

STABILA®



...sets standards



**Compact class:
Laser distance
measurer LD 320**

NEW



**Measuring genius:
Laser distance
measurer LD 420**

NEW



**Telescope:
Laser distance
measurer LD 500**

**STABILA laser distance measurer:
The right product for every use.**

ACCURATE. TOUGH. RELIABLE. EASY-TO-USE.



Every craftsman today needs a laser distance measurer. Choose the right one.

Laser distance measurer LD 320:

The compact class. That you always have on you for all basic measuring functions.

Laser distance measurer LD 420:

The measuring genius. Optimum for anyone who makes measurements every day. Direct calculation with individually defined constants e. g. material and working costs enables a calculation on site. The wide range of functions and the top accuracy ensure rapid, secure measuring results. Water and dust protected as per IP 65.

Laser distance measurer LD 500:

The telescope. Ideal for outdoors. Records the target digitally. Range up to 650 ft. The integral camera display with crosshairs and zoom effect also allows you to measure precisely at large distances.



Compact class:
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Measuring genius:
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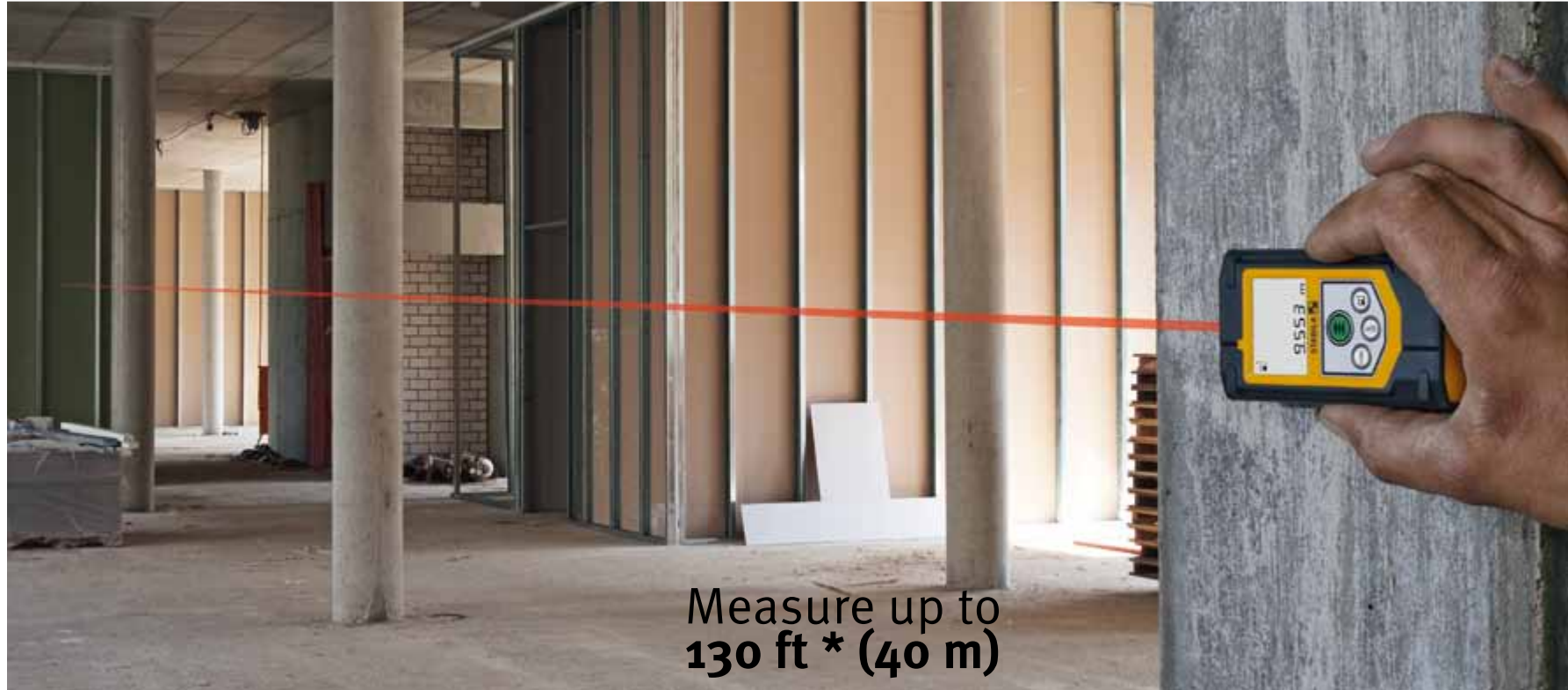
Telescope:
Laser distance
measurer LD 500



Laser distance measurer LD 320

Provides the basic measuring technology that craftsmen need on the building site.

- Rapid measurements – easy to operate measuring functions.
- Good readability thanks to large figures and illuminated display.
- Impact-resistant housing with shock-absorbing STABILA soft grip casing.
- The LD 320 fulfils the new international standard ISO 16331-1. You can really rely on the range and accuracy data.



Measure up to
130 ft * (40 m)



Belt pouch for easy carrying.

8 functions:

Length, area, volume, tracking (continuous measurement), Pythagoras with two measuring points, Pythagoras with three measuring points, minimum tracking, maximum tracking.

Includes: Laser distance measurer Type LD 320, belt pouch, 2 AAA batteries, with wrist-strap.



Laser class	Output	Laser wavelength	Accuracy typical	Measuring range	Protection class
2	< 1 mW	635 nm	± 3/32" @ 100 ft (± 2.0 mm)	0.17 – 130 ft* (0.05 – 40 m)	IP 40

Battery life	Batteries included	Cat. No.
Up to 3,000 measurements	2 x AAA	06320

* without reflector plate
(with reflector plate to 160 ft / 50 m)



The data on range and accuracy fulfil the new ISO 16331-1 for STABILA products that were developed from 2012 onwards.





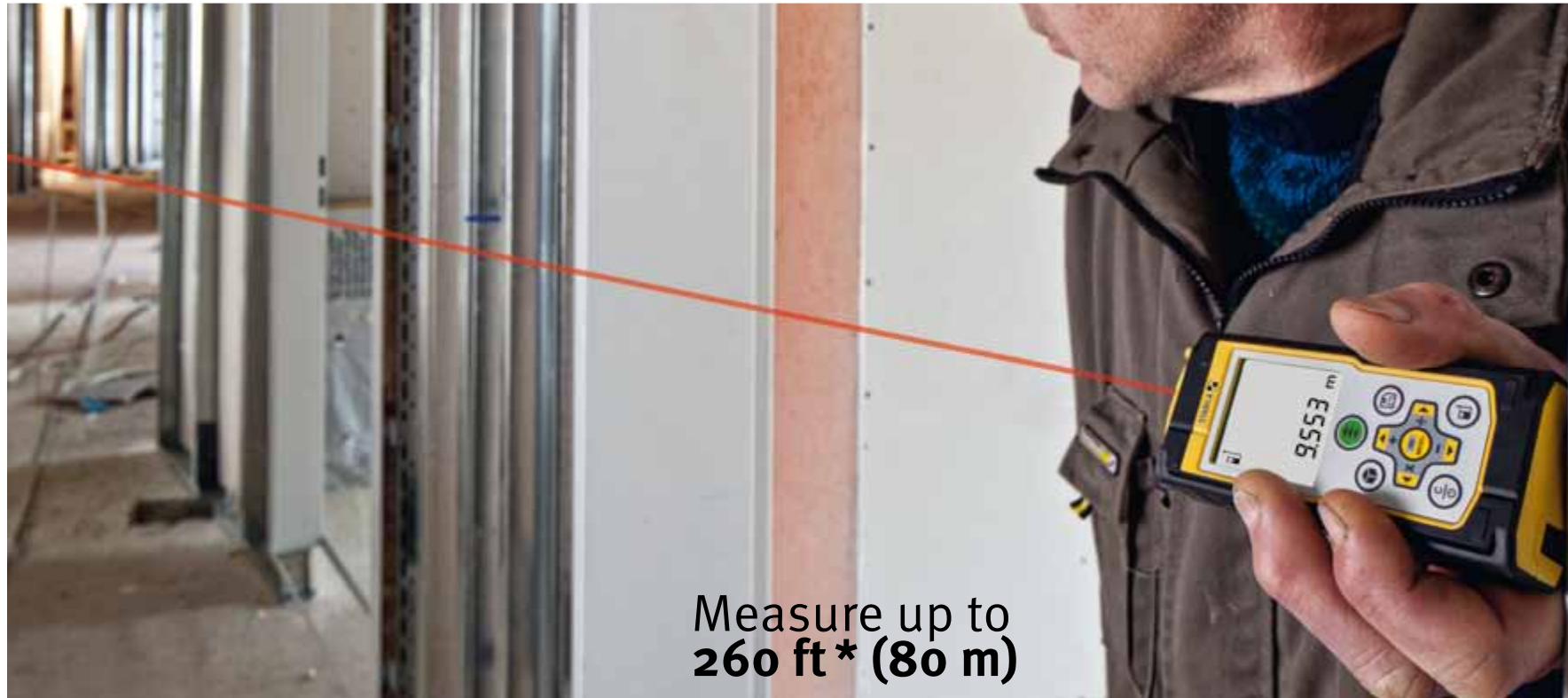
Laser distance measurer LD 420

The LD 420 is versatile. You add your personal constants to the memory – for example the working hour costs, the price per square FT of a material – then measure the rooms, use your constants to calculate the costs and present your offer in next to no time.

- You can call up additional information for many functions (Pythagoras, area, volume etc.): e. g. scope, wall and ceiling areas etc.

- Building site compatible design: The new LD 420 is protected against water and dust in line with IP 65 and has an impact-resistant housing with shock-absorbing STABILA soft grip casing.

- The LD 420 fulfils the new international standard ISO 16331-1. You can really rely on the range and accuracy data.



Measure up to
260 ft* (80 m)



13 functions:

Length, area, volume, tracking (continuous measurement), chain measurement, Pythagoras with two measuring points, Pythagoras with three measuring points, Pythagoras partial sections with three measuring points, minimum tracking, maximum tracking, timer, stake out, trapezoid.

Includes: Laser distance measurer Type LD 420, belt pouch, 2 AAA batteries, with wrist-strap.

Laser class	Output	Laser wavelength	Accuracy typical	Measuring range	Protection class
2	< 1 mW	635 nm	± 1/16" @ 100 ft (± 1.0 mm)	0.17 – 260 ft* (0.05 – 80 m)	IP 65

Battery life	Batteries included	Cat. No.
Up to 5,000 measurements	2 x AAA	06420

* without reflector plate
(with reflector plate to 320 ft / 100 m)

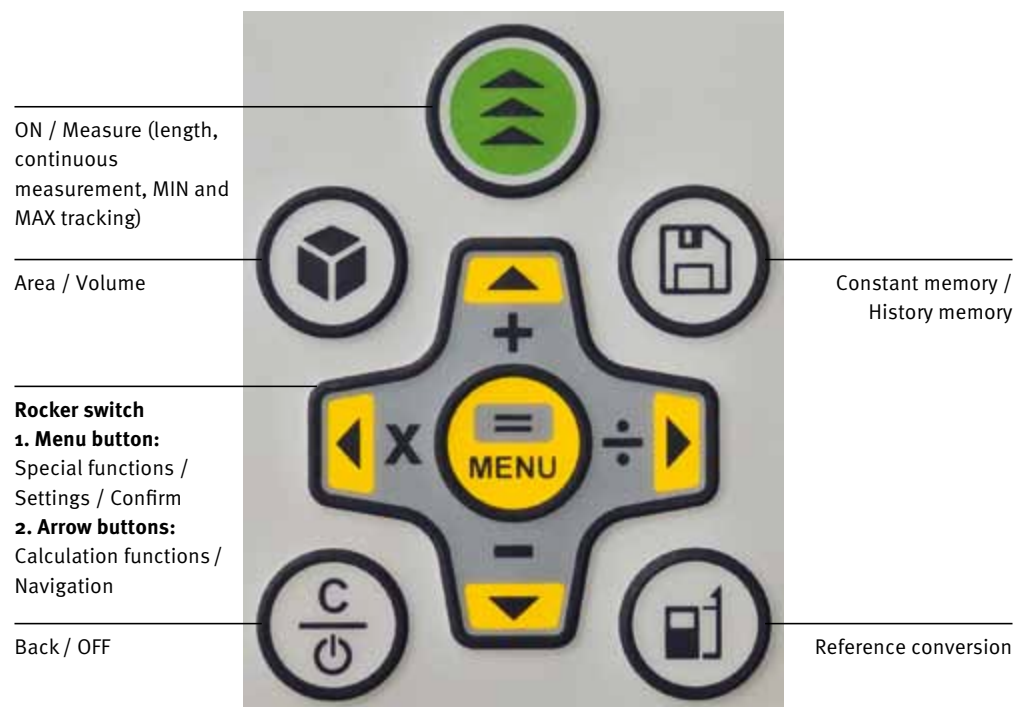


The data on range and accuracy fulfil the new ISO 16331-1 for STABILA products that were developed from 2012 onwards.

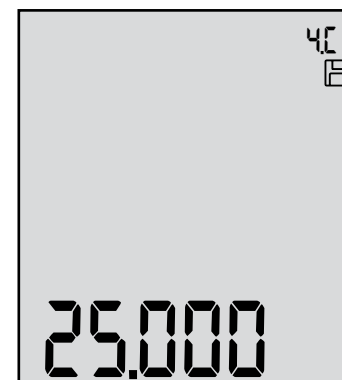


The new dimension in user friendliness.

The frequently used measuring functions are called up directly via the keypad. All other measuring functions and settings are saved in the menu, which you can access quickly via the STABILA rocker switch. You can intuitively navigate in the special measuring function level and the settings level in the menu ...



... makes measurements including quote formation fast.



1. Constant entry:
 Save frequently required constants in the memory.
 Example: Price per square FT for a wall area to be wallpapered 25.00 \$.



2. Compile measurement:
 Measure a room with the measuring function "Volume". Result in cubic FT.



3. Call up required additional information:
 Press menu button briefly and call up the additional information. Example: Wall areas without floor and ceiling 56.654 ft².



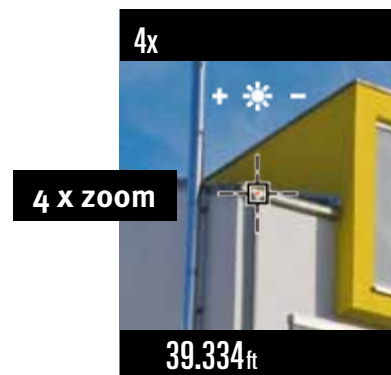
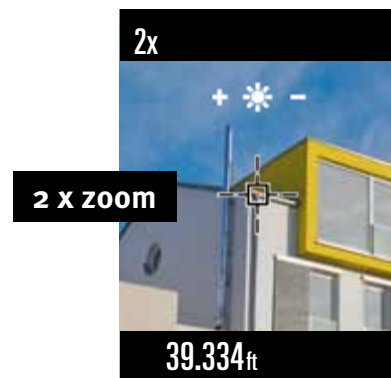
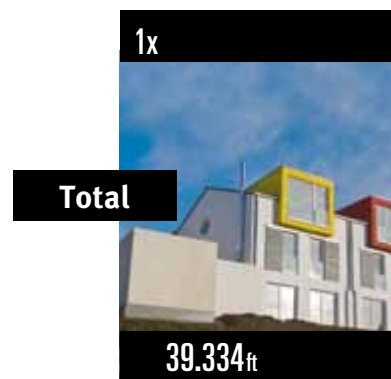
4. Calculation:
 Press multiplication button and multiply the area value with the saved constant. Result: Total costs of the wall area to be wallpapered 1,416.40 \$.



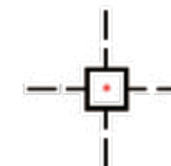
For architects, supervisors and civil engineers active outdoors.

You wish to measure precisely over large distances outside? Do you need extreme flexibility when measuring? Then the LD 500 is your quality partner:

- Digital target locator with 4 x zoom for measurements up to 650 ft.
- 2.4" color display.
- High resolution – crystal clear image also in bright light.
- Measurements precise to the laser point – indoors and outdoors.
- Inclination sensor for up to $\pm 45^\circ$. With the sensor it is possible to measure absolutely level as well as taking measurements over obstacles horizontally in the distance.
- Complex measurement function package.
- You can call up additional information for many functions (Pythagoras, area, volume etc.): e.g. scope, wall and ceiling area etc.
- Professional measurement precision: typically $\pm 1/16"$ @ 100 ft (± 1.0 mm).
- Protection class IP 54 (rain/dust).
- Robust, impact-resistant casing with shockabsorbent softgrip cover.



Crosshair technology. A measurement principle which you can count on.



Display with crosshair

- You can cleanly align the LD 500 with the large, color camera display.
- 4 x zoom.
- You capture your target point through the crosshair. The distance is precisely measured. You never have to search for the red laser point any more. Especially on long distances.
- The light sensor automatically regulates the display lighting, saving the battery life.

Includes: Laser distance measurer Type LD 500, plug-in target plate, belt pouch, 2 x AA Batterien, with wrist-strap.



Laser class	Output	Laser wavelength	Accuracy typical	Range	Protection class
2	< 1 mW	635 nm	$\pm 1/16"$ @ 100 ft (± 1.0 mm)	0.17 – 650 ft (0.05 – 200 m)	IP 54

Battery life	Batteries included	Cat. No.
Up to 5,000 measurements	2 x AA	06500





Comparison of the measuring functions.

1) Length measurement.

2) Area measurement.

3) Volume measurement.

4) Continuous measurement.

5) Determine chain measurement.

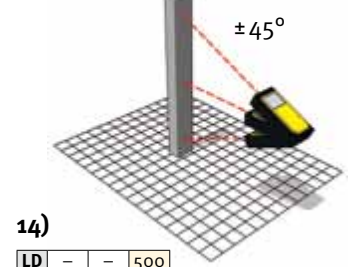
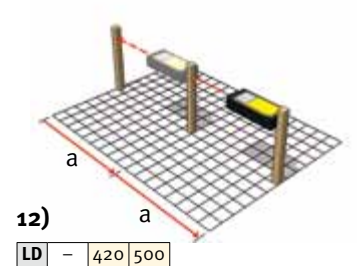
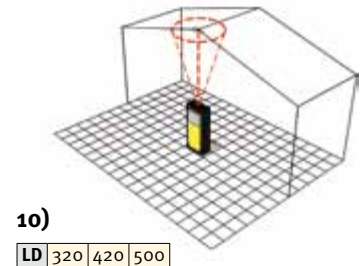
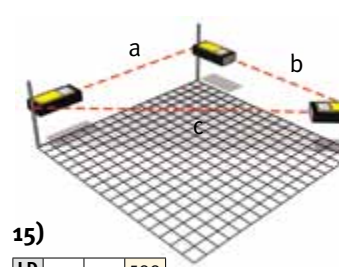
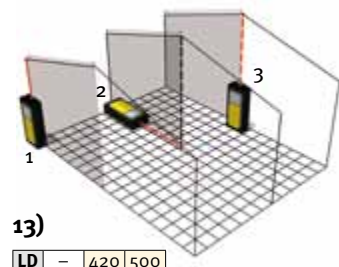
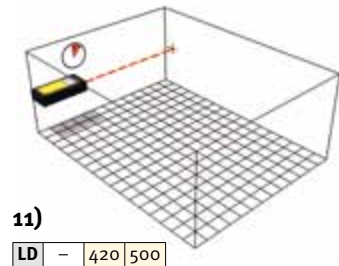
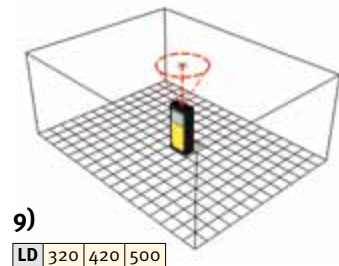
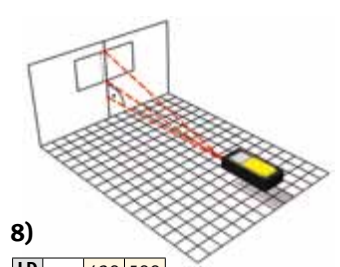
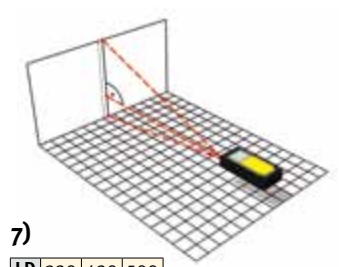
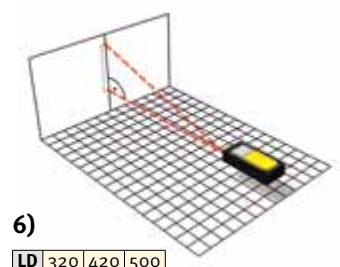
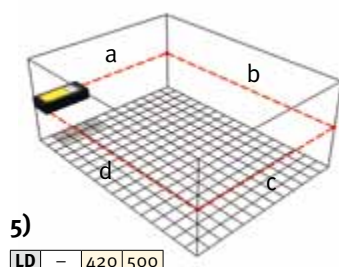
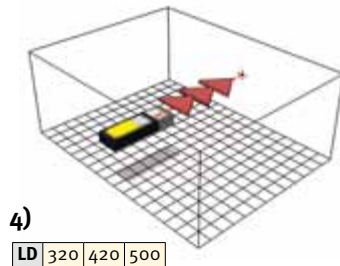
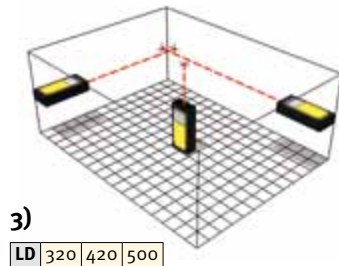
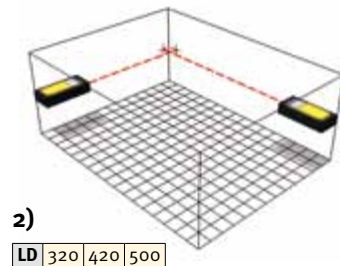
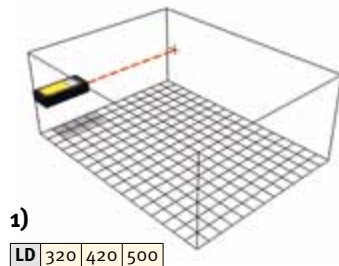
6) Pythagoras function 1: calculation of a distance using two related measurements.

7) Pythagoras function 2: calculation of a distance using three related measurements.

8) Pythagoras function 3: calculation of a part distance using three related measurements.

9) Minimum tracking is used to measure the shortest distance between two points (Minimum tracking).

10) Tracking, for instance to measure the maximum diagonal (Maximum tracking).



11) Auto-timer function: e.g. for blur-free measurement from a tripod.

12) Stake out distances.

13) Trapezoidal measurement: enables the measurement of inclines and distances not accessible directly.

14) Angle measurement: the angle sensor measures angles between $\pm 45^\circ$.

15) Triangular areas: calculates the surface area of a triangle using the lengths of the triangle's sides.



The STABILA laser distance measurer in comparison.

LD 320: Measure up to 130 ft * (40 m)

LD 420: Measure up to 260 ft ** (80 m)

LD 500: Measure up to 650 ft (200 m)

Properties	LD 320	LD 420	LD 500
Measuring accuracy	± 1/32" @ 100 ft (± 2.0 mm)	± 1/16" @ 100 ft (± 1.0 mm)	± 1/16" @ 100 ft (± 1.0 mm)
Measuring range	0.17 – 130 ft * (0.05 – 40 m)	0.17 – 260 ft ** (0.05 – 80 m)	0.17 – 650 ft (0.05 – 200 m)
Measuring functions			
Length measurement	✓	✓	✓
Area measurement	✓	✓	✓
Volume measurement	✓	✓	✓
Continuous measurement	✓	✓	✓
Determine chain measurement		✓	✓
Pythagoras 1: Section with 2 help measurements	✓	✓	✓
Pythagoras 2: Section with 3 help measurements	✓	✓	✓
Pythagoras 3: Partial section with 3 help measurements		✓	✓
MIN continuous measurement (minimum tracking)	✓	✓	✓
MAX continuous measurement (maximum tracking)	✓	✓	✓
Self-trigger (Timer)		✓	✓
Stake out distances		✓	✓
Trapezoidal measurement		✓	✓
Angle measurement			± 45°
Triangular areas			✓
Calculator		Constant entry (multiplication, division)	Constant entry (multiplication, division)
Additional measuring information such as scope, wall areas, ceiling or floor space		Scope, wall areas, ceiling or floor space, trapezoidal area etc.	Scope, wall areas, ceiling or floor space, trapezoidal area, triangular angle, triangle scope etc.
Memory		Last 20 values	Last 20 values
Constant memory		10 values	1 value
Protection class	IP 40	IP 65	IP 54
STABILA soft grip casing	✓	✓	✓
Target seeker	Notch grain principle	Notch grain principle	Digital (camera display with 4x zoom)
Display illumination	✓	✓	✓
Display	2 lines	4 lines	4 lines
Fold-out try square		Limit stop automatic, front edge and tripod connection manual	Automatic reference conversion
Reference conversion	Front, rear	Front, rear, limit stop, tripod	Front, rear, limit stop, tripod
Beep	✓	✓	✓
Thread (suitable for use on tripod)		1/4"	1/4"
Display unit	1 mm	0.1 mm	0.1 mm
Units	0.000 m, 0.00 m, 0'00" 1/16, 0.00 ft, 0.00 in, 0 in 1/16	0.0000 m, 0.000 m, 0.00 m, 0.00 ft, 0'00" 1/32, 0'00" 1/16, 0'00" 1/8, 0.00 in, 0 in 1/32, 0 in 1/16, 0 in 1/8	0.000 m, 0.0000 m, 0.00 m, 0.00 ft, 0'00" 1/32, 0'00" 1/16, 0'00" 1/8, 0'00" 1/4, 0.0 in, 0 in 1/32, 0 in 1/16, 0 in 1/8, 0 in 1/4, 0.000 yd
Size	Approx. 100 x 54 x 30 mm	Approx. 122 x 56 x 30 mm	Approx. 144 x 60 x 30 mm
Weight (inc. batteries)	Approx. 100 g	Approx. 130 g	Approx. 220 g
Battery life	Up to 3,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements

* without reflector plate (with reflector plate to 160 ft / 50 m)

** without reflector plate (with reflector plate to 320 ft / 100 m)



STABILA has the right accessories

Photo tripod FS

The tripod ensures convenient positioning of the laser during measurement. Ideal at large distances.



Tripod with spread stop for the use of lasers with $\frac{1}{4}$ " thread (Cat. No. 07480).

Reflector plate RP

A higher amount of light is returned to the laser with the help of the reflective foil. Optimum measuring results for poorly reflective surfaces and at large distances.



Reflector plate: 29 x 21 cm (Cat. No. 07610).



Controlled measuring quality.

The range and accuracy of laser distance measurers are directly related to the light conditions and the reflection performance of the measuring target. To ensure that the range and accuracy data is also valid under building site conditions, the standard ISO 16331-1 defines under what conditions the indicated specifications have to be complied with in respect to accuracy and measuring range. STABILA laser distance measurers with the identification ISO 16331-1 fulfil these requirements.

Our technical hotline will support you on all questions relating to product selection and use. Tel: 800-869-7460. You can of course also e-mail us at custservice@stabila.com

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You will find detailed product information at www.stabila.com