

**DEKO®****INSTRUCTION MANUAL
LASER DISTANCE METER****Model:
LRD110****8*10.5cm****▲IMPORTANT:**

Read this instruction manual before operating this product. Keep the instruction manual for future reference.



DEKO TOOLS CO., LIMITED
www.dekotools.com Made in China

▲ WARNING: Please carefully read the safety instructions and the user manual before using this product, otherwise it may result in hazardous laser radiation and electric shock. The person responsible for the equipment must ensure that all users understand these directions and adhere to them.

Safety Instructions for Laser Products

Laser radiation. **DO NOT STARE INTO BEAM!** Class 2 laser product.



- Viewing the laser output with certain optical instruments (for example, eye loupes, magnifiers and microscopes) with a distance of 100mm may pose an eye hazard.
- Viewing the laser output with certain optical instruments designed for use at a distance (for example, telescopes and binoculars) may pose an eye hazard.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- NEVER** direct the beam towards a person's eyes!
- Avoid positioning the laser such that it may lead to unintentional eye exposure to any potential passing pedestrians/traffic.
- DO NOT** direct the beam towards animals.
- DO NOT** use in the vicinity of children.
- DO NOT** direct the beam onto reflective surfaces.
- Always switch off when not in use and do not leave unattended.
- Remove the batteries before storing the circular saw away.

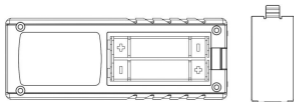
This laser product has no serviceable parts. Do not attempt to disassemble or repair.

Battery installation

- According to figures, remove battery compartment lid.
- Insert batteries with correct polarity according to battery lid indications.
- Close the battery compartment lid.

CAUTION:

- Please do not mix new and old batteries, use alkaline batteries or rechargeable batteries only.
- Please replace batteries when the symbol flashes permanently in the display.
- Please remove the batteries before any long period of non-use.
- Out of power batteries must not be disposed of with household, care for the environment and take them to the collection points provided in accordance with national or local regulations.



Battery Disposal

Do not attempt to disassemble the battery or remove any component projecting from the battery terminals. Fire or injury may result. Prior to disposal, protect exposed terminals with heavy insulating tape to prevent shorting.

Special Warnings

⚠ WARNING: Below actions are forbidden:

- 1) Opening or repairing the equipment without allow.
- 2) Measuring to sun.
- 3) Measuring out of appointed range.
- 4) Immersing the equipment in water.
- 5) Cleaning the lens using alcohol or any other organic surfaces.
- 6) Wiping the lens directly with fingers or other rough surfaces.
- 7) Powering the equipment beyond the rated DC voltage.

Product Description

Basic functions

Single Measurement	✓
Max./Min. Measurement	✓
Continuous Measurement	✓
Area/Volume/Pythagoras	✓
Unit Setting	✓
Reference Setting	✓
Bubble Level	✓
Buzzer Indicator	✓
Historical Data Records	20 Groups
Data Cleanup	✓
Error Message Code	✓
Battery Indicator	✓
Laser Auto. Switch off	30s
Instrument Auto. Switch off	180s

Technical parameters

Measuring Range	0.05m~40m 0.05m~60m 0.05m~80m 0.05m~100m
Measuring Accuracy	±2.0mm
Measuring Unit	m, ft, in
Area Unit	m ² , ft ² , in ²
Laser Type	620-690nm
Laser Class	Class II, <1mW
Single Measurement Time	0.25s
Operating Temperature	0~+40°C
Storage Temperature	-20~+65°C
Batteries	AAA (Alkaline), 2×1.5V (not included)
Measurements Per Battery Set	>5000
Weight (without batteries)	Approximately 76g
Dimensions (L×W×H)	110×40×25mm

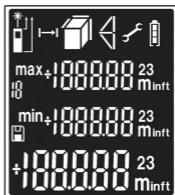
1) Maximum deviation error or shorter range occurs under unfavourable conditions such as bright sunlight or when measuring too poorly reflecting or very rough surfaces, the environment temperature is too high or too low.

2) When measuring within 10m, measurement accuracy is ±2mm; more than 10m, measurement accuracy is calculated as follows: $\pm 2\text{mm} \pm 0.05 \times (D - 10)$ (D: measuring distance, unit: m).

LCD indicator

LCD icon indication

SIGNAL POWER INDICATION
AREA/VOLUME/PYTHAGORAS
LASER "ON"
REFERENCE
CONTINUOUS MEASUREMENT
CURRENT READING
HISTORICAL READINGS
BATTERY STATUS
HARDWARE ERROR
UNIT





Key functions/icons

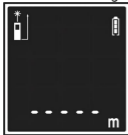
Key Functions	Icons
Switch on/Measuring	
Measurement Reference	
Plus[+]/Minus[-] Recall Historical Data Records Button	
Clear/Switch off	
Functions	


Operation

Switch on/off


Long-time press  button to switch on the equipment with default reference setting of single measurement mode, rear reference and metric unit system;

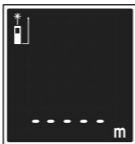
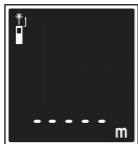
Short-time press  again, the battery state and laser reflection signal intensity indication as shown as the figure below.




Long-time press  button to switch off the equipment; the laser will be switched off automatically after 30 seconds and the equipment will be powered off after 3 minutes of inactivity.

Change measurement reference

Default setting of measurement is rear edge when meter switch on, short-time press button  will change the measurement reference.



Clear button



Pressing  button to clear the laser command or displayed data.

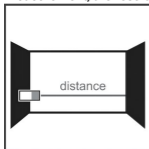
Unit conversion

Instrument default unit is m. long-time press  button to switch the unit of measurement.


Measurement

Single-mode measurement

When equipment is switched on, short-time pressing  button will activate the laser and aim the laser onto target; short-time pressing  button again will trigger single-mode measurement, the result will be displayed immediately as shown in the figure below.



Continuous-mode measurement

When the equipment is switched on, long-time pressing  button will trigger continuous-mode measurement.

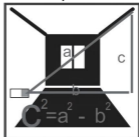
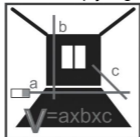
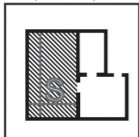
MIN: MINIMUM VALUE
MAX: MAXIMUM VALUE


Current measurement value is displayed in LCD bottom line as shown in the figure below.







Functions

Area, Volume, Indirect Measurement (Pythagorean Theorem)



Press  button to change measurement functions respectively;
Select corresponding function and begin the measurement.

Measurement	Icons
Continuous Measurement	
Area Measurement	
Volume Measurement	
Pythagorean Theorem	


Addition and subtraction functions

+ The current measurement result is added to the previous one.

- The current measurement result is subtracted from the previous one, as shown in the figure below.



Storage and recall of measurements

- 1) Measuring data will be stored automatically, long-time press  to the historical reading. The display will appear like the figure.
- 2) the higher the number (up to 20) indicates the most recent measurement taken.
- 3) Use the + or - buttons to scroll through the measurements.



Error Code

Code	Possible Cause	Remedy
Err 10	Battery too low.	Change batteries.
Err 15	Out of measuring range.	Measure target within the range.
Err 16	Received signal too weak.	Use light color target; Hold quick measure more steady.
Err 18	Background brightness too high.	Use dark colored target.
Err 26	Out of display.	

Service Information

This tool is warranted to the original purchaser to be free from defect in materials and workmanship for a period of 2 years from the original purchase date.

If the tool should fail some day in spite of our quality controls and materials, only have it repaired by an authorized electrician or contact your local distributor or service agent.

Or you can contact us by emails:

services@dekotools.com, support@dekotools.com

The warranty will not apply to the following cases:

- (i) where this product has been subjected to misuse, abuse, accident or want of care;
- (ii) where this product has been used for a purpose for which it was not designed or is not

suited;

(iii) where the service of this product has been undertaken by a non-authorized person or company or if non-approved parts have been used.

(iv) components that are subject to natural wear and tear caused by use in accordance with operating instructions.

Disposal



The machine, rechargeable batteries, accessories, and packaging should be sorted for environmental-friendly recycling. Do not dispose of power tools and batteries/rechargeable batteries into household waste! Please recycle them at collection points provided for the purpose. Ask your local authority for information about recycling.