

Laser Distance Meter



PLDM120 PLDM180

PLDM300

WWW.PYLEAUDIO.COM

Content

. Safety Rules	1
2. Overview	2
3. Stating up	3
l. Operation	3
5. Measurement	4
5. function	5
'.Tips code and solution	9
3.Technical reference	9
.Maintenance	10
0.Service	11

10.Service

To better server our customers, a warranty card is attached. Please keep it properly in order to enjoy the service we deserved.

- 1. The product, if it is used properly without overhaul, enjoys 1-year after sales service since the day purchased.
- 2. The products in the following condition can't enjoy the warranty range:
 - A. The variation of network voltage is so great that the instrument is damaged.
 - B. The instrument is damaged by the overused or artificial reason.
 - C. The instrument is damaged by the vibration during transportation.
- 3. The user without warranty cards will be charged according to the circumstance.
- 4. When the user needs warranty service, he should fulfill the warranty card carefully and send to the company.

Thank you purchasing Hand-held laser distance measuring instrument. Please read the safety terms and instruction carefully before you use this products.

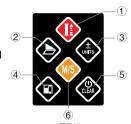
1. Safety Rules

- Please do read all the clauses and operating instructions in the user manual before you use the product.
 Noncompliance of these safety terms may result to dangerous laser emission damage, electric shock and personal injuries.
- Don't try any ways to change the performance of the laser, which would cause the danger arisen by laser exposure. Turn on the laser only when you need to use the product. Besides, don't look straight at the laser light. The Laser Distance Meter needs safekeeping in case used by irrelevant personnel.
- ♦ Don't irradiate anyone in darkness deliberately.
- Don't irradiate onto the object with high reflective surface.
- ♦ Don't put it in the place where a child can reach it.
- Don't repair the meter without authorization. If it is damaged, please contact with local dealers.
- Electromagnetic radiation may interfere other equipments and device (for instance the medical instrument like pacemaker or hearing aid)
- Don't use the meter in flammable and explosive environment.
- ♦ Don't use the meter near medical instruments.
- ♦ Don't use the meter in a plane.
- Your disposal of the discard meter should be accordance with the local regulation.

2. Overview

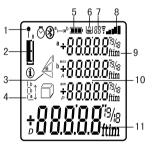
Keyboard (see the right figure)

- Starting up/single-machine measurement
- 2. Area/volume/Pythagorean/laying off function keys
- 3. Addition/Subtraction/Unit key
- 4. Reference edge/LCD Backlight Display Key
- 5. Clear/shutdown Key
- 6. Date storage/function set



Display screen (see the right figure)

- 1. Laser on indicator
- 2. Reference edge measuring indicator
- 3. Area/volume/Legs of a triangle laying off indicator
- 4. Laying off function indicator
- 5. Battery Level indicator
- 6. Date storage indicator
- 7. Date storage number indicator
- 8. Signal strength indicator
- 9. Unit indicator (including power and cube)
- 10. Secondary display area
- 11 Main display area



3. Stating up Install/replace battery

Open the cover of the battery and put the battery into the battery compartment correctly, then close the cover. When the battery level is too low, the indicator for battery level will appear on the display. Please replace new battery as soon as possible at this time.

- * Alkaline battery is suggested being used. In this way, the measure of the alkaline battery will relatively be reduced.
- * When the meter will be out of use of a long period, please take out the battery.

4. Operation

Starting up/shutdown

When the battery is installed, the meter will be on. If you long press , the meter will be shut down. Press the button when the meter is shutdown, and the meter will be on. The laser light and the backlight will turn off automatically within 60 seconds if there is no operation, and 6 minutes, shutdown itself.

Set

Long press ounit the icon on the display flickers. Then you can set the automatic turn on or turn off the laser light and the buzzer, reference correction. You can press the +- to set the parameters and shortly press the to switch function set.

Reference edge

The reference edge by default is the back end of the meter. You can switch the reference edge by pressing . The default will be restored when the meter is shutdown.

Unit

Long press can switch 6 kinds of units (see the right figure). The meter will remember the last displayed unit.

Battery level indicator

When the three segment codes in the battery boxes all display, it indicates that the battery level is

length	area	volume
0.000m	0.000m ₂	0.000m₃
0.00m	0.00m ₂	0.00m₃
0.00ft	0.00ft ₂	0.00ft₃
0.0'1/18	0.00ft ₂	0.00ft₃
0.0in	0.00ft ₂	0.00ft₃
0 ^{1/18} in	0.00ft	0.00ft

relatively full. The fewer segment codes displayed the lower battery level. When the boxes are empty, the battery should be replaced.

Clear function

Shortly press the last indication. The clear button can clear the measuring result of a single measurement (area or volume) with same function in order to go to the next measurement.

Illumination

When the five signals segments all displays, it means that the measuring signal strength is high. The fewer segments signals, the weaker measuring signal strength.

5. Measurement Signal measurement

When the laser light is off, hort pressing tan turn on the laser light. Then the laser indicator in the display will flicker. Short pressing tan measure again.

7. Tips code and solution

During the use of the instrument, the instrument may appear the prompts as follwoed:

Information	reason	solution
b.L	The battery level is too low	Replace with a new battery
t.L	The temperature is too low	Raise the meter temperature
t.H	The temperature is too high	Lower the meter temperature
d.H	Overflowing of data	remeasurement
S.L		Measure teh target potion with
	The signal is too weak	strong reflective abitlity or
		use the sighting target.
	The signal is too strong	Measure the target potion with
s.H		weak reflective ability or use
		teh sighting target.
H.F	Wrong hardware	Restart the meter. If many times
		of startup & shutdown can't
		solve the problem, please
		contact with the local dealer.

8.Technical reference

+/-1mm*
m/in/ft
0.05~40/60/80/100m
0.1-3s
II
635nm,<1mw
IP54
60s
480s
whtite LED
V
V

Battery indicator	V	
Signal strength indicator	V	
Data storage	V	
Continuous measurement(max/min) √		
Addition/subtraction √		
Volume/area/Pythagorean measurement function √		
Laying off	$\sqrt{}$	
Button lifespan	1 billion times	
Battery type and lifespan	AAA alkaline battery(2*1.5), until 15	
	thousand times	
Weigh	104g	
Working temperature range	0°C~40°C	
Storage temperature range	-25°C~60°C	

- ** In unfavorable conditions(such as excessively strong ambientlight, or excessively large or small of diffuse reflectance of the measuring position),the error will increase:+1mm+40PPM
- ** In the unfavorable condition in which the sunlight is to excessive or thereflective light is weak, please use sighting target.

9.Maintenance

Immersing the instrument into the water is forbidden. You can use wet and soft cloth to wipe dust off. Don't use erosive lotion.

Clean the surface of the optical component(including the laser light radiating window and the signal received lens) in accordance with the way used in cleaning the glasses and the lens of cameral.

The meter will save the normal measuring result automatically.

Continuous measurement

Shortly press • to turn on the laser light. And long press to start continuous measurement. If you want • to stop continuous measurement, stop pressing the button. During continuous measurement, the real time measurement value is shown in the main display area. And the maximum value (MAX) and the minimum value (MIN) are disoplaed in the secondary display area.

When continuous measurement in general measuring pattern, the secondary display area shows the minimum value; when continuous measurement in functional measuring pattern, the secondary display areas displays the maximum default of the hypotenuse measurement, and displays the minimum default of horizontal measurement. Long press during measurement can switch between the maximum value and the minimum value.

6. function Addition/Subtraction

The measurement of the single distance, area and the volume can be measured through cumulative, regressive by the addition/subtracton. Shortly pressing to can switch between addition and subtraction. Operational symbol will be displayed in the main display area.

When the operation method is chosen, the measuring result will be operated automatically in distance measuring pattem. The result will be shown in the main display area, and the latest measuring result will be shown in the secondary display area; in area and volume measuring pattem, press to start the operation when the measurement is done. The result will be shown in the main display area and the latest measuring result will be shown in the seconday display area.

Area measurement

Shortly press until is displayed in the display. Press to finish the measurement of the first line, and then press to finish the measurement of the second line. At last, the area will be calculated automatically and the result will be display in the main display area.

Volume measurement

Shortly press \(\phi \) until \(\pri \) is shown in the display. Press \(\phi \) to finish the measurement of the three lines and then the volume will be measured automatically. The result will be shown in the main display area.

Pythagorean measurement

Pythagorean measurement is used to measure the target distance that cannot be targeted directly by using the Pythagorean theorem.

Shortly press • until / is display is shown in the display. Shortly press • to finish the right-angle side-right-angle side measurement or hypotenuse-right-angle side measurement in accordance with the indicator displayed in then screen. The pythaorean measurement will be done automatically and the result will be display in the main display area.

Shortly press • null is shown in the display. Press to finish collection of the three measuring values in accordance with the indicator in the screen. When collecting the second measuring values, it should be vertical to the object side or be selected the minimum value by the meter automatically using the continuous measurement method. The result will be shown in the main display area.

- When measuring under the Pythagorean pattern, the length of right-angle side should be shorter than that of the hypotenuse, or the meter will get an error.
- When measuring under the Pythagorean pattern, it should be ensured that the measurement is start from the the same initial point; in the hypotenuse-right-angle side pattern, it must be ensured that righ-angle side is vertical to the plane being measured

Laying off

Long press to enter into the laying off set. Before laying off, reagard the

value shown in the liquid crystal display area as the initial value of a.Regard the value shown in the main display area as the initial value of b.

When entering into the laying off setting, enter in to the setting of b. when the second number in the main display flickers, adjust the number by pressing+-.one pressing add 1 and it circulates from 0-9.Adjust the flickering position by pressing ①.One pressing moves one right positon, and it circulates form the left to right. Long pressing ① can finish the laying off setting and enter into laying off situation.

- If you press again during the setting of b, it switches
 to the setting of a .if you press again during the
 setting of a , the setting ends and meter enter into laying
 off measuring situation.
- When enter into laying off measuring situation, the econdary display area shows set distance value in the nearest laying off position. And the main display area shows the distance between the present position and the laying off position. Positive value means that it longer that the laying off position distance, vice versa. When the distance to the nearest laying off position is less than 0.1m the buzzer will begin to buzz (silent if you turn it off). The voice of the buzzer will change greatly if it reaches the laying off position.
- The distance of the laying off position is a +bxn ("n"is natural numbers that excluded"0")

Data storage/paging out

Short press to enter into storage function, and \(\begin{align*} \begin{align*} \text{will} \\ \text{display} in the display. You can circularly check the latest set of data stored automatically by pressing \(\begin{align*} \begin{align*} \text{, and can page} \\ \text{out the data for all functions of calculation.} \end{align*}