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**ISN-L70
LASER DISTANCE METER
OPERATION MANUAL**

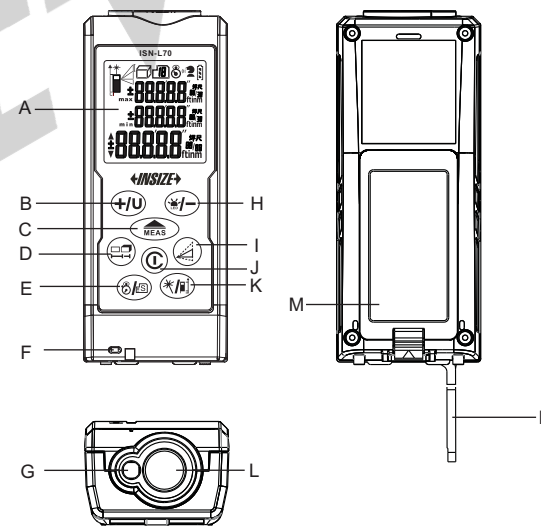


Attention

- ◆ Please read the operation manual carefully before use.
- ◆ Never stare directly into beam or aim the laser beams at others.

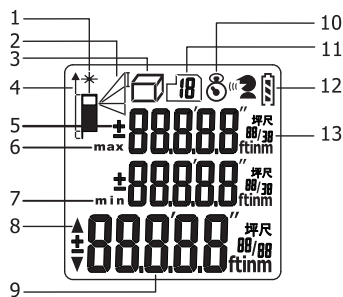
Description

- ① Function features:
 - ◆ Fast measuring speed.
 - ◆ Large display with back-light.
 - ◆ Distance, area, volume and height measurement.
 - ◆ Unit: m, ft, in.
 - ◆ With continuous measuring to track max and min value.
 - ◆ Automatic power off: laser-30s, main unit-180s.
- ② Structure:



- A. LCD B. Add/Unit switch C. Measure/Dyna-measure
- D. Measure Function(Distance/Area/Volume/Stake-out)
- E. Countdown measure/Memories F. Strap holder
- G. Laser emitting window H. Subtract/Back-light I. Pythagoras
- J. Power button/Clear K. Reference switch/Laser receive
- L. Receive window M. Battery cover N. Pin tail

3 Overview for screen:

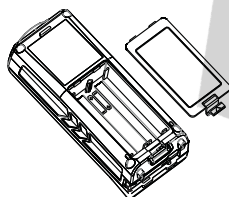


- 1. Laser indicator
- 2. Indirect measure (∠ Single Pythagoras / ∠ Summary of two Pythagoras / ∠ Subtract of two Pythagoras)
- 3. Measure function (□ Area measuring / ▢ Volume measuring)
- 4. Measuring reference
- 5. Add and subtract
- 6. Maximum display
- 7. Minimum display
- 8. Stakes direction indicator
- 9. Main screen and unit
- 10. Countdown measuring
- 11. Memories
- 12. Battery status
- 13. Units

Operation

1 Inserting the batteries:

ISN-L70 is powered by two AA batteries. Remove battery cover and observing correct polarity when install the batteries, then close the battery cover.



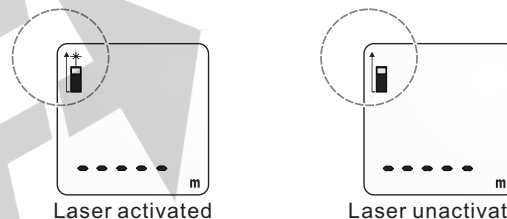
Note: means the power in high level; means battery is about 1000 measure times left; means battery is low.

2 Turn on/off:

Before starting, please make sure battery is installed properly. Short press to turn on, initial screen will flash seconds for checking status and standby screen will be displayed. Long press to turn off.

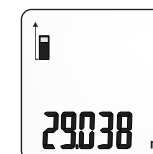
3 Distance measuring:

- ◆ Laser will be emitted upon when you turn on. The laser will switch off automatic in 30 seconds if there is no operation.



- ◆ Short press to enable the laser if the laser is not activated, then move the laser dot to your target. Short press to measure and the result will be appeared on the screen.

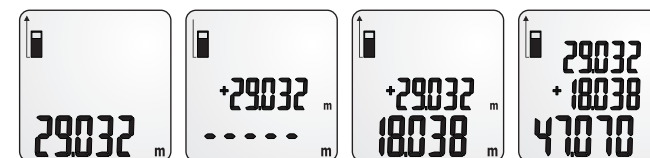
Note: Keeping instrument stable when measuring.



- ◆ The laser will be turn off after measuring.

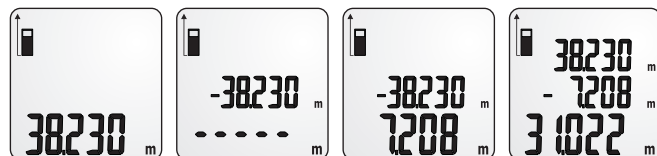
4 Add your measure:

- ◆ Short press after your first measure to save into memory.
- ◆ Short press again after your second measure and the result will display on screen.
- ◆ You can repeat the steps for more results.



5 Subtract your measure:

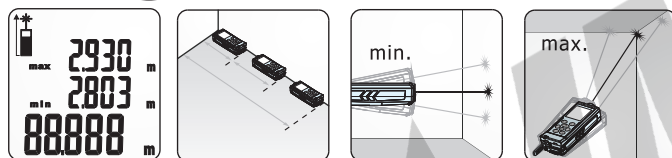
- ◆ Short press after your first measure to save into memory.
- ◆ Short press again after your second measure and the result will display on screen.
- ◆ You can repeat the steps for more results.



Note: Be sure to add and subtract in same unit.

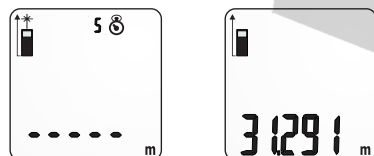
6 Dyna-measuring (Continuous measuring):

- ◆ Long press to activate the dyna-measuring mode.
- ◆ Max and min value will be displayed when moving the dot.
- ◆ You can short press or to pause. After pause, you can short press to recover and to quit.



7 Countdown measuring:

- ◆ You can use this function for a more stable measurement.
- ◆ Short press to set time, then short press to measure.



8 Measuring reference:

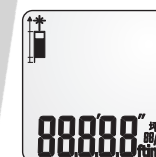
- ◆ ISN-L70 has three reference: front, rear, pintail.
- ◆ Short press to change reference.

Note: The front reference surface is indicated as shown.



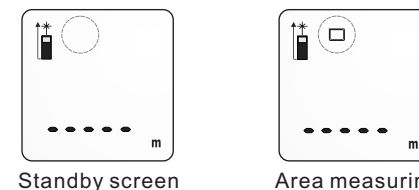
9 Unit of measuring:

Long press to change unit of measuring.

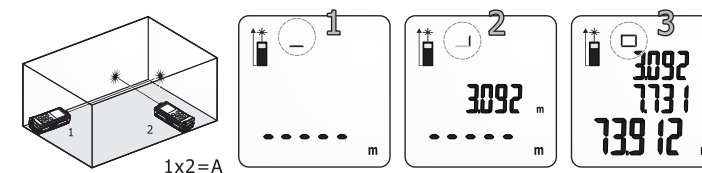


10 Area measuring:

- ◆ Short press once to enable the area measuring.

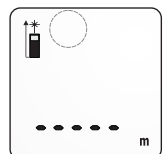


- ◆ Short press to measure length and width follow the instruction on the screen, then the area is showed. You can change the unit by long pressing .

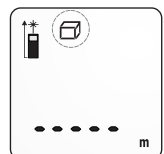


11 Volume measuring:

- ◆ Short press twice to enable the volume measuring.

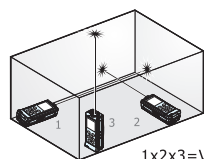


Standby screen

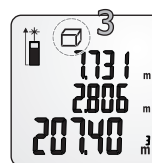
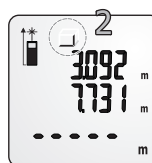
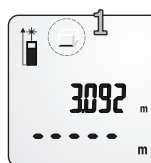


Area measuring

- ◆ Short press to measure length, width and height follow the instruction on the screen, then the volume is showed. You can change the unit by long pressing .

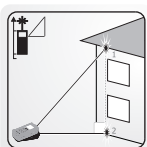


1x2x3=V



12 Height measuring:

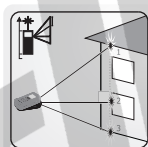
- ◆ Short press to select: Single Pythagoras, Summary of two Pythagoras, Subtract of two Pythagoras.
- ◆ Short press to measure the lengths follow the instruction on the screen, then the height will be displayed on the screen. You can change the unit by long pressing .



Single



Summary



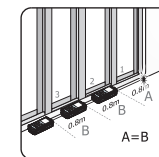
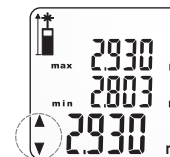
Subtract

13 Stake-out:

- ◆ Short press three times to edit the length of stake.
- ◆ Short press and to set the value. When value is decided, press to finish setting. Short press to reset zero.

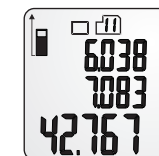
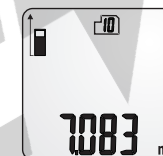


- ◆ When in dyna-measuring mode, you can get every stakes you need follow the arrow.



14 Memory recall:

- ◆ Long press to recall the memory.
- ◆ To look up the last 20 measures by short pressing and .



15 Back-light and laser pointer switch:

- ◆ Long press to enable and disable the back-light.
- ◆ Long press to enable and disable the laser beam.

FAQ And Solution

Error code:

Code	Description	Solution
Err01	Out of measuring range	Measure in a proper range
Err02	Reflected signal is too weak	Select a batter surface
Err03	Out display range max value:99999	Divide calculation in middle steps
Err04	Pythagorean calculation error	Check and verify values and steps are correct
Err05	Low battery	Install a new battery
Err06	Out of working temperature	Measure in an environment within specified working temperature
Err07	Ambient light is too strong	Measure in a darker place(shadow target)

Specification

Measuring range	0.05-70m
Accuracy	±1.5mm
Resolution	0.001m
Measuring speed	0.5 sec.
Dust/waterproof	IP52
Laser type	650 nm, Class II, <1mW
Beam size	25mm@30m
Memory	Up to 20 results
Power supply	2 x 1.5V AA batteries, for 10000 measures
Dimension(L×W×H)	110x45x30mm
Weight	130g

Standard Delivery

Main unit	1 pc
Battery(AA)	2 pcs
Safety strap	1 pc
Carrying case	1 pc