

The Intex logo is displayed in white text within a white rectangular box. The word "Intex" is in a bold, sans-serif font, followed by a stylized double-slash symbol.

**Truline**

## **ALD30: Operation Manual**

### **Handheld Laser Distance Meter**

**WARNING:** Read and become familiar with this manual BEFORE operating unit.

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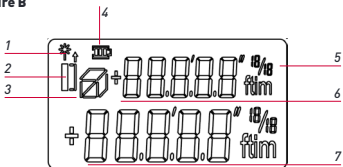
## SAFETY REGULATIONS

- ⚠ Before using this product, please carefully read and understand all the terms and operational guidelines in this manual. Hazardous laser radiation damage, electric shock or personal injury may occur if operations are not implemented under those safety regulations in this operation manual.
  
- ⚠ Do not change the performance of the laser in any way, otherwise it may cause dangers due to laser exposure. Activate the laser only when you use the instrument. Don't stare at the laser directly. Please keep your instrument safe from use of any unauthorised persons.
- ⚠ Do not shoot at others with the laser intentionally or in dark.
- ⚠ Do not shoot the laser beam onto objects with high-reflective surface.
- ⚠ Do not place the laser meter in reach of the child.
  
- ⚠ Do not repair the equipment without authorization. If the equipment is damaged, please contact your local dealer.
  
- ⚠ Electromagnetic radiation may interfere with other instruments or devices (such as medical instruments like pacemakers or hearing aids .)
  - Do not use the instrument near gas stations and other inflammable and explosive places.
  - Do not use the instrument near medical equipment.
  - Do not use this instrument on airplanes.
  
- ⚠ Please follow your local laws to dispose the obsolete instrument.

Picture A



Picture B



## OVERVIEW

### Keyboard *(See Picture A)*

- 1 ON/Single measure /Continuous measure
- 2 Function Key--Area/Volume measure/Pythagorean measure
- 3 Clear/OFF

### Display *(See Picture B)*

- 1 Laser ON
- 2 Reference (front/rear)
- 3 Area/Volume/ Pythagorean
- 4 Battery display
- 5 Units with exponents
- 6 Auxiliary display
- 7 Main display

## START-UP

### *Inserting / Replacing Batteries*

Remove the battery cover, insert the battery correctly. Close the battery compartment. Replace the battery when this symbol constantly blinks in the display.

- Only use alkaline batteries.
- Batteries should be removed in case of danger of corrosion, if the device will not be used for a long time.

## OPERATION

### *Switching ON/OFF*

Press **ON** Device and laser is switched on and ready to measure.

Holding down this key **OFF** for 2 seconds to switch the device off, the device also switches off automatically after 3 minutes of inactivity i.e. no key is pressed within that interval.

### *Clear-Key*

**OFF** Cancel the last action within a function (area, volume, etc.) single measurement can be deleted step by step and re-measured.

### *Reference Setting*

Default measuring reference setting is the rear of the device.

**FUNC** Press this key to change the reference. The reference returns automatically to the default setting (rear reference) after power off.

## MEASURING

**ON** Press this key to activate the laser. Press again to implement the distance measurement.


### *Continuous Measurement*

**ON** Press the key briefly to activate the laser, press and hold key for about 2 seconds to start continuous measuring. Press again shortly: continuous measurement is stopped.

During continuous measuring, the latest measured value is displayed on the main display area, auxiliary display area shows the minimum and maximum measured value.

## FUNCTION

### *Area*

**FUNC** Press this key once. This symbol  is displayed.

Press **ON** key to take the first line measurement.

Press **ON** again and take the second line measurement.

The result is displayed in the main display area.

### *Volume*

**FUNC** Press this key once This symbol  is displayed.

Press **ON** key to take the three lines measurement and then the volume value will be displayed in the main display area and the third line measured value is displayed in the auxiliary area.

## PYTHAGOREAN CALCULATION

Pythagorean measurement is used in the condition that the objective needing to be measured is covered or has no effective reflecting surface and can't be measured directly. The accurate measured result can only be got when the laser beam and measured goal are at the right angle.

**FUNC** Press this key briefly, this symbol  $\sphericalangle$  is displayed in the screen. According to the on-screen prompts, press **ON** to take right angle edge - right angle, or bevel edge - right angle edge operation then the instrument will automatically realize Pythagorean operation, the result is displayed in the main display area.


- When measuring in Pythagorean measurement mode, right-angle edge length must be less than the length of the hypotenuse, otherwise the tool will report error information.
- Under the Pythagorean measurement mode, ensure you start the measurement from the same starting point. In hypotenuse - right angle edge model, it is also necessary to ensure that right-angle side is perpendicular to the measured surface.



## APPENDIX

### Display Notices

In the course of using the instrument, error information as below may be displayed on the screen

InFo	Cause	Correction
204	Data overflow	Repeat steps
205	Measurement range transfinite	Use the meter in distance allowed
252	Temperature too high	Let device cool down
253	Temperature too low	Warm device up
255	Received signal too weak	Measure target point with stronger reflectance
256	Received signal too strong	Measure target point with weaker reflectance
206	Pythagorean measurement Violation	Re-measure and ensure the hypotenuse is greater than right angle edge
258	Initialization error	Reboot
Error	Cause	Correction
	Hardware error	If the signal still appears after repeatedly switching on/off the equipment, please contact your dealer.

## TECHNICAL SPECIFICATIONS

Range <i>(for extended distances, use a target plate)</i>	0.05 m to 30 m
Measuring accuracy	Typically: $\pm 2\text{mm}^*$
Minimum unit displayed	1 mm
Laser class	II
Laser type	635 nm, < 1 mW
Automatic power off	180s
Display illumination	✓
Continuous measurement	✓
Battery (AAA 2x1.5V)	Up to 5,000 measurements
Dimensions	110 x 38 x 23mm
Weight	100g
Temperature range	-25°C to +70°C
Storage Operation	-10°C to +50°C

In unfavourable conditions, such as intensive sunshine, very weakly reflecting target surface or large temperature fluctuations, measuring accuracy may deteriorate.

## **MAINTENANCE**

Do not immerse the instrument into water. You can use wet soft cloth to wipe the surface, but do not use corrosive lotion. Clean optical components like cleaning eyeglasses and camera lenses *(the laser emission window and receiving lens)*.

## **WARRANTY**

### *Warranty Regulations*

1. Intex offers two-year warranty since the purchase date of the instrument.
2. Warranty is void if any of the following exist:
  - \* Instrument of which the instrument number is deleted or modified.
  - \* Instrument which is repaired without authorization.
  - \* Instrument with man-made damage or fault caused by improper storage.
3. Proof of purchase, warranty with date of purchase, model, and instrument number must be provided when warranty is claimed.

## WARRANTY CARD

Instrument Model	
Serial Number	
Date of Sales	
Sale Company	
Sale Address	

## CONTENTS

NO.	Name	Quantity	Unit	Remarks
1	ALD30 Unit	1	pc	
2	AAA Battery	2	pcs	
3	User Manual	1	pc	
4	Lanyard Strap	1	pc	

## CERTIFICATE

Name: Handheld Laser Distance Meter

Model: ALD30

Testing: Date:



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