

Leica iCON CC170 Field controller Datasheet



LEICA iCON CC170 – When less is more!

- 7" sunlight-readable screen
- Lightweight for convenient use throughout the day
- Full-LTE support and one modem for all regions
- Optional long-range Bluetooth® module
- Hot-swappable batteries

The Leica iCON CC170 7" tablet is a field controller designed for use with the iCON field software. It is ideal for customers seeking a versatile, lightweight and small-sized field controller. Its optional long-range Bluetooth® allows connectivity over longer distances when paired with a Leica iCON total station. Weighing just 760 g, the iCON CC170 is easy to carry around for various on-site positioning tasks. It uses hot-swappable batteries – eliminating the need to close programs or to stop and save data when the battery needs changing.

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Leica iCON CC170 Field controller



MODEL		CC170
Operating system	Microsoft Windows® 10 Enterprise LTSC	
CPU platform	Intel® ApolloLake N3550; 1.1GHz up to 2.4GHz; 2 cores/2 threads	
RAM	4 GB	
Data storage	64 GB eMMC	
Display	7" screen; resolution 1280 x 800; LCD type IPS; 10 points capacitive multi-touch; Corning® Gorilla®; Glass 3; sunlight-readable	
Keyboard & buttons	Power button; 2 function keys; on-screen QWERTY keyboard	
I/O ports	1 x USB-C v5.1; 1 x USB A v5.1; docking station connector (24 pin); integrated dual-array microphone; integrated 88 db speakers; Intel high-definition audio compliant	
COMMUNICATIONS		
Integrated communications	Worldwide 3G/4G LTE cellular modem; 802.11 a/b/g/n/ac (2.4 & 5GHz) WLAN; Bluetooth® v4.1 ¹	
Integrated camera	8 MP rear camera with dual LED flash	
TPS 1-man mode working range ¹	Typically up to 100 m with a direct line of sight. Typically up to 600 m with the long-range Bluetooth® module with a direct line of sight.	
POWER MANAGEMENT		
Battery	Hot-swappable; indicator LEDs; 11.1 V 3000 mAh (33.3 Wh)	
Operating Time ²	up to 6 hours (max. load test)	
SPECIFICATIONS		
Size	CC170 Tablet; 210 x 140 x 23 mm (8.2" x 5.5" x 0.9") CTR30 LRBT Module; 84 x 80 x 25 mm (3.3" x 3.1" x 0.9") GAT25 Antenna; 31 x 20 x 117 mm (1.2" x 0.8" x 4.6")	
Weight	CC170 Tablet; 760 g (1.7 lbs) CTR30 LRBT Module; 67 g (0.15 lbs) GAT25 Antenna; 30 g (0.06 lbs)	
Operating temperature	-25 °C (-13 °F) to 55 °C (131 °F)	
Storage temperature	-40 °C (-40 °F) to 70 °C (160 °F)	
Rain	IPx6 (spray); IPx8 (submersion)	
Dust	IP6x	
Drop	1.50 m	
Vibration	General minimum integrity and helicopter minimum integrity test; MIL-STD-810G; Method 514.8; Procedure I, II	
REGULATORY		
Compliance	RCM, ISED, CE/RED, PSE, RL, Japan TBL, EAC, UKCA, FCC, PTCRB, AT&T	
SUSTAINABILITY		
Compliance	WEEE, RoHS, J-MOSS	

1) Range varies depending on local conditions.

2) In continuous field operation mode. May vary with temperature, battery age, etc.

Leica iCON. Understanding construction.

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Leica Geosystems AG
Heinrich-Wild-Strasse
9435 Heerbrugg, Switzerland
+41 71 727 31 31

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