C.R.Kennedy
BUILDING CONSTRUCTION

SHAPING THE FUTURE OF BUILDING CONSTRUCTION WITH LEICA GEOSYSTEMS

Leica
GEOSYSTEMS

C.R.Kennedy FINANCE

C.R. Kennedy Finance was established to provide our valued clients and customers with an end-to-end service.

You can be confident that our team will work to understand your business needs, challenges, and future plans. With this knowledge we will partner with you to find the right payment solution for your business; guiding you through the application process, delivering fast approvals and a competitive payment plan.

DID YOU KNOW?

87.4%

of buyers say financing equipment has helped them grow

The benefits of C.R. Kennedy Finance include:

- Easy application process: we will guide you through a streamlined application process which is guaranteed to save you time.
- Fast approvals within 24 hours*: means that you can purchase the right equipment for your business and increase productivity sooner.
- Low Doc solutions: a simplified process which requires less financial documentation to prove income, assets and liabilities than standard finance options.
- Latest equipment and technology: financing the latest equipment and technology today will ensure you maintain a competitive advantage.
- Preserve cash flow: keep capital in your business and improve cash flow, providing you with greater financial security and the flexibility needed to invest and grow.
- Fixed repayments: fixed monthly payments for the term of the contract provides greater clarity over expenses, making it easier to budget.
- Tax advantages: in the majority of cases repayments can be 100% tax deductable^.

Do you have finance questions? Do not hesitate to contact one of our friendly team members, Monday to Friday 8.30am to 5.00pm (AEST) on 1300 510 812.

* Fast approval provides you with a pre-approval within 24 hours and a formal approval within 48 hours. This timing is dependent on a number of different factors, and the timing does not take into account weekends or public holidays.

^ C.R. Kennedy Finance are not financial advisers. It is recommended that you seek independent legal, financial, taxation or other advice to confirm if your business qualifies.

C.R. Kennedy National Fleet Hire

We carry a comprehensive range of hire equipment to cover nearly all construction measurement applications

These include:

- Total stations
- Theodolites
- GPS/GNSS
- Machine control
- Optical and laser levels
- Pipe lasers
- Cable locators
- Accessories such as staves, tripods, prisms, etc.

What does this mean to you?

- The fleet consists of the world's most advanced equipment, kept in excellent condition
- We supply basic training for rapid productivity
- Allows you to evaluate on the job without purchase commitment
- Gives you the equipment you need for the one-off job
- Allows you to take on jobs you otherwise couldn't handle

After Sales Service

Get your equipment serviced by one of our factory trained technicians

We have service centres at all of our offices. With technicians who have been factory trained, workshops that are accredited by Leica Geosystems, and use of only genuine components, CR Kennedy can offer you the best service for your instrument. We offer replacement instruments from our hire fleet during a servicing to minimise down time.

We service and repair all the equipment we sell, including:

- Total stations
- Theodolites
- GPS/GNSS equipment
- Laser levels
- Optical levels
- Tribrachs
- Tripods

And much more!

BOOK YOUR SERVICE ONLINE

Service & Support

Strongest warranty and calibration certification offering

Leica CalMaster

Professional calibration for maximum precision

Construction sites are harsh environments and put incredible strain on lasers. In the majority of construction projects, lasers face so many impacts that their accuracy can no longer be guaranteed. This can cause inaccuracy and thus, application mistakes may occur. As an example, a wrong reference height during concrete pouring can lead to structural and security issues. Such mistakes can be costly and result in reputation loss for the contractor. To ensure accurate and consistent performance, laser owners should carry out periodic calibration and maintenance of their equipment.

Reliable calibration – reliable performance

- Have all your rotating, grade, pipe, line and point lasers professionally checked, calibrated and certified at your local Leica Geosystems distribution partner
- Avoid costly mistakes by having your lasers periodically checked and calibrated
- Work with peace of mind knowing that your lasers are calibrated to the highest accuracy standards
- As the industry's only calibration system issuing ISO certifications, you can trust that your rotating laser will perform with complete accuracy

PROTECT by Leica Geosystems

Lifetime Manufacturer's Warranty:

Our lifetime warranty guarantees the quality and reliability of our products. However, should a device fail because of defects in material or workmanship, we will repair or replace it free of charge.

No Cost Period:

Leica Geosystems' products fulfil the highest quality requirements to support you efficiently in your everyday work on site. Should your product become defective, we will repair or replace it at no charge, simply and straightforwardly.

In the event of a repair being necessary, you benefit from the following services:

- Repair or replacement of all defective parts
- Calibration and check of settings
- Comprehensive functional test and safety check
- Servicing and cleaning of the device

PROTECT is subject to Leica Geosystems International Limited Warranty and PROTECT General Terms & Conditions set out under www.leica-geosystems.com/protect.

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Shaping the Future of Building Construction with Leica Geosystems

Shaping the Future of Construction

Industries across the spectrum, from utilities to transportation, are evolving to keep up with the pace of change driven by digital innovation. While some are being forced to change, others see the opportunity of embracing new technology to deliver efficiencies, cost savings or a better service.

Digitalising your construction process should be simple. With building construction solutions from Leica Geosystems, we are helping the construction industry solve complex challenges with accurate easy-to-use instruments, and intuitive software so you can confidently move from manual analogue practices to modern digital technology and significantly lower your operational costs without disrupting your current workflow.

Smart reality capture and digital layout solutions help you bridge the gap between traditional methods such as plumb bobs and tape to digital construction workflows saving time, eliminating rework, gaining productivity and enabling you to reap long-term rewards.

GEOSYSTEMS

3D As-Builts

3D As-Builts with Leica Reality Capture Solutions reduces rework by starting renovation projects with the most accurate and complete information, thereby avoiding the invisible problems that often become evident during construction, when they are expensive and time consuming to address. Leica Geosystems products range from single digital measurements to millions at a time.

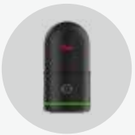
Reality Capture

Virtual Building Modeled in Point Cloud

Measurement Types

Single Point

Multiple Points



Many Points

The Shift to Digital Construction

With construction demand at an all-time high, maximising productivity is imperative for today's contractors. Leica Geosystems has designed cutting-edge hardware solutions to gather and process data quickly so you can make informed decisions and keep your site moving efficiently. However, achieving this goal is a challenge. It's not uncommon for projects to incur cost overruns and delays and run months behind schedule. Fortunately, this can be mitigated by using solutions that close the gap between the digital world and the real world.

From the stunning RTC360 Reality Capture Scanner, the efficient BLK360 Laser Imager, the robust ICON Digital Layout platform, the first-of-a-kind BLK3D for 3D measurement , or the industry standard Leica Disto, there is a Lecia solution to empower everyone to plan and execute projects with higher quality.

Adopting Digital Construction helps reduce rework by providing accurate information with every step of the way. This insight is the key to keeping projects on time and on budget.

Whether you are taking a single scan to validate the work of a subcontractor or conducting a detailed as-built survey for planning, coordination and verification, our industry-leading software solutions make it simple to create digital reality deliverables.

From the robust high-range P-Series scanners to the Leica BLK360 and the all-new RTC360 Reality Capture Solution, we aim to empower everyone to plan and execute projects with higher quality.

Construction Layout

Robotic construction layout of the building structure, walls, and mechanical, electrical and plumbing systems reduces rework by using digitally coordinated data from the office directly in the field. Layout with a Digital Construction and robotic process improves productivity two to five times over traditional methods and is much more accurate than traditional manual techniques. Digital layout solution sets range from starting with paper drawings to working with CAD drawings or 3D models.

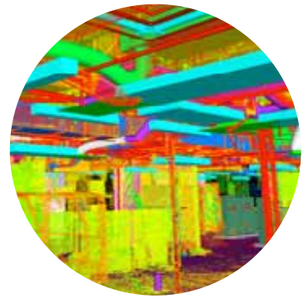
Virtual Building with Construction Layout Points

Robotic Total Station Layout

Construction Validation

Rework can account for 12 to 15 percent of the cost of construction. With accurate progressive reality capture, the ability to catch conflicts before they happen can reduce rework to 1 to 3 percent or less. Laser scanning during construction quickly captures individual or multiple measurements for comparison with models to find future clashes so they can be resolved digitally before they become job- halting, schedule busting change orders in the field. As-builts during construction can be utilized for milestone records, large scale or small scale issue detection, slab flatness analysis and final as-built deliverables.

Reality Capture During Construction



As-Built Point Cloud & Virtual Building Model

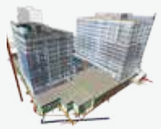
Building Layout Data

All 2D Process

3D to 2D Process

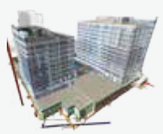
All 3D Process

CAD layout points

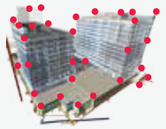


Model

CAD layout points



Model



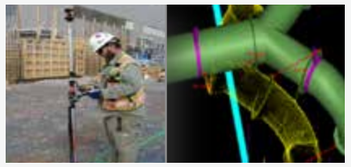
Model layout points

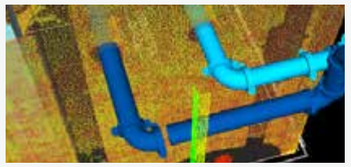
Measurement Types

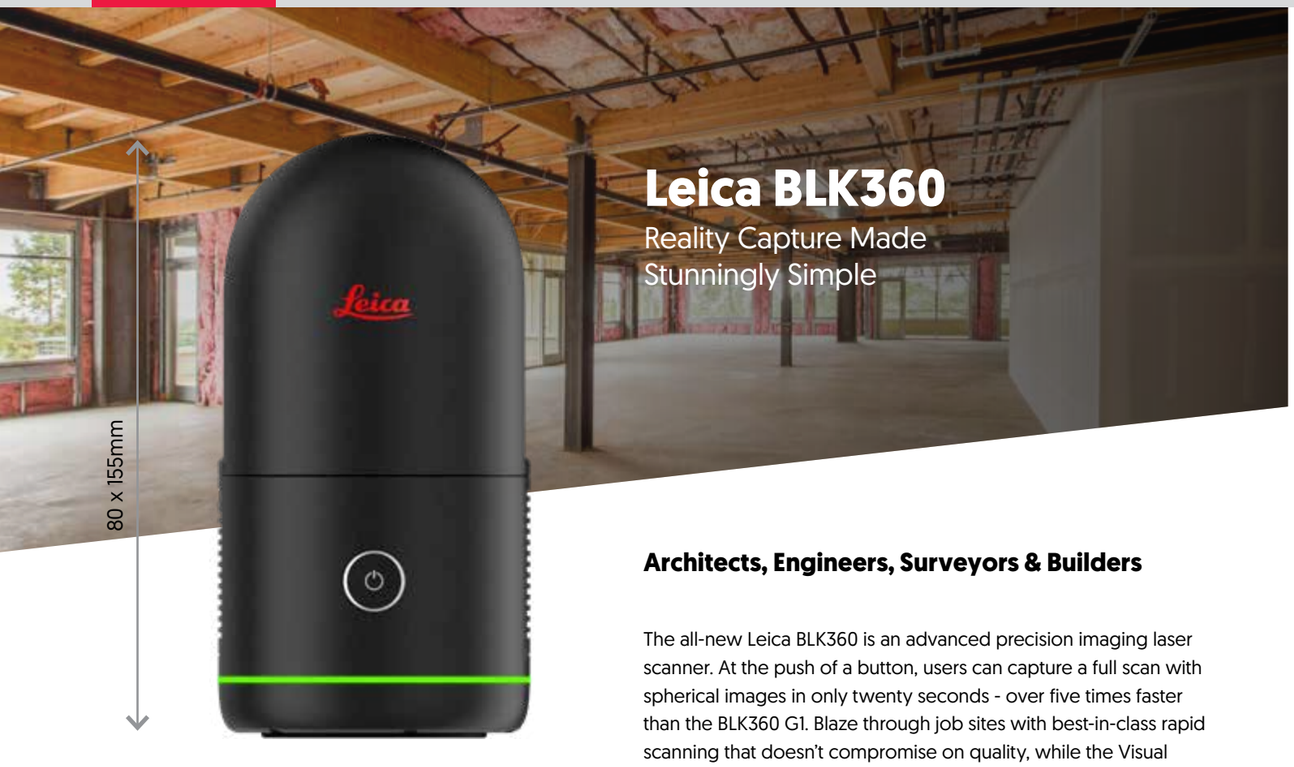
Single Point

Multiple Points

Many Points







Leica BLK360

Reality Capture Made
Stunningly Simple

Architects, Engineers, Surveyors & Builders

The all-new Leica BLK360 is an advanced precision imaging laser scanner. At the push of a button, users can capture a full scan with spherical images in only twenty seconds - over five times faster than the BLK360 G1. Blaze through job sites with best-in-class rapid scanning that doesn't compromise on quality, while the Visual Inertial System (VIS) Technology automatically combines your scans on-site to speed up your workflow and help you make sure your datasets are complete. The BLK360 enables users to work faster and smarter while getting the data they need immediately.

BLK360 data is valuable for many uses, from traditional AEC to mind-bending VFX and VR, and users can easily transfer and work with it in your software ecosystem to create immersive and highly accurate deliverables and experiences.

Key Features

- Four scan settings capture data in 7, 13, 30, or 75 seconds at 680,000 points per second
- Rich High-Dynamic Range (HDR) imagery with 5 bracket HDR
- Small and light, measuring 155x80mm and weighing just 850g with batteries
- Five times faster than the BLK360 G1, taking 20 seconds for a full-dome scan with photospheres
- Visual Inertial System (VIS) automatically pre-registers scans in the field
- High-speed data transfer via USB-C and Wi-Fi

BLK360 PRODUCT SPECIFICATIONS	
GENERAL	
Imaging scanner	3D scanner with integrated spherical imaging system and thermography panorama sensor system
DESIGN & PHYSICAL	
Housing	Black anodized aluminium
Dimensions	Height: 155 mm / Diameter: 80 mm
Weight	0.75 kg (0.85 kg incl. battery)
Transport cover	GVP739 transportation cover
Mounting mechanism	Button-press quick release
OPERATION	
Stand-alone operation	One-button operation
Mobile devices	BLK Live app for iOS and Android smartphones Leica Cyclone FIELD 360 app for iOS and Android tablet computers and smartphones
Wireless communication	Integrated wireless LAN (802.11 b/g/n)
Internal memory	Storage for up to 1500 setups
Instrument orientation	Upright and upside down
POWER	
Battery type	Internal, rechargeable Li-Ion battery (Leica GEB825)
Capacity	Up to 70 setups per battery
SCANNING	
Distance measurement system	High speed time of flight enhanced by Waveform Digitizing (WFD) technology
Laser class	1 (in accordance with IEC 60825-1:2014)
Wavelength	830 nm
Field of view	360° (horizontal) / 270° (vertical)
Range*	Minimum 0.5 m - up to 45 m
Point measurement rate	Up to 680,000 pts/sec
Measurement modes	4 user selectable resolution settings (6/12/25/50 mm @ 10 m)
IMAGING	
Camera System	13 Mpixel 4-camera system captures 104 Mpx raw data for calibrated 360° x 270° spherical image
Speed	< 8 sec. for full spherical LDR image in any light conditions < 20 sec. for full spherical 5-brackets HDR image in any light conditions
Imaging Modes	• Auto-exposed LDR • 5-brackets HDR • Off - scanning only
PERFORMANCE	
Data acquisition	< 20 sec. for complete full dome scan and spherical LDR image at 50 mm @ 10 m resolution with automatic tilt measurements
3D point accuracy*	4 mm @ 10 m
Real-time pre-registration	Automatic point cloud alignment based on real-time tracking of scanner movement between setups based on Visual Inertial System (VIS) by video-enhanced inertial measurement unit
ENVIRONMENTAL	
Robustness	Designed for indoor and outdoor use
Operating temperature	0° C to + 40° C
Dust/Humidity	Solid particle/liquid ingress protection IP54 (IEC 60529)
DATA PROCESSING	
Data transfer	Wireless and USB 3.0
Desktop software	Leica Cyclone REGISTER 360 and Cyclone REGISTER 360 (BLK Edition)
Cloud software	HxDR Digital Reality: cloud-based digital reality platform

Leica GEOSYSTEMS

Get the bundle that makes capturing reality as easy as clicking a button

BLK360 Imaging Laser Scanner

- Smallest and lightest laser scanning system in the world
- Weight: 0.85kg, Size: 80mm x 155mm
- Under 3 minutes for a full 360° reality capture
- 3-D image point cloud available in real time
- Selectable resolution settings
- Calibrated full spherical image, HDR, LED flash support

Leica Cyclone REGISTER 360

Cyclone REGISTER 360 empowers users of any skill-level to work smarter, deliver results more accurately, visualise in more detail and collaborate more effectively - placing the user at the centre of their projects.

Leica Cyclone FIELD 360

As part of the Leica Geosystems 3D Reality Capture Solution, the Leica Cyclone FIELD 360 mobile-device app links the 3D data acquisition directly in the field with the RTC360 laser scanner, ScanStation P30/P40 and P50 survey-grade laser scanners, or BLK360 imaging laser scanner and the final data registration with Leica Cyclone REGISTER 360 post-processing office software.

* At 78% albedo
All specifications are subject to change without notice.
All accuracy specifications are one sigma unless otherwise noted.

Leica RTC360 3D Reality Capture Solution

FAST. AGILE. PRECISE.

Fast

The Leica RTC360 laser scanner makes 3D reality capture faster than ever before. With a measuring rate of up to 2 million points per second and advanced HDR imaging system, the creation of coloured 3D point clouds can be completed in under 2 minutes. Plus, automated targetless field registration (based on VIS technology) and the seamless, automated transfer of data from site to office reduce time spent in the field and further maximise productivity.

Agile

Small and lightweight, the Leica RTC360 scanner's portable design and collapsible tripod mean it's compact enough to fit into most backpacks, ready to be taken anywhere. Once on-site, easy-to-use, one-button operation makes for fast, hassle-free scanning.

Precise

Low noise data allows for better images, resulting in crisp, high-quality scans that are rich in detail and ready for use in a range of applications. Combined with Cyclone FIELD 360 software for automated registration in the field, the Leica RTC360 scanner offers outstanding precision that can be checked on-site.

The Leica RTC360 3D reality capture solution empowers users to document and capture their environments in 3D, improving efficiency and productivity in the field and in the office through fast, simple-to-use, accurate, and portable hardware and software. The RTC360 3D laser scanner is the solution for professionals to manage project complexities with accurate and reliable 3D representations and discover the possibilities of any site.

Key Features

- Highly portable, highly automated, intuitive and designed for maximum productivity, the RTC360 solution efficiently combines the RTC360 a high-performance 3D laser scanner, Leica Cyclone FIELD 360 mobile-device app for edge computing for automatically registering scans in real time, and Leica Cyclone REGISTER 360 office software to integrate your 3D model seamlessly into your workflow.
- Capture scans, including enriching High-Dynamic Range (HDR) imagery, in less than two minutes.
- Automatically record your moves from station to station to pre-register your scans in the field without manual intervention.
- Augment your data capture with information tags illustrating the opportunities for better planning, reflect site reality, and boost your teams' situational awareness.

Pre-registraton in the field

As part of the RTC360 solution, the Cyclone FIELD 360 app links the 3D data acquisition in the field with the laser scanner and data registration in the office with Cyclone REGISTER 360. On-site the user can automatically capture, register and examine scan and image data. The user interface combines easy handling of complex calculations with a graphical user guidance that offers a remarkable user experience, also for novice users.

RTC360 PRODUCT SPECIFICATIONS	
GENERAL	
3D Laser Scanner	High-speed 3D laser scanner with integrated HDR spherical imaging system and Visual Inertial System (VIS) for real time registration
PERFORMANCE	
Data acquisition	< 2 min for complete full dome scan and spherical HDR image at 6mm @ 10m resolution
Real time registration	Automatic point cloud alignment based on real time tracking of scanner movement between setups based on Visual Inertial System (VIS) by video enhanced inertial measurement unit
Double scan	Automatic removal of moving objects
SCANNING	
Distance measurement	High-speed, high dynamic time of flight enhanced by Waveform Digitizing (WFD) technology
Laser Class	1 (in accordance with IEC 60825-1:2014), 1550nm (invisible)
Field of view	360° (horizontal) / 300° (vertical)
Range	Min. 0.5 - up to 130 m
Speed	Up to 2'000'000 pts / sec
Resolution	3 user selectable settings (3/6/12mm @ 10m)
Accuracy*	Angular accuracy 18" Range accuracy 1.0 mm + 10 ppm 3D point accuracy 1.9 mm @ 10 m 2.9 mm @ 20 m 5.3 mm @ 40 m
Range noise* **	0.4 mm @ 10 m, 0.5 mm @ 20 m
IMAGING	
Camera	36 MP 3-camera system captures 432 MPx raw data for calibrated 360° x 300° spherical image
Speed	1 minute for full spherical HDR image at any light condition
HDR	Automatic, 5 brackets
NAVIGATION SENSORS	
Visual Inertial System	Video enhanced inertial measuring system to track movement of the scanner position relative to the previous setup in real time
Tilt	IMU based, Accuracy: 3' for any tilt
Additional sensors	Altimeter, Compass, GNSS
OPERATION	
On scanner	Touch-screen control with finger touch, full colour WVGA graphic display 480 x 800 pixels
Mobile devices	Leica Cyclone FIELD 360 app for iPad or Android tablets including: - Remote control of scan functions - 2D & 3D data viewing - Tagging - Automatic alignment of scans
Wireless	Integrated wireless LAN (802.11 b/g/n)
Data storage	Leica MS256, 256GB exchangeable USB 3.0 flash drive

DESIGN & PHYSICAL	
Housing	Aluminium frame and sidecovers
Dimensions	120mm x 240mm x 230mm / 4.7" x 9.4" x 9.1"
Weight	5.35kg / 11.7 lbs, nominal (w/o batteries)
Mounting mechanism	Quick mounting on 5/8" stub on lightweight tripod / optional tribrach adapter / survey tribrach adapter available
POWER	
Internal battery	High-speed, high dynamic time of flight enhanced by Waveform Digitizing (WFD) technology
External	1 (in accordance with IEC 60825-1:2014), 1550nm (invisible)
ENVIRONMENTAL	
Operating temperature	-5° to +40° C
Storage temperature	-40° to +70° C
Dust/Humidity***	Solid particle/liquid ingress protection IP54 (IEC 60529)

All specifications are subject to change without notice.

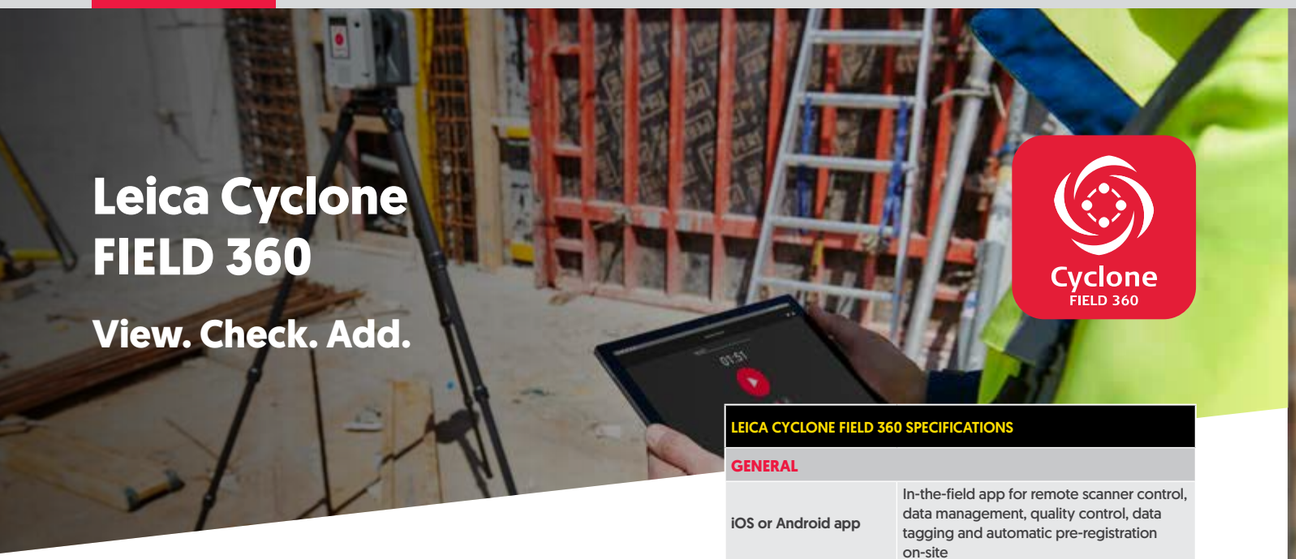
All accuracy specifications are on a level of confidence of 68% according to the Guide of the Expression of Uncertainty in Measurement (JCGM100:2008) unless otherwise noted.

* At 89% albedo.

** For single shot measurements

*** For upright and upside down setups with a +/- 15° inclination

Scanner: Laser class 1 in accordance with IEC60825:2014



Leica Cyclone FIELD 360

View. Check. Add.

View

As part of the Leica Geosystems Reality Capture 360 solution, the high performance Leica Cyclone FIELD 360 mobile-device app is the perfect field companion for the Leica RTC360 3D laser scanner. With its intuitive user interface, remote scanner control and on-site point cloud display, navigation is a breeze - even for novice users – with full imagery and point cloud data delivered directly to your tablet using edge computing technology.

Check

Direct data access and visualisation are the foundation for quality control in the field; with Cyclone FIELD 360, automatically pre-registered point cloud data enables users to quickly conduct on-site quality control checks, improves productivity and makes for better informed decisions in the field.

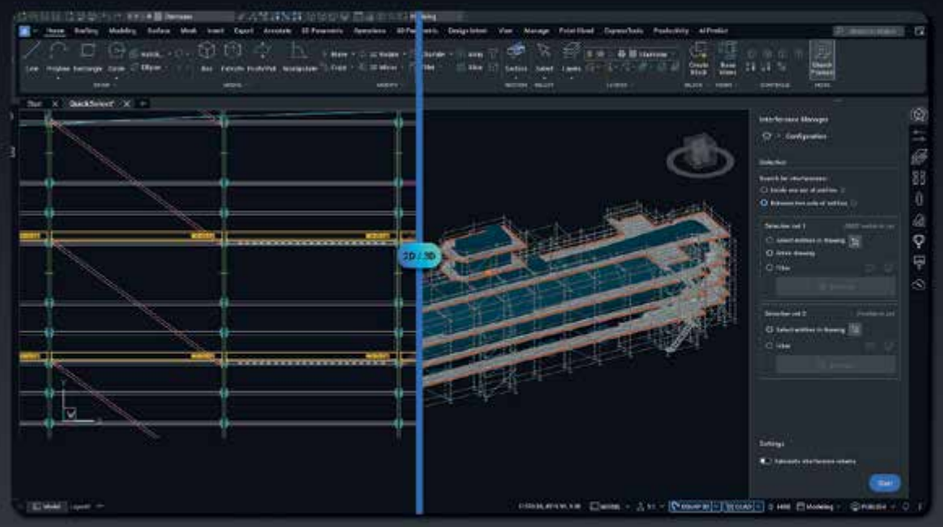
Add

For improved registration in Leica Cyclone REGISTER 360 post-processing, and to add extra value and information to 3D data, Cyclone FIELD 360 enables on-site tagging of measurements, videos, images, text or voice files to the point cloud geometry simply by using your tablet.

LEICA CYCLONE FIELD 360 SPECIFICATIONS	
GENERAL	
iOS or Android app	In-the-field app for remote scanner control, data management, quality control, data tagging and automatic pre-registration on-site
SCANNER CONTROL	
Remote scanner control with access to all control features	
DATA MANAGEMENT	
Create, edit and delete scan jobs	
DATA COMMUNICATION & TRANSFER	
Communication	Bi-directional wireless communication between scanner and tablet
Transfer	Automatic transfer of scan data from scanner to tablet; automatic synchronisation of all app created data from tablet to scanner
QUALITY CONTROL	
Point cloud navigation	Navigate single and registered point clouds in 2D map view, 360° panoramic view or in full 3D view
Point cloud display	Display point clouds in full HDR colour, rainbow intensity or grey-scale mapping
Measurement	Take and tag measurements within the point cloud
DATA TAGGING	
Add image, video, voice, text or any other file-based tags to point cloud	
PRE-REGISTRATION	
Auto alignment	Integrated wireless LAN (802.11 b/g/n)
Visual alignment	Leica MS256, 256GB exchangeable USB 3.0 flash drive
INTEROPERABILITY	
Sensor hardware	Leica RTC360 laser scanner
Cyclone software	Leica Cyclone REGISTER 360 1.5 or higher, requires active REGISTER 360 license for activation
SYSTEM REQUIREMENTS	
Platform	Android tablet computer running on Android 6.0 or higher, e.g. Samsung Galaxy Tab S3 Apple iPad tablet computer running on iOS 11.1 or higher, e.g. iPad Pro with 10.5“ screen
DATA TAGGING	
Contact your local Leica Geosystems representative or an authorised Leica Geosystems distribution partner.	

BricsCAD

The true CAD alternative



About Octave BricsCAD

BricsCAD is a native DWG-based design platform for 2D drafting, 3D modeling, BIM, surveying, and mechanical workflows. With AI-driven tools and cost-effective licensing, BricsCAD brings familiarity, compatibility, and performance to help the design industry break free from existing platforms.

The fastest path from design concept to complete and accurate production drawings

1	2	3	4
Initial Design concept/model	**Design Development** refine	**Detailed Design** documentation	**Production** make/build

Why choose BricsCAD?

Compatible and familiar

Work directly with DWG files, use familiar commands, and easily migrate your menus, customizations, and templates.

AI-driven productivity tools

Automate repetitive tasks, make faster decisions, eliminate errors, and deliver production-ready documentation in less time.

Industry-leading support

Talk to product experts for technical assistance and solving workflow issues.

Single design platform

Move smoothly between 2D drafting, 3D modeling, BIM, surveying, and mechanical workflows. No need to switch software.

Flexible license options

Choose between single or network licenses, available in both subscription and perpetual models.

Cost-effective

BricsCAD delivers a lower total cost of ownership and everything you expect from a professional CAD platform.

Choose the right license for you

Key Features	Lite	Pro	Mechanical	BIM	Ultimate
CAD Platform	✓	✓	✓	✓	✓
2D Drafting	✓	✓	✓	✓	✓
3D Modeling	✗	✓	✓	✓	✓
Surveying tools	✗	✓	✓	✓	✓
Point Clouds	✗	✓	✓	✓	✓
Mechanical tools	✗	✗	✓	✗	✓
BIM tools	✗	✗	✗	✓	✓

More information at bricsys.com/bricscad/compare

Available on

Application Catalog

Extend your workflows

Choose from hundreds of third-party applications for BricsCAD to integrate your favorite tools, extend workflows, and add customizations for your industry.

survey.crkennedy.com.au/BricsCAD

Laser Distance Meters

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

Precise and reliable
Measure distances to millimetre accuracy.
Laser technology makes it possible.

Versatile and functional
The perfect solution for every measuring situation.
With more flexibility for you.

Safe and modern
Avoid dangerous measuring situations at work.
Use today's modern technology.

Our Unique Technologies

Innovations from Leica Geosystems

Continuous further development and new technologies mean that Leica DISTO™ devices provide comprehensive functionality. Equipped with a multitude of innovations, they are flexible and versatile across a wide range of applications. When in use, Leica DISTO™ excels through the highest accuracy and reliability.

Point to Point Technology (P2P)

Using this innovative technology allows you to measure the distance between any two points from one position quickly and easily. New sensor types of the Leica DST 360 / DST 360-X adapter use angle information to make this possible.

Pointfinder

The digital Pointfinder, with its 4 × zoom and large colour display, makes targeting easier over long distances. The high-resolution screen ensures a crystal-clear image, allowing you to measure perfectly, even in

ISO: Certified Quality—Assured reliability

We keep our promise
in accordance with
ISO 16331-1
Accuracy & Range

The range and accuracy of all Leica DISTO™ devices are checked in accordance with ISO 16331-1. As a result, you can be sure that the performance of the instrument is maintained not only in the test laboratory but even more importantly on everyday site tasks.

Triggering measurements with gestures

In triggering the measurement without contact, by briefly interrupting the laser beam with the hand, Leica Geosystems solves a widespread problem, namely the laser distance meter being moved when triggering the measurement. Avoiding this is particularly important in order to obtain accurate results even for large distances or small targets.

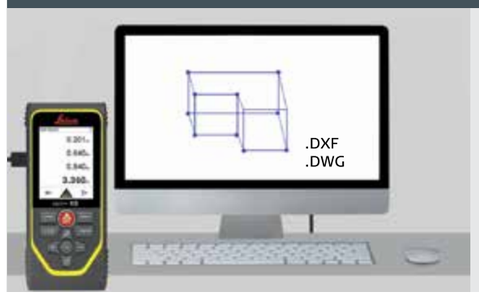
Smart Room

The Leica DISTO™ X6, D5, X3, D2G and D2 in combination with the DISTO™ Plan app increase efficiency. New technologies allow the devices to keep a record of distance measurements and the angle between any two of those measurements at the same time. The app then transforms that information into accurate floor plans on your tablet or smartphone.

Site proof

All devices are protected against dust and splash water to a minimum of IP54 making them well equipped for everyday site tasks. The Leica DISTO™ X series achieve an IP65 rating, making them perfect for rugged job site conditions.

Leica DISTO™ compatible apps



Many other apps, like the AutoCAD® Mobile app, are available to make full use of your Leica DISTO™. This allows you to draw site plans in real time and share the data as dxf files with others.

Leica DISTO™ Series at a Glance

Which one is right for me?

		D1	D2	D2G	D5	X1	X3	X6
Applications								
General important aspects	Digital Pointfinder for outdoor measuring				●			●
	Max. Range	40 m	150 m	120 m	200 m	100 m	150 m	250 m
	Accuracy	± 2 mm	± 1.5 mm	± 1.5 mm	± 1 mm	± 1.5 mm	± 1 mm	± 1 mm
	P2P functionality						●*	●*
	Extra durable housing with IP65 and 2 m drop tested					●	●	●
Computer interface	Wireless interfaces	Bluetooth® 4.2	Bluetooth® 6.0 NFC	Bluetooth® 6.0 NFC	Bluetooth® 5	Bluetooth® 6.0 NFC	Bluetooth® 4.2	Bluetooth® 5
	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		●	●	●		●	●
Planing and Documenting	P2P — dxf data capturing on device							●
	Draw and measure (floor)plans	●***	●***	●***	●***	●***	●***	●***
	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				●			●
	Favorite 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™ D Series

Precision Made to Measure

The devices in the Leica DISTO™ D series are characterised by perfectly balanced functionality. At the same time, they are easy to operate and provide precise measurement results quickly and reliably at the touch of a button, even for areas that cannot be reached with conventional measuring methods, such as tape measure or folding rule.

Leica DISTO™ D Series

From Darker Rooms to Bright Areas

Leica DISTO™ D1

The Handy One
Compact and easy to use for indoor applications

Fast and reliable
Measure distances in seconds, without help from another person, by just pressing a button. Avoid the risk of work accidents during cumbersome and dangerous measuring processes, e.g. when measuring heights.

Precision at the touch of a button
Thanks to its precise laser technology, the starter model Leica DISTO™ D1 always produces reliable measurement results. Operating the unit is very easy and intuitive. Trust the original laser distance meter.

The app for more functionality
The Leica DISTO™ D1 can be quickly and easily connected with the Leica DISTO™ Plan app. Documenting and sending measurements is now very simple.

Leica DISTO™ D2

The Advanced One
For smart performance in indoor applications

Easy data transfer with NFC
NFC offers seamless connectivity with the DISTO™ Plan app, eliminating the need for pairing. Simply place your DISTO™ near the smartphone to transfer measurements. Data can also be transferred using Bluetooth®.

Smart Room – accurate floor plans
Effortlessly create scaled floor plans with the “Smart Room” function. Using advanced technology, it records distances and angles. The DISTO™ Plan app transforms this data into precise floor plans.

Multifunctional end-piece
Whether measuring out of corners, slots or from edges, with this end-piece you are prepared for all measuring situations. The instrument detects the end-piece automatically, which helps to avoid expensive errors.

Advanced functions
With a range of up-to 150 meters the inclination sensor for indirect measurements such as “Smart Horizontal Mode” and the possibility to recall the last 30 measurements it is perfect for indoor applications.

Leica DISTO™ D2G

The High-Visibility One
For precise measurements in bright indoor environments

Green laser – enhanced visibility
The outstanding green laser technology offers best visibility with an exceptional range of up-to 120 meters. The green laser dot is four times more visible to the human eye than the red one, which is especially important in very bright environments.

Smart Horizontal Mode
Thanks to the combination of distance and tilt measurement, you can determine the horizontal distance easily and with absolute precision, even over long distances or obstacles.

Error-free data transfer
Transfer measurements via NFC and Bluetooth® to your smartphone, avoiding costly typing errors. You can further streamline your work process by using our app DISTO™ Plan.

Useful functions
Smart features such as multifunctional end-piece with automatic detection, Smart Room function, inclination sensor for indirect measurements and the option to recall 30 results, ensures an efficient measurement process.

Leica DISTO™ D5

The Versatile One

For long distance measurements indoors and out

The Leica DISTO™ D5 is particularly suitable for distance measurements in outdoor areas. Thanks to the digital Pointfinder, the high functionality and the compatibility with the Leica DISTO™ Plan app, every measuring situation is solved quickly and efficiently. The results can be easily documented to support a target-oriented and error-free digital workflow.

The target always in sight
Even when the laser dot is no longer visible, the target appears clearly on the crystal-clear display with IPS technology thanks to the high-quality digital Pointfinder. This ensures accurate aiming and thus precise results, even in very bright environments and over long distances.

Uncompromising precision
The non-contact triggering of the measurement with gestures avoids moving the device and thus guarantees highly precise measurements, especially on small targets or at long distances. In addition, measurement accuracy can be increased by using the Leica FTA 360 tripod adapter, as the fine drives enable very precise aiming.

The perfect solution for every task
Various measurement functions, such as Smart Horizontal Mode for measuring over obstacles, height tracking, profile or angle measurements ensure that every measurement task can be solved.

Flexible data transfer
In keyboard mode you can connect the Leica DISTO™ D5 to a computer and send measured values in the form of a keyboard entry to the cursor position in any application or a predefined template.

Advanced functionality
Various functions in combination with the Leica DISTO™ Plan app, such as Smart Room, as well as the import of PDF files into the app, simplify the digital documentation of results.

Leica DISTO™ X Series

Robust and Powerful

The Leica DISTO™ X series combines innovative measuring technology with an extremely robust and site-proof design. The sensitive measuring elements are protected by solid rubber components. This makes the Leica DISTO™ X series particularly robust. Drop tests from a height of up to 2 m are proof of this. In addition, the housing and keypad are specially sealed against water and dust. Cleaning under running water is therefore no problem. This concept guarantees reliable measurements even under the toughest construction site conditions.

Leica DISTO™ X1
The Robust One

For Tough Interior Construction Sites

The Leica DISTO™ X1 is a rugged and reliable laser distance meter that is ideal for simple distance, area and volume measurements on tough and dusty indoor construction sites.

Reliable results with ease
The precise laser technology and extremely robust design ensures that the Leica DISTO™ X1 always delivers reliable measurement results. Measure distances of up to 100 m in seconds, without help from another person, by just pressing a button.

Effortless connectivity with NFC
The Leica DISTO™ X1 connects effortlessly to the DISTO™ Plan app via NFC, eliminating the need for pairing. Simply place the device near your smartphone for instant data transfer, streamlining your workflow.

Certified by ISO standard
Tested according to the ISO 16331-1, the Leica DISTO™ X1 achieves an excellent measurement performance not only in the test laboratory but, above all, on the construction site.

Leica DISTO™ X3
The Multi-Functional One

For efficient measuring on tough interior construction sites

The combination of rugged design and multi-functionality makes the Leica DISTO™ X3 perfect for indoor distance measurements and ensures maximum efficiency.

Smart Horizontal Mode
Thanks to the combination of distance and tilt measure-ment, you can determine the horizontal distance easily and with absolute precision, even over obstacles.

Smart Room
With the DISTO™ Plan app, you can use the measurement data from the Leica DISTO™ X3 to automatically create realistic and scaled room plans.

Screen rotation
As the unit rotates, the screen display automatically rotates with it and is easy to read from any angle.

Expandable for P2P measurements
In combination with the Leica DST 360 adapter, the DISTO™ X3 can be used to quickly and reliably measure distances between any two points from one position.

Leica DISTO™ X6
The All-Rounder

For complex measurements made simple on any construction site

The Leica DISTO™ X6 with its extremely robust housing, IP65 protection class and scratch-resistant display glass is particularly suitable for rough con-struction site use. The perfect combination of digital Pointfinder,

ergonomic operation with touchscreen and additional measuring button on the side, as well as high functionality, guarantees that every measuring task can be completed quickly and efficiently. The results can then be sent and further processed in the DISTO™ Plan app.

Simply touch it!
The large touchscreen enables fast and intuitive operation. The measurement functions are clearly arranged and easily and quickly accessible via the touchscreen using familiar gestures such as swiping or zooming with two fingers.

Digital Pointfinder
The digital Pointfinder makes the Leica DISTO™ X6 an ideal distance meter for bright sunlight or long distances.

Clear measurement protocols
All measurement results can be summarised in measurement reports on the Leica DISTO™ X6 and downloaded in the office via the USB interface. This makes it easy to include them in quotations and invoices. The data can also be imported into Excel for further processing.

Large memory capacity
The extra-large memory allows to save multiple measurement protocols on the Leica DISTO™ X6, simplifying documentation.

Ready for 3D measurements
The Leica DISTO™ X6 can be converted into a solid measuring station with the Leica DST 360-X adapter, which is used to collect 2D and 3D data that can be further processed in the DISTO™ Plan app or CAD software.

Environmental friendliness
Li-ion batteries provide an environmentally friendly and long-lasting power supply. The unit can even be used while charging.

Leica DISTO™ X6-P2P Package

Increased Efficiency Thanks to P2P Technology

The Leica DST 360-X adapter is the ideal complement to the Leica DISTO™ X6. With this solid measuring station you can measure distances between any two points. And in combination with the Leica DISTO™ Plan app you can draw as-built plans for further processing in a CAD tool.

Smart interior
Sensors specially developed by Leica Geosystems provide rotation angles in combination with distance measurement, enabling P2P Technology.

Metal construction
The adapter is made entirely of metal. This ensures maximum robustness and consistent precision.

Precise targeting
With the fine adjustment handles, measuring points can be precisely targeted in seconds.

Leica P2P Technology

Efficient Measurement for Digital Workflows

P2P Technology is a safe, accurate and efficient measurement method when it comes to distance measurements in inaccessible areas or complex measurement situations. It also enables a completely digital workflow, as the captured measurement results can be further processed in any CAD software.

Measuring inaccessible areas
Depending on the required result, different measurement functions are available. If it's only the distance between two points being determined, the simple P2P measurement is sufficient. The levelled P2P measurement additionally indicates the height difference, the horizontal distance and the inclination between the two measuring points. Even complex area and angle measurements are possible with P2P Technology. P2L measurement can also be used to determine a position relative to a reference line.

Advanced functionality and visualisation
With the Leica DISTO™ Plan app, measurement results can be easily documented and visualised. For example, it is possible to create detailed floor and wall plans – including openings for doors and windows. Volume measurements are also possible, such as calculating the volume of an excavation with the "Earthworks" function.

Perfectly prepared for CAD applications
Measurement data acquired with P2P Technology can be stored in DXF format on the Leica DISTO™ X6 and downloaded via the USB interface for further processing in CAD applications. The data is available as a floor plan or wall layout (2D DXF files) or as a 3D model (3D DXF files). The measurement data can also be transferred directly on site to a mobile computer for further processing in any CAD software.

Leica DISTO™ Plan App

Document Measurements Digitally

Download on the App Store

GET IT ON Google Play

The Leica DISTO™ Plan app assists you with the vital task of documenting and visualising your measurements. This way you can easily plan the next steps of your project.

Sketch on Photo — dimension objects in pictures
Leica DISTO™ Bluetooth® Smart technology allows you to assign distance measurements to the appropriate part of a picture taken with your tablet or smartphone. This way you can document all your measurement results and easily process them later in the office.

Sketch Plan — create a scale drawing
Simply use your fingers to create a sketch on your smartphone or tablet. Then take corresponding measurements and assign them to the relevant lines of you sketch. The app's 'auto-scale' function automatically adjusts the lines' length and the result is a scaled drawing, showing surface area and circumference. With the new Diagonals feature, you can verify the lengths and angles of your drawing. It is that easy to produce a CAD ready floorplan.

Smart Room — plan while you are measuring
A newly integrated sensor in the Leica DISTO™ X6, D5, X3, D2G and D2 makes it possible to create accurate floor plans simply by taking clockwise or counter-clockwise measurements of a room. Once all measurements are taken, the app automatically generates the plan. Keeping records of each measurement and the angle between any two of those measurements at the same time makes it possible.

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.

Measure Plan / Facade – create as-built plans
The Leica DISTO™ Plan app supports P2P Technology, which makes it possible to create detailed floor and wall plans – including openings for doors and windows. These plans can be easily exported to a DXF or DWG file format.

Measure 3D – see immediately what has been measured
With this function, you can visualise complex 3D measurements directly on site and immediately see if any measuring points are still missing. Afterwards, the DXF or DWG file can be exported for your CAD software or a PDF file.

P2P Measurement – Capture volume
The P2P Technology in combination with the DISTO™ Plan app also enables volume measurements, such as calculating an excavation with the "Earthworks" function.

Relocation – simply change the location
If during a Measure Plan – or Measure 3D – measurement not all points to be measured can be reached from one location, you can easily relocate the Leica DISTO™ X3 and X6 on the DST 360 / DST 360-X by measuring at least 3 previous points again from the next location. This defines the new location and you can continue your measurements.

Leica DISTO™ transfer

The software Leica DISTO™ transfer makes it possible to transfer measurement data directly into AutoCAD® or BricsCAD® on site. This way you can start working within your CAD software straight away and continue to build upon documenting measurement data.

www.disto.com/apps

Apps made for Leica DISTO™

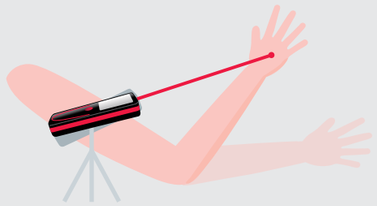
Leica DISTO™ devices are supported by numerous apps which can be downloaded from the App Store or Google Play. Explore the different apps and discover the great opportunities your DISTO™ provides.

Any Measurements are Possible

The Optimal Function for Every Situation

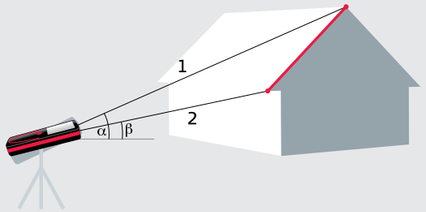
Triggering measurements with gestures

No shaking of the DISTO™ for maximum accuracy



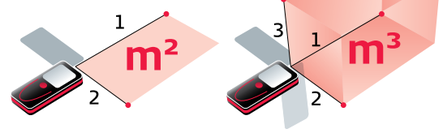
Sloped object measurement

Inclination and distance measurement between two points



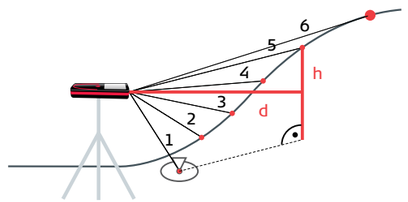
Area and volume measurements

Instant area & volume calculations – no manual input!



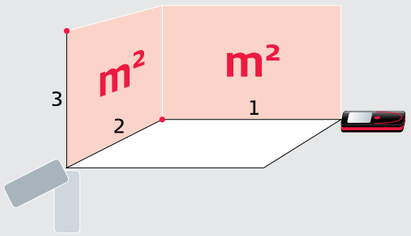
Height profile measurements

Easy solution to create a ground profile



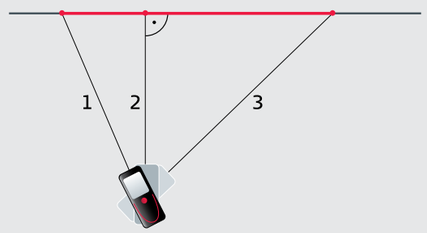
Painter function

Effortless calculation of wall area with just a few clicks



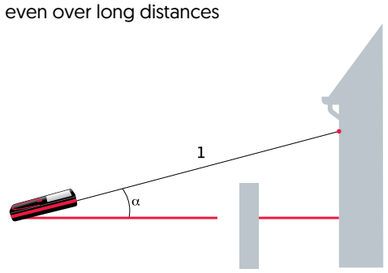
Pythagoras functions

Measure horizontal, vertical orpartial heights without a ladder



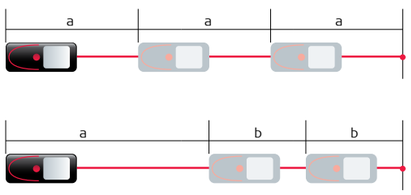
Smart Horizontal Mode

Precise horizontal measurements, even over long distances



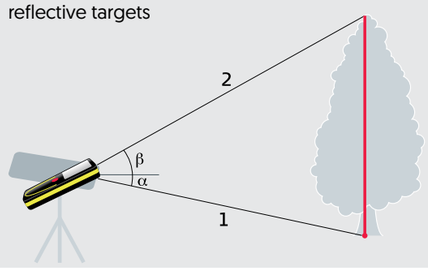
Stake-out function

Precise distance tracking with audio guidance



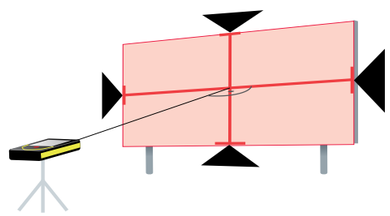
Height tracking

Measure heights without reflective targets



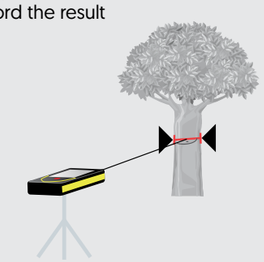
Measuring widths, heights and areas

Determine width, height and area with just one measurement



Diameter measurement

Measure, mark the diameter and record the result

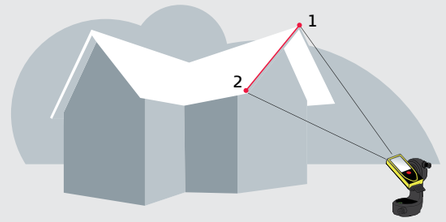


Keyboard mode

Send values straight into your spreadsheet

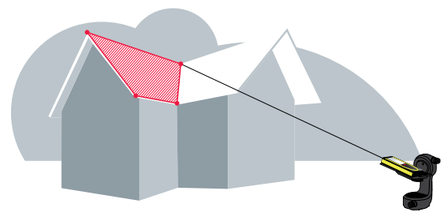
Point to Point Measurement

Measure anything from anywhere



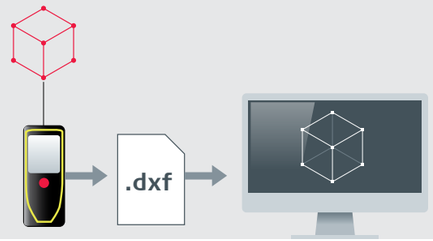
Smart Area Measurement

Measure easily complex floors, walls, ceilings or inclined roof areas



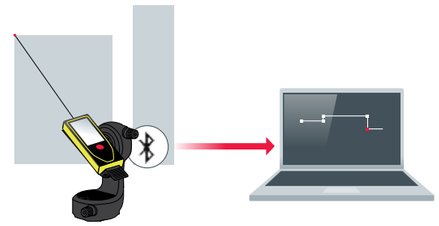
Data capture in dxf files

Save points in 2D or 3D DXF-files for further use in CAD software



Point data transfer

Realtime data transfer into your preferred CAD software



Leica iCON trades

Recreating the real world

The field software Leica iCON trades was developed specifically for the building construction industry to support the digitalisation process. It takes into account industry-specific workflows for 3D measuring tasks and for creating digital templates. Furthermore, it is based on control elements familiar from mobile app usage. As a result, it's quick to learn, and workflows are easily followed and remembered, even when only using the device on a project basis

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:

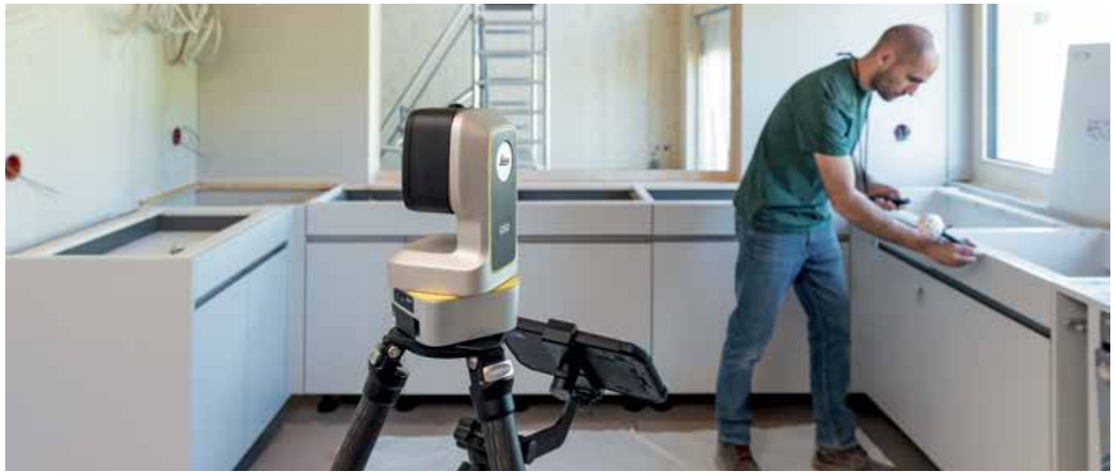
- The Motorised Construction Tool – Leica iCON iCS20
- The Robotic Construction Tool – Leica iCON iCS50 & Leica VPen

Get more out of your construction data by collaborating with our leading software partners.

ALPHACAM

Bricsys®

cabinet vision



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

Get more out of your construction data by collaborating with our leading software partners.

ALPHACAM

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cabinet vision

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 iCS20 – Laser Interior Finishing Package
#LG6018483

Leica iCON iCS20 – Laser Templating Package
#LG6018485

The Leica iCON iCS20 kit contains:

- Leica iCON iCS20
- Leica iCON trades for Interior Finishing software*
- Leica iCON trades for Templating software**
- Charger for indoor use
- Leica CSX8 tablet incl. pouch
- GZM3 target plate
- vTarget plates incl. stands
- vTarget stickers
- Carry case
- Leica CTP108 Carbon tripod incl. quick mount

* Interior Finishing package only
** Templating package only

Leica iCON iCS50

Robotic Construction Tool

The robotic Leica iCON iCS50 is the state-of-the-art construction tool to perform both simple and complex 2D and 3D measurement tasks. It is characterised by the same features as the Leica iCON iCS20. However, in combination with the smart accessory Leica vPen – the unique wireless measuring pen – it becomes a very productive solution, as the time required for measurement tasks, as well as the risk of errors, is reduced to a minimum.

Yes, it's that simple.

Leica iCON iCS50 – vPen Templating Package
#LG6018486

Leica iCON iCS50 – vPen Interior Finishing Package
#LG6018484

The Leica iCON iCS50 kits contain:

- Leica iCON iCS50
- Leica iCON trades for Templating software*
- Leica iCON trades for Interior Finishing software**
- Leica vPen
- Charger for indoor use
- Leica CSX8 tablet incl. pouch
- RC10 remote control
- GZM3 target plate
- vTarget plates incl. stands
- vTarget stickers
- Carry case
- Leica CTP108 Carbon tripod incl. quick mount

* Templating package only

Leica vPen

The unique wireless measuring pen for tactile measurements

This unique wireless measuring pen is very versatile and extremely precise (± 1 mm accuracy at 10 m). You can use it to measure on any surface, including glass. The unique visual-based target tracking ensures that the Leica iCON iCS50 always stays connected to the Leica vPen.

Yes, it's that simple.

Leica vPen – Even More Convenience and Accuracy
This unique wireless measuring pen is very versatile and extremely precise. Simply touch the point to be measured and it is captured. Hidden points, glossy surfaces or even glass are not a limitation and setting up target plates on edges is no longer necessary.

Visual Measurement Technology
The sensor's camera picture constantly observes the sphere of the Leica vPen with its unique dot pattern and precisely calculates its position from any direction, accounting for tilt and orientation. This process is extremely fast, ensuring a consistently robust connection between sensor and sphere.

Line & Point Lasers

Set-up, switch on and start working.

Leica Lino lasers project lines or points to millimetre accuracy, making it easier for you to get the job done right.

All Leica Lino lasers are self-levelling, so you can set-up, switch on and start working. Top quality optics and proven accuracy ensure that the projected lines give you a reference line that you can trust. Lino lasers are so simple to understand and operate, providing you with the flexibility to complete any interior application that require you to level, align, plumb or square.

Leica Lino Series

Outstanding performance and versatile adapters designed for building applications

All our Leica Lino products are designed for professionals with the same aim in mind as all our Leica Geosystems products: Making your work easier, and improving your results, by providing excellent quality, performance and well conceived accessories. Because top-quality products are for top-quality work.

Our Unique Technologies

Innovations from Leica Geosystems

Outstanding visibility

All Leica Lino products incorporate decades of knowledge and experience in the fields of optics and electronics. The results are outstanding visibility and high accuracy of our red and green lasers.

Li-Ion

The Leica Lino has a Li-Ion battery which ensures continuous working. A single charge provides a 26-hour battery life.

Magnetic adapters

The Leica Lino products can easily be connected to precision engineered adapters via strong magnets, allowing you to work faster and more precisely.

Ruggedness

Leica Lino products are well crafted with high quality materials, therefore perfectly suited for construction sites. Each product is fully tested to meet Leica Geosystems quality standards.

The Leica Lino series at a glance

Which laser is right for me?

Applications		P5	L2	L2G	L2P5	L2P5G
General important aspects	Green laser for better point and line visibility			●		●
	Recommended maximum working range	30 m	25 m	35 m	25 m	35 m
	Levelling accuracy	± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m
Horizontal	Alignment	[●]	●	●	●	●
	Transferring heights	[●]	●	●	●	●
	Fine adjustment for e.g. suspended ceilings		●*	●*	●*	●*
Vertical	Alignment	[●]	●	●	●	●
	Fine adjustment manual					
Plumbing	Transferring points from floor to ceiling	●			●	●
Slopes	Lock laser for slope alignment		●	●	●	●
Stake-out	Rectangular angles	●			●	●
Usability	Extra long operation with Li-Ion power	●**	●**	●**	●	●
	Operation during charging	●**	●**	●**	●	●
	Alternative usage with Alkaline batteries	●	●	●	●	●
	Easiest setup to adapter with magnets	●	●	●	●	●
	Range extension with receiver		●	●	●	●

*) UAL 130 accessory required **) Li-Ion accessory required

L6R	L6G
	●
25 m	35 m
± 0.2 mm/m	± 0.2 mm/m
●	●
●	●
●*	●*
●	●
●	●
[●]	[●]
●	●
●	●
●**	●
●**	●
●	●
●	●
●	●

Leica Lino L6G

Best green visibility of 360° laser lines

The Leica Lino L6G is the most versatile across its range. It covers many different applications with its multi-line projection. 3 x 360° green lines makes the marking of 90° anywhere in a room an easy and simple task.

High-performance laser diodes for outstanding visibility

Green lasers are up to 4x more visible to the human eye than red ones, delivering superior clarity across working distances of up to 35 meters. That means less repositioning, faster progress, and maximum efficiency on site.

Li-Ion: A complete workday on a single charge

The long-life Li-Ion batteries allow you to work uninterrupted for up to 11 hours. “Always ready to work”. In case you forgot to charge the Li-Ion batteries you can easily replace them with standard Alkaline batteries.

Precise alignment made easy

The integrated fine adjustment around the plumb point on the Lino L6 allows for fast, accurate setup - saving time, money, and frustration. With a wide adjustment range of ±10° around the plumb point, positioning is both flexible and precise.

Adjustable visibility for longer runtime

Laser brightness can be reduced to 75% or 50%, saving battery power and extending operating time. Your preferred line and visibility settings can be saved, so you can pick up right where you left off - no time lost, just seamless productivity.

Leica Lino Line and Point Lasers

Excel on Every Point Across the Whole Range

Li-Ion
Innovative Li-Ion power lasts for hours. There is no interruption to your work for battery charging or to constantly exchange Alkaline batteries.

Triple power concept
Run your laser with Li-Ion, Alkaline or connect it to the power supply. Continue working with the smart triple power concept.

Magnetic adapters
Smart adapters allow you to position the instrument quickly and with absolute precision. Set up the rotatable adapters over edges and profiles, attach it to iron pipes or to various tracks and bars.

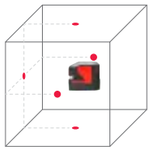
Self-leveling
The Leica Lino automatically adjusts its positioning if it is slightly out of level (up to ± 4°). If the tilt is outside the ± 4° limit, the instrument activates a visual alert to prevent errors. This means its setup to project lines or dots is quick and effortless.

Large glass lens
The optimum emergence angle ensures outstanding visibility and extension of the laser lines and allows for perfect leveling and alignment at long distances.

Rugged design
All Leica Linos are dust and spray water protected. This makes them tough instruments suitable for today's jobsite conditions.

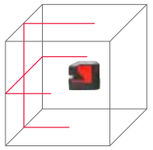
Green visibility
Green Lino laser lines are four times more visible to the human eye in comparison to red ones. This makes green lasers more suitable for longer distances and increases visibility in bright environments.

Best visibility
Green Laser



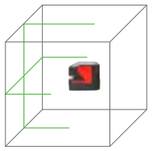
Lino P5

Right to the point!
Forget about plumb bobs, string lines and spirit levels! The Leica Lino P5 point laser is practical and simple to operate. Just one button is needed for all its applications. It quickly and accurately projects all the points you need which makes it an efficient solution for professional plumbing and alignment tasks.



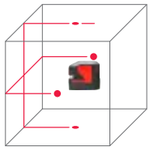
Lino L2

You can rely on its sharp lines
Time-consuming and tedious drawing of lines on walls is a thing of the past. The Leica Lino L2 projects them exactly, quickly and easily while you concentrate on the job in hand. The increased laser power enhances line visibility and improves the efficiency of interior work.



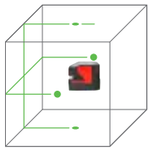
Lino L2G

Visibility on a new level
The Leica Lino L2G cross line laser projects highly visible lines at the correct angles to one another. Its new laser uses the latest green laser technology which makes lines even more visible and clear. As a result, this laser will make it easier for you to see your reference lines, even in extreme lighting conditions or over long distances.



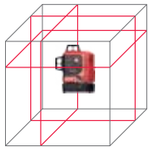
Lino L2P5

Combining points and lines
The Leica Lino L2P5 combines all advantages of the Leica Lino point and line lasers. The laser's cross lines support your alignment tasks and its five laser points allow you to plumb, set out or transfer measured points. The proven Leica optics enable the device to project very long and bright lines which extends the working range significantly.



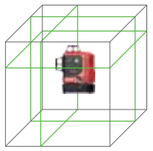
Lino L2P5G

Multi-functional
The cross lines of the Leica Lino L2P5G support alignment tasks and its five laser points allow you to plumb, set out, or transfer measured points. The green lasers increase laser visibility in bright environments and large rooms. The use of Li-Ion battery technology further optimises the instruments usability.



Lino L6R

3 x 360° Precision Alignment
The red Ultra-power laser diodes of the Leica Lino L6R ensure high visibility of all three 360° laser lines. The laser's vertical lines are easily adjusted (±10°) once the plumb point is set. Li-Ion power makes an operation time of up-to 36 h possible while the smart Triple-Power concept guarantees uninterrupted working.



Lino L6G

Highly Visible Laser Lines
The Leica Lino L6G is equipped with green Ultra-power laser diodes. Its thin, crisp and clearly visible green laser lines are ideal for bright and large work environments. The laser's vertical lines are easily adjusted once the plumb point (cross-section of two vertical lines), which is located outside the device, is set.

Leica DISTO™ and Lino

Original accessories

DISTO™ ● Lino ●

Tripods >

Leica TRI 75 ● ●

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. **Art. No. #LG975 718**

Leica TRI 105 ● ●

Quality tripod with bubble level, very easy fine adjustment. Extendable length from 0.67 m to 1.80 m. **#LG975 728**

Leica TRI 120 ●

Twist locks for the legs are making this tripod even more stable. The 180° foldable legs are making it ultimately compact. Extendible length up to 1.16 m. Ideal for any tripod adapter for all Leica DISTO™ models. **#LG848 788**

Leica TRI 200 ●

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. **#LGNo. 828 426**

Leica CLR 290 clamp rod ●

With universal mounting platform for line and rotating lasers. Extendible length up to 2.90 m. The clamp rod can be fixed between the floor and ceiling. This allows the laser to be positioned at any desired height. **Art. #LG761 762**

Case systems >

metaBOX ●

Extremely robust case for storing, protecting and transporting the DISTO™ X6, DST 360-X adapter and TRI 120 tripod.
#LG962 211 metaBOX 165L
#LG983 878 inlay
#LG979 673 mounting plate for metaBOX
#LG979 672 adapter plate for other systems

Adapters for DISTO™ >

Leica DST 360 ●

Leica DST 360-X ●

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.
#LG848783 adapter DST 360 for DISTO X3, TRI 120 tripod, rugged case
#LG946 095 adapter DST 360-X for DISTO™ X6
#LG6 018 772 adapter DST 360-X for DISTO™ X6, TRI 120 tripod, GZM 3 target plate, charger, metaBOX

Leica FTA 360 ●

Sturdy adapter with fine drive for convenient and precise targeting. The adapter eases the task of targeting, above all over long distances, and results in minimum discrepancies when taking indirect measurements. For use in combination with Leica TRI 70, TRI 100, TRI 120 and TRI 200 tripods.
#LG799 301 for Leica DISTO™ D5

Adapters for Lino >

Leica UAL 130 ●

The universal adapter for Lino allows to attach and adjust the height of a Leica Lino by 130 mm easily and precisely. Can be used for the new Leica Lino P5, L2, L2G, L2P5, L2P5G, L6R and L6G. **#LG866 131**

Target plates >

Leica TPD 100 Kit ●

The target plate for improved targeting with digital Pointfinder on long distances. The kit with pole and bubble enables measurement on land- marks and performance of basic surveying tasks with a Leica DISTO™.**#LG601 2352**

Leica GZM 3 ●

This 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.**#LG820 943**

Leica GZM 27 ●

Stick-on target plates for fixing on to edges and corners. Size: 147 × 98 mm.
#LG723 774

Leica GZM 26 ●

For measurements on poorly reflective surfaces. Two-sided — grey side for shorter distances and brown for longer. Size: 210 × 297 mm.
#LG723 385

Leica GZM 30 ●

Stick-on target plates for placing on ground- marks. Size: 274 × 197 mm.
#LG766 560

Leica target plate ●

For visualisation of red or green laser lines in open space. With scale, magnet and foldable stand for easy positioning. Size: 150 × 74 mm.
#LG758 831 (for red lasers)
#LG823 195 (for green lasers)

Receiver >

Leica RGR 200 ●

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. For Leica Lino L2, L2G, L2P5, L2P5G, L4P1, L6R and L6G.
#LG866 090

Leica RGR 300-D ●

Digital line laser receiver with millimetre / inch read-outs, illuminated LCD displays and built-in magnets. Extended range up to 80 m, IP65 rating for tough sites. Compatible with any red and green lasers in our portfolio.
#LG1 017 990

Protector >

Leica drop protector ●

Protector to secure the Leica Lino from falling down. For Leica Lino L6R, L6G and L4P1.
Art. No. 921 250

Glasses >

Leica GLB 30 Laser glasses 3 in 1 ● ●

For better visibility of the laser dot outdoors. With 3 different lenses: laser visibility glasses, safety glasses and sun glasses.
Art. No. 780 117

Leica GLB 10G ● ●

Green laser glasses for improved visibility of laser lines and dots in bright rooms and outdoors up to 15 m.
Art. No. 772 796 (for green laser)

Charger >

POWERLINE 4 LIGHT ● ●

For charging 4 rechargeable batteries; type AA or AAA; with 4 adapters for worldwide use; including 4 rechargeable batteries type AA/2300 mAh.
#LG806 679

UC 20 Universal quick charger ● ●

For charging 2 rechargeable batteries; type AAA; with 4 adapters for worldwide use; including 2 rechargeable batteries type Micro AAA NiMH/800 mAh. **#LG788 956**

Mini USB car charger ●

For charging the Leica DISTO™ with USB interface; extremely small — even fits under socket covers; output: 5V/1 amp. **#LG 806 566**

Technical data

Technical data	D1	D2	D2G	D5
Art. No.	LG843418	LG986858	LG1017808	LG950908
Packaging solution Art. No.				LG950879 (incl. FTA 360, TRI 75 and metaBOX)
Typ. distance measuring accuracy (ISO 16331-1)	± 2.0 mm	± 1.5 mm	± 1.5 mm	± 1.0 mm
Range (ISO 16331-1)	0.2 up to 40 m	0.05 up to 150 m	0.05 up to 120 m	0.05 up to 200 m
Measuring units	m, ft, in	m, ft, in	m, ft, in	m, ft, in
X-Range Power Technology	●	●	●	●
Distance in m / Ø of the laser dot in mm	10 m 6 mm	10, 50, 100 m 6, 30, 60 mm	10, 50, 100 m 6, 30, 60 mm	10, 50, 100 m 6, 30, 60 mm
Laser type	635 nm/class 2	635 nm/class 2	518 nm/class 2	635 nm/class 2
Tilt sensor		●	●	●
Tilt sensor accuracy to the housing		± 0.2 °	± 0.2 °	± 0.2°
Units in the tilt sensor		0.0 °	0.0 °	0.0°, 0.00 %
Smart Base measuring range Horizontal Vertical				
Distance in m Typ. tolerance of the P2P function				
Levelling range				
Pointfinder with zoom				4 ×
Picture file format				
CAD data format on device				
Memory for CAD files on device				
Memory for last measurements		30	30	50
Memory for reports				
Display illumination	●	●	●	●
Free software for Windows	●	●	●	●
App for iOS and Android	●	●	●	●
Smart Room support		●	●	●
Wireless interface	Bluetooth® 4.2	Bluetooth® 6.0 NFC	Bluetooth® 6.0 NFC	Bluetooth® 5
USB-C connector for charging and download				● (charging only)
Measurements per set of batteries	up to 10,000**	up to 7'000 **	up to 5'000 **	up to 5,000**
Service life of batteries	up to 20 h**	up to 14 h **	up to 10 h **	up to 10 h**
Multifunctional end-piece		●	●	●
Automatic reference detection for end-piece		●	●	●
Tripod thread				1/4"
Batteries	type AAA 2 × 1.5 V	type AAA 2 × 1.5 V	Type AAA 2 x 1.5 V	Li-Ion
Charging time				3 h
Protection class	IP54	IP54	IP54	IP54
2 m drop tested				
Dimensions	115 × 43.5 × 23.5 mm	127 x 50.5 x 24.5 mm	127 x 50.5 x 24.5 mm	144 × 60 × 24 mm
Weight with batteries	87 g	116 g	116 g	180 g

X1	X3	X6
LG986859	LG833800	LG950909
		LG950878 (incl. DST 360-X, TRI 120 and metaBOX)
± 1.5 mm	± 1.0 mm	± 1.0 mm
0.05 up to 100 m	0.05 up to 150 m	0.05 up to 250 m
m, ft, in	m, ft, in	m, ft, in
●	●	●
10, 50, 100 m 6, 30, 60 mm	10, 50, 100 m 6, 30, 60 mm	10, 50, 100 m 6, 30, 60 mm
635 nm/class 2	635 nm/class 2	635 nm/class 2
	●	●
	0.0°, 0.00 %	0.0°, 0.00 %
	360°* -64° to > 90°*	360°* -64° to > 90°*
	2, 5, 10 m* ± 2, 5, 10 mm*	2, 5, 10 m* ± 2, 5, 10 mm*
	± 5°*	± 5°*
		4 ×
		JPG
		DXF, CSV
		up to 1 000 points
	20	
		300
●	●	●
●	●	●
●	●	●
	●	●
Bluetooth® 6.0 NFC	Bluetooth® 4.2	Bluetooth® 5
		●
up to 7'000 **	up to 4,000**	up to 4,000**
up to 14 h **	up to 8 h**	up to 8 h**
	●	●
	●	●
	1/4"	1/4"
Type AAA 2 x 1.5 V	type AA 2 × 1.5 V	Li-Ion
		3 h
IP65	IP65	IP65
●	●	●
125 x 53.5 x 25.5 mm	132 × 56 × 29 mm	155 × 68 × 25 mm
129 g	184 g	230 g

For DISTO™ D2G with green laser

For all DISTO™ devices with red laser

*) Applies for usage with Leica DST 360 / DST 360-X
**) reduced when used with Bluetooth®, NFC or Leica DST 360 / DST 360-X

Leica DISTO™ Sets

Leica DISTO™ D5 Package
Precise aiming at long distances
#LG950879

Leica DISTO™ X6 P2P Package
The ultimate point-to-point solution
#LG950878

metaBOX
The metaBOX is extremely robust and shatterproof and optimally protects the Leica DISTO™ devices from dirt and humidity. The accessories can also be safely stored and clearly arranged in it. Thanks to the simple stacking and coupling of the boxes, several devices can be carried to the construction site with one hand.
#LG962211 metaBOX 165L
#LG983 878 inlay
#LG979673 mounting plate for metaBOX
#LG979672 adapter plate for other systems

Technical data

Technical data	P5	L2s	L2	L2Gs	L2G
Art. No.	LG864427	LG848435	LG864413	LG912932	LG864420
Range*	30 m	25 m		35 m	
Range with laser receiver*		80 m		80 m	
Levelling accuracy	± 0.2 mm/m	± 0.2 mm/m		± 0.2 mm/m	
Self-levelling range	± 4°	± 4°		± 4°	
# of laser dots	5				
# of laser lines		2		2	
Beam direction	up, down, forward, right, left	vertical, horizontal		vertical, horizontal	
Dot accuracy	± 0.2 mm / m				
Horizontal line accuracy		± 0.3 mm/m		± 0.3 mm/m	
Vertical line accuracy		± 0.3 mm/m		± 0.3 mm/m	
Laser type	635 nm/class 2	635 nm/class 2		525 nm/class 2	
Battery type	AA 3 x 1.5 V	AA 3 x 1.5 V	Li-Ion rechargeable (or AA 3 × 1.5 V)	AA 3 x 1.5 V	Li-Ion rechargeable (or AA 3 × 1.5 V)
Operating time**	up to 37 h (AA)	up to 13 h (AA)	up to 44 h (Li-Ion)	up to 7 h (AA)	up to 28 h (Li-Ion)
Protection class	IP54	IP54	IP54	IP54	IP54
Dimensions	110 × 60 × 100 mm	110 × 60 × 100 mm	110 × 60 × 100 mm	110 × 60 × 100 mm	110 × 60 × 100 mm
Weight with batteries	495 g	500 g	530 g	500 g	530 g
Tripod thread	1/4"	1/4"	1/4"	1/4"	1/4"
Scope of delivery	Lino P5, TWIST 360, Alkaline battery tray, batteries, target plate, hard case	Lino L2, TWIST 250, Alkaline battery tray, batteries, target plate, soft pouch	Lino L2, TWIST 250, Li-Ion battery pack, charger, Alkaline battery tray, target plate, hard case	Lino L2G, TWIST 250, Alkaline battery tray, batteries, target plate, soft pouch	Lino L2G, TWIST 250, UAL 130, Li-Ion battery pack, charger, Alkaline battery tray, target plate, hard case

Technical data receiver	RGR 200	RGR 300-D
Art. No.	LG866090	LG1017990
Function	locating red and green laser lines	locating red and green laser lines
Digital read-out in mm / in.	no	yes
Working range*	2 – 80 m	2-80 m
Accuracy (switchable)	± 1 mm / ± 3 mm	± 0.5 mm / ± 2.0 mm / ± 5.0 mm
Accuracy channels	2	3
Detection window	85 mm	85 mm
Digital detection window		60 mm
Detectable spectrum	635 nm ± 5 nm red, 525 nm ± 5 nm green	635 nm ± 5 nm red, 525 nm ± 5 nm green
Automatic shut-off	30 min.	30 min.
Number of displays	2	2
Illuminated display	front and back side	front and back side
Fixing magnets	yes	yes
Acoustic signal (switchable)	100 dB, 80 dB, 0 db	90 dB, 70 dB, 0 db
Battery type/life	AA 2 × 1.5 V/40 h	AA 2 × 1.5 V/40 h
Protection class	IP65	IP65
Dimensions	158 × 73 × 26 mm	158 × 73 × 26 mm
Weight with batteries	250 g	265 g
Scope of delivery	RGR 200, tough receiver bracket, batteries	RGR 300-D, tough receiver bracket, batteries

*) depending on lightning conditions
**) depending on laser mode

For Linos with green laser

For Linos with red laser

L2P5	L2P5G	L6Rs	L6Gs	L6G
LG864431	LG864435	LG918976	LG918977	LG912971
25 m	35 m	25 m	35 m	
80 m	80 m	70 m		
± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m	
± 4°	± 4°	± 4°	± 4°	
4	4			
2	2	3 x 360°	3 x 360°	
vertical, horizontal, up, down, right, left	vertical, horizontal, up, down, right, left	1 vertical front, 1 vertical side, 1 horizontal	1 vertical front, 1 vertical side, 1 horizontal	
± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m	± 0.2 mm/m	
± 0.3 mm/m	± 0.3 mm/m	± 0.3 mm/m	± 0.3 mm/m	
± 0.3 mm/m	± 0.3 mm/m	± 0.3 mm/m	± 0.3 mm/m	
635 nm/class 2	525 nm/class 2	635 nm/class 2	525 nm/class 2	
Li-Ion rechargeable (or AA 3 × 1.5 V)	Li-Ion rechargeable (or AA 3 × 1.5 V)	AA 3 x 1.5 V	Li-Ion rechargeable (or AA 3 × 1.5 V)	
up to 44 h (Li-Ion)	up to 28 h (Li-Ion)	up to 25 h (AA)	up to 11 h (Li-Ion)	up to 11 h (Li-Ion)
IP54	IP54	IP54	IP54	IP54
110 × 60 × 100 mm	110 × 60 × 100 mm	124 × 107 × 154 mm	124 × 107 × 154 mm	124 × 107 × 154 mm
530 g	530 g	781 g	781 g	781 g
1/4"	1/4"	1/4"	1/4"	1/4"
Lino L2P5, TWIST 360, Li-Ion battery pack, charger, Alkaline battery tray, target plate, hard case	Lino L2P5G, TWIST 360, UAL 130, Li-Ion battery pack, charger, Alkaline battery tray, target plate, hard case	Lino L6R, Alkaline battery tray, batteries, target plate, soft pouch	Lino L6G, Li-Ion battery pack, charger, Alkaline battery tray, target plate, soft pouch	Lino L6G, TWIST 250, UAL 130, Li-Ion battery pack, charger, Alkaline battery tray, target plate, hard case

Free warranty extension
Register your product within eight weeks of purchase at www.disto.com/warranty and benefit from our 3-year warranty on devices and 2-year warranty on Li-Ion batteries.

Helpful tips & tricks
At www.disto.com/e-learning you will find numerous how-to-videos, case studies and tutorials showing various applications and functions. Learn how to use your Leica DISTO™ or Lino even more efficiently.

Access to our knowledge database
Should a problem occur with your Leica DISTO™ or Lino, you will find numerous articles with helpful information at www.disto.com/support free of charge and without registration to solve your problem quickly and easily.

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. Compare these features and you'll see why our construction lasers set the standard for durability and value. Leica Geosystems lasers are waterproof, that means all critical components are completely protected from wet weather conditions.

With the Leica Rugby CLAx / CLH Grade Lasers you can get your device configured to match your application needs. The maximum flexibility and the ability to quickly adjust to the job's needs is vital for your projects.

Leica Rugby CLAx

With a streamlined portfolio your application needs are met as the CLAx series provides the laser you need to maximise productivity and performance on-site. The three models deliver unmatched performance in any levelling, aligning, and squaring tasks, making it a real all-rounder.

Rugby CLAx packages including battery, charger, CLC Combo+ receiver and carrying case

Article	Description
#LG6018539CLC	Rugby CLAx250 manual grade with combo receiver
#LG6018541CLC	Rugby CLAx550 semi automatic dial in dual grade laser, laydown with combo receiver
#LG6018543CLC	Rugby CLAx700 fully automatic dial in dual grade laser, laydown with combo receiver

LEICA RUGBY	CLAx250	CLAx550	CLAx700
Horizontal plane	✔	✔	✔
Laydown / vertical plane		✔	✔
Self-levelling ± 6°	✔	✔	✔
Self-levelling accuracy +- 1.5mm @ 30m	✔	✔	✔
Power safe mode 7 RPS	✔	✔	✔
Head Speed 10 RPS (600 rpm)	✔	✔	✔
Head Speed 15, 20 RPS (900, 1200 rpm)			
Head Speed 0, 2, 5, 10, 15 RPS (0, 120, 300, 600, 900 rpm)		✔*	✔*
Head stall alert	✔	✔	✔
Temperature stability control 2°C, 5°C, off	✔*	✔*	✔*
Battery operating time 50h	✔	✔	✔
HI alert	✔*	✔*	✔*
Beam masking	✔*	✔*	✔*
Beam scanning 10°, 45°, 90°		✔*	✔*
Slope catch /lock	✔*	✔*	✔*
Plumb-up beam	✔	✔	✔
Grade dial-in ± 5%, Semi auto Grade			
Dual grade, manual slope, ± 8%	✔	✔	
Single grade, semi-automatic levelling, dial-in ± 8%		✔	✔
Dual grade, semi-automatic levelling, dial-in ± 8%		✔	
Single grade, fully-automatic levelling, dial-in ± 15%			✔
Dual grade, fully-automatic levelling, dial-in ± 15%			✔
* The CLC Combo+ is required to operate and/or change these features/functionalities ** Standard software delivered with the CLH Basic			

Leica Combo+ Receiver / Remote

Combo including Bracket (receiver & remote for Rugby CLA-ctive, CLH) - with built-in backlight.

Article	Description
#LG986299	Combo+ receiver & remote

LEICA COMBO (RECEIVER/REMOTE)	
Warranty	3Y
Anti-Strobe	✔
Working range - Receiver	1,350 m / 4,430 ft (diameter)
Working range - Remote	600 m / 1,969 ft (diameter)
Detection window	120 mm / 4.7 in
Digital read out	✔
Offset	✔
Variable detection window length	✔
Audio volumes	4 (including mute)
Detection bandwidth	0.5, 1, 2, 5 mm
Environmental standard	IP67
Batteries (Li-ion) / Battery operating time**	Li-ion 3.7 V / 50 h
Battery charging	5 h (full charge) 1 h (fast charge - 8 h operating)
Rechargeable battery / charging option with power bank (USB-C)	✔
Operating temperature	-20 °C to +50 °C, -4 °F to +122 °F
Dimensions (H x W x D)	205 mm x 86 mm x 32 mm (8.1 in x 3.4 in x 1.2 in)
Weight with batteries	0.4 kg / 0.9 lbs

** Defined at 25°C (77°F) battery life depending upon environmental conditions.
All specifications are depending on activated functionality on the laser.

Battery and charging

1 A800 Li-ion Battery Pack

12 V / 7.2 Ah (for Rugby CL-Series)
#LG864849

2 A100 Li-ion Charger

(for Rugby CL-Series)
#LG790417

3 USB Charger

(for Combo)
#LG864852

4 USB Cable C-C

(for Laser and Combo)
#LG864854

5 USB Cable C-A

(for Laser and Combo)
#LG864853

6 A130 12 V Battery Cable

4.5 m, charge and run from auto battery
#LG790418

7 A140 Car Adapter Cable

1 m Charge inside the vehicle while driving. No downtime, unique power concept with solar panel.
#LG797750

Leica Rugby 600 Series

Your reliable partner on site

Leica Rugby 610

One button simplicity

Leica Rugby 610 – A one-button, self-levelling horizontal laser (single axis, manual slope when used with the A240 Manual Slope Adapter).

Rugby 610 package with Rod-eye receiver

#LG6011150 Rugby 610 with carrying case, Rod Eye 120 receiver, and Alkaline pack.

#LG6008616 Rugby 610 with carrying case, Rod Eye 160 mm receiver, and Alkaline pack.

Rechargeable Li-ion packages also available: #LG6011150R #LG6008616R

Leica Rugby 620

Simple and reliable

Leica Rugby 620 – An accurate, easy-to-use, self-levelling horizontal laser with manual grade control.

Rugby 620 package with Rod-eye receiver

#LG6011152 Rugby 620 with carrying case, Rod Eye 120 receiver, and Alkaline pack.

#LG6005985 Rugby 620 with carrying case, Rod Eye 160 mm receiver, and Alkaline pack.

Rechargeable Li-ion packages also available: #LG6011152R #LG6005985R

Leica Rugby 640 / 640G

Versatile inside and out

The Rugby 640 / 640G – A multi-purpose, self-levelling horizontal/vertical laser for interior and general construction applications. Red or green beam can be chosen

Rugby 640 Package with Rod Eye 120 Receiver and RC400 Remote

#LG6011154 Rugby 640 with carrying case, Rod Eye 120 receiver, and Alkaline pack.

#LG6005989 Rugby 640 with carrying case, Rod Eye 160 mm receiver, and Alkaline pack.

Rechargeable Li-ion packages also available: #LG6011154R #LG6005989R

Additional packages available.

Rugby 640G Package with Rod Eye 120G Receiver and RC400 Remote

Rugby 640G with carrying case, Rod Eye 120G receiver, and Alkaline pack.

#LG6011488

Best visibility
Green Laser

Rechargeable Li-ion packages also available: #LG8011488GR

Leica Rugby 680

Semi-automatic, dual grade laser

The Rugby 680 is a semi-automatic, dual slope laser designed for the contractor that does mostly flat work, but occasionally needs to create a slope in two axes such as a small parking area.

Rugby 680 Package with Rod Eye 160 Receiver

Rugby 680 with carrying case, Rod Eye 160 receiver, Li-ion battery and charger.

#LG6006010

Additional packages available.

Technical Data	Rugby 610	Rugby 620	Rugby 640	Rugby 640G	Rugby 680
Functionality	Self-levelling horizontal, one button laser	Self-levelling horizontal, with dual axis manual slope	Self-levelling horizontal, vertical, 90° with dual axis manual slope	Self-levelling, horizontal, vertical, 90° and manual slope in dual axis	Semi-automatic, self-levelling horizontal with dial-in, dual axis
Operating range (diameter)*	600 m / (1,970 ft)	600 m / (1,970 ft)	600 m / (1,970 ft)	400 m / 1300 ft	800 m / (2,600 ft)
Self-levelling accuracy	±2.2 mm at 30 m	±2.2 mm at 30 m	±2.2 mm at 30 m	±2.2 mm at 30 m	±1.5 mm at 30 m
Self-levelling range			±5°		
H.I. elevation alert	✔	✔	✔	✔	✔
Rotation speeds	10 rps	10 rps	0, 2, 5, 10 rps	0, 2, 5, 10 rps	10 rps
Scanning modes			10°, 45°, 90°	10°, 45°, 90°	
Remote control / radius			RC400 / 200 m	RC400 / 200 m	
Laser diode type / class	635 nm / Class 1	635 nm / Class 1	635 nm / Class 2	520 nm / Class 2	635 nm / Class 1
Dimensions (H x W x D)			212 x 239 x 192 mm		
Weight with battery	2.4 kg	2.6 kg	2.6 kg	2.6 kg	2.6 kg
Batteries (rechargeable)			Li-ion pack (A600)		
Battery life (rechargeable)			40 h @ 20 °C		
Environmental standard			IP67		
Operating temperature range	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C	–20 °C to +50 °C
Warranty			5 years		

* Operating range can vary slightly depending on working conditions and Rod Eye used.

Battery and Charging

1 A100 Li-ion Charger

(for Rugby CL-Series & 600 series, Combo)

#LG790417

2 A600 Li-ion Battery Pack, 4.8 Ah

(for Rugby 600 series)

#LG790415

3 A130 12 V Battery Cable, 4.5 m

Charge and run from auto battery for all Rugby lasers.

#LG790418

4 A140 Car Adapter Cable, 1 m

Charge inside the vehicle while driving. No down-time, unique power concept with solar panel for all Rugby lasers.

#LG797750

Rotating Laser Accessories

1 Flexi Rod with mm scale

#LG868132

2 CT 160 Tripod with screw clamps

#LG864856

3 CTP104 Tripod with fast clamps

#LG767710

4 Rugby Smart Adapter with 90°RE clamp for all Rugby lasers

#LG864855

5 Combo and Rod Eye Receiver bracket

#LG835666

6 Rugby Scope with adapter plate for Rugby CLA / CLI

#LG864859

7 Rugby Carrying case Flexible Name Tag

#LG868138

8 RC400 Remote Control

Operates with Rugby 640 / 640G.

#LG790352

9 A240 Manual Slope Adapter

Used with Rugby 610.

#LG790434

10 A210 Ceiling Grid Target

Used with Rugby 640.

#LG732791

11 A210G Green Ceiling Grid Target

Used with Rugby 640G.

#LG849525

Leica Rugby Receivers

For all Rugby lasers

1 Rod Eye 120 Basic and Bracket

Great receiver for all general construction applications. Detection window of 7 cm.

#LG789922

2 Rod Eye 120G Digital and Bracket

Designed to capture the green laser beam. Detection window of 7 cm.

#LG844745

3 Rod Eye 140 Classic and Bracket

Standard receiver with arrow display. Detection window 12 cm.

#LG789923

4 Rod Eye 160 Digital and Bracket

Great receiver with digital readout. Detection window 12 cm.

#LG789924

Technical Data	Rod Eye 120G Basic	Rod Eye 120 Basic	Rod Eye 140 Classic	Rod Eye 160 Digital
Working diameter (laser dependent)	400 m	900 m	1,350 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 / Med / Low / Off
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
LED display	✔	✔	✔	✔
Anti-strobe protection			✔	✔
Environmental standard	IP67			
Battery life (hours)	50+ (2x AA type)			
Dimensions (H x W x D)	173 x 76 x 29 mm			
Operating temperature range	–20 °C to +50 °C			
Warranty	3 years			

Leica Piper Series

The world's most versatile pipe laser

Built with a rugged aluminum housing, these pipe lasers perform powerfully even in tough jobsite conditions. The Leica Piper is specifically designed to fit inside a 100 mm (4 inch) pipe.

And there is more... The Piper Green Series has 4 times better laser visibility for longer working distances while achieving higher accuracy while remaining the smallest pipe laser in the market.

Piper 100 Package

Piper 100 in Carrying Case. Includes target, holder, remote control, 150 mm (6") Feet, Li-Ion Battery and Charger. Laser Class 3R.

#LG748704

Piper 100G Package

Piper 100G in Carrying Case. Includes target, holder, remote control, 150 mm (6") Feet, Li-Ion Battery and Charger. Laser Class 3R.

#LG6016058

Piper 200 Package with Alignmaster

Piper 200 in Carrying Case. Includes target, holder, remote control, 150 mm (6") Feet, Li-Ion Battery and Charger. Laser Class 3R.

#LG748710

Piper 200G Package with Alignmaster

Piper 200G in Carrying Case. Includes target, holder, remote control,150 mm (6") Feet, Li-Ion Battery and Charger.
Laser Class 3R.

#LG6016958

	PIPER100		PIPER200	
	3R	**3R GREEN**	**3R**	**3R GREEN**
Laser beam color	Red	Green	Red	Green
Wave length	635nm	520nm	635nm	520nm
Laser class	3R	3R	3R	3R
Max. average radiant power	4.75mW	4.8mW	4.75mW	4.8mW
Working range	<200m/650 ft			
Grade range	-10% to +25%			
Self-levelling range	-15% to +30%			
Line movement	6m at 30m / 20ft at 100ft			
Battery*	Li-Ion, up to 40h			
Charging time*	4h			
Operating temperature	-20°C to +50°C / -4°F to +122°F			
Dimensions (diameter x length)	96mm x 267mm / 3.9" x 10.5"			
Weight	2.0Kg / 4.4lbs			
Housing	Cast aluminium			
Protection class	IP68			
Wireless remote distance	Front 150m / 500ft			
	Back 10m / 35ft			
Self levelling accuracy**	+/-1.5mm at 30m / +/- 1/16" at 100ft			
Auto targeting	No		Yes	

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

Leica Piper Accessories

1 IR Remote Control

#LG746157

2 Target Assemblies

#LG915443 - blue
#LG725858 - red

3 PTC Target Assemblies - 100 mm / 4 in

#LG815613 - red
#LG950336 - blue

4 Trivet Assembly

#LG746158

5 Scope and Mount Assembly

#LG746160

Leica Machine Control

Leica Machine Receivers

LMR 240

240° machine receiver

The LMR 240 receiver provides accurate grade information for all visual machine control applications, with 240° reception from any rotating laser.

LMR 240
LMR 240 with magnetic mount, carrying case and batteries.
#LG773569

Technical Data	LMR240	LMR360
Range	250 m	200 m
Reception	240°	360°
Capture window	15 cm	25 cm
Accuracy (fine)	1.5 – 6 mm	6 mm
Accuracy (coarse)	10 – 15 mm	12 mm
Environmental standard	IP67	IP67
Battery type	3x AA batteries	NiMH rechargeable
Battery life	120 – 160 h	30 h
Weight	1.9 kg	1.8 kg
Mounting	Magnetic	Magnetic / Clamps
Remote display	–	✔
Remote range	–	30 m

LMR 360

360° machine mounted receiver

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 360R with Clamps and LMD360R Remote
LMR 360 with mounting clamps, carrying case, NiMH batteries, charger and LMD 360R remote.
#LG6003352

LMR 360R with Magnets and LMD360R Remote
LMR 360 with magnetic mounts, carrying case, NiMH batteries, charger and LMD 360R remote.
#LG6003353

Optical Levels

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

Unique. Accurate. Simple.

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.

NA320

Automatic level in carry case, with 20x magnification.

#LG840381

NA324

Automatic level in carry case, with 24x magnification.

#LG840382

NA332

Automatic level in carry case, with 32x magnification.

#LG840383

Technical Data	NA320	NA324	NA332
Magnification	20x	24x	32x
Angle measurement		360°	
Standard deviation (per km double-run)	2.5 mm	2.0 mm	1.8 mm
Shortest target distance		<1.0 m	
Dust / Water protection		IP54	
Working temperature		–20 °C to +40 °C	
Weight		1.5 kg	
PROTECT service offering		Manufacturer's Warranty: Lifetime No Cost period: 1 year	

Leica NA500 Series

Engineered for professionals by experts

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.

NA520

Automatic level in carry case, with 20x magnification.

#LG840384

NA524

Automatic level in carry case, with 24x magnification.

#LG840385

NA532

Automatic level in carry case, with 32x magnification.

#LG840386

Technical Data	NA520	NA524	NA532
Magnification	20x	24x	32x
Angle measurement		360°	
Standard deviation (per km double-run)	2.5 mm	1.9 mm	1.6 mm
Shortest target distance		<1.0 m	
Dust / Water protection		IP56	
Working temperature		–20 °C to +50 °C	
Weight		1.5 kg	
PROTECT service offering		Manufacturer's Warranty: Lifetime No Cost period: 2 years	

Leica NA300 and NA500 Accessories

1 CTP104 Tripod with fast clamps

Aluminium tripod with shoulder strap and fast clamps, medium weight. Complies with NA Levels

#LG767710

2 CLR104 Telescopic Level Staff

CLR104 Telescopic Level Staff, 5 m length, 5 Sections, inverse reading

#LG743420

3 CLR102 Telescopic Level Staff

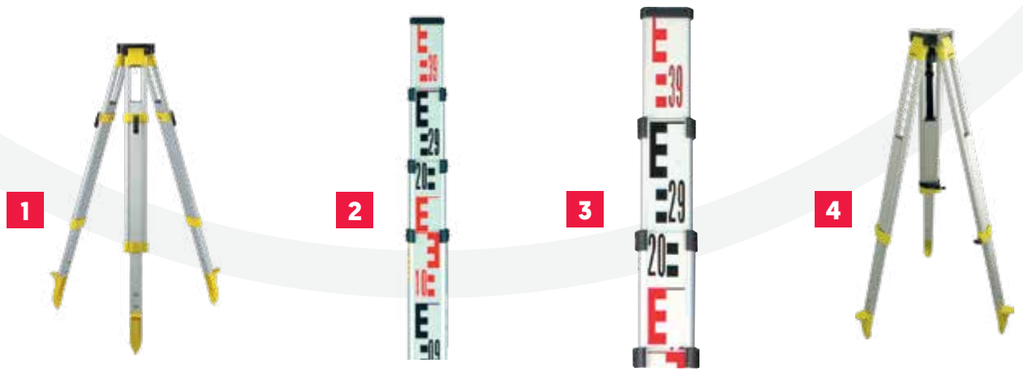
5 m length, 4 sections, E-graduation front, mm-graduation back. Complies with NA Levels

#LG727588

4 CT160 Tripod with screw clamps

CT 160 Tripod with screw clamps. Complies with NA Levels

#LG864856



Leica NA700 Series

Built for builders, engineers and surveyors

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. What does this add up to? Reduced work downtime, and higher productivity, resulting in reliability and accuracy at an extremely reasonable price.

In every Leica NA700 series level lies over a century of research and development from forefathers Kern Swiss and WILD Heerbrugg. Continuous application of the most modern technology has led to Leica Geosystems of today.

NA720

Automatic Level 20x telescopic magnification. The automatic level for all applications on the construction site.

#LG641982

NA724

Automatic Level 24x telescopic magnification for improved accuracy. Reliability and robustness for the demanding construction user.

#LG641983

NA730 plus

Automatic Level 30x telescopic magnification. The most precise. Meets the highest standards in construction, engineering and topographic surveys.

#LG833190

Technical Data	NA720	NA724	NA730 plus
Magnification	20x	24x	30x
Angle measurement		360° / 400 gon	
Standard deviation (per km double-run)	2.5 mm	2.0 mm	0.7 mm
Dust / Water protection		IP57	
Working temperature		–20 °C to +50 °C	
Weight		1.6 kg	1.7 kg
PROTECT service offering		Manufacturer's Warranty: Lifetime No Cost period: 2 years	

Accessories

1 CT160 Tripod with screw clamps

CT160 Tripod with screw clamps. Complies with NA Levels

#LG864856

2 CLR102 Telescopic Level Staff

5 m length, 4 sections, front side with E-graduation and back side with mm-graduation.

#LG727588

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Leica NA2 / NAK2

The classical level

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.

NA2

Universal automatic level magnification 32x standard deviation per 0.7 mm (double-run levelling, depending on staff and technique).

#LG352036

NAK2 (400gon)

Magnification: 32x Standard deviation per km 0.7 mm (double-run levelling, depending on staff and technique).

#LG352039

NAK2 (360 degrees)

Same as before, but horizontal circle 360 degrees, optical scale interval 10', reading by estimation 1'.

#LG352038

Technical Data	NA2	NAK2
Magnification	32x FOK73 eyepiece (optional): 40x	standard: 32x FOK73 eyepiece (optional): 40x
Angle measurement	–	360° / 400 gon
Standard deviation (per km double-run)	0.7 mm/km (0.3 mm with parallel-plate micrometer)	
Dust / Water protection	IP53	
Working temperature	–20 °C to +50 °C	
Weight	2.4 kg	
PROTECT service offering	Manufacturer's Warranty: Lifetime No Cost period: 3 years	

Accessories

1 FOK73 40x Eyepiece

For NA2 / NAK2, exchangeable against standard eyepiece.

#LG346475

2 GPM3 Parallel-Plate Micrometer

In container, measuring range 10 mm.

#LG356121

3 GOA2 Autocollimation Eyepiece

For all instruments.

#LG199899

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iCON Construction Portfolio

Road, civil engineering, and building construction projects continue to become more demanding due to their complexity and increased pressure to complete everything correctly on time. Today's digital construction industry demands efficiency and quick decision-making to stay on track and minimise rework.

Leica iCON Construction Portfolio has you covered no matter where in the construction process you work. Our digital workflows increase speed, performance, and accuracy improving overall construction execution.

Software solution for heavy construction

Leica iCON site

The Leica iCON site software is a user-friendly tool designed for heavy construction tasks and aligns with the industries workflows and common practices. It simplifies your everyday jobs like measuring, stakeouts, as-built checks, and reporting. Designed with a customer-centric approach, it ensures your tasks are efficiently managed and executed, making your construction work smoother and more productive.

Our customers' most favourite applications


Measure


Stakeout


Volumes & Surfaces


Cut & Fill


Roading


Slopes


Excavator


Milling

Build with the user in mind!

Engineered with the user at its core, the Leica iCON site software aims to digitalise the most common construction workflows, delivering intuitive and robust solutions that transform the way our construction customers work onsite. Our constant updates and improvements demonstrate our commitment to empowering the heavy construction industry to achieve more efficient, productive and environmentally friendly operations.

Foreman solution

The Leica iCON site software offers a foreman solution that helps site managers instantly increase site productivity by checking the efficiency of the machines and site personnel with an easy-to-use in-cab display (any Leica iCON field controller), make checks on whether your project is on time and on specification. With Leica iCON site you can carry out accurate as-built checks, stakeouts, grade checking, volume calculations and reporting.

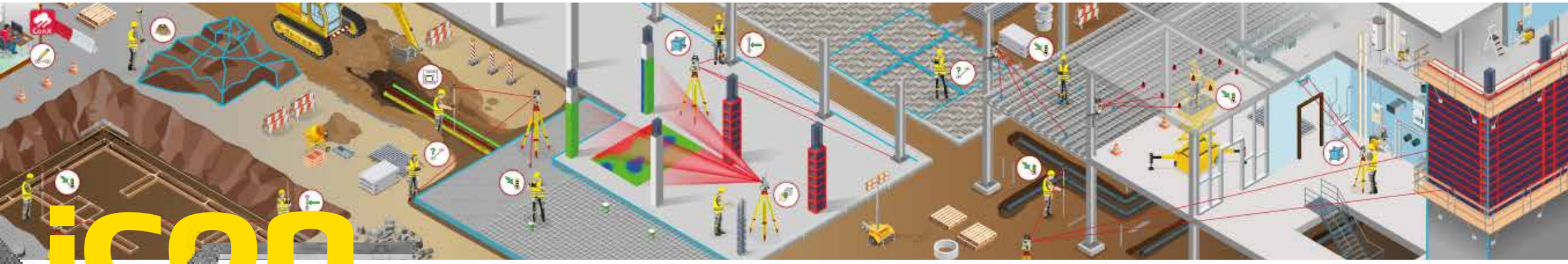
Machine Productivity

The Leica iCON site software has expanded its functionality beyond traditional construction surveying tasks and serves as an easy tool for machine control and guidance applications. The iCON site excavator system is an optimal solution for optimising earthmoving jobs executed by compact excavators. Utilising one of the Leica iCON Smart Antennas, the iCON site milling application supports differential milling during road renovation works. Furthermore, the software provides entry-level machine guidance solutions for graders, dozers, and scrapers, for quick and accurate grading tasks.

Cloud Connectivity

The distance between the office and the construction site is significantly bridged, thanks to Leica ConX and its cloud connectivity capabilities that benefit various individuals on site. It enables real-time data sharing, promoting faster and more precise decision-making for project and site managers. Meanwhile, cloud data storage mitigates the risk of data loss or downtime, providing both convenience and peace of mind. Work progress and reports are instantly available in the office, while construction workers can conveniently receive model updates within minutes.

Field Software - Leica iCON Build



Leica iCON Build

The complete solution for all positioning and measuring tasks on site

Leica iCON. Understanding construction.

Leica iCON build provides unmatched versatility and flexibility.

It enables you to carry out all positioning related tasks with just one solution. In addition, each iCON build application offers unique features and benefits, performance and accuracy.

Customize and extend your iCON field toolbox.

"EXTEND YOUR BUSINESS TO EARTHWORKS"

iCON build is part of the unique iCON field toolbox, providing you with one solution for all your construction tasks across the entire job site. iCON field offers you the possibility to extend and customize applications according to your needs.

www.leica-geosystems.com/icon

Sketching

Applications

- Point Pilot for fast and intuitive input of plan dimensions
- Create points, arcs, lines, anchor bolts, patterns etc. within seconds
- Create centre points, mid points and intersections points from design data quickly and easily

Benefits

- Easily replicate digital blueprints
- Fix incomplete data in the field by adding missing structures
- Immediate response to changes on site
- Update plans to reflect true situations

Layout Lines

Applications

- Layout control lines, parallels, perpendiculars or arcs and align structures in relation to them
- Apply horizontal and vertical offsets
- Stake out strings to mark elevation for curb reference

Benefits

- Aligning columns and anchor bolt patterns easy and fast
- Simply rebuild and extend incomplete structures
- Monitor offset value to speed up form work erection
- Repeatable positioning of profile boards and precise transfer of alignments eliminating risk of board damage

Volumes

Applications

- Calculate volume of a stockpile or pit, comparison between surfaces or to the elevation
- Apply compaction factor in relation to your material
- Read out balanced site elevation

Benefits

- Accurate and flexible volume calculations, independent of size or shape
- Calculation of truck loading considering compaction factors
- Balance out Cut & Fill for optimised material and machine usage
- Monitor ongoing progress of earthworks

Checks

Applications

- Check distances (horizontal, vertical, sloped)
- Check grades and angles
- Check area and perimeter in 2D and 3D
- Info panel shows all results at a glance supported with graphics in map

Benefits

- Verify on site correct placement of walls, formwork, columns, pipes, etc.
- Decide in the field based on facts rather estimates
- Precise input for pre-fabrication of manholes, ventilation systems, windows or orders of sand, pavement, etc.

Layout Points

Applications

- Simply lay out sketched or imported points directly from the map
- Intuitively navigate to selected hanger, slit, insert, conduit, outlet, etc.
- Auto-select next point from list or the nearest from current location

Benefits

- Optimised in/out, left/right display via split screen and viewing options
- Colour code clearly indicates quality of laid out points
- Integrated tolerance checks increase precision and reduce errors Important point info available as code in info panel, e.g. "3/4" insert"

As-Built

Applications

- Capture points, lines or arcs in one step with immediate graphical representation
- Apply codes per point and store measurements automatically
- Unique Start/Stop line feature accelerates line creation

Benefits

- Reduce site visits by visually verifying the measurements in the field
- Assign as-built data to individual layers while collecting points
- Back-up your control lines
- Store accurate 3D data as base for any CAD/BIM office operation or architectural planning

Software solution for building construction

Leica iCON Build

Working in today's digital building construction industry demands efficiency and quick decision making to stay on track and minimise rework. Leica iCON build construction software provides versatility and flexibility for field crews to conduct layout, as-built and verification tasks on projects. Improve speed, performance and accuracy with just one custom built construction software.

Get more out of your construction data by collaborating with our leading software partners.

GeoCloud Drive · Bricsys® · BLUEBEAM · AUTODESK. · PROCORE · BIMPLUS BY ALLPLAN

Optimised for the building construction industry, Leica iCON build is specifically designed to streamline digital layout, as-built updates and verification tasks, making it suitable for a diverse array of construction trades.

Job site preparation · Foundations · Structures · MEP and HVAC · Exteriors and facades

Intuitive map views and in-field preparation

Leverage intelligent map controls on 2D, 3D, and BIM design data, coupled with Point Lists, File & Layer controls for efficient data management. These intuitive tools, enhanced with Split Screen and 3D graphics, provide secure decision making and clear data representation on construction site. For in-field data preparation, swiftly generate or adjust design data to reflect on-site changes, fostering immediate adaptability.

Exceptional layout functionality

Simply and accurately layout points, lines and arcs from 2D, 3D and BIM File formats with optimised views and colour coded quality indicators and tolerance checks to ensure a fast and accurate layout every time.

Enhance workflows further with inbuilt smart workflows to auto-stake layout positions for hangers, inserts, and wall penetrations.

As-built and Checks

Capture points, lines or arcs in one step and store millimetre accurate 3D data for progress tracking and completion. Verify correct on-site placement of walls, formwork, columns, pipes, etc., for in-field decisions where all results are immediately visible within the map views.

Reporting

Export accurate data based on true field results or application-based PDF reports for project progress tracking, documentation of existing conditions and necessary design updates.

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.

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

Get more out of your construction data by collaborating with our leading software partners.

GeoCloud Drive · Bricsys® · BLUEBEAM · PROCORE · AUTODESK® CONSTRUCTION CLOUD · BIMPLUS BY ALLPLAN

Optimised for the building construction industry, Leica iCON trades is designed to streamline digital construction and MEP layout, as-built and inspection tasks for a diverse array of construction trades.

Foundations · Structures · MEP and HVAC · Interior fitout

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 preparation, 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.

Visual Measurement Technology

The visual measurement technology ensures that the device quickly recognises the unique pattern of red dots on the Leica vPole. It doesn't matter which direction you are moving it in, the Leica iCON iCS50 and the vPole remain securely connected at all times. This increases efficiency and avoids errors.

Manual Total Stations

Leica iCON iCB50

Leica Geosystems' new manual construction total station, the Leica iCON iCB50, simplifies your first step from conventional analogue layout methods to modern digital techniques which are needed for modern BIM processes. Easy-to-use and designed specifically for applications in the building construction industry, the iCB50 is usable with minimal training of the existing workforce, making you ready for the no-tapes and no-strings approach to construction layout.

Leica iCON iCB50 & iCON build

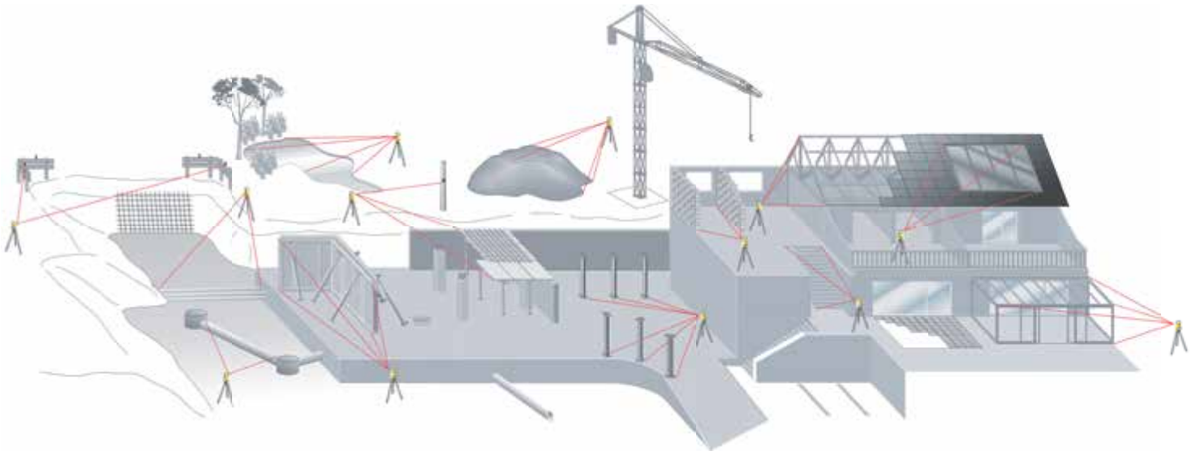
Leica iCON 2" iCB50 Manual Total Station & iCON build Field Software.

#LG6015020

*More packages available. Please contact your responsible sales contact.

All Leica iCON iCB50 kits contain:

- Total Station
- USB stick
- Tribrach
- Tripod
- Charger
- Batteries
- Prism
- Pole
- Pole clamp for controller
- Bi-pod
- Total Station carry case
- Controller with accessories
- Controller carry case
- Field Software



Leica iCON iCB70

The Leica iCON iCB70 manual construction total station makes you layout more points per day on your construction project with either prism or reflectorless measurements. Featuring mobile data capability, the iCB70 lets you transfer construction data between the office and the instrument directly, keeping your project progress and plans constantly up to date, assuring that you do not miss any changes in design. Facilitating the move from conventional analogue layout methods to modern digital workflows, the iCB70 helps you to achieve the productivity and accuracies demanded by the building construction industry.

Leica iCON iCB70 & iCON build

Leica iCON 1" iCB70 Manual Total Station & iCON build plus Field Software.

#LG6015021

*More packages available. Please contact your responsible sales contact.

All Leica iCON iCB70 kits contain:

- Total Station
- USB stick
- Tribrach
- Tripod
- Charger
- Batteries
- Prism
- Pole
- Pole clamp for controller
- Bi-pod
- Total Station carry case
- Controller with accessories
- Controller carry case
- Field Software

Robotic Total Stations

Leica iCON iCR70

Leica Geosystems' robotic construction total station, the Leica iCON iCR70, allows users to prepare and execute construction tasks faster, simpler and more accurately. Designed for one-person operation, this robot gives you approximately an eighty per cent increase of productivity over other conventional layout practices. The iCR70 can be used by the existing construction workforce with minimal training and does not disrupt existing construction processes.

Leica iCON iCR70 & iCON build or iCON site & CC200 Tablet

Leica iCON 2" iCR70 Robotic Construction Total Station & iCON build Field Software & CC200 10" WIN Tablet.
#LG6013419

Leica iCON 2" iCR70 Robotic Construction Total Station & iCON site Field Software & CC200 10" WIN Tablet.
#LG6013424

*More packages available. Please contact your responsible sales contact.

All Leica iCON iCR70 kits contain:

- Total Station
- SpeedSearch, ATR, reflectorless mode
- Setup Pilot, Cube Search & Target Snap
- USB stick
- Tripod
- Tribrach
- Communication handle
- Charger
- Batteries
- Prism
- Pole
- Pole clamp for controller
- Bi-pod
- Total Station carry case
- Controller with accessories
- Controller carry case
- Field Software

Leica iCON iCR80 / iCR80S

The Leica iCON iCR80 construction total station keeps its 'eye' on only one thing: the user's target. Layout more points per day thanks to ATRplus, the most robust automated-aiming, lock and re-lock technology in the market. iCR80 is especially useful in congested sites with many distractions, such as reflections, machines and people moving around. Challenging and changing site conditions should not be an obstacle.

iCR80S

iCR80

Leica iCON iCR80 / iCR80S** packages:

Kit with Leica iCON iCR80 / iCON build / CC200
Leica iCON 2" iCR80 Robotic Construction Total Station & iCON build Field Software & CC200 10" WIN Tablet.
#LG6013433

Kit with Leica iCON iCR80 / iCON site / CC200
Leica iCON 2" iCR80 Robotic Construction Total Station & iCON site Field Software & CC200 10" WIN Tablet.
#LG6013439

* More packages available. Please contact your responsible sales contact.

** iCR80S R30 packages can be ordered by selecting the respective iCR80 R1000 package and changing the instrument to the iCR80S R30 article number in the ordering process.

All Leica iCON iCR80 / iCR80S kits contain:

- Total Station
- PowerSearch, ATRplus, reflectorless mode
- Setup Pilot, Cube Search & Target Snap, Prism Exclusion
- USB stick
- Tripod
- Tribrach
- Communication handle
- Charger, batteries
- Prism, pole
- Pole clamp for controller
- Bi-pod
- Total Station carry case
- Controller with accessories
- Controller carry case
- Field Software

Leica AP20 AutoPole

Experience new heights in productivity with the world's smartest pole

Leica AP20 AutoPole is a revolutionary smart system for Leica robotic total station that solves three common workflow problems building and heavy construction professionals face daily:

- Total station locks to the wrong target.
- Points can be measured and stored with the wrong target heights.
- Time, effort and skill needed to ensure the pole is vertical while measuring and laying out.

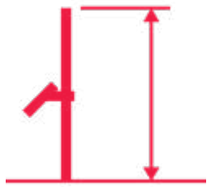
The AP20 AutoPole enables faster and more reliable layout, as-builts and other measurement tasks, which are completed with less mistakes, minimising rework and delays.

Use the Leica AP20 AutoPole in conjunction with:
- **iCON Field controllers** (running at least iCON field software 7.0): **CC170, CC180 and CC200**
- **iCON Robotic Total Stations** (connected to the iCON controller): **iCR70, iCR80S and iCR80**

LEICA AP20 AUTOPOLE VARIANTS

Article no.	Description
#LG922835	AP20 H
#LG922836	AP20 ID
#LG922837	AP20 T
#LG922838	AP20
#LG913899	CRP4 Metric Pole
#LG922838	CRP5 Feet Pole

TargetID
The TargetID functionality makes sure that your total station is locked to your target and remains locked until your job is done.



PoleHeight
The PoleHeight feature of the AP20 AutoPole automatically updates the correct pole height within the iCON field software every time you adjust your pole height.

Tilt Compensation
Work smarter, not harder. The AP20 AutoPole tilt compensation provides flexibility to measure or layout points without the need to level the pole.

Construction Layout Tools

Leica iCON iCT30

Layout Tool for Construction

Increased complexity in construction projects and the strong trend towards digitalisation and Building Information Modelling (BIM) in the Building Construction industry make digital layout methods and processes crucial. Facilitating the move from conventional analogue measurement methods to modern digital layout techniques, Leica Geosystems developed the easy-to-use construction layout tool Leica iCON iCT30 to bring digital and automated layout technology to any construction site.

With a measurement range of up to 80 m and an angular accuracy of 9", the iCT30 meets most requirements for layout applications. Forget about disturbances such as reflections, interruptions of line of sight or congestions that slow down the layout process. The iCT30 is specifically developed to robustly deal with difficult site conditions.

Leica iCON iCT30 & iCON build & CC170 Tablet
Leica iCON 9" iCT30 Construction Layout Tool & iCON build Field Software & CC170 7" WIN Tablet.
#LG6015039

The Leica iCON iCT30 kits contain:

- Layout Tool
- Tribrach
- Tripod
- USB Stick
- Charger
- Batteries
- Prism
- Pole
- Pole clamp for controller
- Bi-pod
- Layout Tool carry case
- Controller with accessories
- Controller carry case
- Field Software

Leica iCON iCS20

Motorised Construction Tool

The Leica iCON iCS20 is an easy-to-use layout tool, serving a wide variety of professional applications. It is also suitable for users who want to move from traditional, manual layout 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, also reduce measurement complexity to a minimum.

Yes, it's that simple.

Leica iCON iCS20 - Laser Layout Package
#LG6018487

The Leica iCON iCS20 kit contains:

- Leica iCON iCS20
- Leica iCON trades for Layout software
- Charger for indoor use
- Leica CSX8 tablet incl. pouch
- RC10 remote control
- GZM3 target plate
- vTarget plates incl. stands
- vTarget stickers
- Carry case including backstraps
- Leica wooden tripod
- Leica GAD122 quick mount adapter

Leica iCON iCS50

Robotic Construction Tool

The robotic Leica iCON iCS50 is the state-of-the-art construction tool to perform both simple and complex layout tasks. It is characterised by the same features as the Leica iCON iCS20. However, in combination with the smart accessory Leica vPole, this becomes a very productive solution, as the time required for layout tasks, as well as the risk of errors, is reduced to a minimum.

Yes, it's that simple.

Leica iCON iCS50 - Robotic Layout Package
#LG6018488

Leica iCON iCS50 - Robotic Layout Pro Package
#LG6018489

The Leica iCON iCS50 kits contain:

- Leica iCON iCS50
- Leica iCON trades for Layout software*
- Leica iCON trades for Layout Pro software**
- Charger for indoor use
- Leica CSX8 tablet incl. pouch and holder
- GZM3 target plate
- vTarget plates incl. stands
- vTarget stickers
- Carry case incl. backstraps
- Leica wooden tripod
- Leica GAD122 quick mount adapter
- Leica vPole incl. bipod*
- Leica vPole incl. pole tilt compensation and auto-height**

* Layout package only
** Layout Pro package only

Leica vPole

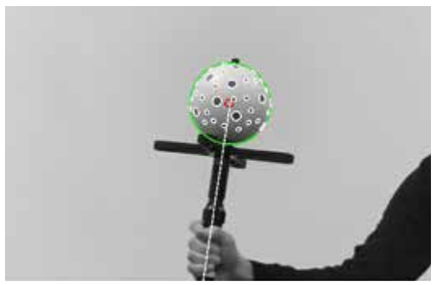
The all-new layout experience with visual-based target tracking

The unique visual-based target tracking is very robust and ensures that the Leica iCON iCS50 always stays connected to the Leica vPole. It also automatically compensates for pole tilt and automatically detects the pole height. This allows you to layout significantly more points, including hidden points. At the same time, the Leica vPole is very light and therefore comfortable to handle.

Yes, it's that simple.

Visual Measurement Technology

The sensor's camera picture constantly observes the sphere of the Leica vPole with its unique dot pattern and precisely calculates its position from any direction, accounting for tilt and orientation. This process is extremely fast, ensuring a consistently robust connection between sensor and sphere.



Unique Freedom of Movement

As the orientation of the sphere is recognised from any position, you can move freely around the construction site and walk directly towards your target without having to orientate yourself to the sensor. This is easier, faster and safer.

Leica iCON Controllers

Robust, lightweight controllers for every construction site.

The Leica iCON portfolio has a range of field controllers to choose from, depending on your performance requirements, data volume and available budget. Regardless of your choice, each controller ensures a resilient, construction-tailored tablet with Windows 10 operating systems and the Hibernate mode for an efficient battery usage.

Leica iCON CC200

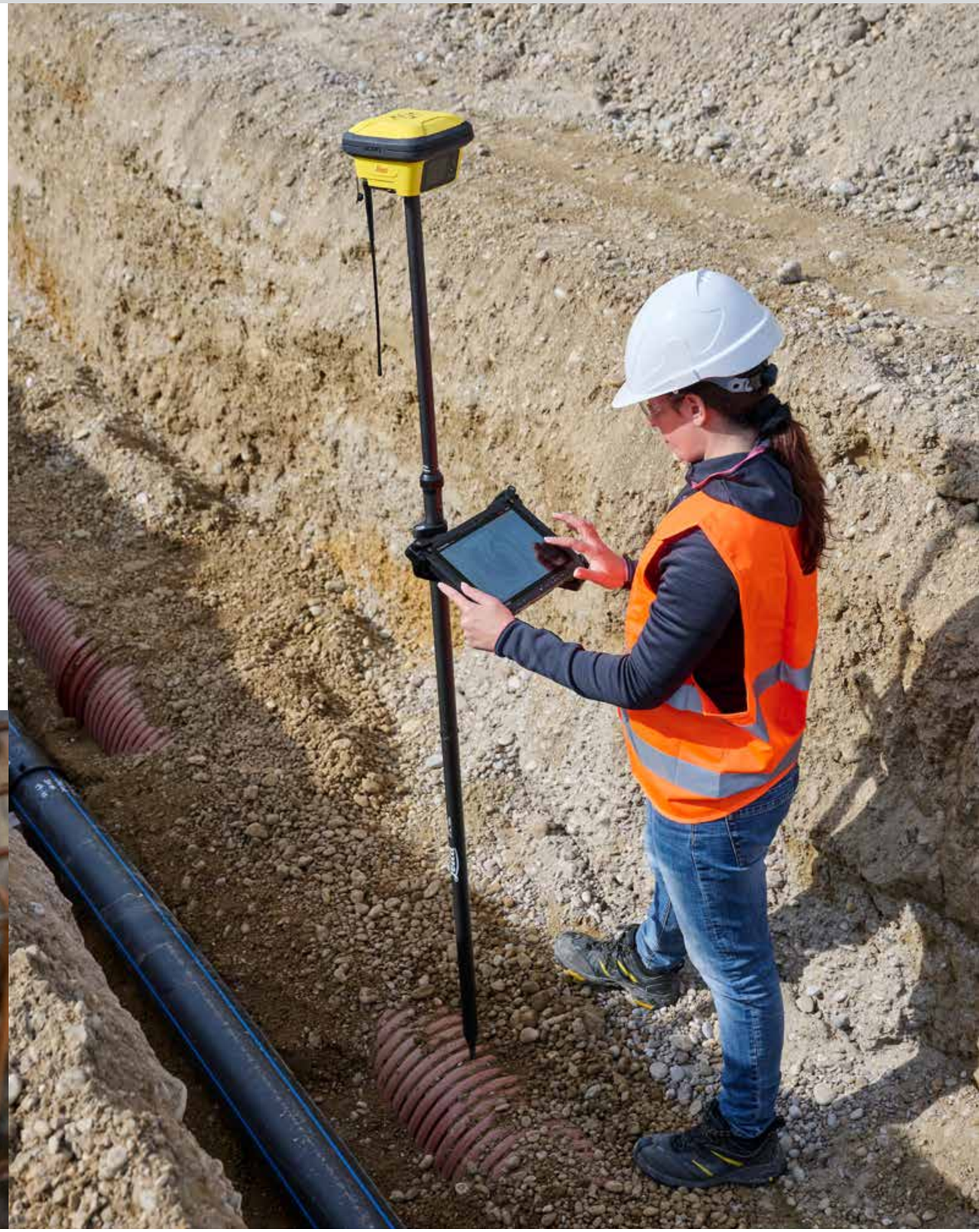
A durable field controller designed for extended operation periods and scenarios demanding substantial data handling. It features a portrait mode for enhanced visibility, further catering to specific application needs.

Key features:

- Anti-reflective 10" screen
- Up to 12 hours operating time*
- 16 GB RAM capacity
- Gloves and rain modes

*May vary with environmental conditions, application and sensor used

#LG1018577



Leica iCON CC180

Sturdy field controller with powerful characteristics that combine compactness and performance. Ideal for construction professionals that execute daily construction surveying tasks.

Key features:

- 8" LCD screen
- Up to 8 hours operating time (pole use)*
- Intel® 12th Generation processors
- Finger/rain, glove and stylus operation modes

*May vary with environmental conditions, application and sensor used

#LG999243

Leica iCON CC170

Versatile, lightweight and small-sized field controller that weighs less than a kilo. Ideal for moderate data handling simple measuring and stakeout/layout tasks.

Key features:

- 7" sunlight-readable screen
- Up to 6 hours operating time*
- Hot-swappable batteries
- Optional Long-range Bluetooth®

*May vary with environmental conditions, application and sensor used

#LG967016 LTE Worldwide, #LG967017 LTE Worldwide with Long-range Bluetooth®

Leica iCON GNSS Sensors

Construction GNSS Smart Antennas

Leica iCON gps 70 Series

Ultimate performance for your construction site

The Leica iCON gps 70 series represents the most efficient construction GNSS rovers. With the iCON gps 70 T you can measure and stakeout points quicker than ever before without the need to keep the pole vertical and level the bubble. The combination of the latest GNSS technology and inertial measurement unit (IMU) equips the iCON gps 70 T with permanent tilt compensation and makes it resistant to any magnetic interference. Being fully calibration-free, the iCON gps 70 T is ready when you are – anytime, anywhere.

- Permanent tilt compensation
- Calibration free
- Resistant to magnetic interferences
- Compact and lightweight housing
- Superior GNSS Technology for maximum accuracy and reliability. Features Leica SmartTrack+ and SmartCheck+ and Leica xRTK.
- HxGN SmartNet PPP - access to global PPP with no dependency on RTK coverage when working in remote areas and RTK bridging to fill interruptions.
- Unique flexible software licencing and feature upgrade concept. You can order packages or individual licences when you need them, investing when you need to.

iCON gps 70 (T) Rover Packages (site or build Field Software)*

iCON gps 70 GNSS SmartAntenna Value Kit; includes iCG70 Value Package & iCON site Field Software & CC200 Controller & Pole Accessories.
#LG6013901

iCON gps 70 GNSS SmartAntenna Performance Kit; includes iCG70 Performance Package & iCON site Field Software & CC200 Controller & Pole Accessories.
#LG6013902

iCON gps 70 T GNSS SmartAntenna Value Kit; includes iCG70 T Value Package & iCON site Field Software & CC200 Controller & Pole Accessories.
#LG6013926

iCON gps 70 T GNSS SmartAntenna Performance Kit; includes iCG70 T Performance Package & iCON site Field Software & CC200 Controller & Pole Accessories
#LG6013927

iCON gps 70 GNSS SmartAntenna Value Kit; includes iCG70 Value Package & iCON build Field Software & CC200 Controller & Pole Accessories
#LG6013935

iCON gps 70 GNSS SmartAntenna Performance Kit; includes iCG70 Performance Package & iCON build Field Software & CC200 Controller & Pole Accessories
#LG6013936

iCON gps 70 T GNSS SmartAntenna Value Kit; includes iCG70 T Value Package & iCON build Field Software & CC200 Controller & Pole Accessories
#LG6013950

iCON gps 70 T GNSS SmartAntenna Performance Kit; includes iCG70 T Performance Package & iCON build Field Software & CC200 Controller & Pole Accessories
#LG6013951

*More packages available. Please contact your responsible sales contact

Leica iCON gps 160

All-in-one and one for all

The Leica iCON gps 160 is the most versatile GNSS SmartAntenna for the construction industry, thanks to its flexibility on supporting you daily on various tasks on site. The iCON gps 160 features a large colour display with clear navigation steps that enables a quick and easy setup without additional hardware. And for customers that want to have it all, this SmartAntenna is also available with tilt compensation for even more convenience.

Features:

- Integrated colour display for easy and fast setup
- Rugged aluminum housing and IP66 / IP68 protection for the harshest site conditions
- Latest RTK technology for fast initialisation and reliability
- HxGN SmartNet PPP - access to global PPP with no dependency on RTK coverage when working in remote areas and RTK bridging to fill interruptions
- New TR489-UHF radio that supports both 400 MHz and 900 MHz radio frequencies (USA/CAN only)
- Integrated global modem
- SmartGet Here, BasePilot, setup Wizard and other smart features
- Optionally available with calibration-free tilt compensation
- Seamless integration into iCON field solutions

Article no.

#LG954189 iCON gps 160 Smart Antenna LTE Value
#LG954190 iCON gps 160 Smart Antenna LTE Performance
#LG954192 iCON gps 160 Smart Antenna LTE Ultimate
#LG954194 iCON gps 160 Smart Antenna LTE&Radio Base
#LG954196 iCON gps 160 Smart Antenna LTE&Radio Value
#LG954197 iCON gps 160 Smart Antenna LTE&Radio Perf.
#LG954198 iCON gps 160 Smart Antenna LTE&Radio Ulti.

#LG954205 iCG160 T Smart Antenna LTE&Radio Value
#LG954206 iCG160 T Smart Antenna LTE&Radio Perf.
#LG954208 iCG160 T Smart Antenna LTE&Radio Ulti.

Leica iCON gps 30

Entry-level GNSS RTK rover

With the Leica iCON gps 30, Leica Geosystems introduced an easy-to-use and economic solution for GNSS-based construction measurement tasks. Equipped with Leica iCON field software running on either the Leica iCON CC170/CC180/CC200 controller, the iCON gps 30 solution provides consistently accurate positions through advanced RTK technologies. Designed with the operator in mind, the iCON gps 30 is an exceptionally lightweight and compact solution.

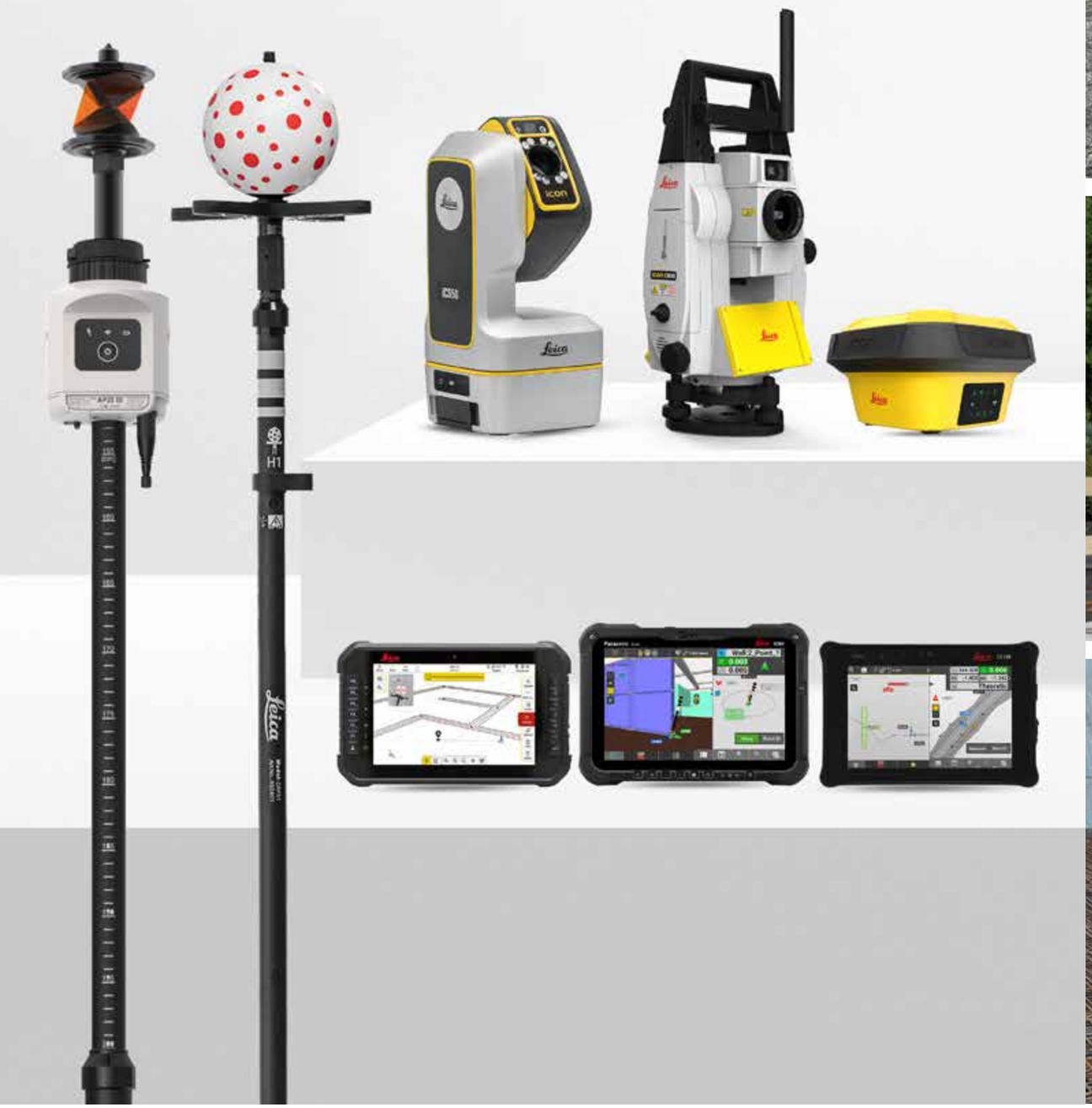
- Easy to use and equipped with the construction tailored Leica iCON site field software, the iCON gps 30 facilitates your entry into the Leica iCON GNSS portfolio.
- The light, compact and balanced design makes it comfortable to use and carry in the field.
- With the highest level of position reliability in its class, the iCON gps 30 delivers accurate results and increases productivity.

Basic iCG30 Global Kit; includes iCG30 & iCON site entry Software & CC170 Tablet PC & Pole Accessories

#LG6015691

Leica iCON - Understanding Construction

The Leica iCON portfolio has been providing simplicity, durability, efficiency and construction-focused solutions for more than 10 years. We have been evolving our building and heavy construction offering to meet your changing needs on site. And we achieved this by understanding construction; understanding what it means to be in the field with you, day in, day out. The world may know us for our innovative solutions, but the thing we're most proud of building is trust.



Detection Systems

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

Leica DSX Utility Detection Solution

Survey-grade utility detection and mapping

Quickly and easily locate and map underground utilities with the new Leica DSX non-destructive detection solution. DXplore software delivers instant, clear and accurate visualisation of utilities in the field. Integrating the most reliable, simple and best workflow for utility detection and mapping. It has plug'n'play solution with positioning sensors and easy export to machine control, delivering instant 3D utility map and assuring the most productivity.

Starter Kit	Surveyor Kit
#LG6015139 Starter Kit DSX DXplore Perpetual • DSX Utility Detection System • CT1000 Controller • DXplore Build (Perpetual) • 2yr DSX Basic CCP • 2yr DXplore Build CCP	**#LG6015141 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)
#LG6015140 Starter Kit DSX DXplore Subscription • DSX Utility Detection System • CT1000 Controller • DXplore Build (one-year subscription) • 2yr DSX Basic CCP	**#LG6015142 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

DSX Utility Detection System

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 or 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)

DXplore Software

DXplore Build

Perpetual
#LG880850

One-year subscription
#LG5309894

One week rental license
#LG881125

DXplore Survey

Perpetual
#LG881123

One-year subscription
#LG5309895

One week rental license
#LG881126

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		✓

CT1000 Controller

with LTE
#LG880920

without LTE
#LG880929

Accessories

Grid Assistance square
#LG880909

PS1500 Pole support (for positioning system)
#LG938361

AB1000 Accessory Bag
#LG880867

RBM1000 Ram Ball Mount Interface
#LG891410

TC1000 Tablet Cradle
#LG891411

DSX battery Li-ion 14.8 V / 5.8 Ah
#LG793975

DSX battery charger
#LG852413

DSX Transportation Case
#LG983719

Leica DS2000 Utility Detection Radar

Uncovering safer, faster, more

The Leica DS2000 Utility Detection Radar finds all potential threats, including non-conductive pipes and fibre optics. This will lower the risk of accidently hitting underground assets. The DS2000 increases safety, speeds up the work process and lowers the asset management cost with the ability to prevent hazardous outages and collect more information. Making your business safer, faster, and more efficient.

Utility Detection Radar and Controllers

Starter Kit DS2000, 4 Wheel Utility Radar
Starter Kit DS2000-4, 4 wheel Radar Utility Detector, Battery Pack, Charger, USB Stick and CT1000 Controller.
#LG6011496

Surveyor Kit DS2000
DS2000, 4 wheel Radar Utility Detector, Battery Pack, Charger, USB Stick, CT1000 Controller and GNSS Antenna Support.
#LG6011498

Accessories

AS2000 GNSS Antenna Support
#LG847113

Leica DT100 Precision Locator

Precision locating for utility tracing

The Leica DT100 provides our most advanced utility tracing system. With the ability of Intelligent signal processing, flexible operating modes and a range of accessories to provide optimum performance.

Leica DT100 and DE100 Solution
The new Leica DT100 sets a new standard for precision locators, offering a robust solution for construction, utilities, and surveying. Paired with the DE100 transmitter, it ensures high accuracy, ease of use, and real-time feedback. Its intuitive interface simplifies complex location tasks, making it ideal for both new and experienced users.
The ergonomic design enables comfortable long-term use, while intelligent signal processing and flexible operating modes provide outstanding accuracy and reliability for locating underground utilities.

Leica DT100 system is integrated with the DE100, a 10-watt signal transmitter capable of delivering up to 1A of maximum current, enhancing signal transmission along utilities. It features dual output ports, allowing for the connection of two accessories simultaneously.

#LG6019209 Leica DT100 + DE100 Surveyor Package
#LG6019362 Leica DT100 Precision Locator Package
#LG6019363 Leica DE100 10 Watt Transmitter Package

DT100 Precision Locator

Technical Specifications

MODE	DT100
Frequency Range	50Hz - 200kHz
Factory Standard Frequencies (Hz)	- Power: 50,60, 150, 180, 450, 540 - Grouped Power: 50,60 (+odd harmonics up to ~1.1kHz) - Radio: bandwidth approx 13kHz - 28kHz - Cathodic: - 120Hz for 60Hz - 100Hz for 50Hz - Active: 256, 263, 440, 512, 560, 577, 640, 815, 870, 940, 1.02k, 1.17k, 3.14k, 4.1k, 8.01k, 8.19k, 9.82k, 12.1k, 16.3k, 22.5k, 29.4k, 32.8k, 44.5k, 66.1k, 88.8k, 99k, 132k, 200k - Sonde: 512, 640, 8.19k, 32.8k
Active Locate Mode	- Twin - Single Peak - Null - Twin Sweep (Omnidirectional) - Single Sweep (Omnidirectional)
Gain Control	Manual gain using "↑" or "↓" buttons
Alerts	- Strike Alert - Swing Warning - Overead Cable
Frequency Analyzer	Determines the best frequency option based on environmental interference
Connectivity	Bluetooth low energy (BLE)
Languages	22 languages user selectable
Environmental Protection	IP65
Operating Temperature	-20°C to +50°C / -4°F to +122°F
Storage temperature	-32°C to +70°C / -25°F to +158°F
Battery	Li-Ion Battery Pack 3200mAh - 11.1V, 35.5Wh 6 X AA Alkaline Battery
Battery Life	- With Lithium: 15 hours continuous - 30 intermittent - With Alkaline: 5 hours continuous - 10 intermittent
Weight with batteries	2.1kg - 4.8lbs

DE100 Signal Transmitter

Technical Specifications

MODE	DE100
Frequency Range	256Hz - 200kHz
Power Output	Up to 10 Watt with Li-Ion battery (1Watt above 45kHz) Up to 5 Watt with Alkaline battery
Current Max	1A - (0.5A Above 45kHz)
Factory Standard Frequencies (Hz)	- Direct Connect and Clamp: 256, 263, 440, 512, 560, 577, 640, 815, 870, 940, 1.02k, 1.17k, 3.14k, 4.1k, 8.01k, 8.19k, 9.82k, 12.1k, 16.3k, 22.5k, 29.4k, 32.8k, 44.5k, 66.1k, 88.8k, 99k, 132k, 200k - Induction: all listed above starting at 3.14kHz
Modes	Direct Connect, Clamp and Induction
Multimeter Function	Watts, Current, Ohms and Volts
Output	Dual Output for Clamp and Direct Connect
Warnings	- High Voltage - up to 100 V - visual indication - Destructive Voltage - > 100 V - visual indication
Autoshutdown	Selectable via settings menu
Available accessory	Clamp and Crocodile leads
Languages	22 languages user selectable
Environmental Protection	IP65
Operating Temperature	-20°C to +50°C / -4°F to +122°F
Storage temperature	-32°C to +70°C, / -25°F to +158°F
Battery	Li-Ion Battery Pack 6400 mAh - 14.8V , 94.7Wh 8 x LR20 Alkaline
Battery Life	- Lithium: 17 hours continuous - 34 hours intermittent - Alkaline: 10 hours continuous - 20 hours intermittent

Leica DD300 Connect

Utility Locator Solution for all users, basic to expert

The Leica DD300 CONNECT utility locator solution allows basic to expert users in the detection of underground pipes with ease-of-use, speed and accuracy, to improve safety by mitigating risks associated with anyone who is working on construction sites.
Thanks to the integration with DX Shield suite, users can achieve an integrated and comprehensive understanding of site activities to analyse data, create reports on product use, configure and maintain the device.

Main Features

- Bright LCD color screen with video tutorials
- Dual-power supply - Alkaline/Li-On batteries
- On-Off button for acquisition comfort
- Multiple acquisition frequences, supporting the 3kHz frequency

Leica DA300

1 Watt Signal Generator

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.

Software

For professionals looking to streamline utility locating operations, the Leica DD 300 CONNECT utility locator solution represents a single source solution.
DX Shield software provides a space for utility analysis and a convenient connection between locators to increase productivity and save time. DX Shield software allows you to gain a better understanding of task performance and site complexities with easy-to-use reports that provide a fast and convenient overview of product use, reducing utility strikes and saving direct repair costs and project downtime.

Technical Specifications

MODE	DD300 CONNECT
Power	50 / 60 Hz mains electrical and harmonics
Radio	15kHz to 60kHz
Auto	Power, Radio, 33kHz
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 0.1m to 7m 4 inches to 23 feet Sonde 0.1 to 10m Sonde 4 inches to 32.8 feet
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 X LR20 Alkaline Battery - Li-Ion as Optional
Battery operating time***	10 h
Dimensions (HxWxD)	765x290 x93mm / 30.12 x11.42x3.66 inches
Weight with batteries	2.86Kg / 6.3 lbs

MODE	DA300
Induction Mode Frequencies	32.768 (33) kHz / 8.192 (8) kHz
Power Output	Up to 1 Watt 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 x LR20 Alkaline Battery - Li-Ion as optional
Battery operating time **	15 h
Dimensions (HxWxD)	250 x 206 x 113 mm / 9.84 x 8.11 x / 4.45 inches
Weight with batteries	2.46Kg / 5.42 lbs

Leica DD100 Series Locators

Safe and fast location of underground utilities

The Leica DD100 series locators reduce the complexity normally associated with locating of buried utilities. The DD100 series automated pinpointing process improves the detection of utilities, reduces utility damage and increases workforce safety.

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 DA220 signal transmitter or range of accessories to achieve depth estimation, improved accuracy and application scope.

50 Hz #LG872938 / 60 Hz #LG872939

Leica DD130

For all professionals who need to accurately locate and trace buried utilities, the new 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 DA230 signal transmitter or range of accessories to achieve depth estimation, improved accuracy and application scope.

50 Hz #LG872940 / 60 Hz #LG872941

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.

#LG949120

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	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
Sonde	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 x LR6 (AA) Alkaline	6 x LR6 (AA) Alkaline	6 x LR6 (AA) Alkaline
Battery operating time**	15 h	15 h	15 h
Dimensions (H x W x D)	760 x 250 x 85 mm / 30 x 10 x 3.4 inches	760 x 250 x 85 mm / 30 x 10 x 3.4 inches	760 x 250 x 85 mm / 30 x 10 x 3.4 inches
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	1 year	1 year

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

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
#LG850278	Trace Rod 50M
#LG850279	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
#LG850280	Transmitter Clamp 100 mm (4"), Compatible with 33 kHz signal transmitters
#LG850281	Transmitter Clamp 80 mm (3.15"), Compatible with 256 Hz to 200 kHz signal transmitters

PROPERTY PLUG CONNECTOR
Used with the DA Signal transmitter to apply a trace signal to residential electrical supplies

Article No.	Description
#LG850286	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
#LG850288	Mini Sonde 33, 18 mm (0.7") diameter with a 33 kHz output. Working range 7 m (23ft)
#LG850289	Midi Sonde 8/33, 38 mm (1.5") diameter with an 8 kHz or 33 kHz output. Working Range 5 m (16.4ft)
#LG850290	Maxi Sonde 8/33, 55 mm (2.17") diameter with an 8 kHz or 33 kHz output. Working range 12 m (39.4ft)
#LG856131	Duct Sonde 33, 24 mm (0.95") diameter with a 33 kHz output. Working Range 5 m (16.4 ft)
#LG850291	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
#LG850276	Locator system carry bag for the DD locators, DA signal transmitters and accessories

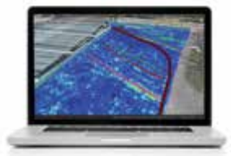
Batteries, Chargers and Cables

Article No.	Description
#LG845900	Leica DD SMART, DA Li-ion Battery
#LG790417	A100 - Li-ion Charger
#LG797750	A140 - Car Adapter Cable
#LG850287	Transmitter cable extension

Mode	DA175
Induction Mode Frequencies	32.768 (33) kHz / 8.192 (8) kHz
Power Output	Up to 1 Watt max. when connected to a buried service with an impedance of 300 Ω
Direct Connection Mode Frequencies	32.768 (33) kHz / 8.192 (8) kHz /512 Hz / 640 Hz
Environmental Standard	Cover Closed: IP67 Cover Open: IP65
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 x D alkaline (IEC LR20), supplied
Battery Operating Time	30 hrs intermittent use at 20 °C / 68 °F
Dimensions (HxWxD)	250 x 206 x 113 mm / 9.84 x 8.11 x 4.45 inches
Weight with batteries	2.5 kg / 5.5 lbs

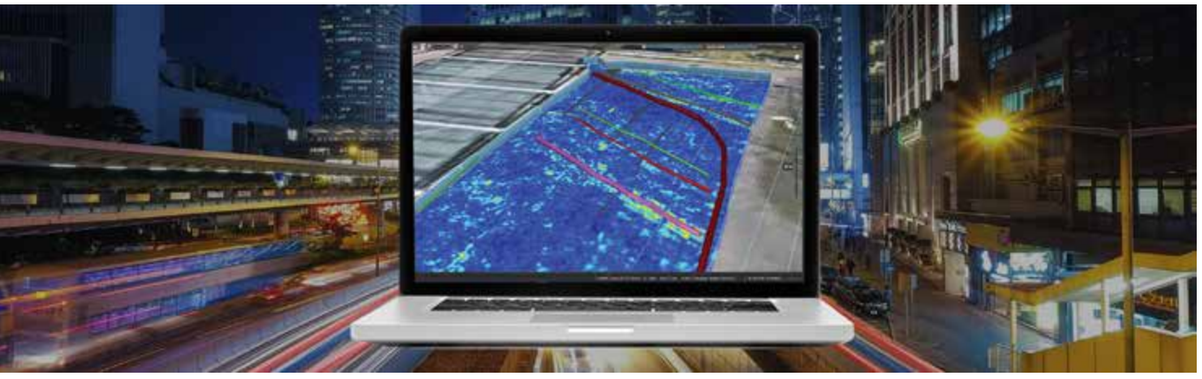
Detection Software and Services

Increase the efficiency and quality of your detection results, while storing your detection data with Leica Detection Software solutions. Leica Detection Software is designed to ensure easy use, high performance and fulfil your needs with utility avoidance and mapping applications.



IQMaps

The new frontier in GRP data analysis



IQMaps is a new post-processing software application for advanced GPR data analysis, which provides a fast interfacing between the user and the GPR data. Machine time has been reduced and, contemporarily, real-time processing and 3D visualisation have been introduced. It allows to easily process, analyse and inspect data from dense array radar systems. IQMaps provides a step by step approach to guide the user in performing the best and the quickest data analysis with the help of a customisable processing and analysis tool, both for skilled and not skilled users for utility mapping of large size projects, archaeological and environmental surveys.

IQMaps is available for Stream UP, Stream DP, Stream X, Opera Duo and RIS MF Hi-Mod.

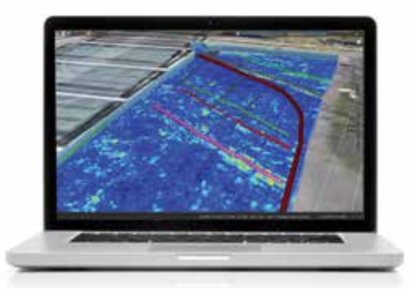
IQMAPS MAIN FEATURES

- Ease of use and productivity have been dramatically increased (up to 20.000 sqm in a working day)
- Real-time processing and 3D immersive visualisation
- Responsive and intuitive interface with big amount of data

IQMAPS BENEFITS

IQMaps is a game changer in terms of data visualisation speed and usability and data analysis because:

- Allows an immersive reality during post-processing phase
- There is no limit in software use even for acquisition of large areas
- Can process data from all Stream family



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

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 at www.dxmanagershield.leica-geosystems.com

DX Manager Shield - Standard Account
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.
DX Manager Shield - Pro Subscription
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 #LG5309201
DX Manager Shield - Expert Subscription
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. #LG5309202

Survey Accessories
Plumb Bobs and Gammon Reel

Myzox Plumb Bob 12oz / 340 grams

#A10-5012

Myzox Plumb Bob 16oz / 455 grams

#A10-5016

Myzox Plumb Bob 24oz / 680 grams

#A10-5024

Myzox Plumb Bob 32oz / 905 grams

#A10-5032

SECO Gammon Reel for Plumb Bob

2.1m #526001
3.6m #526002

Geo-Fennel M10 Measuring Wheel with Bag - 1m Circumference

#519090

Senshin D-3 Measuring Wheel - 0.5m Circumference

#D-3

Measuring Tapes & Slope Meters

Tajima Symron Fibreglass

Symron Tapes

High quality fibreglass tapes with end hooks.

30m fibreglass - #6400030
50m fibreglass - #6400032
100m fibreglass - #6400034

Tajima Engineer Plastic Coasted Steel 30m / 50m

Engineer Tapes

High quality tapes with end hooks, all featuring crisp, clean scales. Available in fibre glass or steel.

30m plastic coated steel - #6300031
50m plastic coated steel - #6300032
100m steel - #6300037

Slope Meter No. 2NS

Displays percentage grade from 0-12%. Ideal for earth moving machinary.

#7020001

Survey Accessories
Bipods, Range Poles and Measuring Poles

Senshin SK202 8m Fibreglass Measuring Pole

#202-8

Senshin SK202 6m Fibreglass Measuring Pole

#202-6

Senshin 7m / 7 Section Fibreglass Metric Staff

#205-7-G5

Senshin Measuring pole for vehicle 5m with 1.3m crossbar

#206-5

Senshin Measuring pole for vehicle 8m with 1.3m crossbar

#206-8

Senshin 7m / 7 Section Fibreglass E face Staf

#205-7-G1

TUF SJR10 Tripod with Gator / Alligator Clamp Head for GPS / Prism Poles

#TUF-SJR10

TUF BG-22 Telescopic Aluminium Range Pole / Rod 2m

#TUFBG22

TUF CLS22 Bipod for Prism Poles - Red

#SHBIPOD

Survey Accessories

Laser Tripods

Elevating Tripod #TUF-SJP50N

Leica CTC290 Elevating Tripod #LG866196

Leica GST05 #LG399244

Leica GST05L #LG563630

Leica CTP106 #LG789913

Leica GST20-9 #LG394752

Leica GST120-9 #LG667301

Leica CTP 104 Aluminium Tripod #LG767710

Leica GST101 #LG726831

FLAT TOP SATD-OL. DUAL LOCK/ Aluminium/ 1.660m/3.8k #519026

DOME TOP SATD-OD. DUAL LOCK/ Aluminium/ 1.670m/3.8kg #519027

Myzox Lan2s-Ol Short Leg Aluminium Tripod #519028

TUF Tripod for Disto/ Lino laser 1/4" thread #TUF5150

SECO Heavy Duty Elevating Fiberglass Tripod - 3.8m #SEC5321-17-ORG

TUF-SJW40 Fiberglass Wood Tripod #TUF-SJW40

Leica Disto / BLK360 Adapter 5/8" to 1/4" for Survey Tripod # LG828416

Survey Accessories

Staves

TUF TC2-55A 5m / 5 E-Face Staff with Cover #519121WC

TUF TC2-33A 3m / 3 E-Face Staff with cover #519104WC

TUF TC2-33B 3m / 3 Metric Face Staff with Cover #519102WC

TUF TC2-55B 5m / 5 Section Metric Face Staff with Cover #519118WC

TUF TC2-75W 7m / 5 Section E-Face Staff with Cover #519175WC

Senshin 7m / 7 SectionFibreglass Metric Staff #205-7-G5

Senshin 7m / 7 Section Fibreglass E face Staff #205-7-G1

TUF Laser Rod Staff for Laser Levels - 2.4m #TUF LR-2

Leica Flexi Rod Staff for Laser Levels -2.4m #LG868132

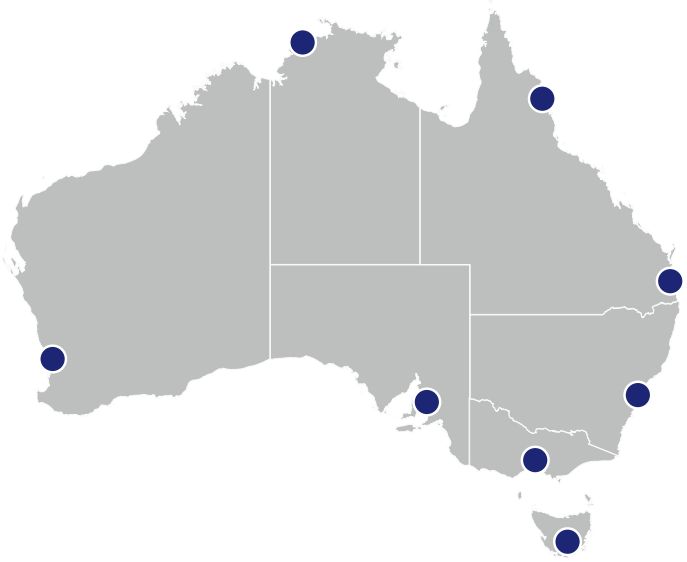
C.R.Kennedy
BUILDING CONSTRUCTION

Coverage you can count on:

Leica Geosystems is proudly distributed by C.R. Kennedy. The Largest importer and distributor of surveying equipment in Australia.

We offer a comprehensive end-to-end service from initial consultation and evaluation through to installation, training and support for the widest range of machine control and positioning applications.

Our nationwide organisation makes it possible for us to offer personal service and support wherever we are needed.



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Leica GEOSYSTEMS