CHCNAV

Geospatial

HCE600

CHCNAV Rugged Field Controller for Surveying and Mapping



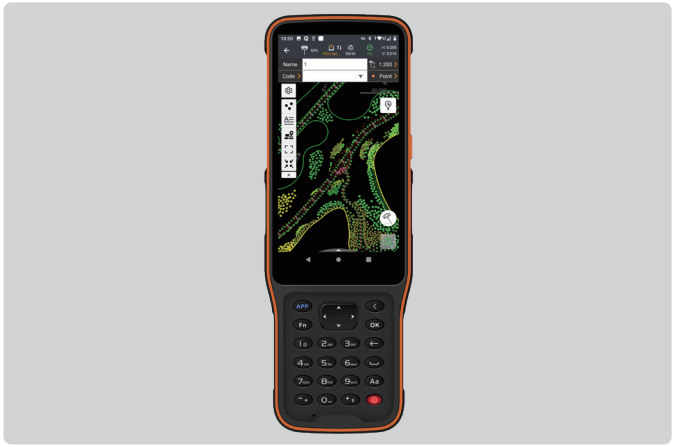
Highlights

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.



HCE600

Powerful Performance



Achieve high performance with the MT8768 octa-core processor running at up to 2 GHz. Android OS coupled with 3GB of SDRAM and 32GB of flash memory ensure smooth operation and efficient data processing.

High-Visibility Display



Work efficiently in any lighting condition with the 5.5-inch, 600 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's 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 600 nits brightness.

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

Long Battery Life
8000 mAh battery for up to 14 hours of continuous operation.

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

Lightweight and Ergonomic



Work in comfort with the HCE600's lightweight (408 g with battery) 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 14 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
CPU	MediaTek MT8768 octa-core 2.0 GHz
RAM	3 GB SDRAM
Flash memory	32 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 600 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/B19/B20/B25/B26/B28AB/B66 LTE TDD: B38/B40/B41 WCDMA: B1/B2/B4/B5/B8 GSM: 850/900/1800/1900
Wi-Fi	802.11 a/b/g/n/ac/r, 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 (Typical)
Operating time (2)	14 h
Charging time	4 h (Typical)

Sensors & Multimedia

5 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 (90-day trial version included)

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.

© 2026 Shanghai Huace Navigation Technology Ltd. All rights reserved. The CHC and CHC logo are trademarks of Shanghai Huace Navigation Technology Limited. All other trademarks are the property of their respective owners. Revision August 2026.

CHC Navigation Headquarter
577 Songying Road, Qingpu,
201703, Shanghai, China
Marketing@chcnav.com
+86 21 54260273

CHC Navigation Europe Kft
Office Campus, Building A, 6/B Gubacsi Street,
Budapest 1097, Hungary
Europe_office@chcnav.com
+36 20 510 6723