

HCE600+

CHCNAV Rugged Field Controller for Surveying and Mapping

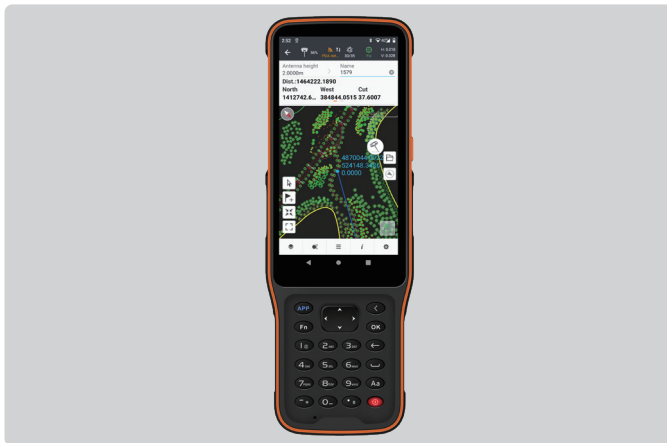


► Highlights

The HCE600+ is a lightweight, professional Android data collector designed for field surveying and mapping. With a 5.5-inch DragonTrail™ display, it offers exceptional durability and clear visibility in sunlight. Packed with Bluetooth 5.0, dual-band Wi-Fi, and a 4G modem, it ensures seamless connectivity with GNSS receivers and RTK networks. Certified to IP68 and MIL-STD-810H standards, the HCE600+ is built to withstand harsh environments, making it the ideal handheld controller for reliable data collection in any conditions.



► Powerful Performance



Achieve high performance with the Helio MTK 6762 octa-core processor running at up to 2 GHz. Android OS coupled with 3GB of SDRAM and 64GB of flash memory ensure smooth operation and efficient data processing.

► High-Visibility Display



Work efficiently in any lighting condition with the 5.5-inch, 800 nits HD+ display. The screen provides clear, legible data even in direct sunlight, enabling uninterrupted fieldwork.

► Comprehensive Connectivity



Enjoy seamless connectivity to GNSS receivers and RTK networks with Bluetooth 5.0, dual-band Wi-Fi (2.4G/5G) and a built-in 4G modem. The HCE600+ ensures reliable communication and data transfer in the field.

► Rugged and Durable Design



The HCE600+ IP68 and MIL-STD-810H-rated housing can withstand harsh field conditions. The DragonTrail™ glass display offers scratch resistance and durability for long-term performance.

► Key feature



DragonTrail™ Glass

5.5-inch HD+ screen with 800 nits brightness.



Rugged

IP68 and MIL-STD-810H for dust, water and shock resistance.



Long Battery Life

8000 mAh battery for up to 15 hours of continuous operation.



High Connectivity

Bluetooth 5.0, dual-band Wi-Fi, 4G modem.

► Lightweight and Ergonomic



Work in comfort with the HCE600+ lightweight (345g) and ergonomic form factor. The one-handed grip and customizable shortcut keys enhance the user experience and make it easier to collect data.

► Extended Battery Life



The HCE600+ lithium-ion battery provides up to 15 hours of continuous use without frequent recharging, allowing you to work all day in the field.

► Use Cases



Field Data Collection



Topographic Surveying



Construction Surveying

SPECIFICATIONS

► System

Operating system	Android 10 with 7 major upgrades
CPU	MediaTek MT8768 octa-core 2.0 GHz
RAM	3 GB SDRAM
Flash memory	64 GB
Memory card	MicroSDHC up to 128 GB

► Physical

Size (L x W x H)	224 mm × 80 mm × 15.4 mm (8.8 in × 3.1 in × 0.6 in)
Weight	408 g (14.4 oz) with battery
Environment	Operating: -30°C to +60 °C (-22°F to +140°F) Storage: -40°C to +65°C (-40°F to +149°F)
Dust and water proof	IP68
Humidity	5% ~ 95% (non-condensing)
Shock and vibration	1.5 m (4.92 ft) fall on concrete MIL-STD 810H
Display	5.5" IPS LTPS LCD capacitive multi-touch 1440 × 720 pixels HD+ 296 ppi DragonTrail™ scratch resistant glass Brightness 900 cd/m²
Keypad	Alphanumeric

► GNSS Accuracies⁽¹⁾

Channel	45
Constellation	GPS L1C/A, GLONASS L1, BDS B1, Galileo E1
Autonomous	2~5 m HRMS

► Communications

Network modem	Nano-SIM card LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/ B17/B20/B28AB LTE TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8 CDMA-EVDO: BC0 GSM: 850/900/1800/1900
Wi-Fi	802.11 a/b/g/n/ac/d/e/h/i/k/r/v/w, access point mode (2.4 G / 5G)
Bluetooth®	V 5.0
USB	Type C, OTG supported
NFC	Support

► Electrical

Li-ion battery capacity	8000 mAh
Operating time ⁽²⁾	15 h
Charging time	4 h (typical)

► Sensors & Multimedia

13 MP rear camera with auto-focus and flash
GNSS (BDS, GPS, GLONASS) A-GPS support
G-sensor
Gyroscope
E-compass
Light sensor
Speaker
Microphone

► Standard Accessories

A/C charger
USB cable
Stylus
Handstrap
Range pole bracket

► Field Software

CHCNAV LandStar App (with Permanent License)
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► Certifications

CE, FCC ID, MIL-STD 810H

* All specifications are subject to change without notice.
(1) Accuracy and reliability are determined under clear unobstructed conditions, multipath, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.
(2) Operating time varies based on temperature.

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