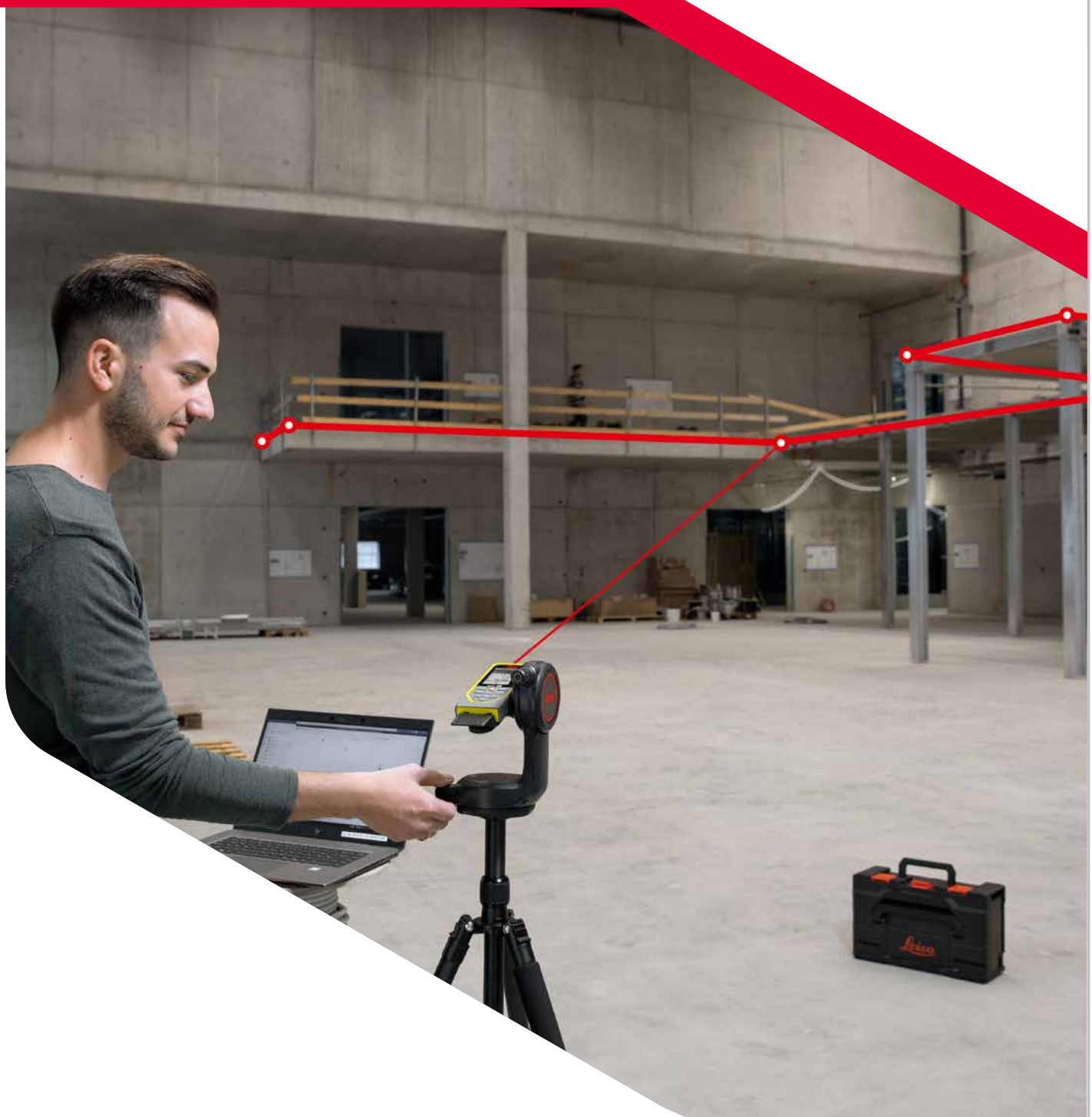
Leica GEOSYSTEMS

HEXAGON

Construction trade solutions catalogue

Tools for any site



Always there for you!

Innovative, competent and always by your side

For more than 200 years, Leica Geosystems has stood for precision, reliability and trust. Rooted in Swiss engineering excellence and part of Hexagon, we develop professional solutions that perform when accuracy matters and conditions are demanding.

What sets us apart, beyond precision, is jobsite confidence — robust tools, smart technologies and solutions designed to handle real construction challenges day after day. Because when it has to be right, professionals choose Leica Geosystems.



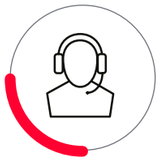
Product range

We offer you a comprehensive portfolio of professional tools and solutions designed for construction, measurement, detection and alignment applications. Our products are developed for real jobsite conditions, where accuracy, robustness and reliability matter. With dedicated accessories, software and system components, we give you complete solutions that help you work more efficiently, safely and with confidence every day.



Quality you can trust. Warranty you can rely on.

We design our products for long-term performance in real jobsite conditions. This commitment to quality is reflected in our warranty coverage, giving you confidence in every task. By registering your device after purchase, selected product families benefit from extended warranty coverage at no extra cost.



After-sales service

Even the best tools may need service. When that happens, we are there for you with fast, professional and customer-oriented support. Through our authorised dealer network, defective devices are handled quickly and efficiently to minimise downtime. Even after the warranty period, we focus on solutions that keep your work moving, because we know your time is valuable.



Represented worldwide

We support you through a global network of dealers and service centres across Europe, Asia and the Americas. Wherever your projects take place, you have access to local expertise backed by global standards. With us, you are never working alone, we are always by your side.

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Leica DISTO™ family

Make measuring easier
Use the original

For more than 30 years, Leica DISTO™ has set the benchmark for precision, efficiency, and reliability in laser distance measuring. Whether working indoors or outdoors, on simple tasks or complex layouts, DISTO™ devices give tradespeople fast, dependable measurements that streamline workflows and reduce costly errors. With Swiss engineering, robust construction, and seamless digital documentation through the DISTO™ Plan app, the DISTO™ family delivers a complete measurement ecosystem built for modern job sites.



Quick and efficient

Measure distances and tilts at the touch of a button, in just a few seconds. Saving you time and money.

Integration with DISTO™ Plan app

Unlock digital tools for smarter documentation and faster workflows.

Built to last

Up to a 3-year warranty: 2 years included, plus an additional 1 year if you register your product.

Professional-grade quality

Confidence backed by ISO standards.

Bluetooth® connectivity across the entire range

Share measurement data quickly and reliably via Bluetooth® Technology.

Precise and reliable

Measure distances to millimetre accuracy.

Leica DISTO™ D series

Precision made to measure



Article no. 843418

Leica DISTO™ D1

The handy one

The simplest option for quick, basic indoor measurements when you just need reliable distances fast.

Accuracy ±2 mm

Range up to 40 m

- One-button distance measurement
- Continuous (tracking) measurement mode
- Illuminated display for easy reading indoors
- Lightweight, compact design

Features enabled with the **DISTO™ Plan app**

- Sketch on Photo: add measurements directly onto photos
- Sketch Plan: create simple scaled sketches

Perfect for: decorators, basic interior renovators, craftsmen





Article no. 986858 (D2)

Article no. 1017808 (D2G)

Leica DISTO™ D2 / D2G

NEW!

The advanced one with high visibility

For smart performance in indoor application. Enjoy improved visibility in bright indoor environment by choosing green laser technology.

Accuracy ±1.5 mm

Range up to 150 m

- Automatic end-piece with position detection for corners and edges
- Inclination sensor for tilt measurements
- Smart Horizontal Mode for horizontal measurements, even over obstacles
- NFC for instant “tap-to-transfer” measurement hand-off to devices

Features enabled with the **DISTO™ Plan app**

- Sketch on Photo: add measurements directly onto photos
- Sketch Plan: create simple, true-to-scale sketches with diagonal lines to illustrate the exact shape
- Smart Room: automatic drawing generation directly during the measurements

Perfect for: electricians, HVAC installers, window/door installers, real estate professionals







Article no. 950908

Leica DISTO™ D5

The versatile one

Strong in indoor and outdoor areas. Built for long distances and bright environments.

Accuracy ±1.0 mm

Range up to 200 m

- Digital Pointfinder camera with 4-fold zoom for aiming in bright outdoor environments
- Automatic XL end-piece with position detection for corner and edges
- 2.4" IPS display with scratch-resistant lens
- Gesture-triggered measurement for stable long-distance results
- Inclination sensor for tilt/angle functions
- Smart Horizontal Mode for horizontal distance over obstacles
- Height tracking and profile measurements
- Li-Ion rechargeable battery

Also available as a set for outdoor applications with tripod TRI 75 and FTA 360 adapter for precise aiming on small targets and over long distances. All together in our versatile and robust carrying case.

Expand your measurement capabilities by using our **DISTO™ Plan app**

- Sketch on Photo: add measurements directly onto photos
- Sketch Plan: create simple, true-to-scale sketches with diagonal lines to illustrate the exact shape
- Smart Room: automatic drawing generation directly during the measurements

Perfect for: appraisers, exterior contractors, site inspectors, facility managers

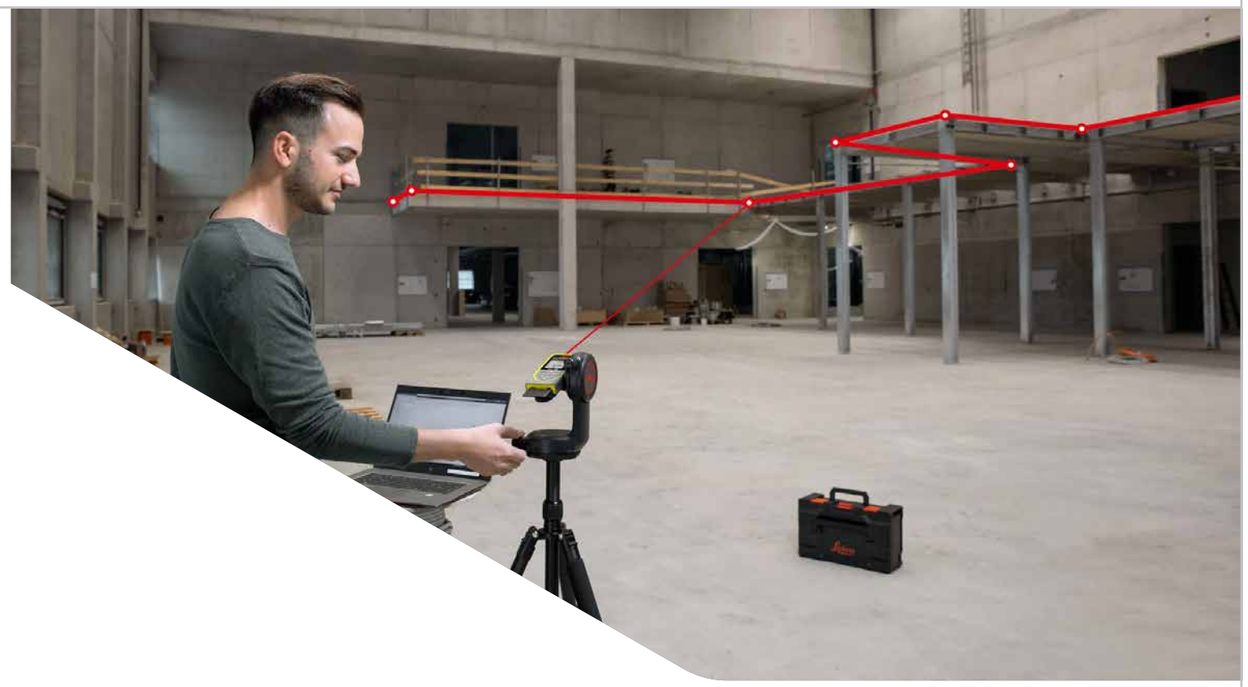


Article no. 950879



Leica DISTO™ X series

Robust and powerful



Leica DISTO™ X1

NEW!



The robust one

Rugged and reliable laser distance meter for simple distance, area and volume measurements.

Accuracy ±1.5 mm

Range up to 100 m

- IP65 dust- and water-jet protection, drop resistant from 2 m height
- Area, volume functions
- NFC tap-to-transfer for instant hand-off without pairing

Get more out of it by use with our **DISTO™ Plan app**

- Sketch on Photo: add measurements directly onto photos
- Sketch Plan: create simple scaled sketches

Perfect for: floor layers, painters



Article no. 986859

Leica DISTO™ X3



The multi-functional one

The combination of highest accuracy, rugged design and multi-functionality is ensuring maximum efficiency for indoor measurement tasks.

Accuracy ±1.0 mm

Range up to 150 m

- IP65 dust- and water-jet protection, drop resistant from 2 m height
- Smart Horizontal Mode for horizontal measurements, even over obstacles
- Inclination sensor for tilt-compensated measurements
- Automatic XL end-piece with position detection
- Ready for use with DST 360 for P2P measurements

Make measuring easier. Use the original.

Leica DISTO™ P2P

Features enabled with the **DISTO™ Plan app**

- Sketch on Photo: add measurements directly onto photos
- Sketch Plan: create simple, true-to-scale sketches with diagonal lines to illustrate the exact shape
- Smart Room: automatic drawing generation directly during the measurements
- Measure Plan / Facade: detailed floor or wall layouts (requires DST 360)
- Measure 3D: capture and visualise 3D measurement points (requires DST 360)

Perfect for: jointers, construction, kitchen planers

Article no. 850833

Leica DISTO™ X6



The all-rounder

Built for complex 2D/3D measurement and demanding indoor–outdoor workflows.

Accuracy ±1.0 mm

Range up to 250 m

- Digital Pointfinder camera with 4-fold zoom for bright outdoor targeting and long distances
- 2.8" IPS touchscreen with high visibility
- Memory for 300 measurement reports
- Smart Horizontal Mode for horizontal measurements, even over obstacles
- Height profile, tracking & angle functions
- IP65 protection + 2 m drop resistant rugged housing
- USB-C data transfer for fast export
- Automatic XL end-piece for corners, edges and openings
- Li-Ion rechargeable battery
- Ready for use with DST 360-X for P2P measurements
- Saving of up to 1000 measuring points in DXF files. Pointfinder views are correspondingly saved as JPG files

Make measuring easier. Use the original.

Leica DISTO™ P2P

Also available as a set for P2P applications with tripod TRI 120 and DST 360-X adapter for multiple additional 2D and 3D measurements including **CAD data** capturing. All together in our versatile and robust carrying case.

Features enabled with the **DISTO™ Plan app**

- Sketch on Photo: add measurements directly onto photos
- Sketch Plan: create simple, true-to-scale sketches with diagonal lines to illustrate the exact shape
- Smart Room: automatic drawing generation directly during the measurements
- Measure Plan / Facade: create detailed floor or wall layouts (with DST 360-X)
- Measure 3D: capture 3D points and visualise structures (with DST 360-X)
- Earthworks: calculate excavation volumes (with DST 360-X)

Perfect for: building surveyors, architects, façade specialists, site managers, painters, roofing/solar teams, gardening and landscaping

Article no. 50909



Unique DISTO™ P2P technology

Efficient measurement for digital workflows

Leica DISTO™ P2P is an advanced method of indirect measurement. This innovative technology makes it possible to measure the distance between any two points quickly and easily from one location. It is not necessary to take measurements at right angles or in a plane. This makes DISTO™ P2P a safe, accurate and efficient method, especially for distance measurements in inaccessible areas or areas with complex shapes. In addition, the captured data can be further processed in any CAD software.



Simple P2P measurement

To determine the length of inclined objects, two remote points are targeted and measured. The Leica DISTO™ calculates the distance between these two points with the result available on the display straightaway.



Levelled P2P measurement

If the device is levelled, the height difference, horizontal distance and the inclination between the two measured points can be calculated and shown on the display. User-friendly functionality makes measuring the length and width of a roof, for example, very easy.



Measure complex areas

Data from horizontal, vertical and even inclined areas can be conveniently captured from one location using DISTO™ P2P. Irregular floors, uneven walls, ceilings and sloping roofs can be measured quickly and easily.



Capturing data for CAD

You can measure multiple points from a single location and save them as a DXF file. This allows you to create plans around existing structures and edit them easily in CAD. The DISTO™ X6 also saves the Pointfinder views of all measured points, which is very helpful for proper documentation.



DISTO™ P2L technology

The P2L measurements can be used to determine a position relative to a reference line. This function is useful to document and find points in a local coordinate system. This is particularly useful when the point of interest is later no longer visible or accessible.

Leica DISTO™ P2P packages

Increased efficiency thanks to P2P technology



Article no. 950878

Leica DISTO™ X6-P2P package

This kit transforms the DISTO™ X6 into a comprehensive 2D/3D measuring tool. The TRI 120 tripod, together with the DST 360-X smart adapter, allows you to measure distances between any two points or even export these measurements to DXF files for use in CAD applications.



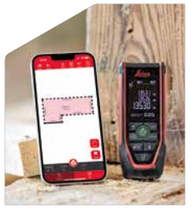
Article no. 848783

Leica DISTO™ P2P package for DISTO™ X3

Turn your Leica DISTO™ X3 into a 2D/3D measuring device. With the help of the TRI 120 tripod and the DST 360 P2P adapter, you can carry out any measurements between remote points. By using the DISTO™ Plan app, data can also be generated for CAD usage.

Leica DISTO™ Plan app

Document and visualise measurements



Scan the QR code to download the **DISTO™ Plan App**

Document measurements digitally

The Leica DISTO™ Plan app supports the important task of documenting and visualising measurements directly on the construction site. This allows easy planning of the next steps of a project. Depending on the measurement tasks and preferences, the following functions are available to assist.

Sketch on Photo — dimensioning objects in a photo

Assigns distance measurements to the appropriate part of a picture taken with a tablet or smartphone.

Sketch Plan — create a scaled plan

Create a sketch on your smartphone or tablet, assign measurements and create a true-to-scale drawing. By adding diagonals to a drawing the room angles will also be adapted representing the real room shape.

Diagonals — move your sketches to a new level

Diagonals help confirm squareness, validate wall positioning, and ensure reliable scaling for professional documentation and CAD export.

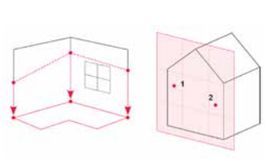
Smart Room — measure and create plan in one step

Create accurate floor plans simply by taking clockwise or counter-clockwise measurements of a room.

Capture 2D and 3D data for CAD

Leica DISTO™ devices with P2P function and the DISTO™ Plan app allow detailed recording of rooms using 3D coordinates. This means that the data can be easily processed in any CAD software.

Depending on the measurement tasks and preferences, the following functions are available.



Measure Plan/ Measure Facade

Creates detailed floor and wall plans including openings for doors and windows



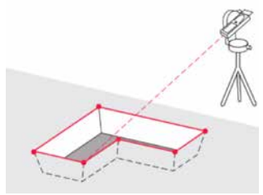
Measure 3D

Visualise complex 3D measurements directly on the construction site and immediately shows what has been measured



Relocation

The Leica DISTO™ can easily be relocated during a plan/ facade or 3D measurement and continued from the new location



Earthworks

Enables volume measurements, such as calculating an excavation

Find the right DISTO™

Standard measurement environment (D family)

Indoor



Distance

+ basic functions, inclination measuring, automatic end-piece

+ green visibility

Indoor and outdoor



+ Li-Ion power, digital Pointfinder camera, gesture control

+ aiming aid for targeting

Tough construction sites (X family)

Indoor



Basic functions

+ inclination measuring, advanced functions, automatic XL end-piece

+ P2P measuring

Indoor and outdoor



+ Li-Ion power, digital Pointfinder camera, large 2.8" touchscreen, multiple memory options

+ P2P measuring and on device CAD data capturing

Find the right DISTO™ for your measurements



	DISTO™ X6 P2P	DISTO™ X6	DISTO™ D5	DISTO™ X3	DISTO™ D2G	DISTO™ D2	DISTO™ X1	DISTO™ D1
Accuracy	1 mm / 0.04"	1 mm / 0.04"	1 mm / 0.04"	1 mm / 0.04"	1.5 mm / 0.06"	1.5 mm / 0.06"	1.5 mm / 0.06"	2 mm / 0.08"
Range	250 m / 820'	250 m / 820'	200 m / 656'	150 m / 500'	120 m / 400'	150 m / 500'	100 m / 330'	40 m / 130'
Data transfer	USB-C & Bluetooth®	USB-C & Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth® & NFC	Bluetooth® & NFC	Bluetooth® & NFC	Bluetooth®
Do you measure from corners or edges?	✓	✓	✓	✓	✓	✓		
Do you measure over obstacles?	✓	✓	✓	✓	✓	✓		
Do you measure in bright/outdoor environments?	✓	✓	✓					
Do you measure inaccessible areas?	✓	✓[1]		✓[2]				

DISTO™ Plan App

	DISTO™ X6 P2P	DISTO™ X6*	DISTO™ D5	DISTO™ X3**	DISTO™ D2G	DISTO™ D2	DISTO™ X1	DISTO™ D1
Connectivity	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth® & NFC	Bluetooth® & NFC	Bluetooth® & NFC	Bluetooth®
Sketch on Photo	✓	✓	✓	✓	✓	✓	✓	✓
Sketch Plan	✓	✓	✓	✓	✓	✓	✓	✓
Smart Room	✓	✓	✓	✓	✓	✓		
Measure Plan / Facade	✓	with DST 360-X		with DST 360				
Measure 3D	✓	with DST 360-X		with DST 360				
Earthworks	✓	with DST 360-X		with DST 360				

* The DISTO™ X6 supports P2P measurements with the addition of a DST 360-X tripod adapter, which can be purchased separately.

** The DISTO™ X3 supports P2P measurements with the addition of a DST 360 tripod adapter, which can be purchased separately.

		DISTO™ X6	DISTO™ D5	DISTO™ X3	DISTO™ D2G	DISTO™ D2	DISTO™ X1	DISTO™ D1
General important aspects	Digital Pointfinder for outdoor measuring	✓	✓					
	Max. Range	250 m	200 m	150 m	120 m	150 m	100 m	40 m
	Accuracy	± 1 mm	± 1 mm	± 1 mm	± 1.5 mm	± 1.5 mm	± 1.5 mm	± 2 mm
	P2P functionality	✓*		✓*				
	Extra durable housing with IP65 and 2 m drop resistant	✓		✓			✓	
Computer interface	Wireless interfaces	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth® & NFC	Bluetooth® & NFC	Bluetooth® & NFC	Bluetooth®
	Data transfer to DISTO™ Plan and DISTO™ compatible apps	✓	✓	✓	✓	✓	✓	✓
	Data transfer to any software or app	✓	✓	✓				
	Download data via USB-C interface	✓						
Distances	Distance measurement from device	✓	✓	✓	✓	✓	✓	✓
	Dimensional measurements on objects	✓	✓	✓	✓	✓	✓	✓
	Indirect distance measurement over obstacles	✓	✓	✓	✓	✓		
	P2P function – any distance between 2 points	✓*		✓*				
Areas	Rectangular shapes (length and width, triangular areas)	✓	✓	✓	✓	✓	✓**	
	P2P – Smart Area for complex shapes	✓*		✓*				
	Measure in picture – facades, vertical boards	✓						
Volume	Rectangular shapes (length, width, height)	✓	✓	✓	✓	✓	✓	
Widths	Using Pythagoras Theorem		✓	✓	✓	✓		
	Measure in picture – width measurement	✓						
	P2P function	✓*		✓*				
Heights	Smart functions using distance and inclination for calculation	✓	✓	✓	✓	✓		
	Height profile	✓						
	P2P function	✓*		✓*				
Slopes	Inclinations	✓	✓	✓	✓	✓		
	Smart functions using distance and inclination for calculation	✓	✓		✓	✓		
	P2P function	✓		✓				
Diameter	Measure in picture – diameter of objects	✓						
Positioning	Continuous measuring – tracking	✓	✓	✓	✓	✓	✓	✓
	Stake-out	✓	✓	✓	✓	✓		
Planning and Documenting	P2P – DXF data capturing on device	✓						
	Draw and measure (floorplans)	✓***	✓***	✓***	✓***	✓***	✓***	✓***
	P2P – point capturing for floor plans and facades	✓****		✓****				
	Smart Room – measure and draw	✓***	✓***	✓***	✓***	✓***		
	PDF, JPG and DXF exports	✓***	✓***	✓***	✓***	✓***	✓***	✓***
	Measure and document on picture	✓***	✓***	✓***	✓***	✓***	✓***	✓***
	P2P – documenting positions based on a reference line	✓						
	Creating measurement reports (JPG and CSV)	✓						
Usability	Touchscreen	✓						
	Trigger measurement with gestures	✓	✓					
	Favourite keys	✓	✓	✓				
	Automatic end-piece	✓	✓	✓	✓	✓		
	Keyboard mode	✓	✓	✓				

* Requires Leica DST 360 / DST 360-X ** Rectangular areas only *** Requires DISTO™ Plan **** Requires Leica DST 360 / DST 360-X und DISTO™ Plan

Leica DISTO™ family accessories

Supplied with / optional



TRI 75 tripod
The small portable tripod is intended for everyday use. Its features include easy fine adjustment and a bubble level. Extendable length from 0.42 m to 1.15 m. Ideal with the FTA or DST adapter.
Article no. 975718



TRI 105 tripod
Quality tripod with bubble level, very easy fine adjustment. Extendable length from 0.67 m to 1.80 m.
Article no. 975728



TRI 120 tripod
Twist locks for the legs make this tripod even more stable. The 180° foldable legs make it fully compact. Ideal for any tripod adapter for all Leica DISTO™ models. Extendable length from 0.40 m to 1.20 m.
Article no. 848788



TRI 200 tripod
Very rugged but lightweight aluminium tripod with ¼" fixing screw, bubble level and clamp for easy mounting. Can be extended from 0.75 m to 1.15 m. Ideal with Leica FTA 360 or FTA 360-S.
Article no. 828426



FTA 360 adapter
Sturdy adapter with fine drive for convenient and precise targeting. The adapter eases the task of targeting, especially over long distances, and minimises discrepancies when taking indirect measurements. For use in combination with Leica TRI 75, TRI 105, TRI 120 and TRI 200 tripods.
Article no. 799301 for Leica DISTO™ D5



DST 360 and DST 360-X adapter
The smart adapter turns the Leica DISTO™ X3 or X6 into a DISTO™ station. It enables P2P measurements with the device or even becomes a real planning tool together with the Leica DISTO™ Plan app.
Article no. 848783 adapter DST 360 with Tri 120 in rugged case for DISTO™ X3
Article no. 946095 adapter DST 360-X for DISTO™ X6



GZM3 target plate
The target plate is the perfect accessory for measuring templates, worktops etc. — wherever shapes have to be captured. Edges, curves, markings and corners can be measured in any position.
Article no. 820943



GZM26 target plate, large
Grey side for short and brown side for long distance measurements.
Size: 210 × 297 mm (A4).
Article no. 723385



GZM27 stick-on target plate
Target plate held in place with kneading adhesive. Size: 45 × 100 mm.
Article no. 723774



GZM30 target plate
Target plate to be placed on floor markings. Size: 274 × 197 mm.
Article no. 766560



TPD 100 kit
The target plate for improved targeting with digital Pointfinder on long distances. The kit with pole and bubble enables measurement on landmarks and performance of basic surveying tasks with a Leica DISTO™.
Article no. 6012352



Organizer belt for DISTO™
Organiser belt pouch offering space for a Leica DISTO™ — from the compact models to the DISTO™ X6 — as well as writing utensils and light tools.
Article no. 1026879



GLB30 super light laser visibility glasses 3 in 1
With three different lenses: laser visibility glasses, safety glasses and sunglasses. Red lens glasses for improved visibility of the laser dot in bright rooms and outdoors up to 10–15 m.
Article no. 780117



Leica metaBOX
Extremely robust case for storing, protecting and transporting the DISTO™ X6, DST 360-X adapter and TRI 120 tripod.
Article no. 962211 Leica metaBOX 165L
Article no. 983878 Leica metaBOX inlay for use with DISTO™ X6
Article no. 979673 mounting plate for metaBOX
Article no. 979672 adapter plate for other systems



Leica Lino lasers

The accurate, self-levelling line and point lasers

With Leica Linos everything is plumb and perfectly aligned. Leica Linos project lines or points with absolute precision. The time-consuming and tedious techniques of drawing lines and marking points are things of the past.

Outstanding visibility

Premium laser diodes with 30–50 mW laser power deliver crisp, clear lines, a working range up to 35 m, and wide opening angles of 170° (vertical) and 180° (horizontal). Allows working longer from one position, saving time and money.

Highest accuracy

Levelling accuracy of 0.2 mm/m, ensuring premium accuracy for professional craftsmanship.

Triple power concept

Flexible power options with alkaline batteries, rechargeable Li-Ion, or charge while in operation, enabling continuous work with no downtime.

Smart magnetic adapter

Precise magnetic connection between laser and bracket, enabling fast, one-step positioning without screws or complex mounting.

Clever accessories

Support flexible setups and efficient workflows, helping users stay productive from one position.

Robustness

IP54, 3-year warranty, impact-resistant fiberglass-reinforced housing, and aluminium window frame — made for tough construction site conditions.

Integrated monitoring systems

Lino's redundant systems prevent dangerous laser power levels. Automatic shutdown on technical defects ensures safety. Laser reacts to high temperatures exceeding limits.

Leica Lino lasers

Excel on every line across the whole range



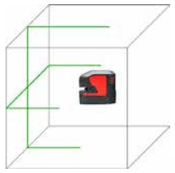
Leica Lino L2

You can rely on its sharp lines

The handy cross line laser with outstanding laser line visibility up to 25 meters. Its exceptionally long horizontal and vertical laser lines are projected to floors, walls and ceilings at more than 170 degrees. Smart magnetic adapters allow for quick and precise positioning.



Article no. 848435
Article no. 864413 set incl. Li-Ion battery in carrying case



Leica Lino L2G

Visibility on a new level

The green cross line laser with up to 4-times higher visibility. The Li-Ion battery ensures continuous working. The Lino can easily be connected to precision engineered adapters via strong magnets, allowing you to work faster and more precisely.





Article no. 912932
Article no. 864420 set incl. Li-Ion battery and UAL 130 adapter in carrying case



Leica Lino P5

Right to the point!

The 5-point laser for quick setting-out and layout jobs and for easy upward and downward vertical aligning. Magnetic smart adapters allow you to quickly attach the Leica Lino P5 to edges, profiles, iron pipes, tracks or bars.



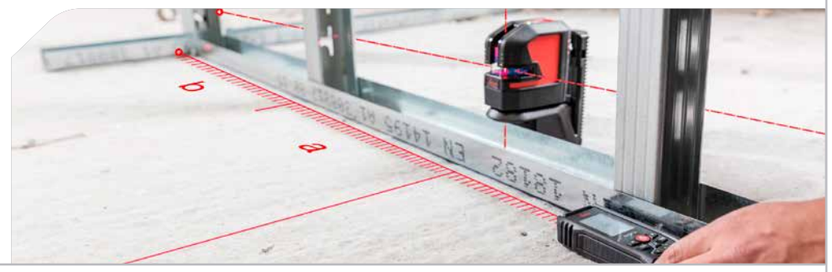
Article no. 864427 set in carrying case



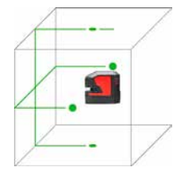
Leica Lino L2P5

Combining points and lines

The small and handy all-rounder for quick setting-out, layout and alignment jobs. It comes with a smart magnetic adapter which allows you to position the instrument quickly and with absolute precision. Due to the Li-Ion batteries it runs for up to 44 hours on one charge.



Article no. 864431 set incl. Li-Ion battery in carrying case



Leica Lino L2P5G

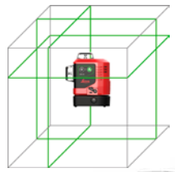
Multi-functionality with highest visibility

The point and crossline laser with the best green laser technology. Its green laser beams and points are up to four times more visible to the human eye. Li-Ion batteries allow this all-round laser tool to run up to 28 hours on just one charge. With the smart magnetic adapters, it can be set up over edges and profiles, attached to iron pipes or to various tracks and bars.





Article no. 864435 set incl. Li-Ion battery and UAL 130 adapter in carrying case





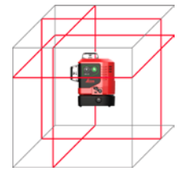
Leica Lino L6G

Allrounder with best visibility

360° green laser lines ensure highest visibility of up to 70 metres in diameter; making this the perfect tool for multi-directional alignment, plumbing, levelling and squaring tasks in large and bright environments.



Article no. 918977 Lino L6G
Article no. 912971 set incl. Li-Ion battery and UAL 130 adapter in carrying case





Leica Lino L6R

Allrounder for precise 360° alignment

360° laser line projection for multi-directional alignment — perfect for indoor applications. The laser's vertical lines are easily adjusted once the plumb point, which is located outside the device, is set. This unique feature allows the plumb point (cross-section of two vertical lines) to stay in position while the two vertical lines rotate around it by +10°.



Article no. 918976 Lino L6R
Article no. 912969 set incl. Li-Ion battery and UAL 130 adapter in carrying case



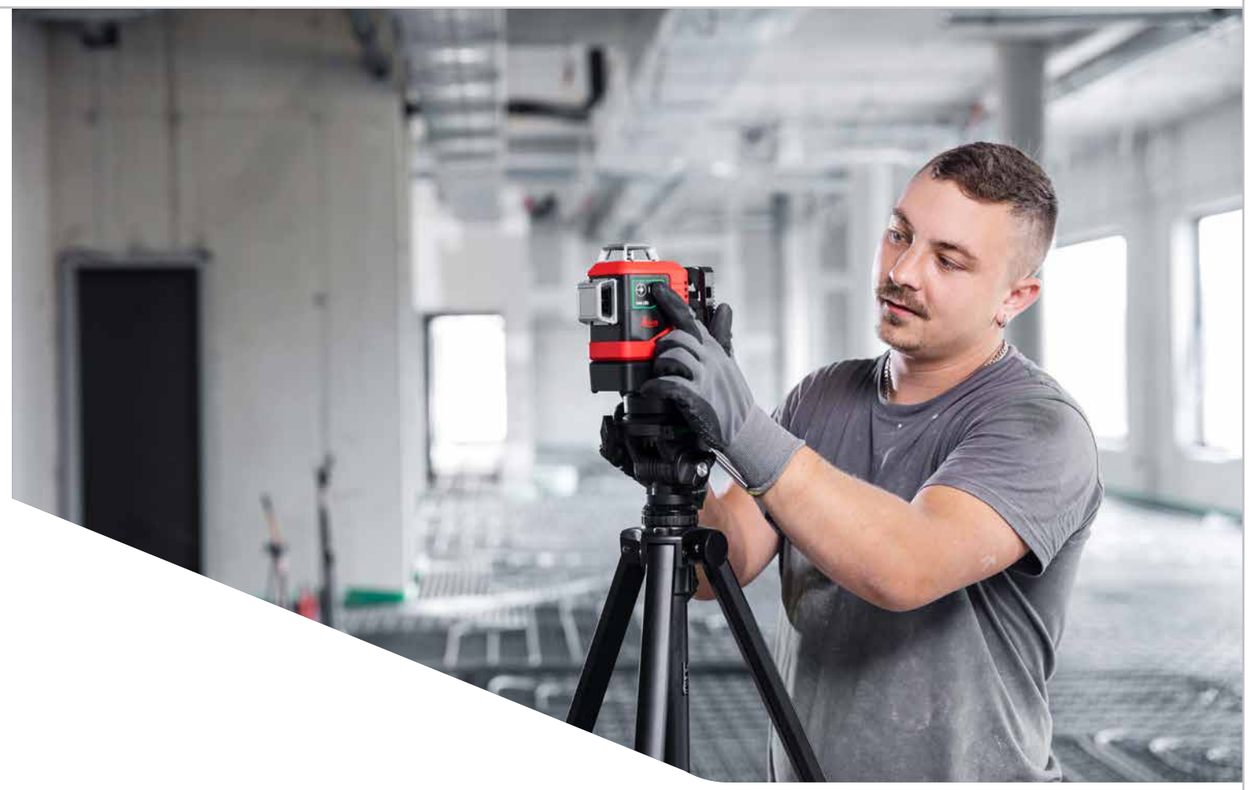
Precise rotation around plumb point for accurate positioning.



Adjustable line visibility (50% / 75% / 100%) for optimal performance.



Memory function to quickly recall preferred line settings.



Leica Lino lasers

Technical data

	Lino L2s	Lino L2	Lino L2Gs	Lino L2G	Lino P5	Lino L2P5	Lino L2P5G	Lino L6Rs	Lino L6Gs	Lino L6G
Range*	25 m	25 m	35 m	35 m	30 m	25 m	35 m	25 m	25 m	35 m
Levelling accuracy	± 0.2 mm/m									
Self-levelling range	± 4°									
Laser type and colour	635 nm = red / class 2		525 nm = green / class 2		635 nm = red / class 2		525 nm = green / class 2	635 nm = red / class 2	525 nm = green / class 2	
Protection class	IP54									
Battery type	AA 3 × 1.5 V	Li-Ion re-chargeable (or AA 3 × 1.5 V)	AA 3 × 1.5 V	Li-Ion re-chargeable (or AA 3 × 1.5 V)	AA 3 × 1.5 V	Li-Ion re-chargeable (or AA 3 × 1.5 V)	Li-Ion re-chargeable (or AA 3 × 1.5 V)	AA 3 × 1.5 V	Li-Ion re-chargeable (or AA 3 × 1.5 V)	Li-Ion re-chargeable (or AA 3 × 1.5 V)
Operating time**	up to 13 h (AA)	up to 44 h (Li-Ion)	up to 7 h (AA)	up to 28 h (Li-Ion)	up to 37 h (AA)	up to 44 h (Li-Ion)	up to 28 h (Li-Ion)	up to 25 h (AA)	up to 11 h (Li-Ion)	
Warranty	2 years warranty; 3 years warranty after registration on **www.disto.com**									

* Depending on lightning conditions.

** Depending on laser mode.

Leica Lino lasers accessories



RGR 300-D digital receiver

Digital line laser receiver with clear mm or inch guidance with dual-screen display and built-in magnets for secure attachment to metallic surfaces. Detects red and green laser beams at distances up to 80 m.
Compatibility: Leica Lino L2, L2G, L2P5, L2P5G, L6R, L6G

Article no. 1017990



RGR 200 receiver

One laser receiver for all! Robust IP65 housing with front and back side display, incl. magnets for ceiling attachment. Locating red and green laser beams at distances up to 80 m.
Compatibility: Leica Lino L2, L2G, L2P5, L2P5G, L6R, L6G.

Article no. 866090



UAL 130 wall mount

The universal adapter for Lino allows you to attach and adjust the height of the Leica Lino by 130 mm easily and precisely.
Compatibility: new Leica Lino L2, L2G, L2P5, L2P5G, L6R, L6G and P5.

Article no. 866131



TRI 105 tripod

Quality tripod with robust tilt head, quick release and flip levers, for fast and smooth adjustment. Extendable length from 0.67 m to 1.80 m.
Compatibility: DISTO™ and Lino.

Article no. 975728



TRI 75 tripod

The small portable tripod is intended for everyday use. Its features include easy fine adjustment and a bubble level. Extendable length from 0.42 m to 1.15 m.
Compatibility: DISTO™ and Lino.

Article no. 795718



CLR290 clamp rod

For stepless positioning of lasers at different heights up to 2.90 m. With mounting platform.
Compatibility: all Linos.

Article no. 777281 Platform only



Leica Lino Twist 360

Magnetic adapter with 360° rotation for flexible and precise positioning of Leica Lino line lasers. Enables fast setup and accurate alignment on metallic surfaces.
Compatibility: L2P5, L2P5G, and P5

Article no. 866130



Leica Twist 250 Magnetic smart adapter

Magnetic adapter for precise mounting and height adjustment of Leica Lino line lasers. Designed for secure attachment to metallic surfaces and accurate interior alignment tasks.
Compatibility: L2s, L2, L2G, L6Rs, L6Gs, L6G

Article no. 866133



Drop protector for Lino devices

Lanyard that can be attached to the Lino to prevent it from dropping down.

Article no. 921250



Li-Ion battery pack

The long life Li-Ion batteries allow you to work uninterrupted for up to 44 hours. The batteries are re-chargeable and more cost efficient than standard Alkaline batteries.

Article no. 842427 for L2, L2G, P5, L2P5, L2P5G

Article no. 913012 for L6R and L6G

Construction lasers

Whether it’s general construction, pipe laying or interior walls and ceilings, our lasers are built to handle tough environments. All construction lasers are of high technology and high precision tools.

Leica Geosystems lasers are waterproof, that means all critical components are completely protected from wet weather conditions.



Leica Rugby 600 series

Simple. Reliable. Versatile.

Leica Rugby CLAx series

Premium grade lasers for next-level construction.

Leica Piper series

Precise pipe laying made easy.

Leica Rugby 600 series

Your reliable partner on site

Making the difference

- Rugged versatility for demanding construction environments
- High-accuracy levelling and grading for reliable results on any job site
- Fast setup and intuitive operation to keep crews productive
- Built for harsh conditions with proven durability on real job sites
- Serviceable. Repairable. Sustainable.
- 5-year manufacturer warranty



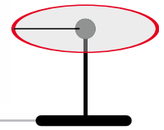
5 years warranty

Leica Rugby 610

One-button horizontal laser for all levelling tasks

Whether it is concrete pouring, formwork levelling, transferring or checking of heights, the Leica Rugby 610 rotary laser level offers increased productivity combined with the ultimate ease of use. One button interface makes the operation of laser extremely easy and absolutely fool proof. No training and no preparation is required – get right to work.



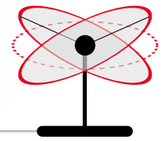


Leica Rugby 620

Horizontal levelling with simple manual slope.

A self-levelling horizontal laser that adds manual dual-axis slope (~8%) for driveways, ramps and drainage, plus general levelling. Built IP67 tough and designed for crews who occasionally need slope.



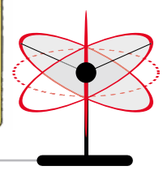


Leica Rugby 640/640G

Laser levelling for everyday concrete work featuring dual slope and vertical laydown functionality.

A self-levelling horizontal and vertical laser with manual slope for levelling, alignment and squaring across interiors and exteriors. Use scan segments and variable speeds for fit-out; switch to vertical for plumb and 90° layout. Choose the green-beam variant when you need longer, easier-to-see indoor lines in bright spaces.



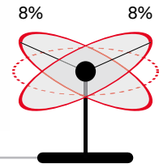


Leica Rugby 680

Horizontal dual-grade made simple with digital dial-in

A grading-focused laser for two-sided slopes (X & Y) with digital dial-in and Smart Slope, temperature compensation to hold grade across the day, ideal for car parks, pads and long baselines. IP67 for outdoor reliability.





Technical data

	Rugby 610	Rugby 620	Rugby 640	Rugby 640G	Rugby 680
Functionality	self-levelling horizontal, one button laser	self-levelling horizontal & manual slope with dual axis	self-levelling horizontal, vertical, 90° and manual slope in dual axis	self-levelling horizontal, vertical, 90° and manual slope in dual axis	self-levelling horizontal, dial-in grade in dual axis
Laser class	class 1	class 1	class 2		class 1
Laser type	635 nm (red)	635 nm (red)	635 nm (red)	520 nm (green)	635 nm (red)
Plumb up & vertical function	-	-	✓	✓	-
Horizontal self-levelling	✓	✓	✓	✓	✓
Manual slope	-	✓	✓	✓	✓
Manual slope & vertical	-	-	✓	✓	-
Dial-in grade	-	-	-	-	✓
Accuracy	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 1.5 mm at 30 m (± 1/16" at 100 ft)
Self-levelling range	± 5°				
Grade range	-	-	-	-	± 8% DG
Smart Slope	-	-	-	-	✓
Rotation	10 rps	10 rps	0, 2, 5, 10 rps	0, 2, 5, 10 rps	10 rps
Scanning	-	-	10, 45, 90°	10, 45, 90°	-
Plumb down	-	-	✓	✓	-
Sleep mode	-	-	✓	✓	-
Max. range (ø) - RE120/120G	800 m (2600 ft)	800 m (2600 ft)	500 m (1650 ft)	400 m (1300 ft)	900 m (2950 ft)
Max. range (ø) - RE140/160	1100 m (3600 ft)	1100 m (3600 ft)	600 m (2000 ft)	-	1100 m (3600 ft)
Max. range (ø) - RC400 remote	-	-	200 m (650 ft)	200 m (650 ft)	-
Operation time (Li-Ion battery)	Up to 120 h	Up to 120 h	Up to 80 h	Up to 70 h	Up to 75 h
Operation time (Alkaline battery)	60 h				
Working temperature	-10 °C to +50 °C (14 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)
Protection (with & w/o battery)	IP67				
Warranty	5 years no cost				

Leica Rugby CLAx

Premium grade lasers

5 years warranty

including 2 years protection in case of knock-down

An all-rounder designed to cover the full range of levelling and grading applications on construction sites.
From manual grade tasks to fully automatic dual-axis grading, the CLAx series provides the right solution for every level of complexity.

Used with the Combo+ receiver and remote control, the CLAx unlocks advanced capabilities such as slope catch & lock, head speed settings, beam masking and much more, all on the same rugged body.

Reliable protection you can count on

Enjoy a 5-year manufacturer warranty, including 2 years of knock-down protection for added peace of mind on demanding job sites.

Making the difference

- 1350 m working range. Precision and performance for any job size
- 1.5 mm at 30 m. Outstanding accuracy for professionals who can't compromise
- ±6° self-levelling range. Rapid setup for consistently precise results
- Slope catch & lock. Fully automatic slope alignment for a smoother, more efficient workflow
- Up to 15% grade. The added slope range that expands your jobsite possibilities
- Serviceable. Repairable. Sustainable.

Leica Rugby CLAx 250

High-accuracy manual grade

Designed as a reliable companion for horizontal levelling, the CLAx 250 offers manual dual-axis grade. Its self-levelling performance ensures consistent accuracy, making it ideal for tasks such as pouring level concrete and basic grading work.

Perfect for general construction teams focused on horizontal levelling and basic grading tasks, such as pouring level concrete. An ideal solution for crews who value simplicity, reliability, and consistent accuracy on everyday jobsites Remote controlled by Combo+.



Leica Rugby CLAx 550

Adaptable all-rounder

The CLAx 550 is built to adapt to both horizontal and vertical work, from dual-axis concrete pours to facade alignment. With semi-automatic digital dual-axis grade up to 8%, self-levelling, and fast rotation speeds, it supports accurate execution of design plans while improving productivity on site.

Perfect for contractors working with daily mixed applications such as dual-axis concrete pours, vertical layout, and precise grading. The CLAx 550 is ideal for teams that need digital grade control and flexibility across both horizontal and vertical tasks without the complexity of fully automatic systems.



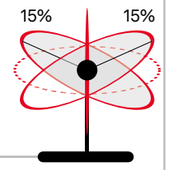
Leica Rugby CLAx 700

Fast, precise and fully automatic

The CLAx 700 is a fully automatic horizontal and vertical grade laser designed for demanding grading and layout applications. With digital dual-axis grade control up to 15% and continuous automatic correction in flat and sloped inclinations, it delivers maximum precision and productivity on complex construction projects.

Perfect for professional grading contractors working on infrastructure, landscaping, and facade installation projects where fully automatic dual-axis grading, high accuracy, and consistent performance are critical for productivity and confidence on site.





The difference between semi-automatic and fully automatic lasers

Semi-automatic lasers level themselves automatically for horizontal work. When you set a slope, the laser holds the chosen grade, but it does not continuously correct for small movements or drift. To ensure accuracy, the laser periodically re-levels to zero and then returns to the preset grade, especially after temperature changes.

Fully automatic lasers use advanced sensor technology to continuously control the laser's levelling and grade mode. This ensures maximum control for all your grading applications.

	CLAx 250	CLAx 550	CLAx 700
Self-levelling accuracy*	1.5 mm at 30 m (1/16" at 100 ft)		
Self-levelling range	± 6°		
Operating range with Combo, RE 160	1350 m in diameter		
Laser class	2		
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)		
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)		
Battery and run time	Li-Ion / 50 h		
Horizontal plane	✓	✓	✓
Plumb-up beam	✓	✓	✓
Mask mode**	✓	✓	✓
Slope catch & lock**	(✓)***	✓	✓
Vertical plane		✓	✓
Adjustable head speed**		✓	✓
Beam scan mode**		✓	✓
Slope or grade setting	dual grade manual slope	dual grade dial-in semi-automatic ± 8%	dual grade dial-in fully automatic ± 15%

* at 25 °C (77 °F)
** please note that some of the features need Combo+
*** please note that no grade in % is displayed with CLAx 250



Leica Rugby receivers

Rod Eye 120

Red-beam receiver with 70 mm detection window, IP67 protection, and 50+ h runtime on 2×AA batteries. Up to 900 m working diameter (laser-dependent).

Article no. 789922



Rod Eye 140

With up to 1350 m working diameter, features a large 120 mm detection window, anti-strobe filtering, and selectable accuracy down to ± 0.5 mm.

Article no. 789923



Rod Eye 120G digital

Digital receiver optimised for beams in bright interiors. Compact IP67 design with 70 mm window and up to 400 m working diameter. Ideal for Rugby 640G indoor work.

Article no. 844745



Rod Eye 160 digital

1350 m working diameter, 120 mm window, and anti-strobe, plus a digital readout of the height-of-beam offset right on the receiver (mm/in/ft).

Article no. 789924



Machine receiver

LMR 360 – 360° machine mounted receiver

The LMR 360 offers accurate grade information for all visual machine control applications. Large 360° detection window picks up any rotating laser, from any angle. Built-in vertical indicator monitors angle of the stick, signalling if it's plumb or under- or overextended. Vertical position ensures consistent and accurate grade readings, saving money by reducing over- or under-cutting.



LMR 240 – 240° machine receiver

Ideal for use with backhoes and mini-excavators, this receiver offers the convenience of a machine-mounted display at an economical price. The LMR 240 receiver provides accurate grade information for all visual machine control applications, with 240° detection of any rotating laser.



CLC Combo+ (receiver/remote)

Unlock a world of powerful features on Rugby CLAx series

- **Work faster with fewer tools:** Integrated receiver and remote reduce handling and allow laser control.
- **Clear grade information from any angle:** Large front and back graphic displays, both backlit, ensure excellent readability in all lighting conditions.
- **Reliable performance on demanding jobsites:** The anti-strobe feature filters disruptive light sources for stable, accurate detection where other receivers may fail.
- **Adapted to the task:** Offset and adjustable sensor window support precise alignment and flexible grading applications.
- **Built to last:** With an IP67 protection rating, the Combo+ is waterproof and ready for harsh construction environments.
- **Seamless Leica Geosystems system integration:** Designed for use with Leica CLA-ctive lasers, including slope catch and slope match functionality for confident grading.



Technical data

	Rod Eye 120G digital	Rod Eye 120	Rod Eye 140	Rod Eye 160 digital	CLC Combo+
Working diameter (laser dependent)	400 m	900 m	1350 m		
Detection window	70 mm		120 mm		
Digital readout	✓			✓	✓
Detectable spectrum	500 nm to 570 nm	600 nm to 800 nm			-
Audio volumes	high / low / off			high / low / med / off	4 (including mute)
Detection bandwidth	fine ± 1 mm medium ± 2 mm coarse ± 3 mm			very fine ± 0.5 mm fine ± 1 mm medium ± 2 mm coarse ± 3 mm very coarse ± 5 mm	very fine ± 0.5 mm fine ± 1 mm medium ± 2 mm very coarse ± 5 mm
LED display	✓	✓	✓	✓	✓
Anti-strobe protection			✓	✓	✓
Environmental standard	IP67				
Battery runtime (hours)	50+ (2× AA type)				50 (Li-Ion 3.7V)
Dimensions (H × W × D)	173 × 76 × 29 mm				205 × 86 × 32 mm
Operating temperature range	-20 °C to +50 °C				
Warranty	3 years				

Technical data

	Leica LMR360	Leica LMR240
Range radius	400 m	250 m
Reception	360°	240°
Capture window	25 cm	15 cm
Accuracy (fine)	6 mm	1.5–6 mm
Accuracy (coarse)	12 mm	10–15 mm
Protection class (splash water/dust proof)	IP67	
Battery type / runtime	NiMH / 30 h	3 × AA / 120–160 h
Weight	1.8 kg	1.9 kg
Mounting	magnetic / clamps	magnetic
Remote display	✓	✗
Remote range	30 m	-



Rotating laser accessories



Flexi Rod with mm scale
Article no. 868132



CT160 tripod with screw clamps
Article no. 864856



CTP104 tripod with fast clamps
Article no. 767710



Rugby Smart adapter with 90°RE clamp
For all Rugby lasers.
Article no. 864855



Combo and Rod Eye receiver bracket
Article no. 835666



Rugby scope with adapter plate
For Rugby CLAx
Article no. 864859



A210 red Ceiling Grid Target
Used with Rugby 640.
Article no. 732791



RC400 Remote Control
Operates with Rugby 640 / 640G.
Article no. 790352



A240 Manual Slope Adapter
Used with Rugby 610.
Article no. 790434



A600 Li-Ion Battery Pack, 4.8 Ah
For Rugby 600 series.
Article no. 790415



A210G Green Ceiling Grid Target
Used with Rugby 640G.
Article no. 849525



A100 Li-Ion Charger
For Rugby CL-Series & 600 series, Combo+.
Article no. 790417



A130 12 V Battery Cable, 4.5 m
Charge and run from auto battery for all Rugby lasers.
Article no. 790418



A140 Car Adapter Cable, 1 m
Charge inside the vehicle while driving. No downtime, unique power concept with solar panel for all Rugby lasers.
Article no. 797750



A61C – Li-Ion Battery, USB-C
For Rugby 600 Series.
Article no. 1043976



A62C – Li-Ion Battery, USB-C
For Rugby CLAx Series.
Article no. 1043977



GEV310 – USB-C Charger, 35W
For Li-Ion Battery A61C and A62C.
Article no. 1046816



GEV311 – USB-C to USB-C charge cable, 2 m
For Li-Ion Battery A61C / A62C and GEV311 charger.
Article no. 1046817

Leica Piper series

Leica Piper 100 / 100G / 200 / 200G

Compact & rugged

Leica Pipe lasers are the smallest pipe lasers in the market fitting inside a 100 mm/4 in pipe. There is no compromise, with the Leica Piper you have a small pipe laser providing the highest performance standards. And there is more, with the housing rolled up to ± 3°, the Piper will compensate and correct for the grade errors due to its automatic grade compensation.

Alignmaster™ auto-targeting

Alignmaster™ Auto-targeting on Leica Piper 200/200G is a automatic alignment function that actively searches for and locks onto the target plate, precisely aligning the laser beam without manual adjustment. It significantly speeds up second-day setups and reduces alignment errors, especially over longer pipe runs.

Green beam

The Piper Green series offers you four times better visibility of the laser providing you higher levelling accuracy. This allows you to work at longer distances from the instrument position even in bright conditions. Often used in water and sewage the green series is perfect for better visibility in this cases.

Best visibility
Green laser

Extensive laser experience and trustful long range precision

As the most experienced laser specialist in the market, Leica Geosystems combines recognised quality, trusted performance and long-range precision you can rely on under any conditions.





Technical data

	Piper 100				Piper 200	
	2M	3R	2M GREEN	3R GREEN	3R	3R GREEN
Laser beam colour	Red		Green		Red	Green
Wave length	635 nm		520 nm		635 nm	520 nm
Laser class	2M	3R	2M	3R	3R	3R
Max. average radiant power	1.2 mW	4.75 mW	1.2 mW	4.8 mW	4.75 mW	4.8 mW
Working range	<200 m (<650 ft)					
Grade range	-10% to +25%					
Self-levelling range	-15% to +30%					
Line movement	6 m at 30 m (20 ft at 100 ft)					
Battery*	Li-Ion, up to 40 h					
Charging time*	4 h					
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)					
Dimensions (diameter × length)	96 mm × 267 mm (3.9" × 10.5")					
Weight	2.0 kg (4.4 lbs)					
Housing	Cast aluminium					
Protection class	IP68					
Wireless remote distance	Front 150 m (500 ft) Back 10 m (35 ft)					
Self levelling accuracy**	± 1.5 mm at 30 m (± 1/16" at 100 ft)					
Auto targeting	✗				✓	

* Battery operating/charging times are dependent upon environmental conditions
** Self levelling accuracy is defined at 25 °C (77 °F)

Leica Piper accessories



IR remote control
Article no. 746157



Target assemblies
Article no. 915443
Article no. 725858



PTC target assemblies – 100 mm / 4 in
Article no. 815613 – red
Article no. 950336 – blue



Trivet assembly
Article no. 746158



Scope and mount assembly
For Rugby 600 series.
Article no. 746160



Optical Levels

The toughest optical levels on site

Extreme robustness, high measurement precision at a highly competitive price. All this makes the difference. Moreover, Leica Geosystems levels are so easy-to-use, there is no need to spend time on training.

Leica Geosystems levels can be configured to suit your work and preferences. Horizontal angles can be read in either degrees or gons, with some levels.



Leica NA300 series

Automatic levels for daily levelling tasks.

Leica NA500 series

Reliable levels for the construction and building site.

Leica NA700 series

The toughest optical levels on site.

Leica NA2 & NAK2

The most precise automatic levels.

Leica NA300 series

The Leica NA300 series of automatic (optical) levels were developed for professionals who are looking for the highest quality results day by day. With the many obstructions and uneven surfaces on construction and building sites, the NA300 levels rise to the occasion and ensure the straightest and safest construction possible.



Technical data

	NA320	NA324	NA332
Magnification	20×	24×	32×
Angle measurement		360°	
Standard deviation (per km double-run)	2.5 mm	2.0 mm	1.8 mm
Shortest target distance		<1.0 m	
Protection class		IP54	
Working temperature		-20 °C to +40 °C	
Weight		1.5 kg	
Warranty		1 year no cost period	

Leica NA500 series

Professionals face many obstructions on site. Whatever the levelling challenge, Leica NA500 series levels overcome. Rely on the known expertise of Leica Geosystems for the best quality and performance. On your terms, on your site, Leica Geosystems and the Leica NA500 series are your trusted partners for accurate measurements every time.



Technical data

	NA520	NA524	NA532
Magnification	20×	24×	32×
Angle measurement		360°	
Standard deviation (per km double-run)	2.5 mm	1.9 mm	1.6 mm
Shortest target distance		<1.0 m	
Protection class		IP56	
Working temperature		-20 °C to +50 °C	
Weight		1.5 kg	
Warranty		2 years no cost period	

Leica NA700 series

Nothing stops a Leica NA700 level. A short drop onto the ground, a fall into water, vibration from heavy machinery, with a Leica NA700 level you just continue working. No time-consuming checking or readjustment required. The ‘best-in-class’ optics enable you to always work as precisely as possible and with the best visibility even in dusk or at dawn! What does this add up to? Reduced work downtime, and higher productivity, resulting in reliability and accuracy at an extremely reasonable price.



Technical data

	NA720	NA724	NA730 plus
Magnification	20×	24×	30×
Angle measurement		360° / 400 gon	
Standard deviation (per km double-run)	2.5 mm	2.0 mm	0.7 mm
Protection class		IP57	
Working temperature		-20 °C to +50 °C	
Weight		1.6 kg	1.7 kg
Warranty		2 years no cost period	

Leica NA2 / NAK2

The Leica NA2 universal automatic level meets all requirements regarding precision, convenience and reliability. It was designed by surveyors and development engineers with years of experience, that know what a field instrument has to be able to do. The NA2 soon pays for itself, because it can be used for all types of surveying jobs — on building sites for routine levelling, in engineering projects and for geodetic control at all levels of accuracy. Leica NA2 and Leica NAK2 are two universal automatic levels that meet all the requirements of precision levelling.



Technical data

	NA2	NAK2
Magnification	32× FOK73 eyepiece (optional): 40×	standard: 32× FOK73 eyepiece (optional): 40×
Angle measurement	–	360° / 400 gon
Standard deviation (per km double-run)	0.7 mm/km (0.3 mm with parallel-plate micrometer)	
Protection class	IP53	
Working temperature	-20 °C to +50 °C	
Weight	2.4 kg	
Warranty	3 years no cost period	

Accessories



CTP104 tripod with fast clamps
Aluminium tripod with shoulder strap and fast clamps, medium weight. Complies with NA Levels.
Article no. 767710



CT160 tripod with screw clamps
Complies with NA Levels.
Article no. 864856



CLR102 telescopic level staff
5 m length, 4 sections, E-graduation front, mm-graduation back. Complies with NA Levels.
Article no. 727588



CLR104 telescopic level staff
5 m length, 5 sections, inverse reading.
Article no. 743420





GOA2 autocollimation eyepiece
For all instruments.
Article no. 199899



FOK73 40× eyepiece
For NA2 / NAK2, exchangeable against standard eyepiece.
Article no. 346475



GPM3 parallel-plate micrometer
In container, measuring range 10 mm.
Article no. 356121



Leica iCON trades

Reimagining construction workflows with precision, speed, and simplicity.

Leica iCON trades brings industrial grade measurement technology into everyday construction workflows, making advanced digital processes simple, accessible, and highly reliable. Combining advanced sensors with application tailored software, it enables digital layout, interior finishing, and templating workflows through a flexible, use case specific setup. Designed for ease of use and powered by AI enabled technology, it helps streamline processes, reduce errors, and deliver high precision results from data capture through to production.

Simple and intuitive to use

Leica iCON trades is built for straightforward operation, enabling users to quickly adopt digital workflows with minimal effort. Its user friendly design ensures smooth integration into everyday tasks across all applications.

Developed for tradespeople

Tailored to the needs of construction professionals, Leica iCON trades supports a wide range of trades such as carpentry, metal working, glass, stone, stairs, marine, and MEP/HVAC. As a flexible platform, it adapts to different applications through use case specific software, providing a consistent and efficient way to work across multiple workflows including interior finishing, templating, and layout.

Industry specific software

Purpose built software supports trade specific workflows, enabling precise digital layout, efficient interior finishing, and accurate 2D and 3D templating across various materials and geometries.

AI-powered and digital-ready

AI predicts user movement, such as pole tracking, to speed up workflows, while computational photography enables photorealistic site documentation and better project understanding.

Move to fully digital workflows

From data capture to CAD processing and CNC ready output, Leica iCON trades enables a fully connected, digital workflow, improving efficiency, reducing rework, and supporting modern construction processes.

High precision you can rely on

Achieving 1 mm accuracy at 10 m with the vPen, even for complex geometries and hard-to-reach points.

Automated processes for reliable results

Smart automation features, such as automatic levelling, automatic relocation, line and surface scans, pole height detection or tilt compensation, simplify on site work and help avoid expensive mistakes. This ensures accuracy and consistency without adding complexity.

Leica iCON trades for Templating

Software to create digital templates and data for CNC machinery

The field software Leica iCON trades for Templating is particularly suitable for the creation of digital templates and covers the specific needs of stonemasons, glaziers, bathroom fitters, and marine interior professionals. The software ensures a seamless workflow, from capturing 2D and 3D measurement data, to the completion of drawings on site and to the transfer of CNC-ready files directly to production.



Advantages at a glance

- One-person operation reduces staff resources and increases productivity
- Quickly ready for use due to the ‘auto-setup’ process
- Easy relocation with ‘auto-relocation’ and Leica vTarget
- Fast and efficient data capturing, fully compatible with the unique wireless Leica vPen
- Finalisation of drawings on site with powerful CAD tools
- Export of production-ready DXF files to programme CNC machinery

This software is compatible with:

- The motorised construction tool – Leica iCON iCS20
- The robotic construction tool – Leica iCON iCS50 & Leica vPen

Leica vPen

The unique wireless measuring pen for tactile measurements

The Leica vPen, used in combination with the Leica iCON iCS50, enables fast, precise and highly intuitive digital templating directly on site. By simply touching points, users can capture accurate data **(± 1 mm at 10 m)** on complex geometries, edges and hard-to-reach areas, even on challenging surfaces such as glass or glossy materials, eliminating the need for targets.
An optional 25 m working range is also available, extending flexibility for larger-scale applications.

Advanced visual measurement technology continuously tracks the vPen by recognising its unique dot pattern and precisely calculating its position from any direction, accounting for tilt and orientation. This ensures a fast, stable connection at all times, allowing complex shapes to be captured with high accuracy and efficiency, and enabling a **seamless transition from measurement to CAD and CNC production.**

New intelligent **Tracing function** allows users to **continuously capture** contours and edges by smoothly guiding the vPen along surfaces, significantly accelerating the digitisation of complex shapes. **Integrated Smoothing functionality automatically refines captured data,** resulting in clean, precise lines that are immediately ready for further processing in CAD and production workflows.





Leica iCON trades for Interior Finishing

Software for measuring and marking tasks in interior construction

The field software Leica iCON trades for Interior Finishing ensures a seamless data flow, by enabling you to create as-built drawings including all details and then export the data for further processing in your preferred CAD software. The CAD design then allows you to programme your CNC machine and manufacture the individual components to fit precisely. This cuts down the assembly effort on site, as rework is reduced to an absolute minimum and the high-precision fit immediately fulfils professional aesthetic expectations.



Advantages at a glance

- One-person operation reduces staff resources and increases productivity
- Quickly ready for use due to the ‘auto-setup’ process
- Easy relocation with ‘auto-relocation’ and Leica vTarget
- Efficient data capturing due to automated measurement processes such as line and area scans
- Export to 2D/3D DXF or DWG files for further processing in CAD applications
- Clear documentation with automatically generated photos
- Projection of fixing points reduces assembly time on site

This software is compatible with:

- The motorised construction tool – Leica iCON iCS20
- The robotic construction tool – Leica iCON iCS50 & Leica vPen



Leica vPen

Fast, accurate measurement on any surface

The Leica vPen, used with the Leica iCON iCS50, enhances interior finishing workflows by enabling fast and intuitive as-built measurement directly on site. By simply touching points, users can capture precise data on complex geometries, edges, and hard-to-reach areas, even on challenging surfaces such as glass or glossy materials. This eliminates the need for targets and simplifies measurement of real-world conditions.

Continuous tracking ensures accurate positioning from any direction, helping to capture reliable data quickly and reducing errors in the transition from measurement to design and production.



Leica iCON trades for Layout

Software for digital construction and MEP layout, as-built and inspection tasks

The field software Leica iCON trades for Layout is designed specifically for foremen, construction surveyors, layout specialists, MEP installers and drywallers. It follows the industry specific workflows and supports all layout and marking tasks carried out in the building construction industry. It is ideal for both simple layout tasks and complex projects. The handling is easy to learn and the device and software can be used immediately.

Intuitive operation

Leica iCON trades for Layout is a unique combination of simplicity and power. The software guides you through every step of the process, including data import and reparation, device positioning and layout. This allows you to layout faster and with ease.

Fast data transfer on site

Save the time-consuming data preparation in the office with a special office software. Simply import the data which you receive from the architecture, planning or surveying office into the Leica iCON trades software. All common file types will be accepted: PDF, CSV, DXF, DWG and IFC.



Office to field with flexible data access

You can access the data either via USB, e-mail or common construction cloud services such as Bricsys 24/7, Autodesk Construction Cloud, Procore, Bluebeam, Allplan BIMPLUS, Google Drive, Dropbox, OneDrive. Always having the most recent data at hand enables you to react quickly to last-minute change requests with minimal efforts.

This software is compatible with:

- The motorised construction tool – Leica iCON iCS20 & Leica CSX8 Android tablet
- The robotic construction tool – Leica iCON iCS50 & Leica vPole & Leica CSX8 Android tablet
- The robotic construction tool – Leica iCON iCS50 & Leica vPen & Leica CSX8 Android tablet

Leica vPole

The all-new layout experience with visual-based target tracking

The Leica vPole, used with the Leica iCON iCS50, introduces a new layout experience based on advanced visual measurement technology. The system continuously recognises the unique dot pattern on the vPole sphere and precisely calculates its position from any direction, automatically detecting pole height and compensating for tilt. This ensures a robust and stable connection between sensor and pole at all times, regardless of movement or orientation. As a result, users can move freely around the site without needing to align themselves with the instrument, enabling faster and more efficient layout of points including hidden or hard-to-reach areas.

By combining continuous tracking with automated adjustments, the solution increases productivity, reduces errors, and simplifies on-site workflows, while the lightweight design of the vPole ensures comfortable handling throughout the working day.

Leica vPen (25 m option)

The Leica vPen complements the layout workflow with intuitive, high-precision point capture. The optional 25 m range extends the working distance, ideal for applications such as steel construction or anchor bolt positioning.



Leica iCON iCS20

Motorised Construction Tool

The Leica iCON iCS20 is an easy-to-use 3D measurement tool, serving a wide variety of professional applications. It is also suitable for users who want to move from traditional, manual measurement methods to digital workflows. The visual measurement technology always displays the current situation and prevents anything from being forgotten. Automated workflows, as well as the intuitive, industry-specific software Leica iCON trades, reduce measurement complexity to a minimum. Yes, it's that simple.





Leica iCON iCS50

Robotic construction tool

The robotic Leica iCON iCS50 is a state-of-the-art construction tool designed for performing both simple and complex 2D and 3D measurement tasks. Building on the proven capabilities of the Leica iCON iCS20, it adds advanced visual measurement technology, enabling continuous tracking, high accuracy and intuitive operation. Its robust design and automated features ensure reliable performance and efficient data capture across a wide range of construction tasks.

In combination with the Leica vPen (the unique wireless measuring pen) the iCS50 becomes a powerful solution for intuitive, high-precision measurements. Users can easily capture complex geometries, edges and hard-to-reach areas with a simple touch. The optional 25 m working range further extends the measurement distance while maintaining excellent accuracy, enabling efficient work even on larger structures.

The Leica vPole complements the system by providing a highly efficient method for point positioning and measurement. With visual target tracking, automatic tilt compensation and pole height detection, the iCS50 continuously tracks the vPole from any direction. This ensures a stable connection at all times and allows users to move freely on site, increasing productivity while reducing setup time and potential sources of error.





Detection systems & software

Whether you are protecting, mapping or creating an awareness of buried utilities, Leica Geosystems offers a comprehensive product and software range.







Cable locators for utility detection

Leica DD100 series

DX Shield software

Leica DT100

Ground penetrating radar for utility detection

DSX utility detection solution

DXplore software

DS4000

IQMaps software

Ground penetrating radar for concrete scanning

C-Thrue

C-Thrue XS

NTD Reveal software

Accessories

Leica DD100 series locators

Safe and fast location of underground utilities

Leica DD120

For construction professionals who need to understand what is beneath their sites, the Leica DD120 cable locator is a simple, intuitive locator designed to detect and avoid buried utilities throughout the excavation phase.
The DD120 automated pinpointing process improves the detection of utilities and improving workforce safety.
Use the DD120 in conjunction with a DA175 signal transmitter or range of accessories to achieve depth estimation, improved accuracy and application scope.



Article no. 50 Hz 872938 / 60 Hz 872939

Leica DD130

For all professionals who need to accurately locate and trace buried utilities, Leica DD130 cable locator features additional tracing capabilities and increased depth detection in an easy, intuitive product. The DD130 delivers consistent and precise location capabilities for increased user confidence.
Use the DD130 in conjunction with a DA175 signal transmitter or range of accessories to achieve depth estimation, improved accuracy and application scope incl. two more frequencies (512 Hz & 640 Hz).



Article no. 50 Hz 872940 / 60 Hz 872941

Leica DD175

With the latest DD175 locator take advantage of Bluetooth and GPS connection for sharing data with the existing DX software suite, for maximum efficiency and simplicity in your projects. Use the DD175 in conjunction with a DA175 signal transmitter or range of accessories to achieve improved accuracy and application scope.



DX

Article no. 50 Hz 949120 / 60 Hz 949121

Technical data

	DD120	DD130	DD175
Power	50 Hz model or 60 Hz model	50 Hz model or 60 Hz model	50 Hz / 60 Hz model
Radio	15 kHz to 60 kHz	15 kHz to 60 kHz	15 kHz to 60 kHz
Auto	Power, Radio	Power, Radio	Power, Radio
Transmitter modes	32.768 (33) kHz, 8.192 (8) kHz	32.768 (33) kHz, 8.192 (8) kHz, 512 Hz, 640 Hz	32.768 (33) kHz, 8.192 (8) kHz, 512 Hz, 640 Hz
Depth range line sonde	0.3 m to 3 m (1 ft to 10 ft)	0.3 m to 3 m (1 ft to 10 ft)	0.3 m to 3 m (1 ft to 10 ft)
	0.3 m to 3 m (1 ft to 10 ft)	0.3 m to 9.99 m (1 ft to 32.77 ft)	0.3 m to 9.99 m (1 ft to 32.77 ft)
Depth accuracy*	10%	10%	10%
Protection	IP54	IP54	IP54
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)
Battery	6 × LR6 (AA) alkaline	6 × LR6 (AA) alkaline	6 × LR6 (AA) alkaline
Battery operating time**	15 h	15 h	15 h
Dimensions (H × W × D)	760 × 250 × 85 mm (30 × 10 × 3.4 in)	760 × 250 × 85 mm (30 × 10 × 3.4 in)	760 × 250 × 85 mm (30 × 10 × 3.4 in)
Weight with batteries	2.7 kg (6 lbs)	2.7 kg (6 lbs)	2.7 kg (6 lbs)
Internal data storage	-	-	✓
Data logging	-	-	✓
GPS	-	-	✓
Bluetooth	-	-	✓
Warranty	1 year		

* Depth to an undistorted signal ** Constant use at 20 °C (68 °F)

DA175 signal transmitter



The Leica DA175 is a 1-Watt signal transmitter designed to enhance the locating performance of the DD120, DD130 and DD175 cable locators. It applies a clear, traceable signal to buried utilities that may not carry a detectable current on their own, enabling accurate depth estimation, utility tracing and identification. Rugged, simple to use and field-ready, the DA175 expands the application range of the DD100 series for more reliable underground detection.

- 1-Watt output for clear, consistent active tracing of buried utilities
- Multiple trace frequencies: 512 Hz, 640 Hz, 8 kHz and 33 kHz
- Compatible with DD120, DD130 and DD175 locators
- Ideal for tracing utilities with weak or non-detectable passive signals
- Works with a range of connection accessories (clamps, plugs, crocodile clips)
- IP67-rated for durability in harsh jobsite environments
- Powered by 4× LR20 alkaline batteries



Article no. 949370

Technical data

Mode	Output
Induction	Up to 1 Watt max.
Connection mode	Model dependent, up to 1 Watt, when connected to a buried utility with an impedance of 300 Ohms
Operating transmission frequencies	32.768 (33) kHz 8.192 (8) kHz 512 Hz (DD130/175 series models) 640 Hz (DD130/175 series models)
Display panel	**LED Indicators:** Battery low indicator Connection mode Frequency indicator Power output indicator
Keypad	4 membrane push buttons
Audio	85 dBA @ 30 cm **Induction mode:** Pulsed output with a differing rate for each frequency **Connection mode:** Low – No output: pulsed output, differing rate for each frequency Good connection output: constant tone, pitch dependent on power output
Battery type	LR20 batteries
Typical operating time	15 hours at power level 2 connection mode
Dimensions	250 × 206 × 113 mm (9.84 × 8.11 × 4.45 in)
Weight (incl. standard accessories and batteries)	2.38 kg with batteries
Temperature	Operating: -20 °C to +50 °C (-4 °F to +122 °F) Storage: -40 °C to +70 °C (-40 °F to +158 °F)
Protection against water, dust and sand	Conforms to IP67 lid open or closed
Humidity	95% RH non condensing The effects of condensation are to be effectively counteracted by periodically drying out the product.
Approvals	CE, FCC

Leica DD300 CONNECT

Utility locator solution

The DD300 CONNECT is a digital utility locator made for quick, clear and reliable locating on any job site. It offers guided on-screen workflows, smart filtering to identify the correct utility in busy areas, and Bluetooth connectivity for automated reporting through DX Shield. Its wide frequency range supports accurate everyday cable avoidance, and the DA300 1-W transmitter can be added when active tracing is needed.

Perfect for construction and utility crews who need a simple, guided locator for everyday cable avoidance, quick training, and digital reporting, with optional active tracing for basic utility-marking workflows.

- Bright colour display with built-in video tutorials for guided locating
- Digital trim for accurate utility identification in multi-target areas
- Wide frequency range with dedicated 83 kHz bridging frequency
- Bluetooth connectivity for DX Shield reporting and device management
- Compatible with the DA300 1-W transmitter for tracing non-energised or low-signal utilities
- Dual-power supply (alkaline or Li-Ion) with approx. 10 h runtime
- IP65 protection for tough field conditions





Article no. 1003191

Technical data

Mode	DD300 CONNECT
Power	50 / 60 Hz mains electrical and harmonics
Radio	15 kHz to 60 kHz
Auto	Power, Radio, 33 kHz
Transmitter modes	131.072 (131) kHz, 83.078 (83) kHz, 32.768 (33) kHz, 8.192 (8) kHz, 512 Hz, 640 Hz
Depth range*	Line 0.1 m to 7 m (4 in to 23 ft) Sonde 0.1 m to 10 m (4 in to 32.8 ft)
Depth accuracy*	5%
Bluetooth	Class 2 BLE dual mode module Bluetooth Classic 2.1 Bluetooth 4.0 (LE)
GPS**	Chipset (1): u-blox®GPS Receiver Type: GPS L1C/A, SBAS L1C/A, QZSS L1C/A, GLONASS L1OF, BeiDou B1 Accuracy (2): Horizontal Position 2.5 m, Autonomous, 2.0 m SBAS,CEP Start time: Cold 45 s typical, Aided 7 s typical, Hot 1 s typical
Memory capacity	8 GB internal memory
Environmental standard	IP65
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Battery	4 × LR20 alkaline battery – Li-Ion optional
Battery operating time***	10 h
Dimensions (H × W × D)	765 × 290 × 93 mm (30.12 × 11.42 × 3.66 in)
Weight with batteries	2.86 kg (6.3 lbs)

* Depth to an undistorted signal ** (1) All data/information according to manufacturer u-blox®GPS; Leica Geosystems does not assume any liability whatsoever for such information. (2) Accuracy is dependent upon various factors including atmospheric conditions, multipath, obstructions, signal geometry and number of tracked satellites.
*** Constant use at 20 °C (68 °F)

Leica DA300 signal transmitter

The Leica DA300 simple and intuitive signal transmitter extends the applications and scope of the DD300 CONNECT cable locator, helping to improve the detection and tracing of buried utilities, even those with a poor or non detectable signal.

The Leica DA300 transmitter can be operated in both passive and active mode with the supplied accessories, such as the transmitter signal clamp, property plug connector and crocodile clamps.

- 1-Watt transmitter for stronger tracing of low-signal or inactive utilities
- Active and passive modes for flexible tracing in different scenarios
- Comes with crocodile clamps for quick connections and optional signal clamps or property plug
- Enhances detection on poor or weak signals for more reliable tracing
- Works with DD300 CONNECT for expanded active locating
- Rugged design with long-lasting battery (≈15 hours) for full-day use
- IP67-rated for harsh field environments



Article no. 1003819

Technical data

Mode	DA300
Induction mode frequencies	32.768 (33) kHz / 8.192 (8) kHz
Power output	Up to 1 W max.
Direct connection mode frequencies	131.072 (131) kHz / 83.078 (83) kHz / 32.768 (33) kHz / 8.192 (8) kHz / 512 Hz / 640 Hz
Environmental standard	IP67
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Battery	4 × LR20 alkaline battery – Li-Ion optional
Battery operating time*	15 h
Dimensions (H × W × D)	250 × 206 × 113 mm (9.84 × 8.11 × 4.45 in)
Weight with batteries	2.46 kg (5.42 lbs)

* Constant use at 20 °C (68 °F)



Create an account

DX Shield software

Connect with DD SMART locators and Bluetooth enabled Digicats

DX Shield software focuses on site protection allowing organisations to gain a better understanding of task performance and site complexities. Easy-to-use reports provide a fast and convenient overview of product use, enabling businesses to identify training needs and skills gaps leading to reduced utility strikes.

- Protect your personnel
- Protect your assets
- Protect the infrastructure
- Protect your reputation
- Give you insights into how your equipment is used
- Work safer, work smarter, work simpler



DX Field Shield
- Connects field activities to DX Manager Shield
- Connects field activities to DX Office Shield

Download from the Apple App Store or Google Play

DX Office Shield
- Processes & reports on the locator usage information
- Connects to CalMaster and link to the web for web calibration verification

Download from Leica Geosystems website

DX Manager Shield
- Centralised, accessible information
- Processes & reports on the locator usage information
- Holds all site documentation e.g. health & safety forms
- Keeps all site photos logged in the project folder
- Standard, Pro or Expert levels, there's a version that's right for your business

Create an account scanning the QR code on this page



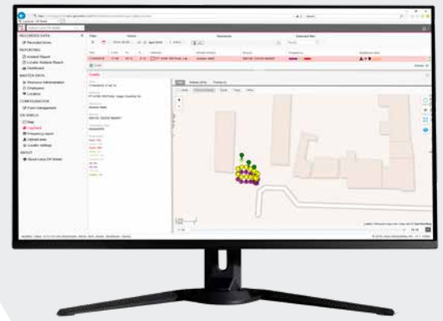
DX Manager Shield licences

Standard account	Pro subscription	Expert subscription
Register online and create a **free account**. Viewable data over a 3 month rolling period, with basic system and report functionality. Subscribe and upgrade for additional functionality.	1 year **DX Manager Shield Pro** licence for 1 user. Viewable data over a 12 month rolling period. Additional team management structuring, report functionality and map options than the Standard account. **Article no. 5309201**	1 year **DX Manager Shield Expert** licence for 1 user. Viewable data over a 24 month rolling period. Additional automated reporting, site notes and photo upload than the Pro subscription. **Article no. 5309202**

Leica DX Manager

One central dashboard for all Leica Geosystems detection solutions

Leica DX Manager is the only enterprise grade utility mapping solution on the market. A unique cloud-powered solution that delivers unparalleled performance. Manage projects, tasks and spatial data from one central dashboard for all the Leica Geosystems detection solutions.



Utility detection integration

Leica DX Manager integrates all the Leica Geosystems detection portfolio into a simple survey workflow, empowering the user to apply locator depth measurements to GNSS measurements. The result is a seamless fusion of both worlds with all locator related data reviewable either in Leica DX Manager or any export format.

- Locate the utility
- Measure the depth
- All location data is sent directly to the Leica DX Field application on the GNSS device
- It triggers the GNSS measurement on the mapping device
- All data is integrated into the features metadata

Manage the whole workflow

An easy-to-use online portal allows management of all aspects of documenting utility location tasks. The user can switch between street view, satellite imagery and cartographic street maps. Field acquired survey data becomes instantly available and can be accessed by users anytime and anywhere.

- Analyse map result
- Visualise on online maps
- Filter on users, within date ranges or any attributes
- Export to standard GIS and CAD formats
- Share data to your clients

Maximum user experience and productivity

Leica DX Field mobile app is designed, for productivity and maximum user experience and built for enforcing data quality and accuracy.

- Easy mapping / surveying of assets
- Smart mobile forms
- Immediate visualisation on map
- Metadata collection
- Automatic sync with cloud
- Full offline capabilities

Leica DT100 precision locator

Outstanding utility detection at your fingertips

Leica DT100 is designed to redefine the standard for precision locating, delivering a robust solution for construction, utility and surveying professionals.
Its ergonomic design supports comfortable operation over long periods, ensuring an optimised user experience and maximum flexibility in the field. Advanced intelligent signal processing and flexible operating modes enable highly accurate and reliable detection of underground utility networks across the entire surveying workflow.

When combined with the **Leica Zeno FLX100** plus smart antenna, the Leica DT100 also supports mapping and GIS data collection, enabling precise positioning and seamless integration into digital mapping workflows.

- LCD colour screen with intuitive and unique UI/UX
- Frequency Analyzer Tool to identify the best frequency to use in the field
- Locate mode (single, twin and null) and Sweep mode (Omnidirectional)
- Comfortable soft-touch keypad for enhanced tactile feedback with each button press
- Ergonomic design for well-balanced device (less than 2 kg)





Article no. 1005571

Technical data

Mode	DT100
Frequency range	50 Hz–200 kHz
Sensitivity	33 kHz (1 µA at 1 m)
Dynamic range	117 dB
Max automatic depth	6 m (20 ft)
Max pushbutton depth	11 m (36 ft)
Locate accuracy	± 5% depth
Depth accuracy	In line ± 5% to 3 m / ± 5% to 10 ft; Sonde ± 5% to 3 m / ± 5% to 10 ft; Passive ± 5% to 3 m / ± 5% to 10 ft
Factory standard frequencies (Hz)	Power: 50, 60, 150, 180, 450, 540; Grouped Power: 50, 60 (odd harmonics up to ~1.1 kHz); Radio: approx. 13–28 kHz; Cathodic: 120 Hz (60 Hz), 100 Hz (50 Hz); Active: 256…200 kHz; Sonde: 512, 640, 8.19 k, 32.8 k
Connectivity	Bluetooth low energy (BLE)
Available accessory	Ring clamp
Units	Metric and imperial – selectable via settings menu
Environmental protection	IP65
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Battery	Li-Ion battery pack 3200 mAh – 11.1 V, 35.5 Wh; 6 × AA alkaline battery
Battery runtime	Lithium: 15 h continuous – 30 intermittent; alkaline: 5 h continuous – 10 intermittent
Dimensions (H × W × D)	68 × 14.7 × 32.6 cm (26.7 × 5.8 × 12.7 in)

Leica DE100 signal transmitter

Leica DT100 system is integrated with the DE100, a 10-Watt signal transmitter capable of delivering up to 1 A of maximum current, enhancing signal transmission along utilities. It features dual output ports, allowing for the connection of two accessories simultaneously. The preferred accessory can be selected with the press of a single button. Furthermore, thanks to the information showed on the embedded display, it is possible to immediately evaluate whether the signal flow correctly within the utility.

- 10 Watt transmitter capable of delivering up to 1 A of current
- Dual-output port to connect two accessories simultaneously
- Frequency range from 256 Hz to 200 kHz
- Capability to alert the user to the presence of hazardous voltages
- High contrast display with comfortable soft-touch keypad

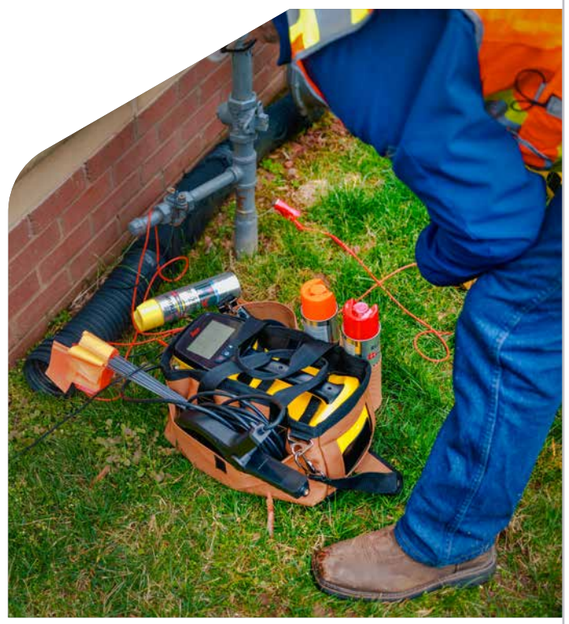




Article no. 1005573

Technical data

Mode	DE100
Frequency range	256 Hz–200 kHz
Power output	Up to 10 Watt with Li-Ion battery (1 Watt above 45 kHz); Up to 5 Watt with alkaline battery
Current max	1 A – (0.5 A above 45 kHz)
Voltage max	90 V rms
Factory standard frequencies (Hz)	Direct connect and clamp: 256, 263, 440, 512, 560, 577, 640, 815, 870, 940, 1.02 k, 1.17 k, 3.14 k, 4.1 k, 8.01 k, 8.19 k, 9.82 k, 12.1 k, 16.3 k, 22.5 k, 29.4 k, 32.8 k, 44.5 k, 66.1 k, 88.8 k, 99 k, 132 k, 200 k; Induction: all listed above starting at 3.14 kHz
Modes	Direct connect, clamp and induction
Multimeter function	Watts, current, ohms and volts
Protection	High voltage isolation
Available accessory	Clamp and crocodile leads
Environmental protection	IP65
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Battery	Li-Ion battery pack 6400 mAh – 14.8 V, 94.7 Wh; 8 × LR20 alkaline
Battery runtime	Lithium: 17 hours continuous – 34 hours intermittent; alkaline: 10 hours continuous – 20 hours intermittent
Dimensions (H × W × D)	21 × 19.3 × 38.1 cm (8.3 × 7.6 × 15 in)



Leica Zeno FLX100 plus smart antenna

The Leica FLX100 plus is designed for professionals who need reliable, centimetre-level GNSS accuracy without complex equipment or workflows. Ultra-portable and easy to deploy, it enables precise positioning even in hard to reach areas, supporting efficient data capture across a wide range of field applications.

What sets the FLX100 plus apart is its ability to combine tilt-compensated GNSS measurements with a smartphone-based workflow. Paired with the **Zeno Mobile One app,** it allows users to **capture accurate positions in real time, even when the pole cannot be held perfectly vertical.** This reduces re-measurement, improves safety and speeds up work in challenging environments.

When used together with Leica detection solutions such as the DT100, the FLX100 plus becomes a powerful tool for accurate documentation of detected utilities. Field crews can record positions immediately and reliably, reducing training effort, saving time on site and supporting consistent, high-quality data collection.

Integrated into the wider Leica Geosystems ecosystem, the FLX100 plus supports a future-proof digital workflow. Data can be shared easily, workflows streamlined and results trusted, making it an ideal solution for organisations that require accuracy, efficiency and long-term scalability from their GNSS and detection operations.





Article no. 015217

	GNSS technology
Horizontal real-time accuracy	RTK (Multi-frequency): 2 cm + 1 ppm* SBAS (L1 only): <0.9 m* Navigated: 1.2 m*
Vertical real-time accuracy	RTK (Multi-frequency): 3 cm + 1 ppm*
Horizontal real-time tilt compensated accuracy	Unlimited tilt Additional Hz uncertainty less than 1.8 cm down to 30° tilt
Post-processing accuracy static mode	Horizontal: 2 cm + 1 ppm* Vertical: 3 cm + 1 ppm*
Satellite signal tracking	GPS (L1 C/A, L2C) Glonass (L1OF, L2OF) BeiDou (B1I, B2I) Galileo (E1B/C, E5b) QZSS (L1C/A, L2C) SBAS: WAAS, EGNOS, MSAS, GAGAN (L1 C/A)
Number of channels	184 channels
Update rate	Up to 10 Hz (0.10 sec)
Supported operating systems	Android, iOS, Windows
Real-time protocols	RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM MSM
Output protocols	NMEA via Zeno Connect
GNSS initialization	Cold Start: 24 sec Reaquisition: 2 sec
User interface	On/Off key status indicator (LED): satellite tracking, corrections, Bluetooth® communication and battery power
Communication port	Bluetooth® 5.0
Power management	
Battery	Internal (3.8 V / 6120 mAh)
Battery charging time	4 hours to full charge
Power	DC 5 V/2 A
Operating time	>20 h
Physical specifications	
Weight and dimensions	319 g, 139 mm × 80.6 mm × 31 mm
Proof against water, sand and dust	IP67
Operating/Storage temperature range	Operating: -40 °C to 65 °C Storage: -40 °C to 80 °C
Humidity	Rarely and slightly condensing. ISO 9022-12-04 (+65 °C, 92 %, 62 h)
Drop	1.2 m
Vibration	Withstands strong vibration. ISO 9022-36-05 (10-55 Hz / ± 0.15 mm / 5 cycles)

Download
Leica Zeno
Connect app

Leica CSX8 rugged tablet

The Leica CSX8 is a rugged Android™ tablet designed for demanding GIS and survey fieldwork. Built to withstand harsh environments, it combines a durable, ergonomic design with fast 5G connectivity and long battery life to support efficient, fully connected data collection workflows.

- Rugged design with IP66 / IP68 protection and 1.5 m drop resistance
- 8" sunlight-readable WUXGA display with Gorilla® Glass 5
- Android 14 with Google mobile services
- 5G, LTE, Wi-Fi and Bluetooth® connectivity
- Dual-frequency GNSS with support for all major satellite systems
- Replaceable 8200 mAh battery with up to 15 hours of use

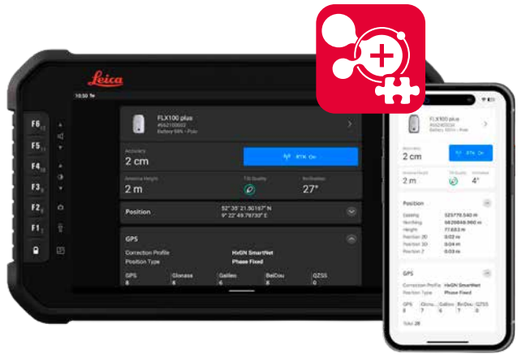


Article no. 973761

Leica Zeno Connect

Leica Zeno Connect is a mobile application designed to streamline the integration of GNSS (GPS) smart antennas into third-party applications. The app establishes a connection between your mobile device and the Leica Zeno smart antenna, taking care of critical tasks like applying coordinate systems and configuring RTK or PPP correction services for precise positioning.

Once configured, Zeno Connect enables efficient and reliable integration with your preferred mobile or web app and ensures precise positioning data is embedded in your workflows.



	GNSS technology
App integration	Turn your own device into a high accuracy data collector when used with a Leica Zeno smart antenna. Zeno Connect runs in the background of your device, handling all communication between the GNSS antenna and the app, as well as the configuration of GPS correction sources. On Android and iOS, the accurate position can be provided via the location manager with no further setup required.
Software features	• Informative and easy-to-read GNSS status. • Easy to configure real-time differential corrections to improve accuracy. • Configure NMEA messages and change output rates as needed for your application. • Turn off/on certain satellite systems for FLX100 plus and GG04 plus antennas. • Import/export Zeno Connect settings files. • Easily manage coordinate systems, antenna height and tilt calibration. • Use CSCS and Geoid models to provide accurate easting, northing and orthometric height.
Supported NMEA messages	GGA, GLL, GSA, GSV, RMC, VTG, GGQ, GST, LLQ, LLK
Zeno WebSocket API	
Integration	Connect to the Zeno WebSocket API for easy integration with 3rd party software. Easily access GNSS data such as NMEA streams, position data, antenna height, tilt values and more directly from web and native apps on iOS, Android and Windows devices. Full documentation and sample code is available from the myWorld Geosystems Partner Network (GPN) for Developers.
Supported devices	
3rd party controllers	Supports iOS 15 and above, Android 10 and above and Windows 10 and 11 for phones, tablets and PCs.
Leica GIS handhelds	CSX8
Leica GNSS antennas	FLX100 plus, FLX100, GG04 plus, GS05, iCG30, GG04, GG03, GG02 plus
System requirements	
Platform	Mobile, tablet or PC
Operating system	iOS 15 and above, Android 10 and above, Windows 10 and 11

Leica Zeno Mobile One

Download
Leica Zeno
Mobile One app

Leica Zeno Mobile One is a simple yet powerful app for mobile data capture that improves productivity and data quality. Connected to your Leica Zeno GNSS antenna, Zeno Mobile One enables the high accuracy data collection you need for asset management.

Zeno Mobile One is **designed for GIS users requiring accurate and comprehensive field data that is easy to collect and manage.** Providing one software solution for your field work, Zeno Mobile One enables you to create and organise your data model on the go and integrates with Esri ArcGIS Online to seamlessly connect with your existing workflows.



Technical data

	Leica Zeno Mobile One
User interface	Intuitive menu design for editing features and attribute entry. UI & buttons kept to a minimum to guarantee a map centric user experience
Project management	Create projects on the fly without the need for any other software. Create data layers in Microsoft Excel using familiar tools. Import, edit and export CAD files directly in your device. Better orientation in the map having OpenStreetMap available
Data capture	One tap operation to capture points, line and polygons from GPS or digitise on screen. Complex feature editing including vertex addition/movement/deletion. Auto fields to automatically store metadata such as GPS accuracy, height values and more. GPS accuracy limits to enhance data capture quality. Filter your data by location and/or attributes. Only display what you need to see. Streaming of points and vertices for faster data capture
Find features	With the Find feature, you can easily find your map features in the real world. The Zeno Mobile One stake out routine will guide you to your target in a seamless map workflow
Multi-collect	Collect more than one feature of more than one type at the same time.
Coordinate system support	Large internal database of coordinate systems to use across the world. Supports coordinate system configuration and geoid model files as well as TRFSET formats. Download country specific geoid and CSCS files from an online repository directly within the app. Access pre-defined kinematic reference frame transformations or create your own with user defined epochs and velocity models for accurate satellite-based measurements in tectonically active areas.
RTK support	Easily create RTK and DGPS profiles for increased accuracy. Built-in SBAS and SmartNet PPP profiles for increased accuracy without mobile data connection.
Utility detection devices	Connect to utility detection devices for measuring high-accuracy asset locations while automatically storing metadata in the app. Supports Leica DT100, RD8200, vLoc3-Pro.
Web Mapping Services (WMS & WMTS)	Add data from WMS and WMTS servers and direct access to HxGN Aerial Imagery available
Web Feature Services (WFS & WFS-T)	Connect to WFS and WFS-T services for online and offline editing of databases
Raw data logging	Store raw GNSS observations in projects to enable post processing
Smart positioning	Connect to HxGN SmartNet to improve GNSS positions over the air at the touch of a button
Leica GNSS antennas	FLX100 plus, GG04 plus
Software support	Zeno Mobile One projects can be directly imported to Leica Infinity
Software options	Available as a separate license and provided by Hexagon, ALKIS provides cadastre data for the whole of Germany in WMS and WFS formats.
Operating system	iOS 16 and newer. Android 12 and newer.
Esri ArcGIS Online / ArcGIS Enterprise	Link and synchronise feature services with your Esri ArcGIS Online / ArcGIS Enterprise account directly from Zeno Mobile One. Import and publish ArcGIS web maps
Cloud connectivity	Import and export projects and data directly from cloud storage platforms
File format support	SHP, KML, ASCII, GML, DWG, DXF
Attachment format support	Images, Video, PDF.

DD and DA accessories

Trace rods
Used with the DD locators and DA signal transmitter to trace the route of non metallic drains, ducts or pipes. Available in 50 metre or 80 metre lengths.

Article no.	Description
850278	Trace Rod 50M
850279	Trace Rod 80M



Transmitter clamps
Used with the DA signal transmitter to apply a trace signal to utilities such as telecom cables, power cables and pipes.

Article no.	Description
850280	Transmitter clamp 100 mm (4"), Compatible with 33 kHz signal transmitters (single frequency)
850281	Transmitter clamp 80 mm (3.15"), Compatible with 256 Hz to 200 kHz signal transmitters (multi frequency)



Property plug connector
Used with the DA signal transmitter to apply a trace signal to residential electrical supplies.

Article no.	Description
850282	Property plug connector – UK
850283	Property plug connector – EU
850284	Property plug connector – US
850285	Property plug connector – CH
850286	Property plug connector – AUS



Sondes
Used to trace the route of drains, sewers, plastic pipes and ducts. Available in many sizes to cover a wide range of applications.

Article no.	Description
850288	Mini sonde 33, 18 mm (0.7") diameter with a 33 kHz output. Working range 7 m (23ft)
850289	Midi sonde 8/33, 38 mm (1.5") diameter with an 8 kHz or 33 kHz output. Working Range 5 m (16.4ft)
856131	Duct sonde 33, 24 mm (0.95") diameter with a 33 kHz output. Working Range 5 m (16.4 ft)
850291	Clamp sonde 33, 40 mm (1.57") diameter with a 33 kHz output. Clamp sonde clamps onto a 12 mm (0.74 inch) flexible rod. Working range 5 m (16.4 ft)



Carry bags
Fabric carry bag for the DD locator range.

Article no.	Description
850276	Locator system carry bag for the DD locators, DA signal transmitters and accessories



Batteries, chargers and cables

Article no.	Description
845900	Leica DD SMART, DA Li-Ion battery
790417	A100 – Li-Ion charger
797750	A140 – car adapter cable
850287	Transmitter cable extension



Ground penetrating radars for utility detection (GPR)

Leica DSX utility detection solution

Quickly and easily avoid, locate and map underground utilities with the new Leica DSX ground penetrating radar (GPR) solution. Unlike other GPR solutions, users do not require full expertise in interpreting raw radar data. The DSX uses a smart algorithm in DXplore software to accurately field generate 3D utility maps on the tablet within minutes. No more waiting days for post processing! Optional integration of GPS/GNSS for mapping, with easily exported data in PDF and DXF formats. Additional integration with Leica MC1 machine control software aids excavating contractors in avoiding utility strikes using real time avoidance signals aboard excavators.

Perfect for teams that need clear, on-site utility maps quickly — and an easy hand-off to CAD/GIS or machine control.



Article no. 880935



Technical data

DSX utility detection system	
Central Frequency (GPR)	600 MHz
Detection mode	Grid method
Detection utilities	Water, gas, power/electric, telecom, fibreoptic, sewage, drainage
Detection depth	Up to 2 m (6.56 ft)
Acquisition speed	Up to 7 km/h (4.3 mph)
Scan interval	0.50 m (18 in)
Positioning	2 encoders on wheels; GNSS antenna integration (Surveyor kit only)
Environmental	IP65
Weight	23 kg (without battery and tablet)
Battery	Li-Ion 14.8 V / 5800 mAh; up to 8 hours operating time
Operating temperature	-10 °C to +40 °C (14 °F to 104 °F)
Warranty	2 years (extension CCPs available)

Starter Kit	Surveyor Kit
Starter Kit DSX DXplore Perpetual • DSX Utility Detection System • CT1000 Controller • DXplore Build (Perpetual) • 2yr DSX Basic CCP • 2yr DXplore Build CCP **Article no. 6015139**	**Surveyor Kit DSX DXplore Perpetual** • DSX Utility Detection System • CT1000 Controller • PS1000 pole support • DXplore Build (Perpetual) • DXplore Survey (Perpetual) • 2yr DSX Basic CCP • 2yr DXplore CCP (Build + Survey) **Article no. 6015141**
Starter Kit DSX DXplore Subscription • DSX Utility Detection System • CT1000 Controller • DXplore Build (one-year subscription) • 2yr DSX Basic CCP **Article no. 6015140**	**Surveyor Kit DSX DXplore Subscription** • DSX Utility Detection System • CT1000 Controller • PS1000 pole support • DXplore Build and Survey (one-year subscription) • 2yr DSX Basic CCP **Article no. 6015142**

DXplore software

Locate, visualise, and map with ease through intuitive software

DXplore, the robust, efficient, and user-friendly software at the heart of the Leica DSX solution, sets a new standard in surveying, offering real-time, onsite processing and visualisation of data on the CT1000 Tablet. Makes detection workflow easy and understandable, requiring no expert knowledge.

- Execute grid scans and quick scans effortlessly while adding POIs or background layers.
- Onsite guided data acquisition, advanced processing, and instant 2D/3D utility map creation.
- Instantly visualise all types of underground utilities onsite.
- Allows swift data export, storage, access, and sharing.



DXplore Build

Perpetual
Article no. 880850

One-year subscription
Article no. 5309894

One week rental license
Article no. 881125

DXplore Survey

Perpetual
Article no. 881123

One-year subscription
Article no. 5309895

One week rental license
Article no. 881126

DXplore		Build	Survey
Setup	Animation tutorials	✓	✓
	Status check (connection, battery level, etc.)	-	✓
	Project and draft management	-	✓
	GNSS and TPS connection wizard	-	-
	GNSS/TPS aided project and grid definition workflow	-	-
Acquisition	Grid Scan and Quick Scan mode	✓	✓
	DSX cart precise alignment mode	✓	✓
	Radar sensor control (scan and pause, etc.)		✓
Positioning	Location from wheel encoders	✓	✓
	Google Maps and current location support	✓	✓
	Local coordinate system support	-	✓
	GNSS antenna and TPS support	-	✓
	Accuracy check in all screens	-	✓
	Geoid corrections	-	✓
Process & Analysis	On-site radar tomography generation	✓	✓
	B-scan review and marking	✓	✓
	3D tomography	✓	✓
	POI support and Utility marking	✓	✓
	Semi-automatic utility verification	-	✓
	Georeferencing with positioning data	-	-
View	Animation on tomography slices	✓	✓
	2/3D view	✓	✓
	Horizontal/vertical scans	✓	✓
	Contrast slider	✓	✓
	Back to utility	-	✓
	Lead to utility viewer	-	-
Import	Utility records in DXF, DWG and ESRI shape file	-	✓
	Multiple layer support	-	✓
Export	Customised Report in PDF format	✓	✓
	Detected utilities in DXF format	✓	✓
	Tomography in png, jpg, tiff, bmp, and gif format	✓	✓
	3D DXF/DWG	✓	✓
	Output in selected local coordinate systems	-	✓
	MC1 (.lok supported)	-	✓
	WGS84 ellipsoid, reference ellipsoid, orthometric height	-	✓

Leica DS4000 utility detection radar

By integrating the patented Equalised scrambling Technology (EsT), DS4000 can identify underground assets up to 60% deeper than traditional systems, revealing all potential threats and difficultly seen underground objects such as fibre optic cables.

The DS4000 integrates with uMap for real-time field detection and IQMaps for advanced 3D processing, interpretation and CAD/GIS deliverables.

- See more, reach deeper: EsT patented technology extends your detection range
- Dual-frequency 200/900 MHz antenna for shallow and deep targets
- IQMaps software for 3D analysis and CAD export
- uMap, on-field software, allows real time on-site marking and digitalization of detected anomalies
- Hot swap technology for power supply (up to 8 hours operating time) enables uninterrupted data acquisition
- Easy switch polarization of the antenna (HH and VV) to ensure an optimal performance
- “Quick scan mode” makes field operations easy, saving time and reducing costs
- Streamline your workflow by creating and finalizing reports directly on-site

Perfect for survey, utility, engineering and construction teams who need deep, high-resolution GPR data to map complex underground environments, detect difficult-to-see utilities (including fibre optics and plastics), avoid strikes, and deliver precise, georeferenced subsurface documentation



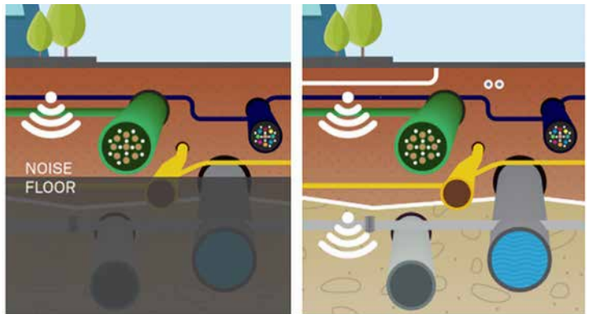
IQMaps

uMap



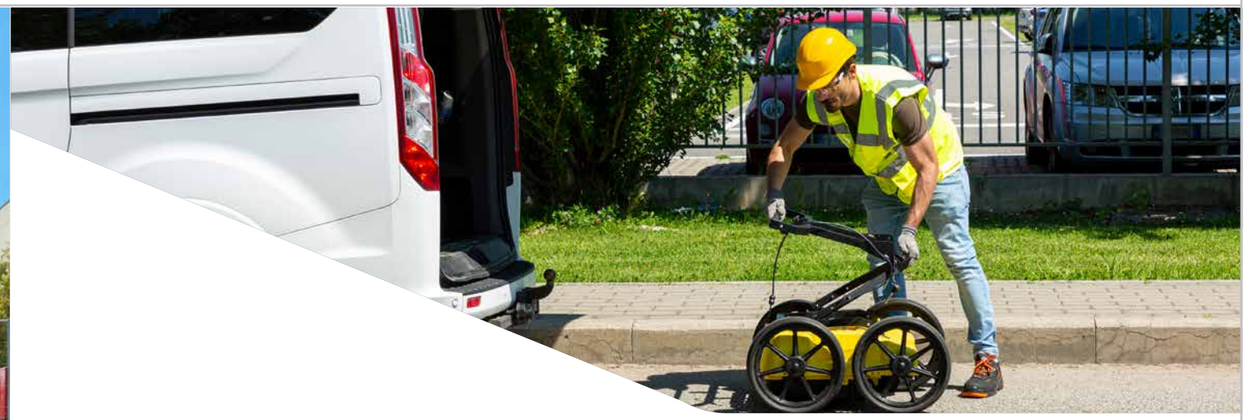
Article no. 1023281

Current technology **EsT technology**



EsT – Equalized Scrambled Technology: a premium technology made accessible

DS4000, powered by patented EsT technology, delivers an unparalleled detecting performance providing the best data quality and boosting penetration depth by 40% to 60% compared to traditional devices.
With crystal-clear results across an extended depth range and the highest resolution available through the use of a single device, Leica DS4000 ensures an accurate detection of underground utilities, maximizing pipe network detection for peace of mind.



Detection and underground mapping solution

Combined with the powerful and rugged Leica CT1000 field tablet, the GG04 plus or the GPS60 smart antenna, and the DD100 cable locators and transmitters, the DS4000 is part of the up-to-date Leica Geosystems detection and underground mapping portfolio to boost your on-field business making it faster and more efficient.

With the combined use of IQMaps post-processing software, you will be able to perform advanced data analysis and convert radar data to CAD file.

Technical data

	Leica DS4000
Number of channels	2
Central frequencies	Dual 200 MHz and 900 MHz
Inspection range	80 MHz–1500 MHz
Technology	EsT – Equalized scrambled Technology (Patented Technology)
Dimension (folded for transport)	750 × 625 × 420 mm (30 × 25 × 17 in)
Dimension (in use)	750 × 625 × 1000 mm (30 × 25 × 40 in)
Weight	20 kg (44 lbs)
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F) IEC 60068 2-1/2
Vibration	Compliant with IEC 60068-2-64:2012
Shock	Compliant with IEC 60068-2-31:2011
Certification	CE, UKCA, FCC, IC
Polarization	Configuration: HH and VV
Positioning	Encoder, external GPS/GNSS and Total Station
Power consumption	Acquisition: 16 W Stand-by: 12 W
Operating time	4 h with #1 battery 8 h with #2 battery Operating time can be extended by hot swap capability
Wheels	4 × Ø310 mm (default) (4 × Ø12 in (default)) 4 × Ø380 mm (optional) (4 × Ø15 in (optional))
Environmental	IP65

Designed to perform

- Lightweight (20 kg | 44 lb), modular and compact design for effortless data collection
- Foldable handlebar for easy deployment and storage of the system.
- The height-adjustable antenna mounting system easily overcomes obstacles.
- External positioning support for mounting GPS/GNSS or Total Station
- IP65 protection for harsh field conditions
- Off-road wheels designed for reliable performance on challenging terrains
- Hard shipping box for safe transportation



Concrete scanner C-Thrue

See through concrete structures and reveal true data



Article no. 868510

The Leica C-Thrue is an all-in-one Ground Penetrating Radar (GPR) solution designed to make concrete inspection faster, safer and more reliable. It gives construction professionals and engineers the confidence to cut, drill or core by clearly revealing what lies beneath the surface before work begins.

C-Thrue supports a modern, flexible workflow, with real-time data visualisation. This flexibility allows comfortable operation in tight spaces, on walls or overhead, while results are instantly visible and easy to interpret directly on site.

By combining advanced radar technology with intuitive software, C-Thrue reduces inspection time, eliminates guesswork and supports accurate documentation. The result is a solution that not only detects embedded objects, but also improves decision-making, safety and productivity throughout the project lifecycle.

- **Clearer and faster surveys in one scan:** Real-time detection of both first and second levels of rebars thanks to the dual polarised antenna (HH+VV)
- **Safely drill in the surveyed structure:** Accurately locate rebars, ducts, cable, metallic and non-metallic objects for your safety before cutting or drilling into the concrete
- **Easy to operate and simplified data interpretation:** View real-time results directly on the device's multi-touch display with our user-friendly integrated software and improve your decision-making
- **Maximum data accuracy:** Enjoy an accurate full target detection and eliminate manual, error-prone paper grids with an automatic positioning and navigation system
- **Advanced data visualisation and automated data acquisition and analysis:** Augmented reality for 3D data visualisation and sharing across operators. Automatic detection of the first layer of rebars and result exportation.

Technical data

	C-Thrue
Antenna centre frequency	2.0 GHz
Antenna polarisation	Horizontal and vertical
Number of antennas	4
Number of radar channels	2 (dual-polarised antennas)
Scan interval	Up to 10 scans/cm
Depth range	Up to 80 cm (up to 31.5 in)
Positioning system	"Virtual Pad" (based on 3 High safety – Class 1 laser sensors with reflective bars) Paper Pad
AC Power conduits detection	EM sensor integrated (50/60 Hz)
Connectivity	USB, Wi-Fi
Environmental rating and IP65	MIL-STD-810G compliant
Dimensions (length × width × height)	285 mm × 200 mm × 160 mm (11.2 in × 8.6 in × 6.3 in)
Weight	2.4 kg (5 lb) with battery
Display	7" TFT multi-touch
Data storage	32 GB
Battery	Li-Ion, 15 V, 3.2 Ah, 3-hour runtime

Accessories specifications

	C-Thrue
C-Thrue external controller	Real time remote control, Data processing and representation of results in Augmented reality
C-Thrue pole	• Telescopic aluminium pole • 1.8 m (6 ft) • Remote control buttons



C-Thrue XS

The compact hand-sized GPR with dual polarization to never miss a detail in one scan



Article no. 1002690

The C-Thrue XS brings professional concrete inspection into a compact, hand-sized GPR solution. Designed for construction professionals and engineers, it enables fast, accurate detection of rebars, ducts, cables, post-tension cables and other embedded objects, especially in areas that are difficult to access.

As the smallest and lightest antenna in the C-Thrue product family, C-Thrue XS delivers high-quality, real-time results while reducing user fatigue. Its dual-polarised technology allows users to capture both shallow and deeper targets in a single scan, increasing productivity and confidence directly on site.

C-thrue XS supports a flexible inspection workflow, with real-time data visualisation on a tablet via an external controller or through integrated use with the C-thrue system. This flexibility makes it ideal for walls, ceilings, corners and congested jobsite environments where larger scanners are impractical.

- **Improved ergonomics boosting usability.** Designed for a maximum user experience, the compact size of C-thrue XS offers superior usability and reduced fatigue in long-term use with easy reach to inaccessible areas
- **Superior versatility across different environments.** Besides offering a top level performance across different concrete inspection scenarios, C-Thrue XS maximises its reach in challenging locations with a compact and light telescopic pole and an external controller.
- **Clearer and faster surveys in one scan.** Real-time detection of both first and second levels of rebars thanks to the system's dual polarization (HH+VV)
- **Maximised detection for unmatched productivity.** Enjoy an accurate full target detection to increase confidence in data interpretation with reliable real-time results and save time for data collection.
- **Safely drill in the surveyed structure.** Accurately locate rebars, ducts, cable, metallic and non-metallic objects for your safety before cutting or drilling into the concrete.

Technical data

	C-Thrue
Sensor frequency	2.0 GHz
Number of antennas	4
Antenna polarisation	Horizontal and vertical
Number of radar channels	2
Scan interval	Up to 14 scans/cm
Depth range	Up to 100 cm (up to 39.4 in)
Display modes	B-scan and C-scan (radar tomography)
Positioning system	Integrated wheel encoder
Connectivity	Ethernet to PC or C-Thrue
Power	USB 3.0 or C-Thrue





IQMaps

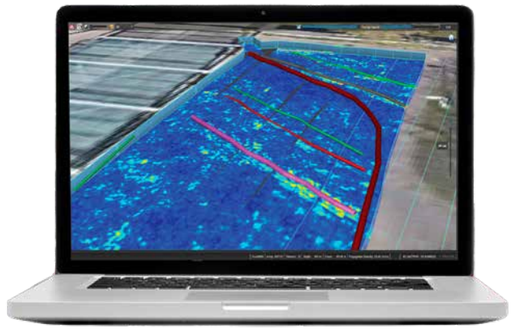
The new frontier in GPR data analysis

IQMaps is the post-processing software application for advanced GPR data analysis, which provides a fast interfacing between the user and the GPR data.
IQMaps allows users to easily process, analyse and inspect data from dense array radar systems, providing a step-by-step approach to guide the user in performing the best and quickest data analysis with the help of a customisable processing and analysis tool. IQMaps supports skilled and less-skilled users, for:

- Utility mapping of large-size projects
- Archaeological surveys
- Environmental surveys

IQMaps also allows data collected by different systems to be gathered in one project, making acquisition and analysis easier, faster and more complete.

IQMaps is available for: Stream UP, Stream DP, Opera XR, Chaser XR, Leica DS4000, Leica DSX



IQMaps main features

- Ease of use and productivity dramatically increased (up to 20,000 sqm in one working day)
- Real-time processing and 3D immersive visualisation
- Responsive and intuitive interface managing large amounts of data
- Integration of data collected by different devices in one project
- Availability of A-scan data view for more complete and advanced investigation
- 3D view, high responsiveness, and tailored user interface provide an immersive analysis of underground data.
- Smart target management enables easy extraction of underground features and increased productivity.

IQMaps benefits

- Immersive reality during the post-processing phase
- No limits in software use, even for large-area acquisitions
- Data processing from all Stream family solutions
- Export, store, share, and access data through major cloud service providers

NDT Reveal

The professional CAD-based GPR software for construction and building inspections

NDT Reveal is the professional desktop GPR software for post-processing and analysis of data collected by C-Thrue and C-Thrue XS concrete inspection devices. NDT Reveal allows you to successfully organise and share your GPR data whilst streamlining your workflow in data processing and analysis. Enjoy accurate and comprehensive overviews on GPR data with easy integration of on-field inspection activities into the big picture of Building and Construction projects.

NDT Reveal is a CAD based software with an easy-to-use and intuitive interface. Import standard industry CAD files in 2D and 3D formats (e.g. DXF, DWG), along with raster format files (e.g. JPG, PNG) into the NDT Reveal platform and seamlessly combine them with GPR data collected from your site to accurately display rebar, post tension cables, voids and safe drill areas with exacting accuracy and confidence.

NDT Reveal allows the smooth management of your many and different projects: setup, organise and monitor on-going activities in multiple worksites. With NDT Reveal, GPR surveys and on-site collected data can be located directly on the 2D or 3D CAD drawing. Easily export target area details into 3D CAD format files: visualise clearly rebars, conduits and drill holes positioning.



NDT Reveal main features

- Locate GPR jobsite surveys on the CAD drawing
- Display 2D and 3D GPR data and insert features (e.g. rebars, post tension cable voids and drill areas)
- Produce digital exports: DXF and DWG format
- Job site reports with 2D and 3D GPR data of detected items, photos, sketches and CSV tables.

NDT Reveal benefits

- Accurate overview on your building and construction projects
- Integrated visualisation of data, photos, sketches
- Easy-to-create and complete jobsite reports

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With more than 200 years of history, Leica Geosystems, part of Hexagon, is the trusted supplier of premium sensors, software, and services. Delivering value every day to professionals in surveying, construction, infrastructure, mining, mapping, and other geospatial content-dependent industries, Leica Geosystems leads the industry with innovative solutions to empower our autonomous future.

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