Laser class	2			
Laser type	630-670nm, <1mW			
Battery type	3 AAA batteries or AAA rechargeable batteries			
Charging port	Type C			
Operating temperature	0°C ~ +40°C (32°F ~ +104°F)			
Storage temperature	-20°C ~ 70°C (-4°F ~ 158°F)			
Size (mm)	137 x 55 x 26			
Weight (g)	132g			
	-			

1. Range

The range data is based on the rear reference (default); the maximum range may vary depending on the model version, please refer to the product packing for the actual

2. Accuracy ("D" represents the measured length)

Under good measurement conditions (good measurement surface/room temperature/indoor lighting, etc.): up to the rated range.

Under bad measurement conditions (too much light, weak reflection on the surface of the measured objects or large temperature difference, etc.): the error may increase. Tip: Use a target board or a good reflective surface in case of poor daylight or target reflection.

3. In the ideal state, the short distance accuracy can be up to 1mm

(Ideal state refers to constant speed (speed < 1m/s) and flat contact surface; short distance means <1.5m)

4. Angle Error

0.1° is the error caused by the temperature, Dis +/-0~45°. For example, the 0 degree error is +/-0.3° at room temperature, the 45 degrees error is +/-0.85° at non-room

Fault Code - Problems and Solutions

All information is displayed in code or "Error". The following shows the codes and their explanations and the corresponding solutions:

Code	Problems	Solutions		
204	Calculation error	Follow the instructions and operate again		
220	Low battery	Please replace the battery or charge it		
255	The reflected light received is weak, or the measurement time is too long	Please improve the reflective surface (use a reflector, white paper, etc.)		
256	The received signal is too strong	Please improve the reflective surface (use a reflector, or do not aim at strong light)		
261	Over range	Please measure within the range		
500	Hardware malfunction	If it still appears after the meter has been turned on/off multiple times, please contact your dealer.		

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说明书菲林做货要求:

序号	项	目	内容					
1	尺	寸	展开尺寸: 210X260mm 折后尺寸:130X70mm					
2	材	质	60g书纸					
3	颜	色	単色					
4	外观	要求	完整清晰、版面整洁,无斑墨、残损、毛边、刀线错位等缺陷。					
5	装订方式 无		无					
6	表面处理		无					
7	其它		无					
版	本							
设	DWH 设计 CHK			MODEL 机型: LM1200 PRO		Part NO. 物料编号:	110401108033X	
审核 APPRO. 批准			LINI-	优利 UNI-TI	· 德科技(中 REND TECHNOL	ョ国)有限公司 OGY (CHINA) LIMITED		