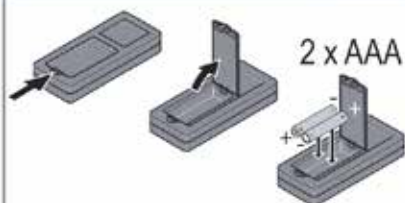
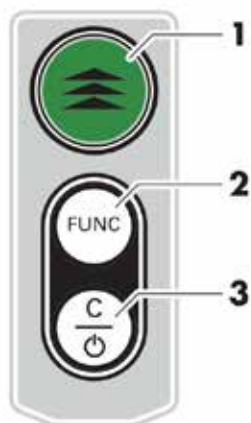


STABILA®



LD 220





2 sec = **UNIT**

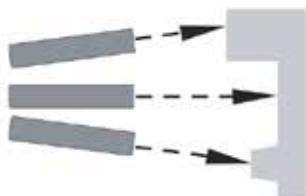
0.000 m, 0'00"1/16, 0 in 1/16





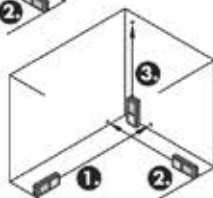
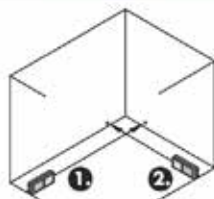
2 sec = **OFF**



2 sec



1 x 
2 x 



Product overview

- 1) On/Measure
- 2) Area / Volume / Unit
- 3) Clear / Off

Instrument Set-up

Introduction



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.

Technical data

Accuracy with favourable conditions *	$\pm 3.0 \text{ mm} / \pm 0.12 \text{ in}^{***}$
Accuracy with unfavourable conditions **	$\pm 4.0 \text{ mm} / \pm 0.16 \text{ in}^{***}$
Range with favourable conditions *	0.2-30 m / 0.6-98 ft
Range with unfavourable conditions **	0.2-20 m / 0.6-66 ft
Smallest unit displayed	1 mm / 0.04 in
Laser class	2
Laser type	635 nm, < 1 mW

Ø laser point at distances	6 / 18 mm 10 / 30 m
Protection class	IP54
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)	115 x 53 x 25 mm 4.5 x 2.1 x 1 in
Weight (with batteries)	95 g / 3.4 oz
Temperature range:	
- Storage	-25 to 70 °C -13 to 158 °F
- Operation	0 to 40 °C 32 to 104 °F

* favourable conditions are: white and diffuse reflecting target (white painted wall), low background illumination and moderate temperatures.

** unfavourable conditions are: targets with lower or higher reflectivity or high background illumination or temperatures at the upper or lower end of the specified temperature range.

*** Tolerances apply from 0.2 m to 5 m with a confidence level of 95%.

With favourable conditions the tolerance may deteriorate by 0.1 mm/m for distances above 5 m.

With unfavourable conditions the tolerance may deteriorate by 0.15 mm/m for distances above 5 m.

Message Codes

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.
254	Battery voltage too low for measurements	Change batteries.
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.

Laser classification

Wavelength	635 nm
Maximum radiant output power used for classification	0.95 mW
Pulse repetition frequency	320 MHz
Pulse duration	>400ps
Beam divergence	0.16 mrad x 0.6 mrad

Warranty

Stabila provides a two-year warranty for the product. Further information can be found on the Internet at:
www.stabila.de

Areas of responsibility

Responsibilities of the manufacturer of the original equipment:

STABILA Messgeräte
Gustav Ullrich GmbH
P.O. Box 13 40 / D-76851 Annweiler
Landauer Str. 45 / D-76855 Annweiler

USA/Canada:

STABILA Inc.
332 Industrial Drive
South Elgin, IL 60177
1.800.869.7460

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.

STABILA Messgeräte

Gustav Ullrich GmbH

P.O. Box 13 40 / D-76851 Annweiler

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www.stabila.com



	LASER 2		
IEC 60825-1:2014	$\lambda=635\text{nm}$	$P_{\text{av}}=0.95\text{mW}$	$t_p \Rightarrow 400\text{ps}$

