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Instrument Set-up EN

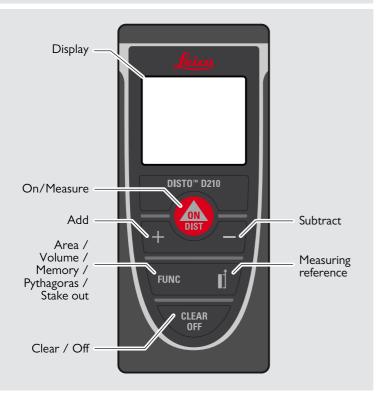
Overview



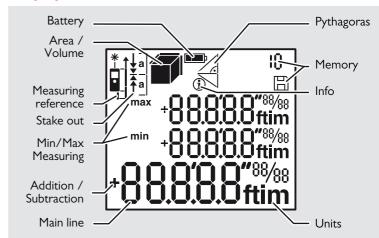
The safety instructions and the user manual should be read through carefully before the product is used for the first time.



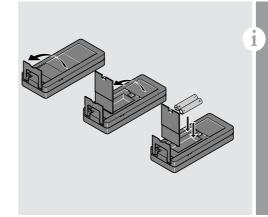
The person responsible for the product must ensure that all users understand these directions and adhere to them.



Display



Insert batteries



To ensure reliable use, do not use zinc-carbon batteries.

Change batteries when battery symbolis flashing.



Press ON button

Switching ON/OFF





Device is turned OFF.

Clear



Undo last action.



Leave actual function, go to default operation mode.

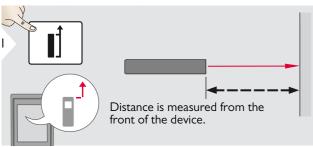
Message Codes

If the message "InFo" appears with a number, observe the instructions in "Message Codes" section. Example:

EN



Adjusting measuring reference

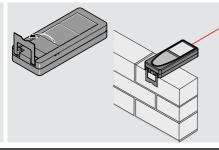


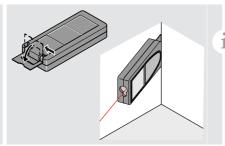
Press button



Distance is measured from the rear of the device (standard setting).

Multifunctional endpiece





Unit setting



2 sec simultaneously

Switch between the following units:

.000 m	0.00 ft
.0000 m	OXOOXXI/32
.00 m	0.00 in
	0 in 1/32

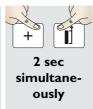
Beep ON/OFF

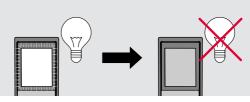


ously



Illumination ON/OFF





Keypad lock ON



2 sec simultaneously



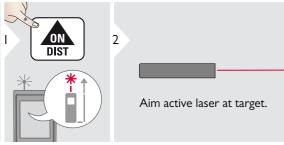
Keypad lock OFF

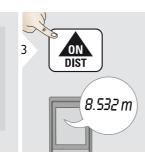






Measuring single distance

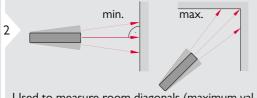




Target surfaces: Measuring errors can occur when measuring to colourless liquids, glass, styrofoam or permaeble surfaces or when aiming at high gloss surfaces. Against dark surfaces the measuring time increases.

Permament / Minimum-Maximum measuring





Used to measure room diagonals (maximum values) or horizontal distance (minimum values).

The minimum and maximum distance measured is displayed (min, max.). The last value measured is displayed in the main line.





Stops permanent / minimum-maximum measuring.

Add / Subtract





The next measurement is added to the previous one.

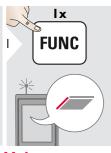


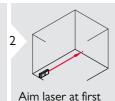
The next measurement is subtracted from the previous one.



The result is shown in the main line and the measured value above.
This process can be repeated as re quired. The same process can be used for adding or subtracting areas or volumes.

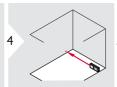
Area





target point.





Aim laser at sec-

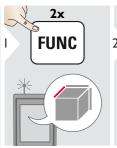
ond target point.

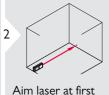


line and the measured value

Press + or - after starting the first measurement. Measure and add or subtract distances. Measure

Volume

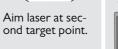




target point.



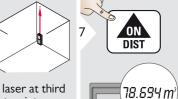








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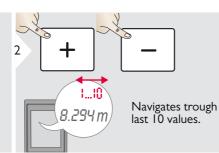


Aim laser at third target point.

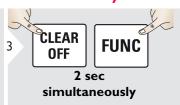
Memory (last 10 results)





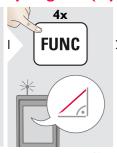


Delete Memory



Memory is completely deleted.

Pythagoras (2-point)



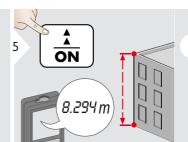


Aim laser at upper point.





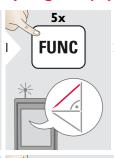
Aim laser rectangular at lower point.



The result is shown in the main line and the measured distance above.

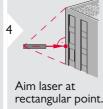
Pressing the measuring key for 2 sec in the func tion activates automatically Minimum or Maximum measurement.

Pythagoras (3-point)



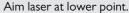




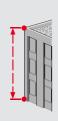






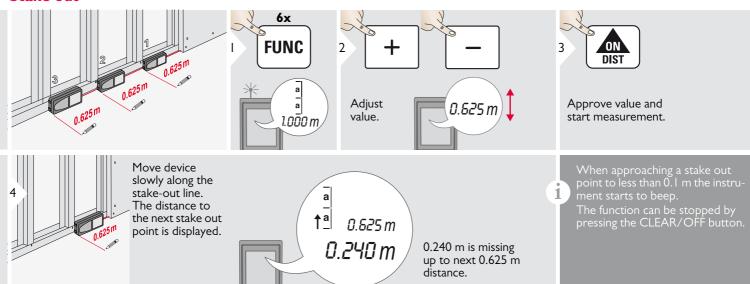






The result is shown in the main line and the measured distance above. Pressing the measuring key for 2 sec in the function activates automatical ly Minimum or Maximum measurement.

Stake out



General Typical Measuring Tolerance* ± 1.0 mm / ~1/16" *** \pm 2.0 mm / 0.08 in *** Maximum Measuring Tolerance** Range at Leica target plate 100 m / 328 ft GZM26 Typical Range* 0.05-80 m / 230 ft 50 m / 164 ft Range at unfavourable condition **** Smallest unit displayed 0.1 mm / 1/32 in Power Range Technology[™] yes Laser class 635 nm, < 1 mW Laser type 6 /30 / 60 mm Ø laser point at distances 10 / 50 / 100 m Protection class IP54 (dust- and splash water protected) Autom. laser switch off after 90 s Autom. power switch-off after 180 s Battery durability (2 x AAA) up to 5000 measurements Dimension (H x D x W) $114 \times 50 \times 27 \text{ mm}$ $4.49 \times 1.97 \times 1.06$ in Weight (with batteries) 126 g / 4.05 oz Temperature range: -25 to 70 °C Storage -13 to 158 °F -10 to 50 °C Operation 14 to 122 °F

* applies for	100 % target	reflectivity	(white	painted	wall)
low ambient	light, 25 °C				

^{**} applies for 10 to 500 % target reflectivity, high ambient light, - $10\,^{\circ}\text{C}$ to + $50\,^{\circ}\text{C}$

Functions	
Distance measuring	yes
Min/Max measuring	yes
Permanent measuring	yes
Stake-out	yes
Addition/Subtraction	yes
Area	yes
Volume	yes
Painter function (area with partial measurem.)	yes
Pythagoras	2-point and 3-point
Memory	10 results
Веер	yes
Illuminated display	yes
Automatic multifunctional endpiece	yes

If the message **Error** does not disappear after switching on the device repeatedly, contact the dealer.

If the message **InFo** appears with a number, press the Clear button and observe the following instructions:

No.	Cause	Correction
204	Calculation error	Perform measurement again.
252	Temperature too high	Let device cool down.
253	Temperature too low	Warm device up.
255	Received signal too weak, measuring time too long	Change target surface (e.g. white paper).
256	Received signal too high	Change target surface (e.g. white paper).
257	Too much background light	Shadow target area.
258	Measurement outside of measuring range	Correct range.
260	Laser beam interrupted	Repeat measurement.

^{***} Tolerances apply from $0.05\,\mathrm{m}$ to $10\,\mathrm{m}$ with a confidence level of 95%. The maximum tolerance may deteriorate to $0.1\,\mathrm{mm/m}$ between $10\,\mathrm{m}$ to $30\,\mathrm{m}$ and to $0.15\,\mathrm{mm/m}$ for distances above $30\,\mathrm{m}$

^{****} applies for 100 % target reflectivity, background illumination of approximately 30'000 lux

- Clean the device with a damp, soft cloth.
- Never immerse the device in water.
- Never use aggressive cleaning agents or solvents.

Disposal



Flat batteries must not be disposed of with household waste. Care for the environment and take them to the collection points provided in accordance with national or local regulations.

The product must not be disposed with household waste

Dispose of the product appropriately in accordance with the national regulations in force in your country.



Adhere to the national and country specific regulations.

Product specific treatment and waste management can be downloaded from our homepage.

Warranty

The device comes with a 3-year warranty. To receive the 3-year warranty, the product must be registered on www.disto.com within 8 weeks of the purchase date. If the product is not registered, a 2-year warranty applies.

The person responsible for the instrument must ensure that all users understand these directions and adhere to them.

Symbols used

The symbols used have the following meanings:



!\ WARNING

Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and/or appreciable material, financial and environmental damage.

Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and efficient manner.

Permitted use

Measuring distances

Prohibited use

- Using the product without instruction
- Using outside the stated limits
- · Deactivation of safety systems and removal of explanatory and hazard labels
- Opening of the equipment by using tools (screwdrivers, etc.)
- · Carrying out modification or conversion of the product
- Use of accessories from other manufacturers without express approval
- Deliberate dazzling of third parties; also in the dark
- Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)
- Deliberate or irresponsible behaviour on scaffolding, when using ladders, when measuring near machines which are running or near parts of machines or installations which are unprotected
- · Aiming directly in the sun

EN

Safety Instructions EN

Hazards in use



Watch out for erroneous measurements if the instrument is defective or if it has been dropped or has been misused or modified. Carry out periodic test measurements, particularly after the instrument has been subject to abnormal use, and before, during and after important measurements.



Never attempt to repair the product yourself. In case of damage, contact a local dealer.

MARNING

Changes or modifications not expressly approved by Leica Geosystems for compliance could void the user authority to operate the equipment.

Limits of use

Refer to section "Technical data".
The device is designed for use in areas permanently habitable by humans. Do not use the product in explosion hazardous areas or in aggressive environments.

Areas of responsibility

Responsibilities of the manufacturer of the original equipment:

Leica Geosystems AG

Heinrich-Wild-Strasse

CH-9435 Heerbrugg

Internet: www.disto.com

The company above is responsible for supplying the product, including the User Manual in a completely safe condition.

The company above is not responsible for third party accessories.

Responsibilities of the person in charge of the instrument:

- To understand the safety instructions on the product and the instructions in the User Manual.
- To be familiar with local safety regulations relating to accident prevention.
- Always prevent access to the product by unauthorised personnel.

Electromagnetic Compatibility (EMC)

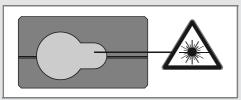


The device conforms to the most stringent requirements of the relevant standards and regulations.

However, the possibility of causing interference in other devices cannot be totally excluded.

Safety Instructions EN

Laser classification



The device produces visible laser beams, which are emitted from the instrument: It is a Class 2 laser product in accordance with:

• IEC60825-1 : 2007 "Radiation safety of laser products"

Laser Class 2 products:

Do not stare into the laser beam or direct it towards other people unnecessarily. Eye protection is normally afforded by aversion responses including the blink reflex.

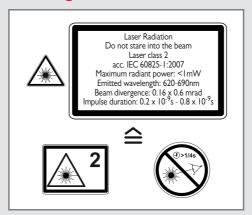
MWARNING

Looking directly into the beam with optical aids (e.g. binoculars, telescopes) can be hazardous.

ACAUTION

Looking into the laser beam may be hazardous to the eyes.

Labelling



Subject to change (drawings, descriptions and technical data) without prior notice.



Leica DISTO™ D210 788217a



Leica Geosystems AG, Heerbrugg, Switzerland has been certified as being equipped with a quality system which meets the International Standards of Quality Management and Quality Systems (ISO standard 9001) and Environmental Management Systems (ISO standard 14001).

Total Quality Management - Our commitment to total customer satisfaction. Ask your local Leica Geosystems agent for more information about our TQM program.

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Pat. No.: WO 9427164, WO 9818019, WO 0244754, WO 0216964,

US 5949531, EP 1195617, US 7030969, WO 03104748,

Patents pending



