

Leica iCON CC180 Field controller Datasheet



LEICA iCON CC180 – Where compactness meets performance!

- 8" LCD display with exceptional visibility
- Intel® 12th Generation high-performance processors
- Fan-less design for reduced device noise
- Finger/rain, glove, or stylus operation modes
- High-duty battery with up to 8 hours of operation
- 500 m Bluetooth® connectivity range

The Leica iCON CC180 is a compact, reliable field controller tailored to the requirements of construction professionals. This high-performing device utilizes the power of the Intel® 12th Gen processor to enable swift processing of complex construction designs. Beyond its traditional use cases, it extends its capability by supporting the iCON site machine indicative guidance for cut and fill earthmoving jobs and the iCON site excavator application. The Leica iCON CC180 carries assured quality and is a handy tool for building and heavy construction industry professionals.

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Leica iCON CC180 Field controller



MODEL	iCON CC180
Operating system	Microsoft Windows® 10 IoT Enterprise LTSC
CPU platform	Intel® Pentium® Gold 8500 Processor (up to 4.4GHz)
RAM	8 GB
Data storage	128 GB
Display	8" LCD screen; resolution 1280 x 800, 800 nits DynaVue® sunlight readable display with capacitive multi-touch screen, user-selectable touch mode for finger/water, glove or stylus
Keyboard & buttons	3 buttons (1 user-definable key), on-screen QWERTY keyboard
I/O ports	Thunderbolt 4 x 1, USB 3.2 Gen2 (type C) x 1 (supports DP), Audio in/out (combo jack) x 1, microSD card (microSDXC) x 1, Docking connector (20-pin Pogo) x 1, Nano SIM card x 1, DC-In jack x 1
COMMUNICATIONS	
Integrated communications	Multicarrier 4G LTE Mobile Broadband + GPS Combo, WLAN WiFi6E; Bluetooth® v5.3 ¹
Integrated camera	Integrated 2.0 MP front-facing camera Integrated 8.0 MP auto-focus rear camera with flash
TPS 1-man mode working range ¹	Typically 450 m, up to 500 m with direct line of sight
POWER MANAGEMENT	
Battery	Li-Ion 7.6V, 7200mAh
Operating Time ²	Up to 8 hours (max. load test)
SPECIFICATIONS	
Size	227 x 150 x 30.5 mm (8.94" x 5.90" x 1.2") (incl. battery)
Weight	974 g (2.14 lbs) (incl. battery)
Operating temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Storage temperature	-46 °C to 71 °C (-51 °F to 160 °F)
Rain	IP66
Dust	IP66
Drop	1.80 m (6 ft)
Vibration	MIL-STD 810H (drop, shock, vibration, rain, dust, altitude, freeze/thaw, high/low temperature, temperature shock, humidity) MIL-STD 461G (conduction, radiation, conducted susceptibility, radiated susceptibility)
REGULATORY	
Compliance	CE/RED, SAR, UKCA, FCC, PTCRB, Verizon, IC, TELEC & JATE, PSE, RMC
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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