



# Laserliner DistanceMaster Vision Laser Range Reading Range Instructions

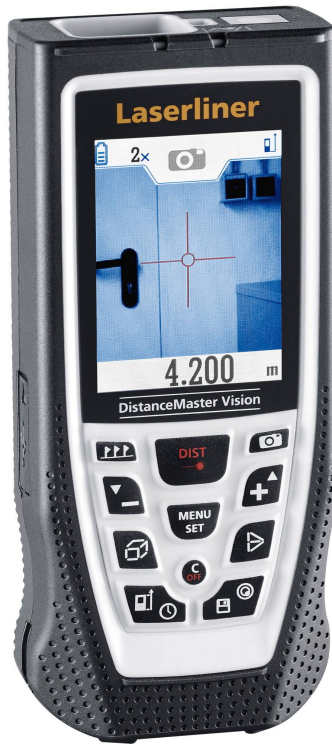
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**Laserliner®**

## Laserliner DistanceMaster Vision Laser Range



Completely read through the operating instructions, the „Warranty and Additional Information“ booklet as well as the latest information under the internet link at the end of these instructions. Follow the instructions they contain. This document must be kept in a safe place and if the laser device is passed on, this document must be passed on with it.

### Function/Application

Laser distance meter with camera function

- For measuring length, area and volume
- Min/Max continuous measurement, wall surface function, angle function, Pythagoras 1 + 2 + 3, addition and subtraction function, digital bubble level, stake out function and 360° inclination sensor
- Camera function with 8x digital zoom and viewfinder to target the measurement area

### General safety instructions

- The device must only be used in accordance with its intended purpose and within the scope of the specifications.
- The measuring tools and accessories are not toys. Keep out of reach of children.
- Modifications or changes to the device are not permitted, this will otherwise invalidate the approval and safety specifications.
- Do not expose the device to mechanical stress, extreme temperatures, moisture or significant vibration.
- The device must no longer be used if one or more of its functions fail or the battery charge is weak.
- This device is designed for charging 1.2V AAA rechargeable nickel metal hydride (NiMH) batteries.
- On no account attempt to charge any other batteries as this could irreparably damage the device or cause serious injuries.
- Only charge rechargeable batteries of the same size, of the same type, same capacity and from the same manufacturer together.

- Please ensure compliance with the safety regulations set out by local and national authorities with regard to the correct and proper use of the device.

## Safety instructions

### Using class 2 lasers

Laser radiation! Do not stare into the beam! Class 2 laser < 1 mW · 635 nm EN 60825-1:2014.

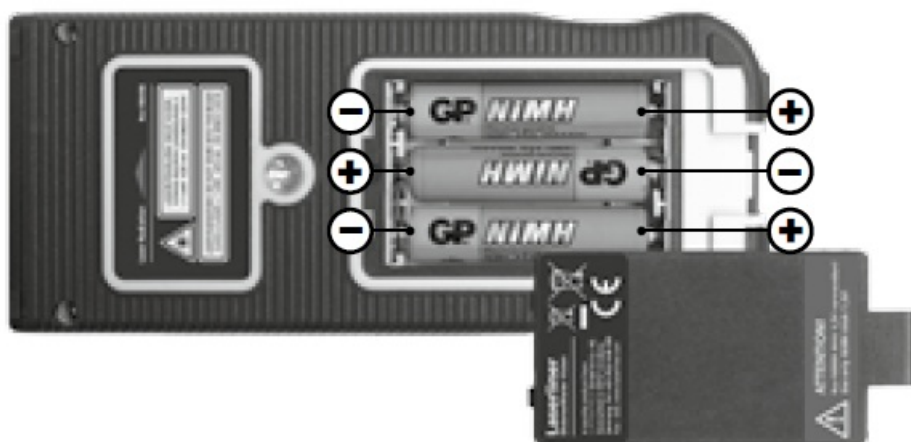
- Attention: Do not look into the direct or reflected beam.
- Do not point the laser beam towards persons.
- If a person's eyes are exposed to class 2 laser radiation, they should shut their eyes and immediately move away from the beam.
- Tampering with (making changes to) the laser device is not permitted.
- Under no circumstances should optical instruments (magnifying glass, microscope, binoculars)

### Dealing with electromagnetic radiation

- The measuring device complies with electromagnetic compatibility regulations and limit values in accordance with EMC-Directive 2014/30/EU.
- Local operating restrictions – for example, in hospitals, aircraft, petrol stations or in the vicinity of people with pacemakers – may apply. Electronic devices can potentially cause hazards or interference or be subject to hazards or interference.
- The measuring accuracy may be affected when working close to high voltages or high electromagnetic alternating fields.

### Inserting rechargeable batteries

Open the battery compartment and insert the rechargeable batteries (3x NiMH, type AAA) as indicated by the installation symbols. Be sure to pay attention to polarity. The rechargeable batteries can be charged in the device with the supplied USB charging cable.



## Overview



1. Laser reception field
2. Display
3. Connection socket for USB charger
4. Battery compartment (back side)
5. Hinged pin
6. Laser outlet
7. Camera

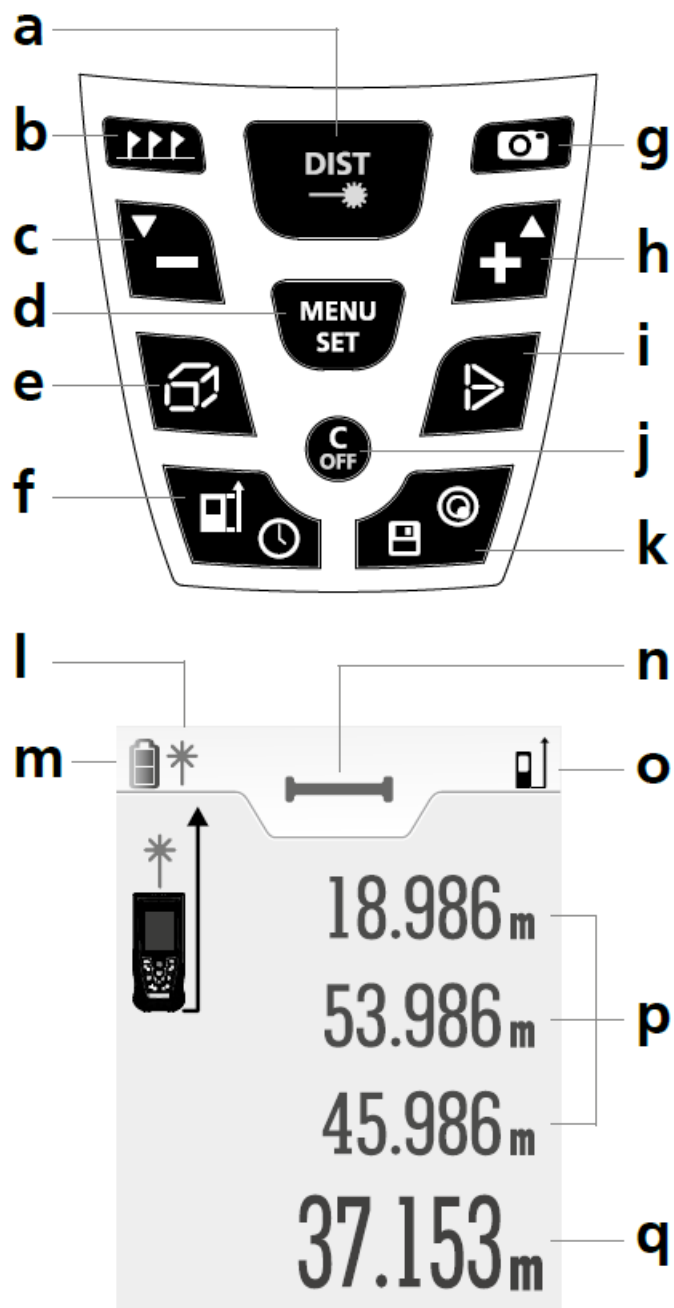
### KEYPAD

- a ON / laser on / measure / min/max continuous measurement
- b Stake out function
- c Subtraction function / Decrease value/view saved measurements
- d Settings menu / Confirm
- e Length / area / volume / wall surface function
- f Timer function / Measurement point (reference) front / thread / rear / pin
- g Camera function
- h Addition function / Increase value / view saved measurements
- i Angle function / Pythagoras  $1 + 2 + 3$
- j OFF / delete last measurement values
- k Memory / Digital bubble level

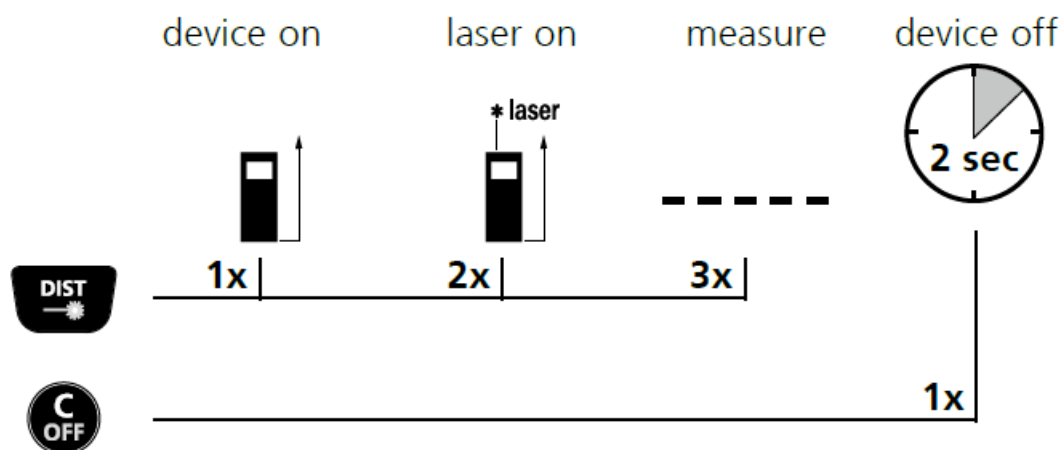
### DISPLAY

- l Laser active
- m Battery symbol
- n Set measuring function






- o Measurement point (reference) front / thread / rear / pin
- p Intermediate values / min/max values
- q Measurement values / Measurement results



Switch on, measure and switch off:



## Settings menu

MENU SET		20 <sub>sec</sub>	Time setting to automatically power down the display lighting
		060 <sub>sec</sub>	Time setting to automatically power down the laser
	POWER OFF	150 <sub>sec</sub>	Time setting to automatically power down the device
		on	Signal tone ON/OFF
		0.000 <sub>m</sub>	Change unit of measure: m / ft / ' " / inch
		°	Change unit of measure: ° / %



Select setting option



Confirm selection (green indicator)



Change value



Confirm setting (red indicator)

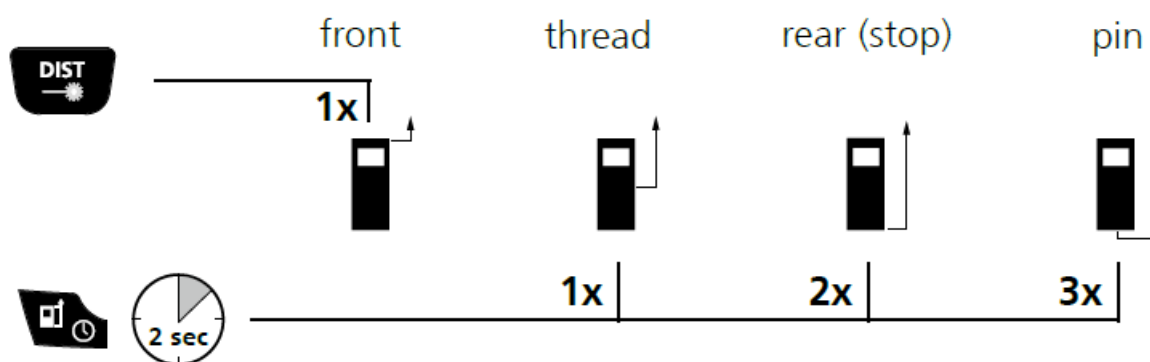


Save setting (optional)



Exit menu

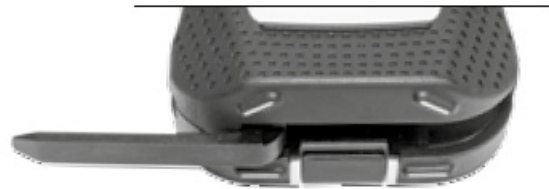
## Change measurement point (reference):



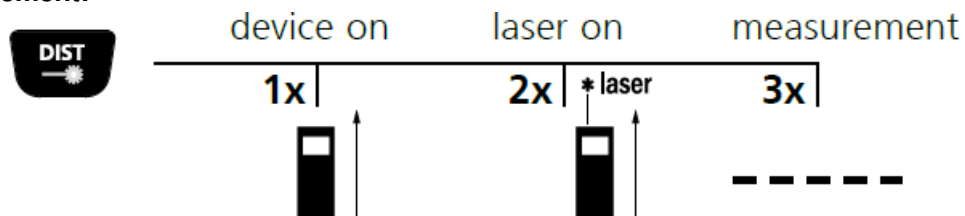
The device starts up with the last setting.

## Measuring plane, pin/stop:

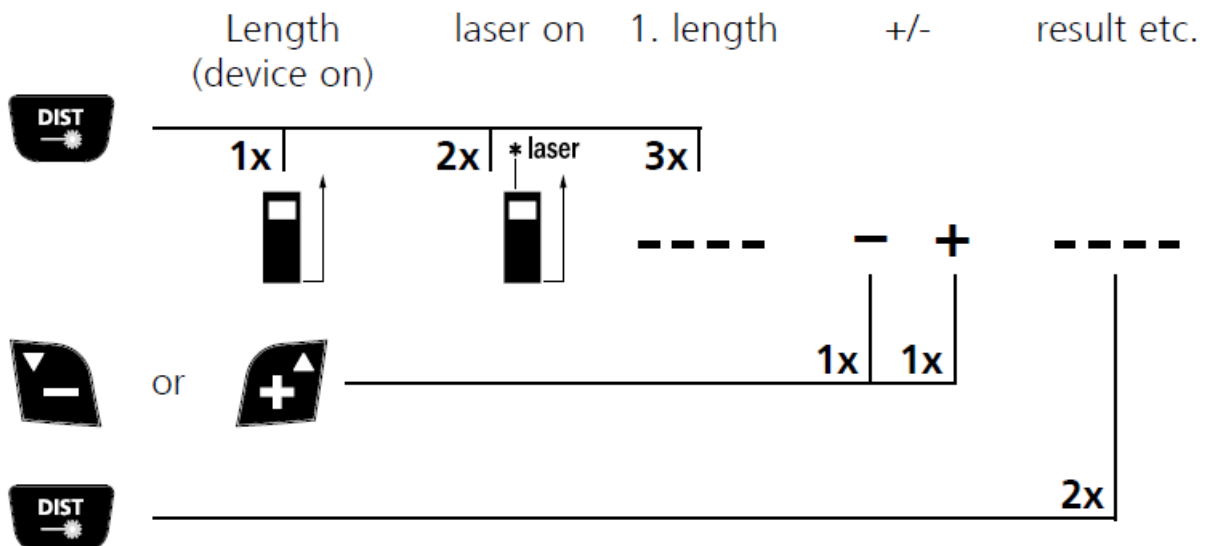
- For measurements out of a corner, fold down the pin and select the „measurement plane PIN“ setting.
- For stop measurements move the pin to the side and select the „measurement plane REAR“ setting.



### Length measurement:

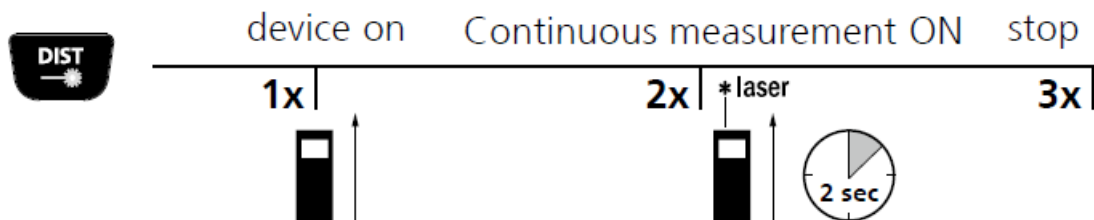


### Addition and subtraction of lengths:



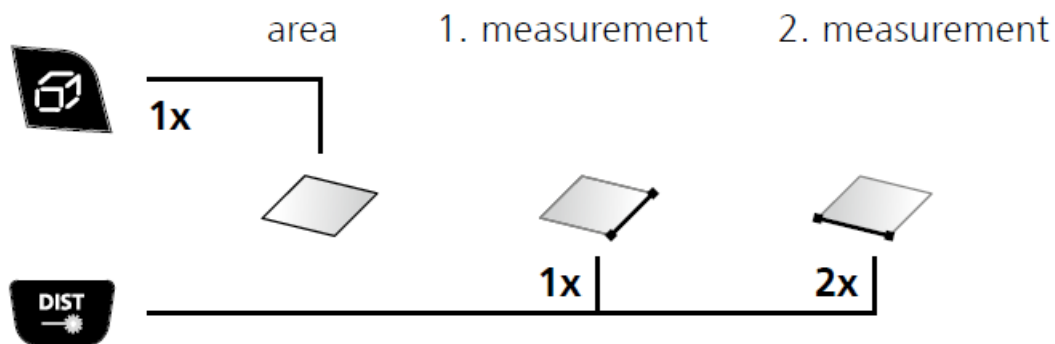
Further lengths are added by pressing the DIST button.

### min/max continuous measurement:



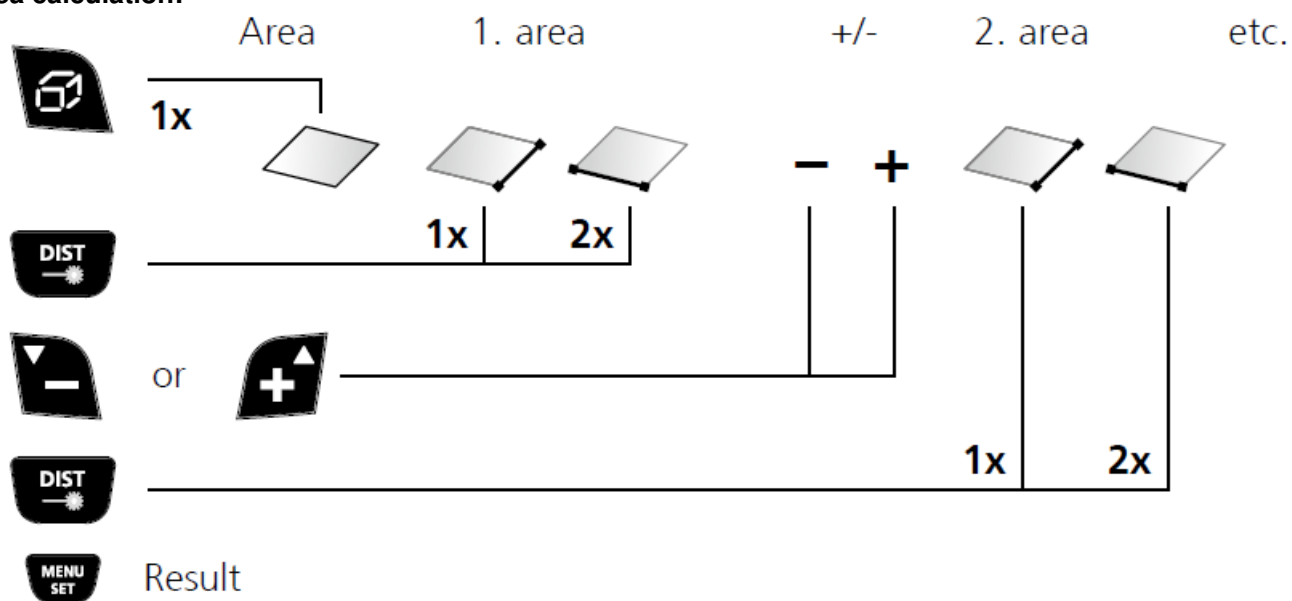
The LC display shows the max value, the min value, the differential value and the current value.

### Area measurement:

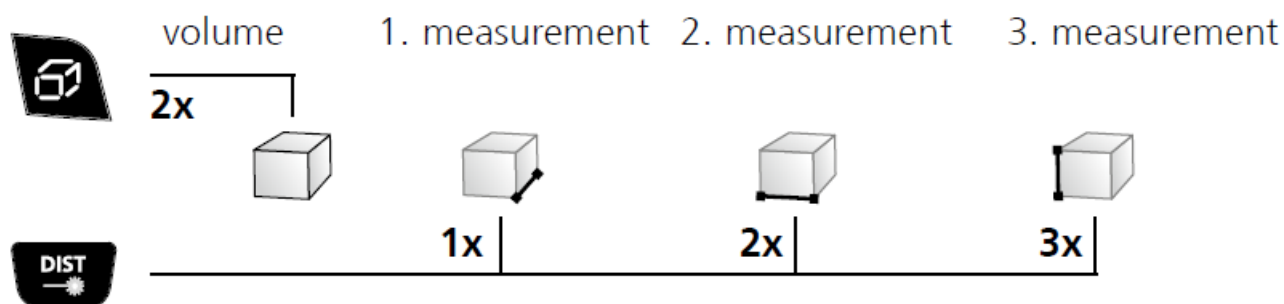


The room perimeter is additionally shown on the LC display.

#### Area calculation:

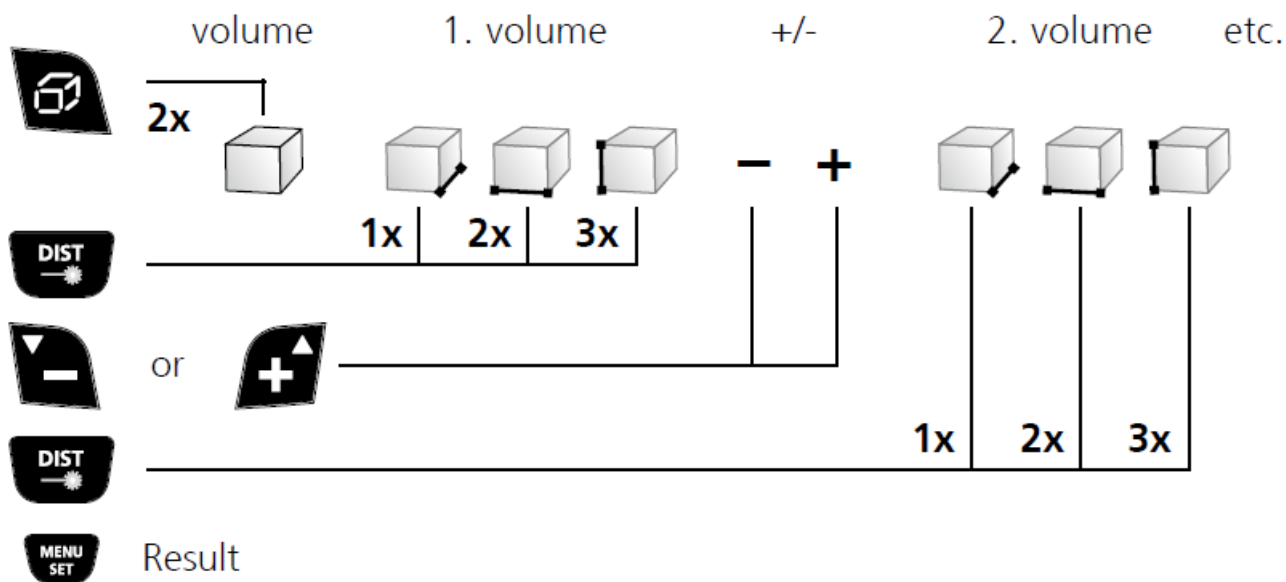


#### Volume measurement:

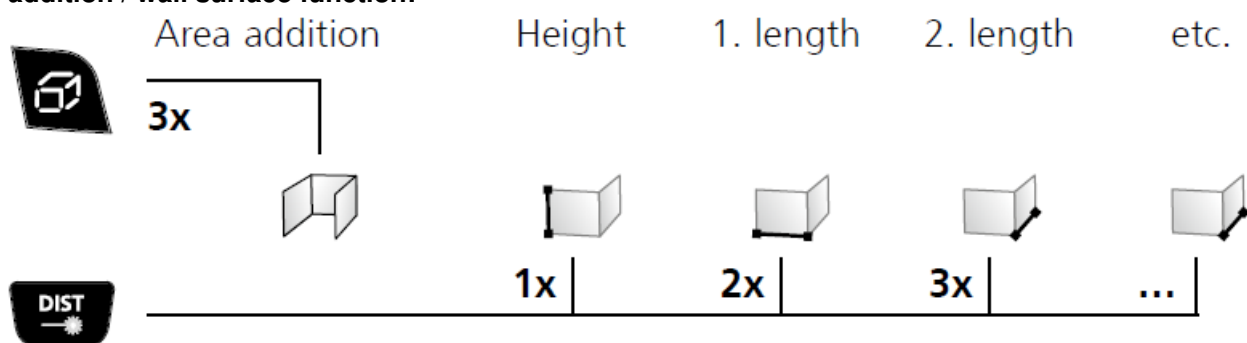


#### Volume calculation:

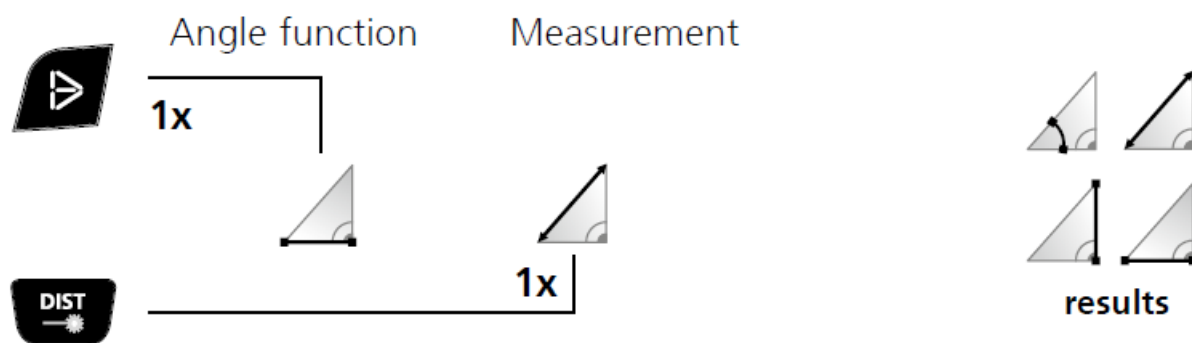




#### Area addition / wall surface function:

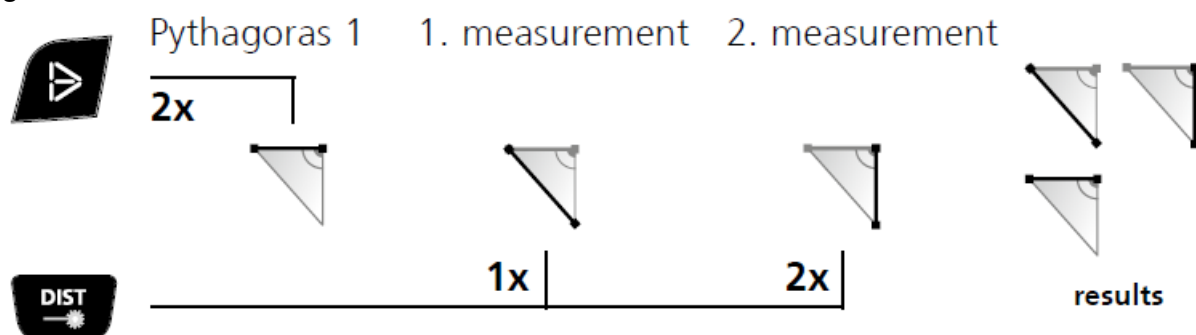


#### Angle function

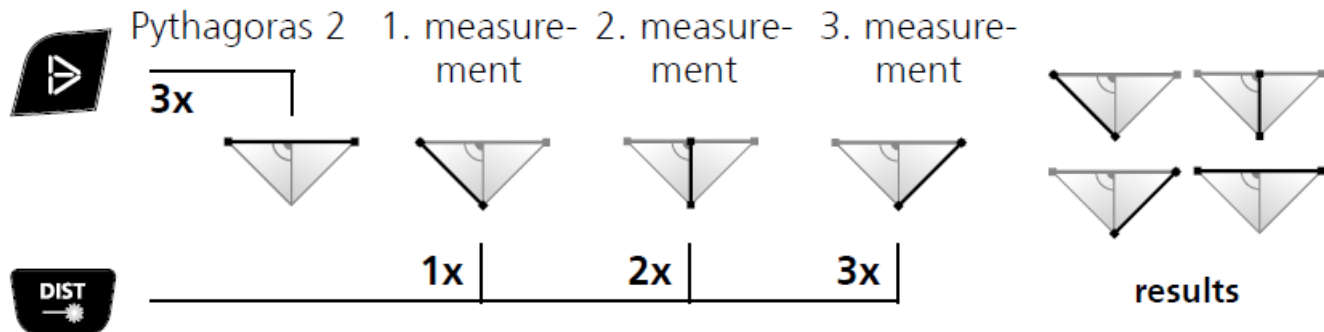


The measurement results are determined automatically by the 360° inclination sensor. The back of the device can be used as a reference surface for measuring angles.

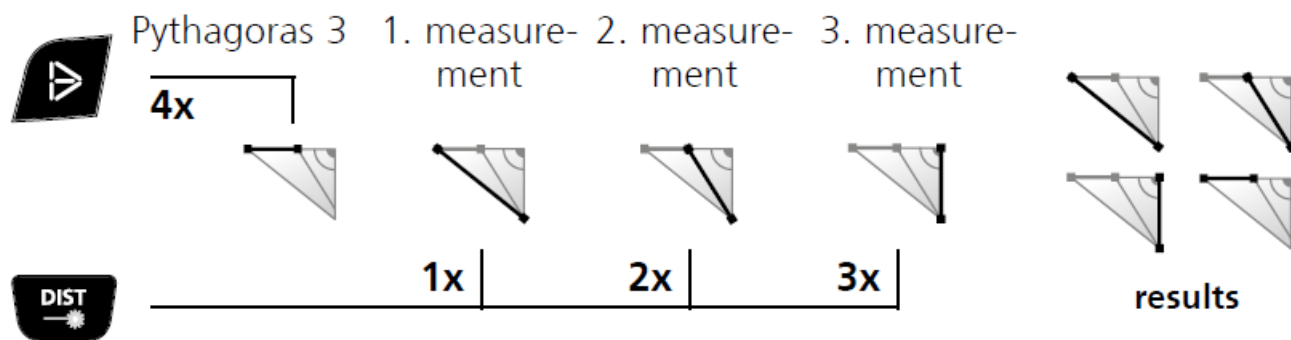
#### Pythagoras function 1:



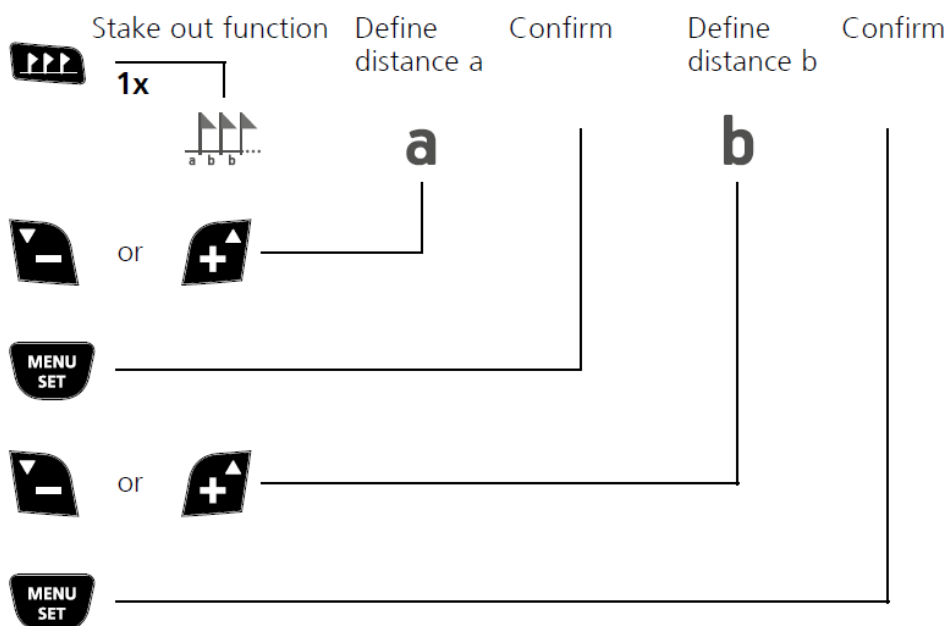
## Pythagoras function 2:



## Pythagoras function 3:

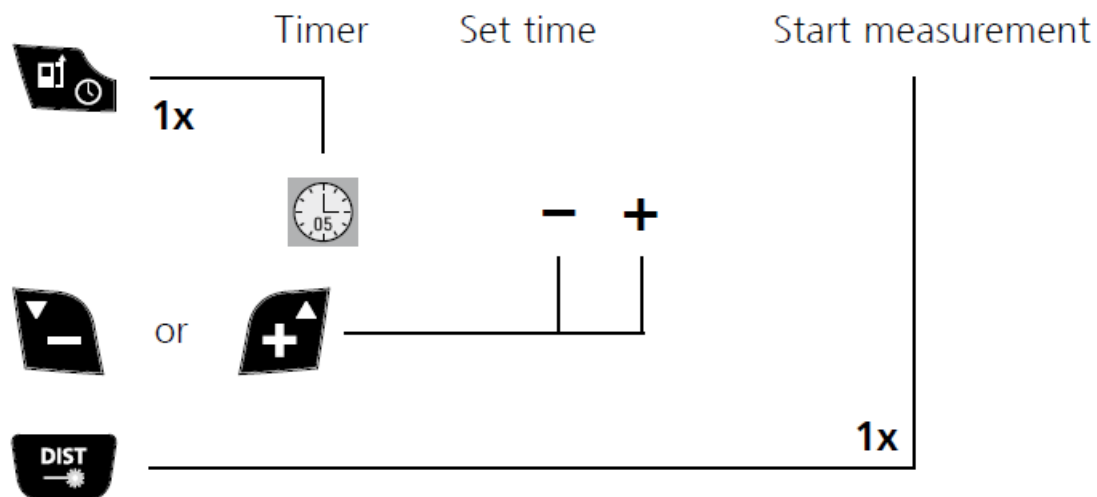


## Stake out function

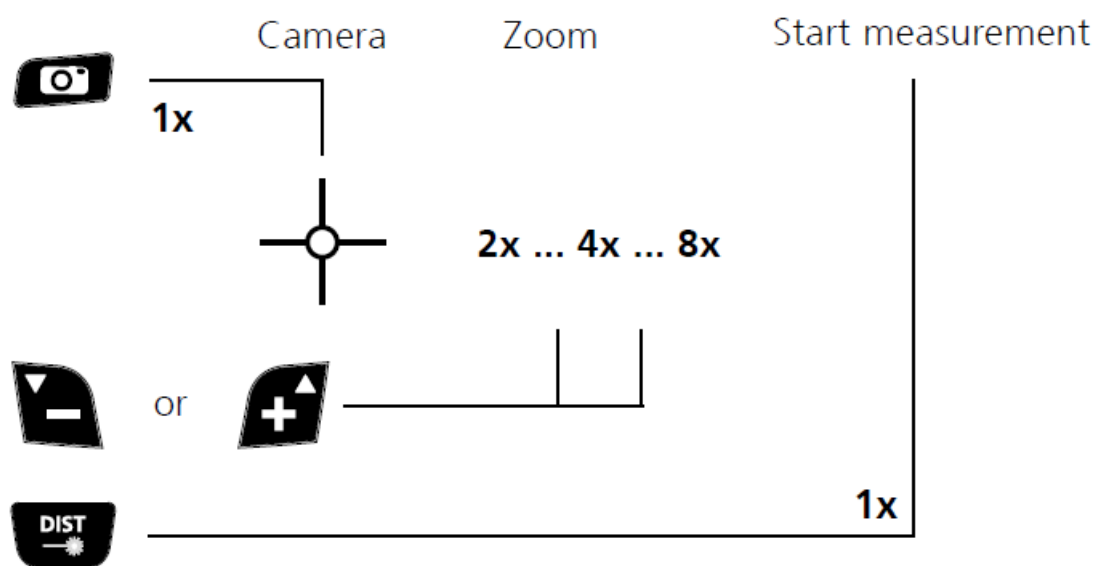


- To reach the target move the device in the direction of the arrow
- Target reached
- To reach the target move the device in the direction of the arrow

### Timer function

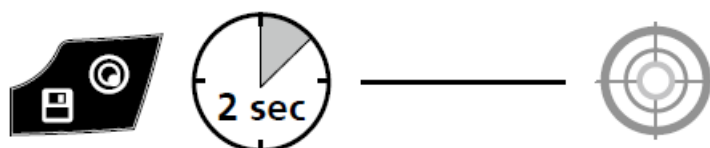


### Camera function



### Digital bubble level:

The digital bubble level is used to align objects.



### Memory function:

The device has 50 storage locations.



### Important notices

- The laser points to the location that will be measured. No objects may get into the laser's line of measurement.
- The device compensates the measurement for different room temperatures. Therefore allow the device a brief adaptation period when changing locations with large temperature differences.

- The device is only conditionally useable in outdoor areas and cannot be used in strong sunlight.
- The measurement results of outdoor measurements may be influenced or falsified by rain, fog and snow.
- In unfavorable conditions, e.g. with poorly reflecting surfaces, the maximum deviation may be greater than 3 mm.
- Carpeting, upholstery or curtains will not reflect the laser optimally. Measure to flat surfaces.
- Measurements made through glass (window panes) can falsify measurement results.
- An energy-saving function switches the device off automatically.
- Clean with a soft cloth. Water may not be allowed to penetrate the housing.

#### **Error code**

- Err 1: Received signal too weak
- Err 2: Received signal too strong
- Err 3: Replace the battery
- Err 4: Error in memory
- Err 5: Error in calculation with Pythagoras' theorem
- Err 6: Outside the measuring range
- Err 7: Error in camera
- Err 8: Error in inclination sensor

#### **Technical Data**

**Subject to technical changes without notice. 18W19**

<b>Technical Data</b> (Subject to technical changes without notice. 18W19)	
<b>Distance measurement</b>	
Precision (typical)*	± 2 mm
Measurement range (inside)**	0.05 m – 80 m
<b>Angle measurement</b>	
Measuring range	± 90°
Laser class	2 < 1 mW
Laser wavelength	635 nm
Operating conditions	-0°C...40°C, Max. humidity 20...85% rH, no condensation, Max. working altitude 2000 m above sea level
Storage conditions	-20°C...60°C, Max. humidity 80% rH
Automatic switch-off	adjustable
Power supply	3x nickel metal hydride (NiMH) rechargeable battery, type AAA 1,2 V
Dimensions (W x H x D)	58 x 135 x 30 mm
Weight (incl. batteries)	210 g

## EU directives and disposal

This device complies with all necessary standards for the free movement of goods within the EU. This product is an electric device and must be collected separately for disposal according to the European Directive on waste electrical and electronic equipment. Further safety and supplementary notices at: <http://laserliner.com/info?an=dimavi>.



## SERVICE

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## Documents / Resources

	<p><a href="#">Laserliner DistanceMaster Vision Laser Range Reading Range</a> [pdf] Instructions</p> <p>DistanceMaster Vision Laser Range Reading Range, DistanceMaster Vision, Range Reading Range, Reading Range</p>
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References

-  [Info - Laserliner](#)
-  [Home](#)