

Leica iCON site

Custom-built Solutions for Site Construction



- when it has to be **right**

Leica
Geosystems

Leica Geosystems intelligent CONstruction

Enhancing your performance

Fully understanding construction carried us beyond the ordinary. Leica iCON is more than a new product line and a software package, it enables you to enhance your performance and increase your profitability through perfecting your construction workflow.

iCONstruct

Tailor-made hardware and software solutions for positioning and measuring tasks on site.

- Custom-built
- Straightforward
- Extendable
- Interchangeable



iCONtrol

Providing you with perfect communication between construction personnel on site and our comprehensive portfolio of machine control solutions.

- Suitable for small to large sites
- Reliable and seamless sensor communication
- Streamlined workflow & data handling



iCON

intelligent CONstruction

iCONSult

An extensive support network, with clear guidance on intelligent CONstruction benefits to grow your business.

- Worldwide network
- Personal service
- Professional consultancy



iCONnect

Connect your system to a superior network. Wireless data transfer, easy, fast and secure.

- Instant guidance and checks
- Real-time data guarantees accurate jobs
- High productivity
- No delays

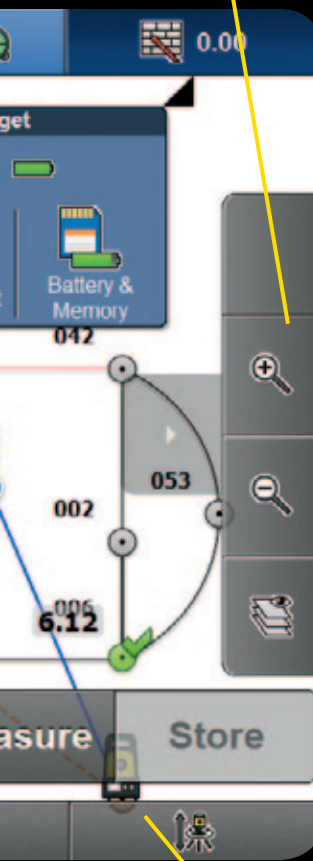


Leica iCON site Profit from your investment

Leica iCON site Straightforward software design

Map OPS

Intelligent map controls for data and zoom



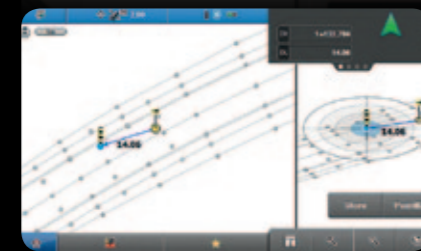
MaxMap

Get the most of your screen with transparency

Stake-out:

Simply pick points, centre lines, polylines or arcs from the map screen.

- For point stake-out, define any line or arc as Reference for your line and offset guidance information
- Quickly add missing points, polylines, helplines or arcs
- Offset lines and arcs parallel or perpendicular or vertical
- In-built tolerance checks are graphically displayed via green or yellow point icons
- Clear navigation guidance ensures accurate and fast layout



Volumes and Surfaces:

Measure surfaces and calculate volumes or surfaces.

- Quickly create volumes and surfaces in the field
- Calculate accurate volumes of material – guessing truck loads is a thing of the past
- Choose from different calculation methods to perform your tasks easier
- Check grade and elevation to optimise material savings
- Measure surfaces day-by-day and monitor progress

Customise and extend your iCONstruct toolbox.

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



Exceptional Application Functionality

The exceptional features and unmatched graphical support within iCON site allow you to carry out specific tasks on site in an easier, straightforward way. Use iCON site for checking dimensions, volumes, positions and the status of key site elements. iCON site allows the user to complete all site related tasks from one measuring device ensuring an effortless process from start to finish.

- Simply measure, stake-out or check site elements without waiting for an engineer or surveyor to do the work for you.
- Benefit from quick volumes and checks by using iCON site for Site Navigation on your vehicle
- If using 2D machine control, iCON site allows the operator to mark out the required starting point or boundary of the profile to be used on the excavator or dozer



Advanced user interface customised for construction personnel

iCON site is designed to increase your productivity and enable you to adapt to any given scenario on site. If you work with machines on site, use iCON site to check your progress to determine if you are working to the correct depth, profile, grade or surface, without having to wait for an engineer or surveyor to carry out these tasks. iCON site is developed to seamlessly integrate with any of the iCONstruct sensors or controllers.

Using the same, interchangeable user interface means:

- You only need to learn its functionality once resulting in less training, increased motivation and significantly reducing your investment
- The ability to exchange hardware between on-machine and off-machine use, projects and site personnel maximises your flexibility and reduces possible downtime



Precise iCON gps SmartAntenna

Developed exclusively for the construction market today, the iCON gps 60 SmartAntenna is tailored towards all construction tasks around the machines on site. The multi-purpose SmartAntenna can be used for all jobs, reducing your inventory and operating costs.

- Easy-to-operate and straightforward user interface saves you time and increases your productivity on site
- Entry level machine control GNSS sensor provides the highest accuracy in the construction market today
- Benefit from the unique versatility; seamlessly changing between rover and reference station depending on your daily tasks

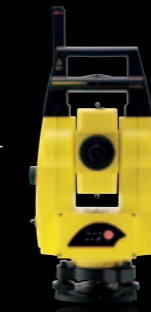
The iCONstruct product portfolio enables you to select your individual solution.

Invest in the solution you need today and have the flexibility to expand your product portfolio based on your future needs tomorrow.



Leica Builder
Intuitive, powerful and scalable series of total stations for routine construction tasks on site.

Leica iCON robot 50
One-person operation, saving time and increasing productivity when carrying out layout tasks and as-built checks.



Leica iCON CC60/61
Rugged, mobile tablet PC with enhanced connectivity and functionality.



Leica iCONstruct field software
Core central interface to all iCONstruct sensors and devices with unmatched simplicity but no compromises on functionality.



Leica iCON gps 60
Versatile Smart Antenna for multi-purpose positioning tasks.



Leica iCON CC50
Lightweight, handy PDA for easy and efficient field work.

Leica iCONstruct office software
Data preparation and verification of simple and complex project plans.

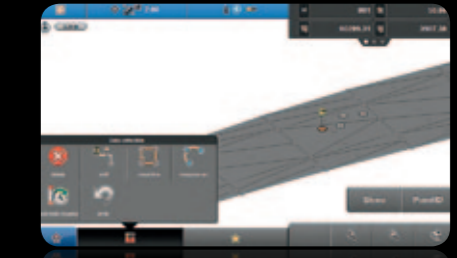


Improving your performance with intelligent software applications, workflow and an innovative user interface, iCON site's intuitive user interface provides you with highest accuracy and flexibility for your daily tasks.

Data collection and As-Built :

Make data collection and as-builts of actuals, roads structures for client records. Collect points, polylines or arcs in one go with immediate graphical representation.

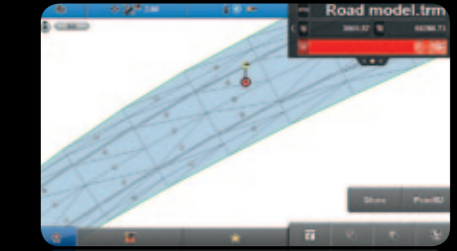
- Create 3D maps graphically in the field as basis for CAD design
- The unique Start/Stop Line function automatically draws plans directly from the measurements
- Improve data management by assigning codes to your points, each code is stored as one layer
- Increase efficiency with Automatic Data Logging when capturing a high number of points the building corners



Cut & Fill:

Simple checks against a surface with stationing information.

- Check against surface for as-built
- Add centre line and stationing for orientation on site
- Check cut & fill with quad or 4-wheel drive
- Use the same colour coding for cut & fill values as your machine control solution
- Offset the surface for different layers

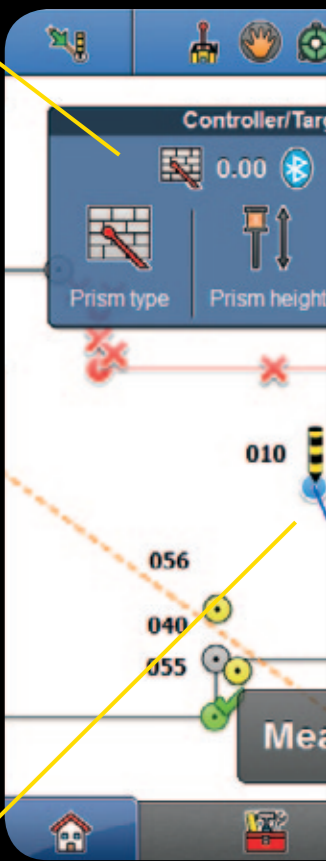


Status Bar +

Clear status information PLUS shortcuts to most frequent tools

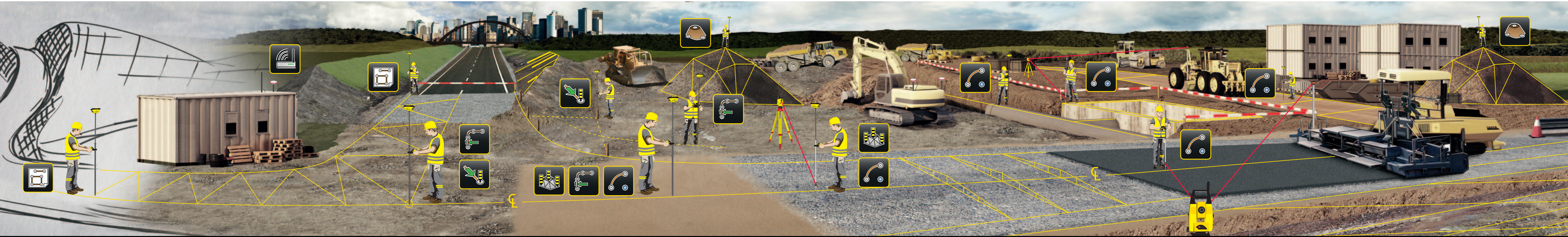
IntuiNav

Intuitive icons, color codes and wizards for safe navigation



Leica iCON site

The complete solution for all positioning and measuring tasks on site



Leica iCON site provides unmatched versatility and flexibility.

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



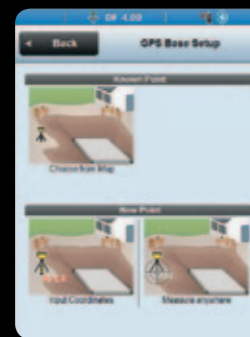
Job Site Set-up

Applications

- Permanent 24/7 GNSS reference station on Site Container
- Intuitive GNSS SmartAntenna display for easy set-up and status
- Transmit GNSS corrections via RTK Network

Benefits

- Prevent theft of expensive components by locking them inside the container, use the external GNSS antenna as a substitute
- Easier to learn and use, saving you time and reducing your inventory costs
- Save time by using the intuitive wizard to start Base Station without Controller
- No range limitations – don't rely on network provider – no radio interference



Data Collection

Applications

- Measure points, lines or arcs in one step with immediate graphical representation
- Apply codes per point and store measurements automatically
- Advanced automatic logging by distance or time

Benefits

- Measured elements are stored accurately and visualised, reducing the number of site visits
- Create 3D maps in the field as basis for road planning with CAD office packages
- Topo and DTM can be created quickly with quad or 4-wheel drive



Cut & Fill

Applications

- Check actual surface against design elevation
- Add road Centre Line for stationing and offset
- Quick colour coded cut & fill verification in line with Machine Control solution

Benefits

- Optimise material savings (e.g. asphalt) by checking sub-ground elevation and tolerances
- Stationing provides better orientation on current position
- Better visibility by using same look and feel in machine and field solutions



Volumes & Surfaces

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 calculation, independent of size or shape
- Calculation of truck loading considering compaction factors
- Balance out cut & fill for optimised material and machine usage
- Monitor the ongoing progress of your earthworks
- Order optimal amount of trucks for loading



Stake-out Points

Applications

- Simply select reference points directly from the map
- Select any line as reference for line/offset display
- Colour code clearly indicates quality of layout points and your working progress

Benefits

- Choose points directly from the map, no need to enter point numbers or scroll through lists
- Using reference lines contributes to better orientation on site
- Integrated tolerance checks increase accuracy and reduce human errors



Stake-out Lines

Applications

- Stake-out Centre Lines, Polylines, parallels or arcs, align structures in relation to the lines
- Apply horizontal and/or vertical offsets
- Stake-out Centre Line with stationing and elevation

Benefits

- Simply select lines from map to stake-out providing easy entering of stationing
- Simply rebuild and extend incomplete structures



As-Built

Applications

- Compare constructed vs. designed model
- Graphical indication of measured points, lines and arcs

Benefits

- Collect as-built data for client records, e.g. for future reconstruction or accounting
- Reduce number of site visits by visually verifying correctness of measurements in the field
- Assign as-built data to individual layers while collecting points
- Collect immediate as-built data without waiting on third party specialists



Leica Geosystems

Your trusted partner

Leica iCON is the result of a vision, based on our commitment to provide you with high standard product and service solutions. With our standards being strongly interlinked, we believe they establish a solid foundation for shared growth and success.



iCONSult

Partnership is our commitment to you, around the globe, anytime, anywhere.

iCONnect

Connect to a superior network, easy and fast.



Customer Support

Worldwide support network with hotline, web-based support, seminars, customised trainings and consulting service.



Product information at your fingertips

24/7 access through myWorld platform providing information and keeping you and your product portfolio up-to-date.



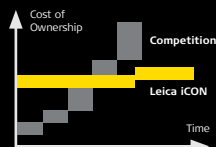
Customer Care Packages (CCPs)

Tailored service packages allow you to maximise the benefits from your investment.



SmartNet

Integrated 24/7 GNSS Network RTK and DGNSS service. Easy access to precise correction data. Network RTK users experience the best availability, reliability and traceability.



High quality, lowest cost of ownership

Proven quality of Leica Geosystems solutions reduces your cost of ownership significantly.



Worldwide Service Network

Extensive support network and broad service offerings include certification services, repairs and product upgrades.

Understanding construction.



Leica Geosystems intelligent CONstruction.

Whether you construct buildings, roads, bridges or tunnels, you benefit from intelligent CONstruction. Leica iCON is more than a new product line or software package, it enables you to enhance your performance and increase your profitability through perfecting your construction workflow.

Understanding construction demands outstanding solutions:

- Custom-built
- Complete
- Straightforward
- High performance

When it has to be right.



Total Quality Management – Our commitment to total customer satisfaction.
Ask your local Leica Geosystems dealer for more information about our TQM program.

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Brochure



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Brochure



Leica Excavating
Solutions Brochure

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