

# Leica DISTO™

The original laser distance meter



**SITE PROOF**  
by Leica Geosystems



- when it has to be **right**

**Leica**  
Geosystems

# Why do you make your life so miserable?



## There is an alternative:

- **Quick and efficient**

Just press the button and measure. One person measuring that saves you both time and money.

- **Precise and reliable**

Measure up to 200 meters with millimeter accuracy.

- **Safe**

Avoid hazardous measuring procedures. Measure safely with a Leica DISTO™!

Measure with:



Range up to 200 m				✓
Power Range Technology™				✓
Laser accuracy				✓
Measure hard to reach areas				✓
One-person measuring	✓	✓	✓	✓
Memory function			✓	✓
Area/volume calculation			✓	✓
Integrated level				✓

# Measure with **Leica DISTO™:** Easy, quick and precise

- **Versatile**

Measure indoors, outdoors  
and hard to reach areas.

- when it has to be **right**

**Leica**  
Geosystems

# Leica DISTO™ D2

The small partner –  
for indoor applications

The compact and handy base model was specifically designed for indoor applications. Shortcut keys for addition, subtraction, area and volume calculation make measuring fast and very reliable. The last 10 measurements are also stored. As with all Leica laser distance meters, the laser dot is clearly visible. You can always see your targeting point, even if the target object is in a hard to access area. Leica DISTO™ D2 – you will never use a measuring tape again!

**Precise measuring: fast and easy –  
fits into every pocket!**



**SMALLEST  
LASER DISTANCE METER  
IN THE WORLD!**





**Quick and easy – measure distances at the touch of a button and calculate areas or volumes.**



**Measure from edges or corners – with the flip-out end-piece you are equipped for any measuring situation.**

Features	Your advantages
Measuring range 0.05 m up to 60 m; typ. accuracy $\pm 1.5$ mm	Precise, fast and reliable indoor measurements
Shortcut keys	Easy-to-use and rapid access to frequently used functions
Illuminated 3-line display	Measured values can be read even in the dark
Flip-out end-piece	Measure from edges or corners
Stake out function	Stake-out equal distances
Time delay release	Measure without shake
Simple Pythagorean functions	Indirect height and width measurements for inaccessible positions
IP 54	Splash and dust proof

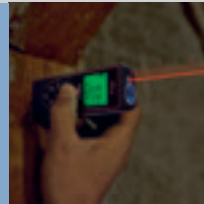
#### Small and handy

Thanks to its ergonomic and compact design with soft grip, the Leica DISTO™ D2 sits securely in your hand and fits into any pocket.



#### Clear display

The results are shown on a 3-line display. The illuminated display is easily readable, even in the dark.



#### Simply clever

Minimum / maximum measurements, tracking and storage of results makes your work much easier.



# Leica DISTO™ D3

The multi-talented instrument –  
for indoor applications

The Leica DISTO™ D3 is a multi-functional instrument to ensure simple, quick and reliable measurements. You can measure distances with absolute accuracy, even past obstructions and determine angles quickly and precisely. The integrated tilt sensor also provides you with a perfectly horizontal distance measurement. Another sensor detects the lighting conditions and automatically switches on the display and keypad illumination. You can rely on your Leica DISTO™ D3 while working in the dark.

**Versatility and precision in a modern design.**





When ever you need accurate measurements: Leica DISTO™ D3 has an accuracy of  $\pm 1.0$  mm.



Automatically illuminated display: The measured values are easily readable, even in the dark.

Features	Your advantages
Measuring range 0.05 up to 100 m; typical accuracy $\pm 1.0$ mm (displayed to 1/10 mm accuracy)	Precise, quick and reliable measurements of indoor dimensions
Tilt sensor (accuracy $\pm 0.3^\circ$ )	Measure angles up to $\pm 45^\circ$ at the touch of a button
Indirect measurements with the help of the tilt sensor	Horizontal distances can be measured without problem despite nearby obstructions
Flip-out end-piece with automatic detection	Reliable, trouble-free measurement from edges or out of corners
Pythagorean functions	Indirect height and width measurements at inaccessible positions
Room function summary	Values like total wall length, wall and ceiling areas are available at the touch of a button
Stake out function	Stake out equal or two different recurring distances
Room angle calculation	Exact calculation of a room angle with only three measurements

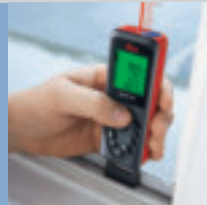
#### Tilt measurement

The integrated tilt sensor detects tilts up to  $\pm 45^\circ$  quickly and allows measurements of the true horizontal distance to be carried out.



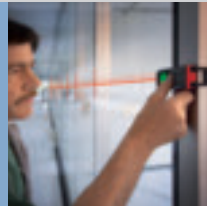
#### Multifunctional end-piece

The automatic detection of the position of the end-piece makes measuring from corners, slots or edges simple.



#### Stake out function

With the Leica DISTO™ D3 it is a simple and quick task to precisely stake out positions using equal or two different distances.



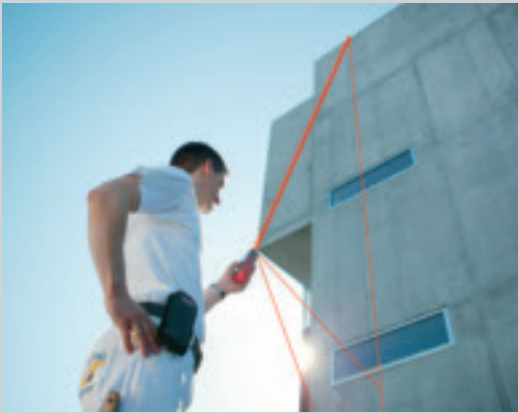
# Leica DISTO™ A5

**The strong partner –  
for outdoor applications**

The Leica DISTO™ A5 impresses with its robust design and anti-slip soft grip. The integrated Power Range Technology™ is used to measure long distances – up to 100 m without a target plate. Even when the laser-dot is no longer visible at long distances, you can easily find your target using the integrated telescopic viewfinder. In addition the device has shortcut keys for quick and easy access to a large number of functions. Construction professionals appreciate its robustness and its capabilities.

**Robust and reliable –  
even for long distances**





**Indirect height-measurement: determine facade heights using the Pythagoras function.**



**Power Range Technology™:** You can measure without a target plate up to 100 m, and with a target plate up to 200 m, without having to take a step.

Features	Your advantage
Measuring range of 0.05 m up to 200 m; typ. Accuracy $\pm 1.5$ mm	Precise, quick and reliable measurements
Power Range Technology™	Measure long distances, approx. 100 m without or 200 m with target plate
Integrated telescopic viewfinder with 2-fold zoom	Essential for far away targets
Multifunctional flip-out end-piece with automatic detection	Reliable measurement from edges of areas or corners is carried out trouble-free and error-free
Pythagorean functions	Indirect height and width measurements at inaccessible positions
Storage functions	Constant and historical storage memory which stores the whole display
IP54	Splash and dust proof

#### Powerful outdoor performance

The integrated optical viewfinder simplifies targeting over long distances.



#### Multifunctional end-piece

The integrated sensor automatically recognises the correct reference point and avoids costly measurement errors.



#### Robust design

The Leica DISTO™ A5 is protected against spray water and dust – essential on site.



# Leica DISTO™ A6

The Data Transfer One –  
for in and outdoors

With the Leica DISTO™ A6 you are equipped to meet the demands of any situation. Measuring does not end with displaying the measured values on the Leica DISTO™ A6, the data can be electronically transferred to a Pocket PC or Laptop for immediate processing. Included in the scope of delivery is the software DISTO™ transfer. It transfers your measured data to Excel®, Word®, AutoCAD® or to other programs. Find out more about software providers with customised programs at: [www.disto.com](http://www.disto.com).

**BLUETOOTH® Datatransfer –  
for reliable measured data transfer!**






Measure distances in seconds and immediately process them on a Pocket PC or Laptop.



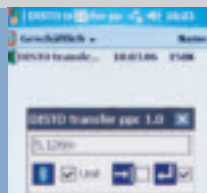
Take professional measurements – even hard to access areas. Anytime – competently.

Features	Your advantages
Measuring range of 0.05 m up to 200 m; typ. accuracy $\pm 1.5$ mm	Precise, fast and reliable measurements
Power Range Technology™	Measure long distances, approx. 100 m without or 200 m with a target plate
Integrated telescopic viewfinder with 2-fold zoom	Essential for far away targets
BLUETOOTH® technology integrated 	Wireless and reliable data transfer to Pocket PCs and Laptops
DISTO™ transfer	Easy measured value transfer to Excel® and numerous other programs
Navigation keys	Very user friendly and direct control of the Pocket PC enables comfortable and fast measurements
IP54	Spray water and dust proof – essential for construction sites

BLUETOOTH® wireless data transfer  
Forget paper and pencil!



DISTO™ transfer  
Transfers measured data reliably to Excel®, AutoCAD® and other programs.



Navigation keys  
Control the cursor movement in the software with the DISTO™. Leave the pen of your Pocket PC in its holder!



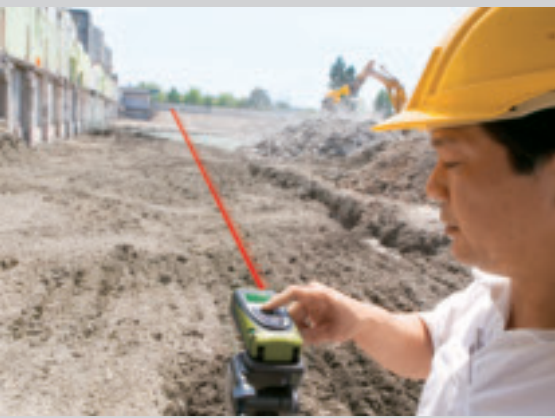
# Leica DISTO™ A8

**The Visionary One –  
for outdoors**

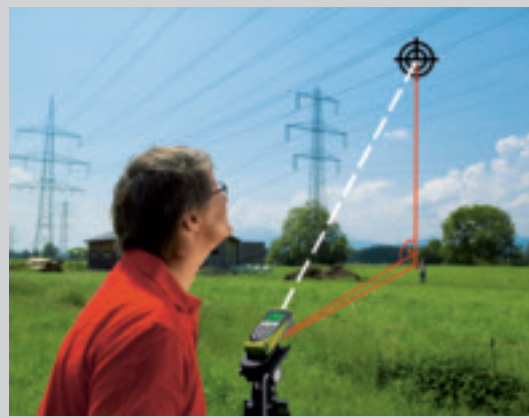
The digital viewfinder and the integrated tilt sensor make the Leica DISTO™ A8 an innovation worldwide and opens up a whole new world of measuring possibilities. Comfortably find your target with the three-fold digital zoom, made even easier with the blended in crosshairs. The brightness of the greyscales display can be manually adjusted; ideal for poorly contrasting targets! The tilt sensor does not only indicate angles, but also real horizontal distances and various indirect height measurements.

**With digital zoom and tilt sensor –  
simply perfect!**





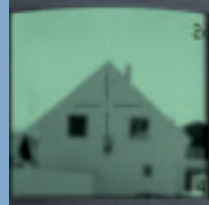
Measure in bright light over long distances with the help of the digital viewfinder.



Indirect height measurements by using the tilt sensor and the digital viewfinder, heights can be determined with the first measurement even without reflecting the laser beam.

Features	Your advantage
Measuring range of 0.05 m up to 200 m; typ. accuracy $\pm 1.5$ mm	Precise, fast and reliable measurements
Power Range Technology™	Measure long distances, approx. 100 m without or 200 m with a target plate
Digital viewfinder with 3-fold zoom	Long distance measuring and measurements in sunshine are made easy
Tilt sensor (accuracy $\pm 0.15^\circ$ )	Measure tilts up to $\pm 180^\circ$ by placing the housing on the object
Indirect measurement with the help of the tilt sensor	Height measurements can be taken using the tilt sensor, e.g. when the laser beam cannot be reflected
Pythagorean functions	Indirect height and width measurements at inaccessible positions
IP54	Splash and dust proof – essential for construction sites

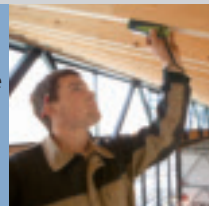
**Digital viewfinder (3-fold zoom)**  
Essential for long distances and in sunshine. Contrast and brightness are individually adjustable.



**Detailed display**  
Additional information about your measurements is available at the touch of a button.



**360° tilt sensor**  
Any tilt can be easily measured by just placing the housing on the slope.



# Leica Geosystems

## Our Promise – Innovation by Tradition

Every one of our customers has the ambition to be the best at his job. Nobody understands this better than us. This is what has driven Leica Geosystems for over 15 years to become not only a pioneer of laser precision in metrology but also the global leader in this field today.

Milestones along our route to success include:

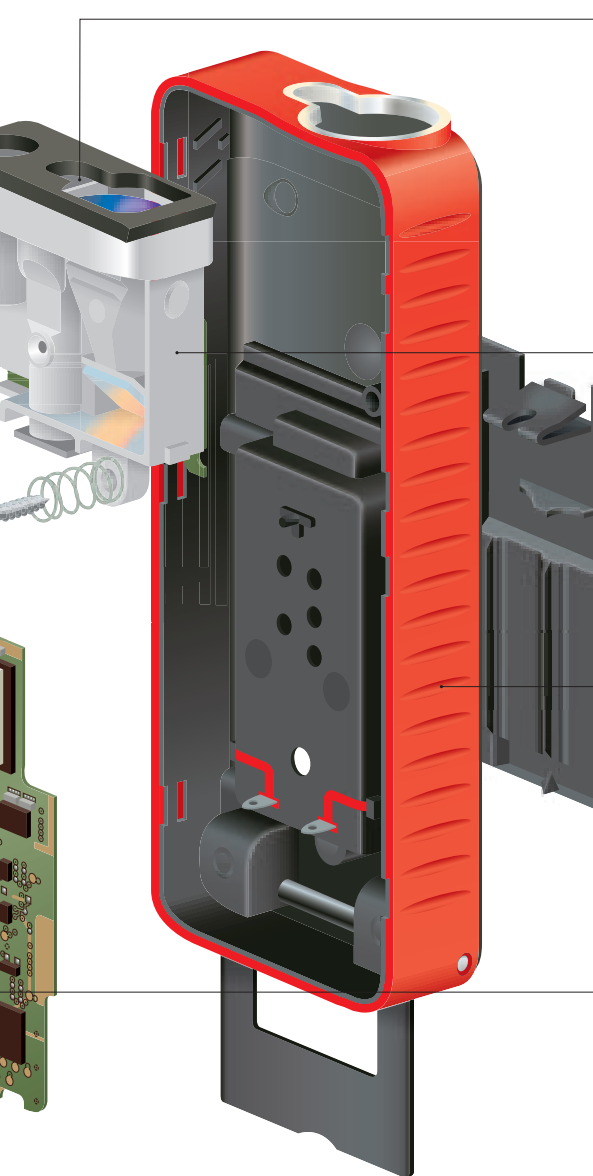
- 1993 – the world's first hand-held laser distance meter
- 1996 – the first with data interface
- 1998 – the first with indirect measurement functions (Pythagoras)
- 2002 – the first with inbuilt optical viewfinder
- 2006 – the first with integrated digital viewfinder and 360° tilt sensor
- 2008 – the smallest in the world

Our concept for success is based on continuous innovation and highest quality. This ideal can only be achieved by working with the best partners, by involving professionals during manufacture and by ensuring that all components fulfil their high specifications.



Display

Customer-oriented product features that you really need, whether it is a multi-line display or a display illumination.



### **Leica optics**

Places high demands on materials and craftsmanship but offers numerous advantages, e.g. clear focussing of the laser dot even over long distances.

### **Sturdy inner housing**

We pay particular attention to temperature resistance and long service life.

### **Robust design**

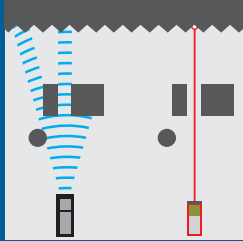
Soft grip and an ergonomic design give you a secure hold. IP 54 and foil keypad provide protection against dust and splashes – essential for working on site.

### **The environment and future orientation**

Leica Geosystems adapts the highest standards according to international rules. That is why all Leica DISTO™s have been lead-free since 13th March 2006.

# Good to know ...

## Why are laser distance meters better than ultra sonics?



Leica DISTO™s measure with laser – exactly and over hard to reach areas. Ultra sonics measure with sound waves, which spread out conically and

give only an indicative result as opposed to an accurate measurement. Sonics are affected by objects that appear within the measurement cone and do not operate well outdoors. Normal measurement range of an ultra sonic instrument is 20 m while a Leica DISTO™ measures up to 200 m with high accuracy.

## Is the laser beam harmful?

No. Our instruments are laser class II. Under normal circumstances your eyes are protected by aversion responses such as the blink reflex.

## How long is my warranty?

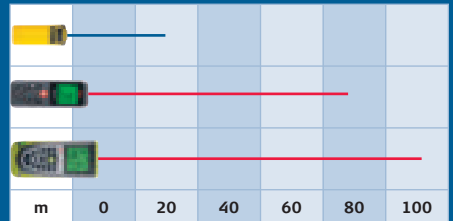
Register at [www.disto.com](http://www.disto.com) within 8 weeks of the date of purchase and you will benefit from a 3-year warranty on your Leica DISTO™ instrument. Should you have a warranty related problem with your instrument during this



time, please contact your authorised dealer who will exchange it. Customer oriented, fast and unbureaucratic.

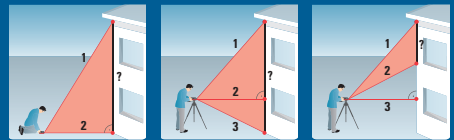
## What advantage does the Power Range Technology™ bring?

Simple: while other instruments may measure up to 20 m or at best up to 40 m, the Power Range Technology™ lets you easily measure up to twice the distance:

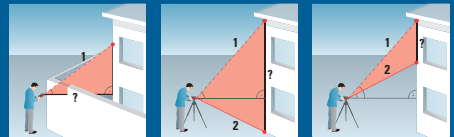


## When do I need the Pythagorean function?

Whenever distances cannot be measured directly, e.g. if a target point is missing such as with a flat roof. The Leica DISTO™ A8



offers even more measuring options with the integrated tilt sensor. Thanks to this function you can measure indirect distances in a similar fashion to the Pythagoras function, however instead of 3 distance measurements, the tilt is measured. Ideal whenever no direct target point is available.



# Which Leica DISTO™ do I need?



Application	D2	D3	A5	A6	A8
Distance measurement indoors including areas, volumes, continuous	•	•	•	•	•
Indirect height and width measurements at inaccessible positions (Pythagoras)	•	•	•	•	•
Automatic calculation of room dimensions such as wall areas, peripheral length etc.		•	•	•	•
Long distance measurements outdoors with integrated viewfinder			•	•	•
Tilt measurements		• ( $\pm 45^\circ$ )			• ( $\pm 180^\circ$ )
Horizontal distance past obstructions also possible		•			•
Hit far-off targets in very bright conditions using the digital viewfinder					•
Height measurements without a reflection point (possible using integrated tilt sensor $\pm 180^\circ$ )					•
BLUETOOTH® transmission of data				•	

# Leica DISTO™ Accessories



①

④



⑤



⑥



③

① **Softbag**  
Art. No. 667169  
For storage of your accessories.

④ **Laser glasses**  
Art. No. 723777  
For better visibility of the laser dot outside.

② **Stick-on target plates**  
Art.Nr. 723774  
For fixing on edges

⑤ **Arm holster for Pocket PC**  
Art. No. 739200  
Allowing handsfree operation.

③ **Target plate A4**  
Art.Nr. 723385  
With two different surfaces, recommended from 50 m

⑥ **Tripod Leica TRI 100**  
Art. No. 757938  
Quality tripod with very easy fine adjustment.



②

LASER RADIATION - DO NOT STARE INTO BEAM  
620-690nm/0.95mW max.  
CLASS II LASER PRODUCT

Laser class II  
in accordance with  
FDA 21CFR Ch.1 § 1040

- when it has to be **right**

**Leica**  
Geosystems

Laser class 2  
in accordance with  
IEC 60825-1 and EN 60825-1

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# All Leica DISTO™s at a glance

Technical Data	D2	D3	A5	A6	A8
Typical measuring accuracy	± 1.5 mm	± 1.0 mm	± 1.5 mm	± 1.5 mm	± 1.5 mm
Range	0.05 m – 60 m	0.05 m – 100 m	0.05 m – 200 m	0.05 m – 200 m	0.05 m – 200 m
Power Range Technology™		•	•	•	•
Distance in m Ø of the laser dot in mm	10, 50, 100 m 6, 30, 60 mm				
Minimum / maximum measurements	•	•	•	•	•
Continuous measurement	•	•	•	•	•
Addition / subtraction	•	•	•	•	•
Area / volume measurements	•	•	•	•	•
Room calculation		•	•	•	•
Indirect measurement with Pythagoras <sup>1)</sup>	•	•	•	•	•
Indirect measurement with tilt sensor		•			•
Tilt sensor Measuring range Accuracy to the laser beam Accuracy to the housing		± 45° ± 0.3° ± 0.3°			360° ± 0.15° ± 0.3°
Units in the tilt sensor		± 45°, 0.00%			± 90°; ± 180°; 360°; 0.00%; 0.0mm/m; 0.00 in/ft
2-fold optic telescopic viewfinder			•	•	
3-fold digital viewfinder					•
Store constant values		1	1	1	1
Recall last values	10	20	20	20	30
Time delay release	•	•	•	•	•
Display illumination	•	•	•	•	•
Measuring units	0.000 m, 0.00 ft, 0' 00" 1/16, 0 1/16 in	0.000 m, 0.000° m, 0.00 m, 0.00 ft, 0.00 1/16 ft in, 0' 00" 1/16, 0.0 in, 0 1/16 in	0.000 m, 0.00 m, 0 mm, 0.00 ft, 0.00 1/32 ft in, 0' 00" 1/32, 0.0 in, 0 1/32 in	0.000 m, 0.00 m, 0 mm, 0.00 ft, 0.00 1/32 ft in, 0' 00" 1/32, 0.0 in, 0 1/32 in	0.000 m, 0.00 m, 0 mm, 0.00 ft, 0' 00" 1/32, 0.00 1/32 ft in, 0.0 in, 0 1/32 in
Free software				•	
Data interface <sup>2)</sup>				BLUETOOTH®	
Measurements per set of batteries	up to 5.000	up to 5.000	up to 15.000	up to 15.000 (reduced in BLUETOOTH® operating mode)	up to 5.000
Multifunctional endpiece	manual	automatic	automatic	automatic	automatic
Built in bubble level			•	•	•
Tripod thread		•	•	•	•
Batteries	Typ AAA 2x1.5V	Typ AAA 2x1.5V	Typ AA 2x1.5V	Typ AA 2x1.5V	Typ AA 2x1.5V
Spray proof / dust protected IP54	•	•	•	•	•
Dimensions	111x42x23 mm	125x45x24 mm	148x64x36 mm	148x64x36 mm	148x64x36 mm
Weight with batteries	90g	110g	241g	270g	280g

<sup>1)</sup> Leica DISTO™ D2 without partial height

<sup>2)</sup> System requirements and recommended Pocket PCs can be found under: [www.disto.com](http://www.disto.com)



„Especially on a building site you have to be fast, and here my Leica DISTO™ has more than paid off.“



„I have been working with Leica's laser distance meters for years. Quality and reliability convinced me over and over again.“



„At last there is an instrument with which I can measure distances and tilt. And it is small enough to fit into my pocket. Simply ideal!“

Dealer Stamp

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

- when it has to be **right**

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Geosystems