

PYLE[®]

www.pyleaudio.com

Laser Distance Meter

- PLDM18
- PLDM22



— INSTRUCTION MANUAL —

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Before use

1. check-up

Thank you for purchasing our product.

Please read this manual carefully before using this unit and keep it for future reference.

Unpack and check the package to make sure you have the following components.

If there is any part missing or incomplete, please contact Pyle.

- Laser distance meter———1pcs
- Pouch——— 1pcs
- 1.5V AAA battery———2pcs
- Instruction manual———1pcs

2. Introduction

This handheld laser distance meter is portable, easy to operate, precise and reliable.

Height precision up to 0.06 inch within measuring range;

With the reliable auto correction and error report technology, the product can minimize the problems resulting from users operation error.

The PLDM units are very portable with a weight of 0.29lbs (excluding battery)

Low power consumption with the 2 batteries being able to power the unit for up to 3,000 measurements.

This unit is widely used in architecture, decoration, gardening, hydropower, and water resources engineering, and power system maintenance.

3. Safety guide:

a. Permitted use:

- Measuring distances
- Computing functions, e. g. areas and volumes
- Indirect measuring with Pythagorean

b. Prohibited use:

- Using the instrument without instruction
- Using outside the stated limits
- Deactivation of safety systems and removal of explanatory and hazard labels
- Opening of the equipment by using tools, as far as not specifically permitted for certain cases
- Carrying out modification or conversion of the product
- Use after misappropriation
- Use of accessories from other manufacturers without the express approval of our technology
- Inadequate safeguards at the surveying site
- Aiming directly at the sun

c. Laser classification:

This product produces a visible laser beam which emerges from the front of the instrument.
Do not stare into the laser beam or direct it towards other people unnecessarily.

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d. Warning:

Looking directly into the beam with optical aids (e.g. Binoculars, telescopes) can be hazardous!

Precautions: Do not look directly into the beam with optical aids.

e. Caution:

Looking into the laser beam may be hazardous to the eyes!

Precautions: Do not look into the laser beam. Make sure the laser is aimed above or below eye level.

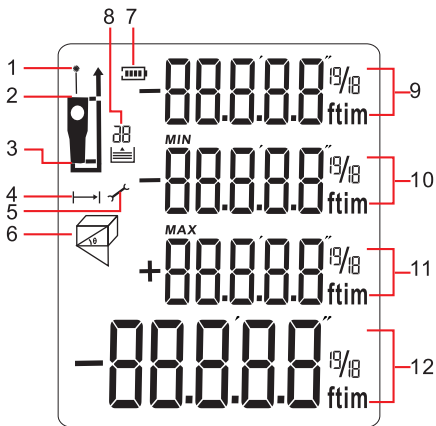
4. Button functions:



1. Power On/Measuring
2. Area/Volume button
3. Indirect measurement button
4. Continuous measurement button
5. Plus (+) button
6. Minus(-) button
7. Storage button
8. Reference level button
9. Backlight/unit
10. Clear/Off button

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5. LCD display:



1. Laser active
2. Reference level(front)
3. Reference level(back)
4. Continuous measurement
5. Instrument error warning
6. Variable measuring functions
 - Length measurement
 - Area measurement
 - ▢ Volume measurement
 - △ Indirect(2 times) measurement
 - ◀▶ In direct(3 times) measurement
7. Battery status
8. Historical memory, call up values
9. First value display line, minimum value
10. Second value display line, maximum value
11. Third value display line
12. Summary line for last measure or calculation result


Initial operation and setting

1. Start-up & Shut-down

a. Inserting / replacing batteries

Pull up the snap of the battery door to open it and insert the battery included in the package, then close the door and lock it up.

b. Start-up

Press  key to start-up, and directly go to the interface of single measuring.

c. Manual Shut-down

Pressing the  key for five seconds switches the instrument off.

d. Auto Shut-down

The instrument switches off automatically after three minutes of inactivity.



2. CLEAR button:



The last action is cancelled or the data display is cleared, while making measurements.

3. Reference level setting:

a. The default reference setting is from the rear of the instrument.

b. Press this button  to take the selection from the front edge ; Press the button again to go back to the rear reference edge. Repeatedly press this button to select desired reference/edge.

c. Each time after switching on, the rear edge of the measuring tool is preset as the reference level.

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4. LCD backlight :

Press  button and the display backlight can be switched on or off.



5. Distance unit setting :

Press and hold the  button longer to change the units measured from "m, in, ft, ft+/in.



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Operation instruction

1. Single Measuring



Press  to activate the laser. Press  again to trigger the distance measurement. The result is displayed immediately.



2. Continuous Measurement

Press the  button for three seconds to enter into continuous measurement. The readings of min/ max and the current are dynamically displayed on the screen. Press the button  once to exit continuous measurement.



The continuous measure function will be stopped after continuously measuring for 5 minutes.

3. Addition / Subtraction operation:


Press  button, the next measurement is added to the previous one, Then press  the second measured value is shown and the result is shown automatically.

Press  button, the next measurement is subtracted from the previous one. Then press  the result is always shown in the summary line with the previous value in the second line.

4. Area Measuring

Press  once, the symbol  appears in function field of display.



Press  to take the first distance measurement (e.g. Length).


Press  again to take the second distance measurement (e.g. width).

The results of length, width, and area are displayed in order going down.

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5. Volume Measuring:

Press  twice, the symbol  appears in the function field on the display, and the volume function activated as well.

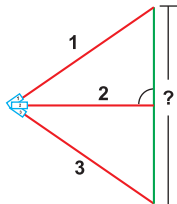
Press  to take the first length measurement (e.g. Length). Next get the width, then heights, the final result is displayed in the summary line.

6. Indirect Measurement-Pythagoras:



Indirect measurement determining a distance using 2 measurements





Figure 1



Indirect measurement determining a distance using 3 measurements




Figure 2

a. To measure distance with double indirect measurement:




Press  button, the icon  displays, then point at the highest end and press the button  to perform the first indirect measuring. Keep the unit horizontally the unit enters into horizontal measurement. Press button  again the readings of side 1, side 2 and the wanted side will be shown on LCD in sequence as shown in figure 1.

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b. To measure distance with 3 times indirect measurement:

Press button  two times, the icon  displays, then point at the highest end and press the button  to perform the first indirect measuring. Keep the unit horizontally the unit enters into horizontal measurement, then measure side 2 and 3 as shown in figure 2. The readings will be shown on LCD in sequence.

7. Historical record review:

- Press the button  continuously, the last 20 readings will display.
- Press button  to review downside.
- Press button  to reiew upside.

Unit may not perform properly under the following conditions.

- During daylight or if the target has poor reflection properties!
- In favorable conditions (good target surface properties, room temperature) up to 60m. In unfavorable conditions.
- Such as intense sunshine, poorly reflecting target surface(black surface) or high temperature variations, the deviation over distances above 10m may increase more.

Troubleshooting- Causes and Corrective measures

All message codes are displayed with “Error” . The following errors can be corrected:

Code	Cause	Corrective measure
204	Calculation error	Refer to user menu, repeat the procedures
208	Temperature too high	The Measuring tool is outside the operating temperature range of 32~104°F . Cool down instrument, make measurement in temperature stable environment
253	Temperature too low	Warm up instrument
255	Receiver signal too weak, measurement time too long	
256	Received signal too strong	Target too reflective use target plate or do not aim at strong light objective
Error	Hardware error and uncertainty error	Switch on/off the device several times. If the symbol still appears, then your instrument is defective. Please call your dealer for assistance

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Technical Specifications


Functional spec	PLDM18	PLDM22
Measurement range	130 ft	195 ft
Accuracy	± 0.06 in	± 0.06 in
Measurement unit	m / in / ft	m / in / ft
Laser class	Class II	Class II
Laser type	635 nm,<1mW	635 nm,<1mW
Auto bias technology	YES	YES
Area / volume calculations	YES	YES
Indirect measurement using pythagoras	YES	YES
Continuous measurement	YES	YES
Max / min distance tracking	YES	YES

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Addition/subtraction	YES	YES
History measurement recodes	20	20
Buzzer indication	YES	YES
Battery	2x1.5V AAA	2x1.5V AAA
Battery life	Up to 3000 measurements	Up to 3000 measurement
Dust protect/splash proof	IP54	IP54
Operating temperature	32~104 °F	32~104 °F
Storage temperature	14~140 °F	14~140 °F
Auto power off	After 3 min	After 3 min
Unit size	5*2.17*1.1 in	5*2.17*1.1 in
Weight	0.29 lbs	0.29lbs

Maintenance and warranty

1. Maintenance:

- a. If the  icon appears on screen, please replace the battery immediately.
- b. Take out the battery from the battery door if the unit is not to be used for a long time.
- c. Do not try to dismantle the unit or change structure of the unit without authorization
- d. Use soft and wet cloth to clean the unit. Do not use corrosive or volatile cleanser.
Do not submerge in liquid.

2. Warranty :

- a. Read carefully the warranty terms stipulated in the warranty card provided.
- b. Any damage resulting from the following situation will set us free from the warranty responsibility:
 - unauthorized dismantling;
 - mistaken storage after purchasing;
 - mistaken operation or abuse of the unit;
 - unauthorized changing records on the Warranty Card;
 - failing to provide the purchasing proof.

3. Special declaration:

We reserve the right to change the design of the product and amend the manual accordingly without further notification.



Version: 40m/60m-EN-00
