

CHCNAV

HCE600

RUGGED FIELD CONTROLLER



SURVEY
& ENGINEERING

RUGGED FIELD CONTROLLER FOR DATA COLLECTION

The HCE600 is a lightweight, compact, professional Android 10 data collector with alphanumeric keypad, specifically designed for surveying and mapping operations in the field. Its 5.5-inch DragonTrail™ display offers extreme durability, long-term performance and incredible sunlight readability.

Packed with connectivity modules including Bluetooth 5.0, dual-band 2.4G and 5G Wi-Fi, 4G modem, and more, the HCE600 connects seamlessly and reliably to your favorite GNSS receivers and RTK network correction sources. Ultra-rugged, it withstands a 1.5-meter drop on concrete and meets stringent IP67 and MIL-STD-810H standards. The HCE600 is the optimal handheld controller for working in harsh field environments and making your data collection easier and more efficient. The HCE600 comes with a 90-day trial version of the LandStar Surveying and Mapping App, trusted by over 100,000 professionals worldwide.

POWERFUL PLATFORM FOR FIELD DATA COLLECTION

Featuring Android 10 operating system

The HCE600 features the powerful eight-core Helio MTK 6762 processor, which operates up to 2 GHz. Its 12nm processor technology delivers the best performance, runs 50% faster and consumes 25% less power than its predecessors. The Android 10 operating system enables smooth CAD drawing management and base map display with no lag and results in productivity gains. High-performance LPDDR4 memory transfers data faster with less power, delivering instant uploads of large project files. The HCE600 comes with a built-in 4G cellular modem for a stable and reliable Internet connection and includes a 90-day trial version of CHCNAV's LandStar Surveying and Mapping App. LandStar's integrated cloud services make it easy to share data and provide one-click remote support from anywhere.

DESIGNED FOR MOBILE WORKFORCE

A sleek, lightweight, premium design for a better experience in the field

The HCE600 is only 1.54 cm thick and weighs only 345 g, making it the ultimate ultra-lightweight handheld for surveying and mapping applications. Based on an ergonomic design optimized for field use, its one-handed grip provides excellent handling and easier operation. A customizable shortcut key on its side allows for one-step measurement for quick data entry. The all-day battery life provides uninterrupted data collection in the field.

BRILLIANT HD+ DISPLAY

Perform your data collection tasks in the field more efficiently

The high-brightness 5.5-inch HD+ display makes viewing your projects more comprehensive and intuitive. Complex survey projects, DXF base maps and data tables are displayed with more details to enhance the viewing experience. With up to 500 nits brightness, your data always remains easily readable for operations in all weather conditions, whether in direct sunlight or on a rainy day. Projects and maps are accessible in your working environment, allowing you to focus on your tasks in the most efficient way.

EXTENDED FIELD PERFORMANCE

Shock, dust and water resistant

The HCE600 Asahi DragonTrail™ glass display is ultra-tough and scratch resistant, providing long-term performance and great protection against everyday wear or accidental drops up to 1.5 m. MIL-STD 810 certification and IP67 rating provide the backbone for extreme durability and reliability on typical surveying and construction sites environments.

The nine-axis compass and gyro fusion algorithm corrects errors due to magnetic interference to provide accurate heading information. Common surveying applications, such as GNSS RTK stakeout surveys, are performed with greater efficiency at all times.



RUGGED FIELD CONTROLLER



DESIGNED FOR MOBILE WORKFORCE.

SPECIFICATIONS

System	
Operating system	Android 10
CPU	Helio MTK 6762 octa-core 2.0 GHz
RAM	3 GB SDRAM
Flash memory	32 GB
Memory card	MicroSDHC up to 128 GB
Physical	
Size (L × W × H)	224 mm × 80 mm × 15.4 mm (8.8 in × 3.1 in × 0.6 in)
Weight	345 g (12.2 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	IP67
Humidity	5% ~ 95% (non-condensing)
Shock and vibration	1.5 m (4 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 500 cd/m²
Keypad	Alphanumeric

Communications	
SIM Card Type	Nano-SIM card
Network modem	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 TDSCDMA: B34/B39 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	6, 240 mAh
Operating time ⁽¹⁾	14 h
Charging time	4 h (typical)

Sensors and 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	

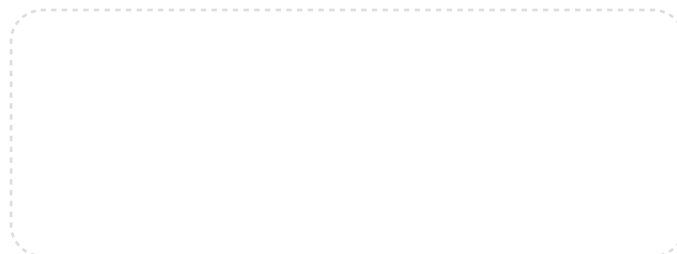
Standard Accessories	
A/C charger USB cable Stylus Handstrap Range pole bracket	

Field Software	
CHCNAV LandStar App (90-day trial version included)	

Certifications	
CE, FCC ID, MIL-STD 810H	



*All specifications are subject to change without notice.
(1) Operating time varies based on temperature.



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