Leica iCON builder 60Product 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
- Best-in-class measurement technology
- High return on investment



Electronic Guide Light (EGL) guides rod-man left/right to correct alignment









Leica iCON builder 60

One instrument for many tasks

Applications



 Layout lines for footings or chalk line for formwork on foundation



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



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

Hardware



 Button illumination for continued work in low light conditions



 Industry leading coloured touch screen for best visibility



PinPoint R500 laser for highest measurement precision

Software



 Graphical map view for quick navigation and point/ line selection



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



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

Versatility



 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 prismMini prism with zero prism constant. No difference in measuring to surface, reflective tape or prism.



Leica iCON CC80 Robust, lightweight tablet PC with multitouchscreen and versatile communication capabilities.



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



Technical Specifications iCON builder 60



Angle Measurement (Hz, V)		
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"	
Distance Measurement (Prism)		
Range ²⁾		
Deved eview (CDD1)	2 F00 m (12000 ft)	



Compensation	Quadruple axis compensation	
Compensator setting accuracy	0.5"/1.5"/2"	
Distance Measurement (Prism)		
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	
Distance Measurement (Any Surface) 7)		
Range 5)		
PinPoint R500	> 500 m (1640 ft)	













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)	
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
	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-lon
Operating time 6)	approx. 6-8 hours
Weight	
Total station including GEB222 and	5.8 kg
tribrach	
Environmental	
Temperature range (operation)	-20° C to +50° C (-4° F to +122° F)
Dust / Water (IEC 60529) Humidity	IP55, 95%, non condensing



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



- Standard deviation ISO 17123-3.
- Overcast, no haze, visibility about 40 km; no heat shimmer. Standard deviation ISO 17123-4.
- To Round Prism GPR1.
- ⁵ Under optimal conditions on Kodak Grey Card (90% reflective). Maximum range
- $^{\rm 6}$ $\,$ Single Measurement every 30 second at 25° C. Battery time may be shorter if
- Reflectorless measurement time may vary according to measuring objects, observation situations and environmental conditions.



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



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



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



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.



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Leica Builder Brochure



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