

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.



C Swiss Technology

The **Bluetooth**[®] word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Leica Geosystems AG is under license. Other trademarks and trade names are those of their respective owners.

Illustrations, descriptions and technical data are not binding. All rights reserved. Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland, 2017. 817368en - 05.15 - INT







Leica iCON build Brochure

Leica iCON build Layout Object Flyer

Leica Rugby 800 Brochure



Leica iCON robot 60 Product information

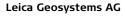
With Leica iCON builder 60. construction layout was never more professional. The intuitive user interface paired with the highest quality manual total station perfects any job.

Industry leading layout software

High return on investment

- Best-in-class measurement technology

automatically controls



leica-geosystems.com



© 2017 Hexagon AB and/or its subsidiaries and affiliates. Leica Geosystems is part of Hexagon. All rights reserved.

- when it has to be **right**













Leica iCON builder 60 **Product information**



- when it has to be **right**



Leica iCON builder 60 One instrument for many tasks

Applications



Layout lines for footings or chalk line for formwork on foundation

Hardware



Button illumination for continued work in low light conditions



Versatility



Graphical map view for quick navigation and point/ line selection



Layout points on blinding layer such as pipe insert or cut-outs before pouring concrete



Industry leading coloured touch screen for best visibility



Dynamic map updates with telescope & pole positions plus bulls-eye view for fast in/out & left/right guidance



Check distances, area or block volume of concrete, plaster stones, etc.



PinPoint R500 laser for highest measurement precision



- Simply import your ASCII or DXF data and straight work from the map
- All status information shown at a glance



	Ande Messurement (Hr. M)		
à	Angle Measurement (Hz, V)	2" (0 () / 5" (1 5) / 0" (2 0	
	Accuracy 1)	2" (0.6 mgon) / 5" (1.5 mgon) / 9" (2.8 mgon)	
_	Method	Absolute, continuous, diametrical	
	Display resolution	1" / 0.1 mgon	
	Compensation	Quadruple axis compensation	
	Compensator setting accuracy	0.5"/1.5"/2"	
王	Distance Measurement (Prism)		
<u> </u>	Range ²⁾		
_	Round prism (GPR1)	3.500 m (12000 ft)	
	Mini Prism (CRP111, GMP101)	2.000 m (7000 ft)	
	Reflective tape (60 mm x 60 mm)	250 m (800 ft)	
	Accuracy ^{3) 4)} /Measurement Time		
	Standard:	1.0 mm + 1.5 ppm	
	Tracking:	3.0 mm + 1.5 ppm	
W	Distance Measurement (Any Surface) 7)		
	Range ⁵⁾		
	PinPoint R500	> 500 m (1640 ft)	
	Accuracy ³⁾ / Measurement Time	2 mm + 2 ppm / typ. 3s	
	Laser dot size	At 30 m: approx. 7 x 10 mm	
		At 50 m: approx. 8 x 20 mm	
	Shortest measurable distance	1.5 m	
	Data storage / Communication		
	Internal memory	1 GB, > 50.000 points	
· ·	USB memory stick	1 GB	
_	SD card	8 GB	
	Interfaces	- Serial (Baudrate up to 115'200)	
		- USB Type A and mini B,	
		- Bluetooth [®] Wireless, class 1	
		 Bluetooth[®] > 1000 m (with TCPS29-S) 	
	Data formats	TXT/CSV (ASCII), DXF, HeXML, TRM, GEO, LIN	
	Guide Light (EGL)		
0	Working range	5 m – 150 m	
	(average atmospheric conditions)		
_	Positioning accuracy	5 cm at 100 m	
	Telescope	·	
	Magnification	30 x	
	Resolving power	3"	
_	Field of View	1° 30' (1.66 gon)	
		2.7 m at 100 m	
	Focusing range	1.7 m to infinity	
	Keyboard & Display		
	Display	High resolution Color & Touch display,	
		65'000 colors, graphics, Full-VGA, display	
_		illumination, 10 brightness levels	
	Keyboard	22 keys (4 function keys, 12 alphanumeric	
	incyboolid	keys), illumination	
	Operating System & Processor		
	Operating system	Windows CE 6.0	
	Processor	Freescale i.MX31 533 MHz ARM Core	
	Laserplummet		
	Туре	Laser point	
	Centering accuracy	1.5 mm at 1.5 m Instrument height	
	Internal Battery		
	Туре	Lithium-Ion	
	Operating time 6)	approx. 6-8 hours	
	Weight		
	Total station including GEB222 and	5.8 kg	
	tribrach	Sid NS	
	Environmental		
		-20° C to +50° C (-4° F to +122° F)	
	Temperature range (operation)	-20° C to +50° C (-4° F to +122° F) IP55, 95%, non condensing	
	Dust / Water (IEC 60529) Humidity	ii 55, 95%, non condensing	





iCON builder 60 can be also used as one-person station for checks, such as tie distances, clearance or verticality



Benefit from larger screen by connecting rugged tablet via internal Bluetooth up to 50 m / 160 ft



Leica TrueZero prism Mini prism with zero prism constant. No difference in measuring to surface, reflective tape or prism.



Robust, lightweight tablet PC with multitouchscreen and satile communi cation capabilities



Leica iCON CC66 Rugged, mobile tablet PC with enhanced connectivity and

Leica iCON gps 60 Versatile SmartAntenna for 100 multi-purpose positioning tasks







Leica iCONstruct Onboard Software		
Functionality of iCON builder 60	iCON app "As-Built", iCON app "Layout	
Start Kit	Points", Set up with Control Line, Set	
	up Anywhere, Height Transfer, Field	
	Calibration, Settings	
Extra functionality	iCON build, iCON build plus, iCON app	
	"Sketch", iCON app "Volumes", iCON	
	app "Stakeout", iCON app "Layout	
	Lines"	
	iCON app "Cut & Fill", iCON app	
	"Roading", iCON app "Slopes", iCON app	
	"Checks", 500m Reflectorless Option	
Delivery Contents		
	iCON builder 60, Tribrach, TrueZero mini	
	prism, Mini reflector pole set, Charger,	
	2x Li-Ion Batteries, Industrial grade 1GB	
	USB stick, USB to mini-USB cable,	
	iCONstruct Start Kit Software,	
	Documentation, Carry Case	



Legend:

- Standard deviation ISO 17123-3.
- Overcast, no haze, visibility about 40 km; no heat shimmer. Standard deviation ISO 17123-4.
- To Round Prism GPR1.
- Under optimal conditions on Kodak Grey Card (90% reflective). Maximum range varies with atmospheric conditions, target reflectivity and surface structure.
- Single Measurement every 30 second at 25° C. Battery time may be shorter if battery is not new.
- Reflectorless measurement time may vary according to measuring objects, observation situations and environmental conditions.





iCON robot 60 High-end robotic total station with superior technology and iCON onboard.