

Laser Distance Meter **User Manual**

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- Cataloge **Before Start Using** Change of battery **Overview for LASER DISTANCE FINDER Overview for Screen** Specification **All Accessories** Turn on your Laser Distance Finder **Measuring Distance** Add your measures Subtract your measures Dyna-Measuring (Continuous Measuring) Measuring reference Unit of Measuring **Unit Switch Reference Measuring Function**
- Volume Measurement
- Indirect Measurement
- Stake-out
- **Memory Recall**
- Back-Light switch & Laser pointer switch



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Change of battery

▷LASER DISTANCE FINDER is powered by 2×AA Batteries,

▷Battery status will be showed in initial screen., 🎚

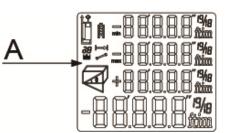
 \triangleright In case if battery icon display continuously, It shows battery is about 1,000 measure times left. \triangleright Low power indicator will be twinkling when battery is low. []

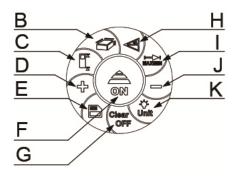
▷To change new batteries, re back lid and observing correct Polarity when, install new batteries, then close back lid.

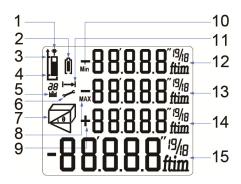
Overview for LASER DISTANCE

FINDER

- A. LCD
- B. Area/volume buttons
- C. Reference Switch/laser pointer
- D. Addition buttons
- E. Storage buttons
- F. On/measuring buttons
- G. Clear/off buttons
- H. Indirect measuring button
- I. Continuous measuring buttons
- J. Subtraction buttons
- K. Lighting/unit conversion buttons







Overview for Screen

- 1. Laser Indicator
- 2. Battery Status
- 3. Measuring Reference(frontier)
- 4. Measuring Reference(along)

5. Historical records, can view the data

- 6. Error code shows
- 7. Indirect Measuring
- ⊿ Single Pythagoras
- ✓ Summary of tow Pythagoras
- Length measurement
- Area Measuring
- Volume Measuring
- 8. Maximum display
- 9. Add and Subtract
- 10. Minimum display
- 11. Consecutive measurements
- 12. The first display the line, and
- the minimum display the line
- 13. The second display the line,
- and the maximum display the line
- 14. The third display the line
- 15. The main display line, finally

the measuring and calculating results are shown

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LDM-xxS series Laser Distance Measuring modules

Specification All Accessories

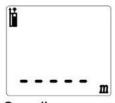
Measure Rang*	0.02-60m / 0.02-80m	Dimension	122mm×51mm×27mm
Resolution	0.001m	Operation Temperature	-0°C ~40° C
Accuracy*	±1.5mm	Storage Temperature	-10°C ~50°C
Measure Speed*	0.5sec.	Automatic switch-off	
Laser Type	635-650nm, Class2, <1mW	-laser	30 seconds
Battery	2×AAA Batteries	-Device	180 seconds
Battery Life	Up to 5,000 Measures		

Deviation

Under unfavorable conditions such as bright sunlight, surface very poorly reflecting objective or temperature fluctuations severe, a maximum deviation of \pm 1.5mm can occur. This deviation may increase to \pm 0.025 mm / m for distances between 10 m and 30 m, and \pm 0.1 mm / m for distances above 30m.

Turn on your Laser Distance Finder

Before starting, please make sure battery is installed properly.
Press (a) measuring to activate Laser Distance Finder.
Initial screen will flash seconds for checking status.
After checking, standby screen will be displayed



Srandby screeen

Measuring Distance		
▷CAUTION!		
Laser will be enitted upon when youturn LASER DISTANCE		
FINDER on.	<u>m</u>	m
Check icon on the upper-left corner to check if laser is emitted.	Laser Acricated	Laser Di8sactivated
Check icon on the upper-left corner to check if laser is emitted.	Laser Acricated	Laser Dissactivated



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 \triangleright If the laser is not activated, press $extsf{ laser }$ to enable laser.

 \triangleright Then, move the laser dot of LASER DISTANCE FINDER onto your target

and try to keep the dot on the target.

 \triangleright The whole measure will be finished until a beep is heard or measured

result is appeared on the main screen.

▷Laser will be turnned off after measuring.



Finished Measuring

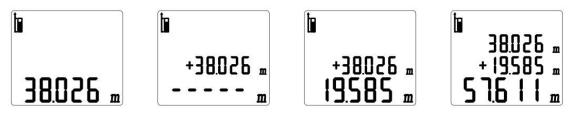
Add your measures Finished Measuring

Calculating the summary of measures are simple only with few buttons.

▷Once you got your firsrt measure, press ④ to save into memory(temporary saced)

 \triangleright Then find your next desired distance, once you find it, press $ilde{\$}$ again

▷The summary will be displayed in main screen and you could see what you had added.



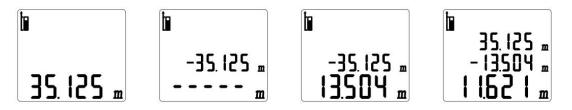
Subtract your measure

▷Calculating the different of measures are simple only with few buttons.

 \triangleright Once you got your first measure, press \bigcirc to save into memory(temporary saced)

▷The find your desired distance, once you find it, press again.

>The result will be displayed in main screen and you could see what you had subtract.



Dyna-Measuring (Continuous Measuring)

▷To activate Dyna Measuring (Continuous Measuring), hold 🖮 then it will jump to Dyna Measuring mode.

>When entering Dyna Measuring mode, laser beam will be also activated

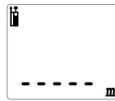
>Maximtm and Minimum value will be displayed on screen



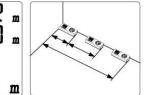


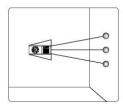
LDM-xxS series Laser Distance Measuring modules

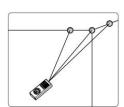
 \triangleright To quit Dyna Measuring and back to normal mode, press











Standby Screen

Dyna-Measuring Screen

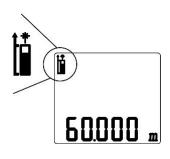
Measuring reference

▷By default, reference is set at rear.

 \triangleright LASER DISTANCE FINDER has three reference: rear, front and pintail.

 \triangleright To change reference, press (\mathbb{C}) each press will take effect.

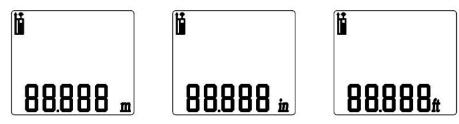
Changing sequence is front \rightarrow rear \rightarrow pintail.



Unit Switch Reference

 \triangleright To change until of measuring, hold ^(a) Unit will be switched by each hold.

Click the button longer change the next type of unit, m, ft. in, ft+/in then to continue click the button for the next unit selection.



Measuring Function

a. Area Measurement

 \triangleright Please press O once for enabling Area measuring.

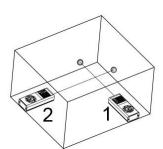
 $\triangleright \mathsf{Laser}$ will be activated when entering Area measuring .

▷Follow the instructions on main screen to measure

width, length and height.

▷Once you finish all instructions, volume is showed on screen.

▷To change display unit, hold 崰



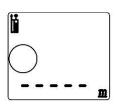


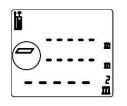
Form no: EG-QR-T-SA-0001

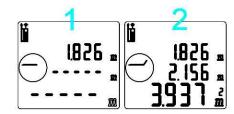


LDM-xxS series

Laser Distance Measuring modules







Standby Screen

Area Measuring Screen

b. Volume Measurement

▷Press 🖻 twice to enter volume measuring.

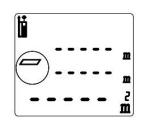
▷Laser will be activated when entering Volume measuring.

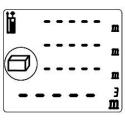
▷Follow the instructions on main screen to measure width, length and height.

▷Once you finish all instructions, volume is showed on screen.

m

▷To change display unit, hold 🏼 🏝





Standby Screen

Area Measuring Screen

Volume Measuring Screen



Indirect Measurement

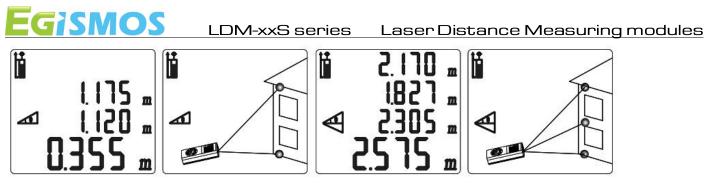
 \triangleright All the calculation is based on Pythagorean theorem(a2+b2=c2)to measure height indirectly.

>Laser will be activated when entering Indirect measuring. Follow the instructions

▷on screen to get slang range, horizon range then the height will be displayed on screen.

▷For Pythagorean II (summary of two height)and III(different of tow height) are advanced calculating based on Pythagorean





I First press for single Pythagoras

Second press for Double Pythagoras (Summary)

Memory Recall

▷Laser Distance Finder provide a well design memory recall functions , you could recall memory by hold ⓐ

 \triangleright The last 20 measures will be displayed on screen, To look up records press \oplus to move up, for move down =







Back-Light switch & Laser pointer switch

 \triangleright To Enable and Disable back-light for LASER DISTANCE FINDER ,press ${}^{\textcircled{a}}$

Error Code			
Code	Description	Solution	
204	Calculation error	Refer to user menu, repeat the procedures	
208	Temperature too high	Cool down instrument, make it working in stable	
		temperature environment	
253	Temperature too low	Warm up instrument	
255	Receiver signal too weak,	Use target plate or change a good refection	
	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	Switch on/off the device several times. If the symbol still	
	error	appears, then your instrument is defective. Please call	
		your dealer for assistance.	

