

# Leica DISTO™ D3a/BT

Multiple functions,  
precise measurements



**SITE PROOF**  
by Leica Geosystems

- when it has to be **right**

**Leica**  
Geosystems

Leica DISTO™

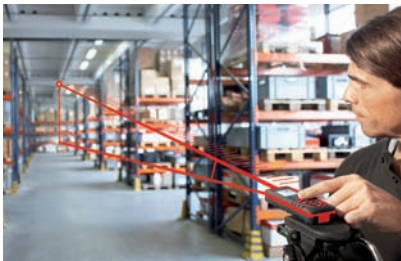
# D3a

## Can it measure that accurately?

With a measuring accuracy of  $\pm 1.0$  mm, the Leica DISTO™ D3a offers high precision at the touch of a button.

- Using the Leica DISTO™ D3a you can measure distances accurately in no time at all – even over obstructions – and determine tilts quickly and exactly.
- The large, illuminated display shows the measurement results and supplementary information clearly and legibly.
- The robust housing provides excellent protection against splash water and dust, while the softgrip surface means it is held securely.





### Smart Horizontal Mode™

Thanks to the combination of distance and tilt measurements you can determine the horizontal distance precisely and simply. If you take a measurement at an inclination of  $\pm 45^\circ$ , the Leica DISTO™ D3a always calculates the shortest distance. So you can measure quickly and easily, even over the top of objects and people.



### Multiple functions

The Leica DISTO™ D3a can calculate rectangular and triangular areas, volumes, room dimensions and various types of Pythagoras functions. A time delay release and enough memory for up to 20 measurements round off the instrument's wide range of functions – a concept designed to make your work life easier.



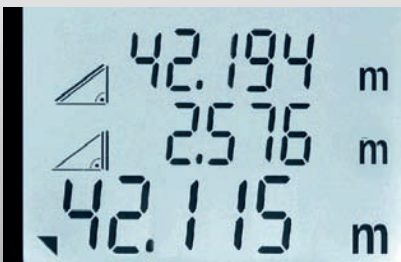
### Multifunctional endpiece

Aim the instrument straight at the target point, whether measuring out of corners, slots or from edges: with this endpiece you are prepared for all measuring situations. The instrument detects the endpiece automatically, which helps you avoid expensive measuring errors.



### Power Range Technology™

The integrated Power Range Technology™ makes measuring long distances very easy. You can measure up to 80 m without a target plate and even up to 100 m with a target plate, without having to take single step.

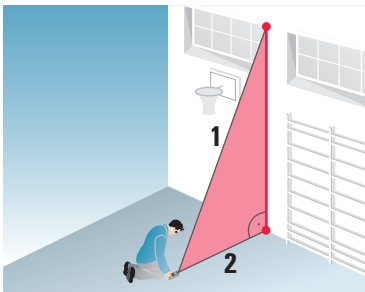


### Detailed display

At the touch of a button, the display makes supplementary information available about the measurements, e.g. room dimensions, angle information or room angles.

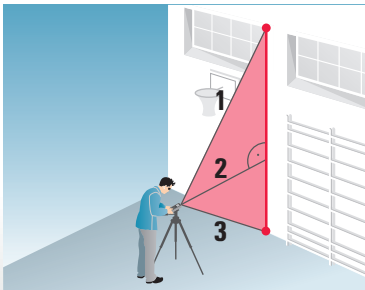
# The certain way to achieve your measurement goals

## Indirect measurements using Pythagoras



### Single Pythagoras measurement

Just two measurements are enough to indirectly calculate the horizontal and vertical distances. It is important to ensure that the second measurement is at a right angle to the target object – child's play with the automatic minimum measurement function.



### Double Pythagoras measurement

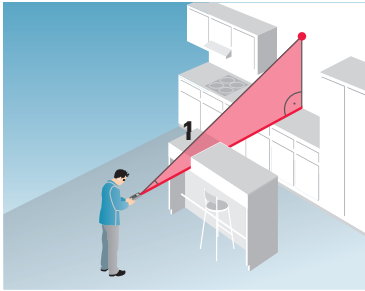
Using the tripod you can measure horizontal and vertical distances. The Leica DISTO™ D3a determines the result itself for you out of three measurements. Functions such as automatic minimum and maximum measurement help you find the correct measuring point.



### Double Pythagoras measurement (chain values)

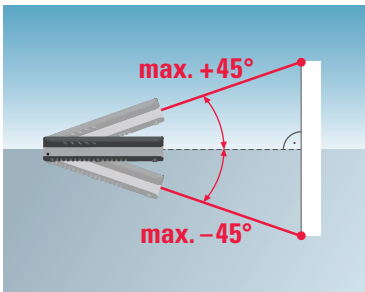
With three measurements you can determine partial heights, e.g. window heights. And of course horizontal and vertical distances.

# Special functions



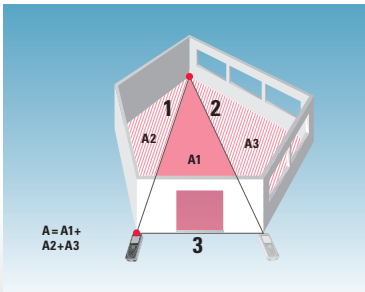
## Smart Horizontal Mode™

The tilt measurement function allows you to determine a horizontal distance even if the target point is not directly visible. This function is helpful, for example, when walls, furniture or people are in the way of the target.



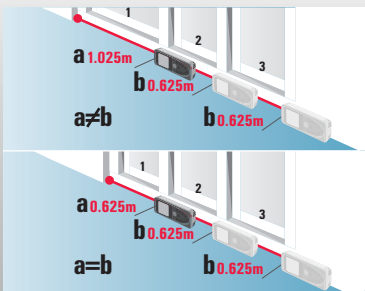
## Tilt measurement

The tilt sensor measures tilts up to  $\pm 45^\circ$  and a typical use is for determining the pitch of a roof. Slopes can also be displayed in %, eliminating conversion errors.



## Triangle function

The triangle function helps you quickly and easily determine the area of a non square room. Divide the room into imaginary triangles. With only three measurements you can determine the area of each of your triangles, which you add together at the same time. Then all you have to do is read off the result.



## Staking out function

Two different distances (a and b) are entered into the device and are then used to mark off defined measured lengths. The display always shows the current staking out distance and a direction arrow. At a distance of 0.1m to the next staking-out point the instrument starts to emit an audible signal.

Leica DISTO™

# D3a BT

## Can it transfer data simply?

The Leica DISTO™ D3a BT has all the characteristics of the DISTO™ D3a. In addition it offers the convenience of wireless, error-free data transfer to PCs and pocket PCs.

- You can transfer data directly to your PC with the integrated BLUETOOTH® technology and avoid expensive typing errors.
- Using the navigation keys on the DISTO™ you can control the movements of the cursor on your PC.
- The data transfer software "Leica DISTO™ Transfer" is included – simple to install and with automatic updates. Your measured data can be quickly and simply transferred into Excel®, Word®, AutoCAD® or other programs for further processing.



 Bluetooth®



Functions	D3a	D3a BT
Smart Horizontal Mode™	•	•
Minimum/maximum measurements	•	•
Continuous measurement	•	•
Addition/subtraction	•	•
Area/volume measurement	•	•
Room dimensions	•	•
Indirect measurements using Pythagoras	•	•
Optical sight	•	•
Technical specifications		
Typical measuring accuracy	± 1.0 mm	± 1.0 mm
Range	0.05 to 100 m	0.05 to 100 m
Measuring units	m, ft, in	m, ft, in
Power Range Technology™	•	•
Distance in m	10, 50, 100 m	
∅ laser dot in mm	6, 30, 60 mm	
Tilt sensor		
Measuring range	± 45°	± 45°
Accuracy to laser beam	± 0.3°	± 0.3°
Accuracy to housing	± 0.3°	± 0.3°
Units in tilt sensor	0.0°, 0.0%	0.0°, 0.0%
Store constant values	1	1
Recall last values	20	20
Time delay release (Timer)	•	•
Display illumination	•	•
Free software		•
Data interface*		BLUETOOTH® (class 2)
Measurements per set of batteries	up to 5000	up to 5000**
Multifunctional end-piece	•	•
Tripod thread	•	•
Batteries	Type AAA 2×1.5V	Type AAA 2×1.5V
Spray water/dust protected IP 54	•	•
Dimensions	127×49×27.3 mm	127×49×27.3 mm
Weight with batteries	149 g	150 g

\*) System requirements and recommended pocket PCs can be found at [www.disto.com](http://www.disto.com)

\*\*\*) Reduced in BLUETOOTH® mode

All illustrations, descriptions and technical specifications are subject to change without prior notice. Printed in Switzerland. Copyright Leica Geosystems AG, Heerbrugg, Switzerland 2010



Laser class 2  
In accordance with IEC 60825-1



**Günter Vigl (Kitchen installer)**

“While working indoors I come across very many different measurement situations. Thanks to the Leica DISTO™ D3a with its integral tilt sensor, I can deal with them quickly and accurately. This gives me the certainty that I need.”

Your dealer



**Egon Schimpel (Window fitter)**

“Measuring out of corners, slots and from edges is a frequent task in window installation. Therefore the Leica DISTO™ D3a BT with its multifunctional endpiece is a real help. The values are transferred automatically to my pocket PC making the whole thing perfect.”



[www.leica-geosystems.com](http://www.leica-geosystems.com)

762 507c-en

- when it has to be **right**

**Leica**  
Geosystems