

# Leica DISTO™ D5/D8

Measure distances  
and much more



- when it has to be **right**

**Leica**  
Geosystems

# Measuring with the Leica DISTO™

## Simple, quick and accurate!



 Bluetooth®

### ■ World First

Digital Pointfinder with 4x zoom and high resolution 2,4" colour display allows quick and easy targeting, even in bright sunlight.

### ■ Versatility

Thanks to its versatility, Leica DISTO™ offer the perfect solution for every measuring situation.



■ **Quick and efficient**

You can measure distances at the touch of a button, in just a few seconds – even when working on your own. Saving you time and money.

■ **Precise and reliable**

The laser makes it possible for you to measure distances precisely to the millimetre.

■ **Safe and modern**

You can avoid dangerous measurement situations and potential associated accidents. Use the modern technology of today.

Leica DISTO™

# D5

WORLD FIRST:  
DIGITAL POINTFINDER  
WITH 4x ZOOM!

## Outside viewing – no problem?

The Leica DISTO™ D5 is designed with many functions and features to make measuring easier, particularly when you are working outdoors.

- Its large, high resolution colour display presents the measurement results and additional information in an easy to read format.
- A host of functions help you quickly and precisely to resolve almost any measurement situation.
- A robust housing gives optimum protection against splash water and dust.





### Digital Pointfinder

The integrated digital Pointfinder with a 4x zoom and 2.4" colour display makes finding the target at long distances much easier. Its high resolution capability provides a sharp, crystal-clear image, which allows measurements to be taken even in glaring sunshine.



### Tilt sensor

Thanks to the in-built tilt sensor, you can quickly and simply measure tilts up to  $\pm 45^\circ$ . The tilt sensor also allows you to measure absolutely horizontally or measure past obstructions (horizontal distance).



### Power Range Technology™

The integrated Power Range Technology™ allows you to measure long distances very simply. Measure up to 100 m without a target plate, and even up to 200 m using a target plate, without having to take a single step.



### Spot-on measurement

The laser makes it possible! The laser dot is clearly visible, therefore you always know exactly where you are measuring, which is especially useful in difficult to access places. So you can take absolutely precise measurements, even over long distances.



### Details displayed

Additional information about the measurements, e.g. room dimensions or angles, is available at the touch of a button.

Leica DISTO™

# D8

 Bluetooth®

## Can it transfer data simply?

The Leica DISTO™ D8 offers, in addition to what the DISTO™ D5 can do, even more attractive advantages:

- By means of the integrated BLUETOOTH® technology you can directly transfer data to your computer and thus avoid costly typing mistakes.
- The combination of a high precision distance meter and tilt sensor with an intelligent measuring function helps to solve measuring problems that up till now needed considerably more expensive solutions.





### 360° tilt sensor

The combination of angle and distance measurements allows you to determine distances where conventional methods fail. The horizontal distance, for example, can also be determined quickly and efficiently past obstacles or the elevation of a tree, even though there is no reflective point.



### Digital Pointfinder

Thanks to the digital Pointfinder with its 4x zoom and high resolution 2,4" colour display, you can measure long range distances quickly and easily because you always see your targeted point.



### BLUETOOTH®

With integrated BLUETOOTH® technology, measurement results can be wirelessly and accurately transferred to Pocket PCs and PCs. Thus you can easily process your data in Excel®, Word®, AutoCAD® and other programs.



### Free software

The delivery package contains the transfer software "Leica DISTO™ Transfer" – easy to install and with automatic updates. The AutoCAD® plug-in additionally allows convenient planning and drawing with your AutoCAD® software.



### Indirect measurement

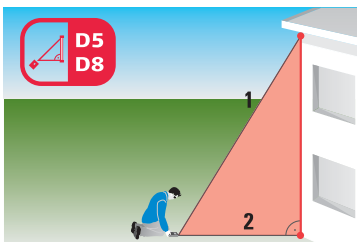
With the Leica DISTO™ D8 you can also indirectly determine the elevation on inaccessible buildings. Thus the Leica DISTO™ can be a life saver as well.

# Leica DISTO™ D5/D8

## The perfect way to achieve your measurement goals

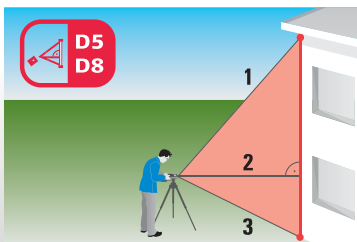


### Indirect Pythagoras measurement



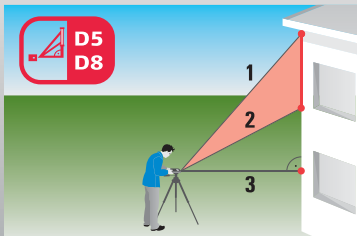
#### Single Pythagoras measurement

Just two measurements are enough to indirectly calculate the horizontal or vertical distances. It is important to ensure the 2<sup>nd</sup> measurement is at right angles to the target object – easy with minimum measurements.



#### Double Pythagoras measurement

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

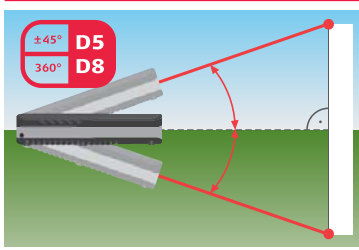


#### Double Pythagoras measurement (chain values)

With just three measurements, you can also determine partial heights, e.g. balcony or window heights. This is, of course, possible horizontally and vertically.

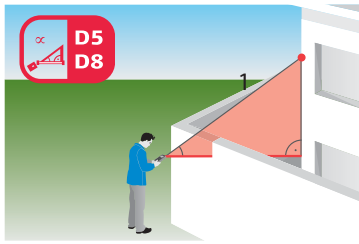


# Indirect measurements with the tilt sensor



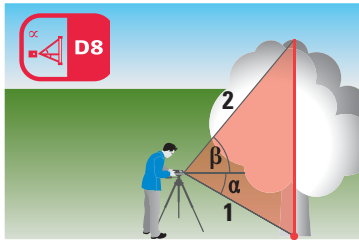
## Tilt measurement

The tilt sensor of the Leica DISTO™ D5 measures inclinations of up to  $\pm 45^\circ$  and the DISTO™ D8 has a measuring range of  $360^\circ$ . That means with this device even overhead inclinations can be measured. This is especially interesting when determining roof slopes.



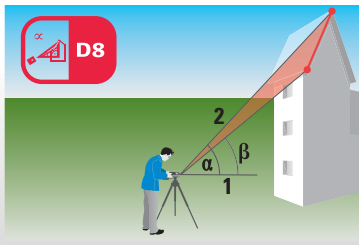
## Horizontal distance

The tilt measurement allows you to determine the desired horizontal distance, even if the object cannot be directly targeted. This is particularly useful when obstructions like walls or hedges stand in the line of sight.



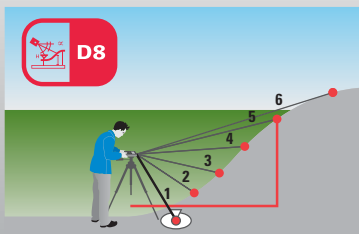
## Height measurement without reflective points

Building or tree elevations that don't provide suitable reflection points can be determined with the dual tilt measurement. Point with the laser to the lower target of the requested height and trigger a distance and tilt measurement. Then direct the digital Pointfinder on the upper target and carry out a tilt measurement.



## Roof slope

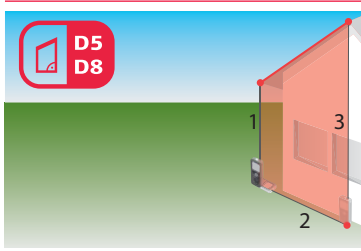
With this function you can, for example, measure a roof slope of a house from long range distances as well. For this you need to carry out two distance measurements, at which the Leica DISTO™ also simultaneously determines the tilt. The final result is automatically calculated from this measurement.



## Altitude Profile Measurement

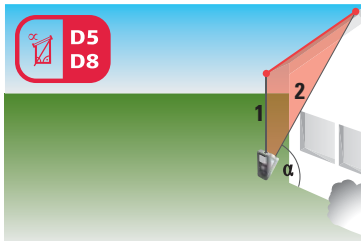
Measure a known reference mark with the device and then measure from each of the relevant altitude differences. When the measuring points have all been recorded in one direction you can then determine a cross-country tread with the measured horizontal distance and the height difference.

# Special functions



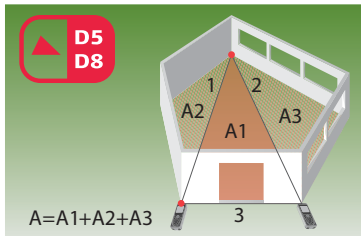
## Trapezium function

The trapezium function is used to quickly and safely determine roof slopes and frontage areas, for example. You only need to take three measurements, and the result appears on the display.



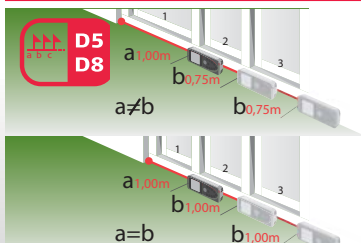
## Trapezium function with tilt sensor

If access to the object to be measured is limited and measurements can only be taken from one position, then this is no problem – thanks to the integral tilt sensor. This trapezium function can also be used to quickly and safely determine roof slopes and frontage areas.



## Triangle function

The triangle function helps you quickly and efficiently to arrive at the area of a multi-cornered room. Divide the room into imaginary triangles. Then use three measurements to determine the areas of each of the triangles, which you can add together as you proceed. Finally all you have to do is read off the result.



## Stake Out Function

Two different distances (A and B) can be entered in the device and then be used to mark off defined measured lengths. At each measured length, the display shows the current marking distance and a direction arrow. Additionally, an alarm signal starts to ring at a distance of 0,1 m from the next stake out point.

# Delivery package and accessories



Leica DISTO™ D5 delivery package



Leica DISTO™ D8 delivery package

## Leica DISTO™ accessory range



**Softbag**  
Art. No. 667169



**Arm holster**  
Art. No. 739200  
For Pocket PCs



**Laser glasses**  
Art. No. 723777  
For better visibility of the laser dot outside



**GLK 25 charger with rechargeable batteries, EU version, Art. No. 741905**

**4 rechargeable batteries**  
Art. No. 741897



**Stick-on target plates**  
Art. No. 723774  
(45 mm x 100 mm)  
For fixing on edges



**Stick-on target plates**  
Art. No. 766560  
(197 mm x 274 mm)  
For placing on ground markers



**Target plate**  
Art. No. 723385  
DIN A4 with two different surfaces, recommended from 50m



**Tripod Leica TRI 100**  
Art. No. 757938  
Quality tripod with very easy fine adjustment



**Adaptor for attachment to pole and tripod (LSA 360)**  
Art. No. 769459



Laser class 2  
in accordance with  
IEC 60825-1

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Functions	D5	D8
Minimum/maximum measurements	•	•
Continuous measurement	•	•
Addition/subtraction	•	•
Area/volume measurements	•	•
Room dimensions	•	•
Indirect measurement with Pythagoras	•	•
Horizontal distance past obstructions	•	•
Trapezium measurements	•	•
Indirect measurements using tilt sensor		•
Altitude Profile Measurements		•
BLUETOOTH® data transfer		•
Navigation keys for BLUETOOTH® applications		•
Technical Data		
Typical measuring accuracy	± 1.0 mm	± 1.0 mm
Range	0,05 to 200 m	0,05 to 200 m
Power Range Technology™	•	•
Distance in m	10, 50, 100 m	10, 50, 100 m
Ø of the laser dot in mm	6, 30, 60 mm	6, 30, 60 mm
Tilt sensor		
Measuring range	± 45°	360°
Accuracy to the laser beam	± 0,3°	- 0,1°/+ 0,2°
Accuracy to the housing	± 0,3°	± 0,1°
Units in the tilt sensor	0,0°, 0,00%, mm/m, in/ft	0,0°, 0,00%, mm/m, in/ft
4-fold digital Pointfinder	•	•
Store constant values	1	1
Recall last values	20	30
Time delay release (timer)	•	•
Display illumination	•	•
Measuring units	0,0000m, 0,000 m, 0,00 m, 0,00 ft, 0' 00" 1/32, 0,00 in, 0 1/32 in, 0,000 yd	0,0000m, 0,000 m, 0,00 m, 0,00 ft, 0' 00" 1/32, 0.00 in, 0 1/32 in, 0,000 yd
Free Software		•
Data interface*		BLUETOOTH® (class 2)
Measurements per battery set	up to 5.000	up to 5.000**
Multifunctional end piece with automatic detection	•	•
Metal tripod mounting thread	•	•
Batteries	Typ AA 2x1,5V	Typ AA 2x1,5V
Spray proof/dust protected IP54	•	•
Dimensions	143,5x55x30 mm	143,5x55x30 mm
Weight with batteries	195g	205g

\*1 System requirements and recommended Pocket PCs can be found under: [www.disto.com](http://www.disto.com)

\*\*1 Reduced in BLUETOOTH® mode

# Millions trust Leica quality

Over 15 years ago Leica Geosystems invented the first hand-operated laser distance measuring instrument and revolutionised the world market. Today Leica DISTO™ is made use of in many applications and eases the daily routines of our users, for example:



**Storable** – measuring long range distances with the digital Pointfinder



**Property management** – determines the horizontal distance past obstacles



**Fire brigade** – indirect height measurement with the pythagoras function



**Construction sites** – robust housing protects against dust and water splashing



**Architect** – zero defect operation with data transfer by **BLUETOOTH®**



**Carpenter** – overhead inclination measurement with the 360° tilt sensor



**Detlef Foht (Crane Driver)**

"I often have to measure long distances on site. Therefore I find the Leica DISTO™ D5 with its digital Pointfinder extremely useful."



**Wilfried Fink (Joiner)**

"An instrument that measures distances and tilts, is robust and still fits into my pocket. Pure genius!"

Dealer Stamp



[www.disto.com](http://www.disto.com)

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