Leica iCON iCB50 & iCB70 Manual total stations for construction

LEICA iCON iCB50 & iCB70 Manual Total Stations

- Go digital: Leica Geosystems manual construction total stations lead the way to the no-strings and no-tapes approach in your construction project
- Ease of use: simple to learn and easy to master, the Leica iCB50 and iCB70 help you to complete projects more efficiently with minimal training
- Understanding Construction: Leica Geosystems iCON portfolio offers software and hardware solutions specifically designed for any task in the Building and Heavy Construction segment
- Mobile data: featuring an integrated 4G modem, the iCB70 allows mobile data transfer directly between the design office and the instrument on site.

The new generation of Leica Geosystems' manual construction total stations facilitate your move from conventional analogue layout methods to modern digital workflows. Layout more points per day on your construction project and achieve the productivity and accuracies demanded by the building construction industry. Work with digital design data directly on the instrument, including fully rendered models in IFC file format.





leica-geosystems.com



- when it has to be **right**

Leica iCON iCB50 & iCB70





		ICD JU	ICD/0
ANGULAR MEASUREME	NT		
Accuracy Hz and V	Absolute, continuous, diametrical ¹	2'' / 5''	1" / 2" / 5"
	 Display resolution: 1" (0.3 mgon) Quadruple axis compensation Compensator setting accuracy²: 0.5" / 1.5" Compensator range: +/- 4' (+/- 0.07 gon) Electronic level resolution: 2" Circular level sensitivity: 6' / 2 mm 	v	v
DISTANCE MEASUREME	NT		
Range	 Prism (GPR1, GPH1P): 1.5 m to 3.500 m Reflective Tape 60 mm x 60 mm > 250 m 	×	V
	Non-Prism / Any surface R500 ³	v	✓4
Accuracy / Measurement time	 Single prism Single: 1 mm + 1.5 ppm (typical 2.4 s) Continuous: 3 mm + 1.5 ppm (typical < 0.15 s) Reflective tape 60 mm × 60 mm Single mode: 3 mm + 2 ppm (typical < 2 s) 	×	v
	Non-Prism / Any surface 0 m - 500 m: 2 mm + 2 ppm (typical 3 - 6 s)	v	V ⁴
Laser dot size	 At 30 m: 7 mm x 10 mm At 50 m: 8 mm x 20 mm At 100 m: 16 mm x 25 mm 	~	✓4
Telescope	 Magnification: 30x Resolving power: 3" Focusing range: 1.55 m / 5.08 ft to infinity Field of view: 1°30' / 1.66 gon / 2.7 m at 100 m 	V	V
GENERAL			

Display and keyboard		5" (inch), 800 x 480 px WVGA, colour, touch, 22 keys	5" (inch), 800 x 480 px WVGA, colour, touch, 22 keys
	2 nd keyboard	•	
	Key illumination	~	~
Operation	 Endless drives for HZ & V Trigger-Key: user definable with 2 functions 	~	~
Power management	Exchangeable Lithium-Ion battery ⁵ Operating time with GEB364 Operating time with GEB334	up to 26 h up to 13 h	up to 26 h up to 13 h
	Battery charging time with GKL341 charger for GEB364 / GEB334 GKL311 charger for GEB364 / GEB334	3 h 30 min / 3 h 6 h 30 min / 3 h 30 min	3 h 30 min / 3 h 6 h 30 min / 3 h 30 min
	External supply voltage Nominal voltage 13.0 V DC & 16 W max	~	~
Data storage	 Internal memory: 4 GB Flash Memory card: SD card 1 GB USB memory stick: 1 GB 	V	~
	RS232 ⁶ , USB device	 ✓ 	 ✓
Interfaces	■ Bluetooth® ⁷	V	 ✓
	 WLAN⁸ Mobile Data sidecover: LTE-Modem for internet access 	×	~
Laser plummet (Laserclass 2)	Accuracy Plumb line deviation: 1.5 mm at 1.5 m instrument height Diameter of laser point: 2.5 mm at 1.5 m instrument height	Ý	v
Field software	iCON build field software	iCON build (incl. Sketching, Layout Points, Layout Lines, Checks, As-built)	iCON build plus (incl. Sketching, Layout Points, Layout Lines, Checks, As-built, Volumes, Cut/Fi Slopes, Stakeout)
	 Software options 	iCON build plus (Volumes, Cut/ Fill, Slopes, Stakeout), Layout Objects, Hidden Point, Tilted Pla- ne, 2Face and Set, Roading, Drill Pattern, MC Calibration	Leica ConX, Layout Objects, Hidden Point, Tilted Plane, 2Facc and Set, Roading, Drill Pattern, MC Calibration
Weight		4.5 kg	4.5 kg
Environmental specifications ⁹	 Working temperature range: -20°C to +50°C Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing 	č.	č,
1000	Military Standard 810G	×	<u> </u>
LOC8	Tracking and theft deterrence device	•	•

- Legend:
 1. 1" (0.3 mgon), 2" (0.6 mgon), 5" (1.5 mgon)
 2. Angular accuracy / Compensator setting accuracy: 1" /0.5" (0.2 mgon), 2"/0.5" (0.2 mgon), 5"/1.5"
 (0.5 mgon)
 3. R500: Kodak gray 90% reflective (1.5 m to >500 m), Kodak gray 18% reflective (1.5 m to >200 m)
 4. iCB70 Laserclass 2 model is Prism mode only, without reflectorless measurement and laser pointer
 5. Distance/angle measurement every 30 seconds

Laser radiation, avoid direct eye exposure. Class 3R laser product in accordance with IEC 60825-1:2014.

The Bluetooth® trademarks are owned by Bluetooth SIG, Inc. Windows is a registered trademark of Microsoft Corporation. Other trademarks and trade names are those of their respective owners.

Leica Geosystems AG Heinrich-Wild-Strasse 9435 Heerbrugg, Switzerland

+41 71 727 31 31

5 PIN Lemo-0 for power, communication and data transfer
 For communication and data transfer
 For internet access, communication and data transfer, WLAN range up to 200 m
 Storage temperature: -40°C to +70°C

Copyright Leica Geosystems AG, 9435 Heerbrugg, Switzerland. All rights reserved. Printed in Switzerland – 2019. Leica Geosystems AG is part of Hexagon AB. 881141en - 08.22

- when it has to be right

