

GIS









RUGGED ANDROID DATA CONTROLLER FOR EXTENDED FLEXIBILITY

The HCE320 is a professional-grade Android field data controller with an alphanumeric keypad offering surveyors great flexibility during field work. With its IP67 protection rating against dust and water and its 1.2m drop resistance, the HCE320 is optimized to withstand the most demanding environments. In addition, its 8,000 mAh Li-ion battery allows users to work non-stop all day long.

Integrating a G-sensor, electronic compass and gyroscope, the HCE320 also offers extensive connectivity with Bluetooth, Wi-Fi and a dual SIM slot 3G modem. Optimized for the CHCNAV LandStar7 Survey application, the HCE320 is the ideal rugged professional controller for all demanding surveying and construction applications.

EXPAND YOUR VISION

5.5" sunlight-readable display.

Capacitive multi-touch 1280 x 720 HD screen provides a vivid display to visualize your project data at a glance. Sharper display dramatically improves field usability and operating reliability.

EXTREME ENDURANCE

Up to 16 hours of continuous field operation.

Long battery life provides the HCE320 with the capability to perform uninterrupted for a complete working day. The battery charges fully in just less than 4 hours making the HCE320 ready to use for next day in a fraction of time.

RUN GIS APPLICATION SEAMLESSLY

Driven by Android 7.1 operating system.

The HCE320 embeds the powerful Qualcomm MSM8940 Octa Core 1.4 GHz CPU to run large survey projects and datasets without any lag or slowdown makes your work even more productive.

RUGGED DURABILITY

Dust and waterproof design for everyday construction sites conditions.

The HCE320 withstands up to 1.2 m drop onto concrete and hold the stringent IP67 and MIL-STD-810G certifications. Extra lightweight and rugged design makes the HCE320 even easier and convenient to use in any GIS, mapping, surveying and construction sites.







EASY TO OPERATE AS A SMARTPHONE.

System		
Operating system	Android 7.1	
CPU	Qualcomm [®] MSM8940 Octa Core 1.4 GHz	
Channel	55 channels	
RAM	2 GB	
Flash memory	16 GB	
Extension	Micro SD card, up to 128 GB	
EXICIISION		
	Physical	
Size (L x W x H)	221.5 mm \times 87 mm \times 19.7 mm (8.7 in \times 3.4 in \times 0.8 in)	
Weight	372 g (13.1 oz) with battery	
Environment	Operating: -30°C to +60 °C (-22°F to +140°F) Storage: -30°C to +70°C (-22°F to +158°F)	
Dust and water proof	IP67	
Shock and vibration	1.2 m (3.9 ft) fall onto concrete	
Display	5.5" LCD display Capacitive multi-touch screen (HD 1280 × 720)	
Keypad	Alphanumeric keypad	
Camera	8-megapixel camera with auto-focus Flashlight	
Certificationsand Calibrations		
CE Mark		

	Communications
	Communications
Network modem	Dual SIM & Dual standby LTE: Band1/Band2/Band3/Band4/Baud5/ Baud7/Baud8/Baud17/Baud20/Baud28 WCDMA: B1/B2/B5/B8 CDMA/CDMA-EVDO: B0 GSM: 850/900/1800/1900
Wi-Fi	802.11 b/g/n, access point mode
Bluetooth ®	V4.1
USB	Type C, OTG supported
	Electrical
Li-ion battery capacity	8000 mAh
Operating time (1)	16 h
Charging time	4 h (typical)
Sensors	
Internal GPS / G-sensor / Light sensor / NFC / E-compass / Gyroscope	



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

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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. Highperformance 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.

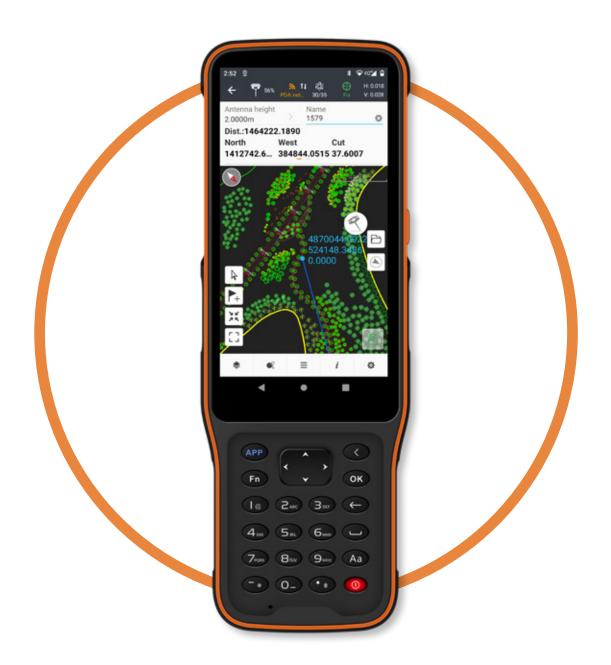
EXTENDED FIELD PERFORMANCE

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.





DESIGNED FOR MOBILE WORKFORCE.

	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

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	6240 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



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CHCNAV

LT700

RUGGED GNSS TABLET

MAPPINGGEOSPATIAL





RUGGED TABLET FOR PROFESSIONAL DATA COLLECTION

The LT700 rugged Android tablet increases efficiency and productivity of mobile workforce in different industries and applications. Featuring an 8-inch sunlight-viewable screen in direct sunshine and high-bright areas, the LT700 perfectly displays any GIS data tables, complex vector and raster maps or high-resolution pictures.

Unlike consumer-grade tablets, the L700 industrial IP67 design withstands all-day use in harsh environments and conditions. Protected from dust, rain, extreme temperatures as well as accidental drops from 1.2 m, the LT700 always keeps your data secure. It provides advanced solution to the most demanding applications such as forestry, utilities and asset management or environmental surveys.

IP67 RUGGED MOBILITY

Thin and lightweight:

235 mm x 146 mm x 13 mm and 560 g.

The handy and versatile LT700 rugged tablet is the perfect companion for mobile field workers. Its vivid and sharp 8-inch, 450 cd/m2 sunlight readable touchscreen display enhances maps and data visualization.

HIGH PERFORMANCES

Embedded octa-core 2.2 GHz CPU and dual SIM

Running large maps and datasets without any lag or slowdown makes your work even more productive. The dual-SIM 4G modem ensures fast and reliable connection with mobile teams.

GNSS POSITIONING

Professional GNSS module for any locationbased application.

The integrated high sensitivity GNSS module (GPS/GLONASS/BDS/GALIELO/SBAS) provides robust positioning performances even in obstructed environment.

RUN GIS APPLICATION SEAMLESSLY

Driven by Android 8.1 operating system.

Bearing the GMS (Google Mobile Service) certification, the LT700 runs seamlessly the most common professional data collection applications available from Google Play store.

EXTREME ENDURANCE

8,000 mAh Li-ion battery.

battery life provide the LT700 with the capability to perform uninterrupted for a complete working day.







ENABLE MOBILE WORKFORCE ANYTIME, ANYWHERE.

	System
Operating system	Android TM 8.1 GMS certified
CPU	Octa-core 2.2 GHz
RAM	4 GB
ROM	64 GB
Extension	Micro SD card, up to 128 GB
	GNSS Accuracies ⁽¹⁾
Channel	72
Constellation	GPS L1, GLONASS L1, BDS L1, GALIELO L1, SBAS
Autonomous	3 - 5 m
SBAS	1 - 3 m
Display	
Size	8"IPS Glass touch screen
Resolution	1920 x 1200
Brightness	450 cd/m ²
Touch Screen	Capacitive multi-touch, 10 points
Screen technology	IPS display panel Corning® Gorilla® Glass 3
	Camera
Front	5 MP
Rear	16 MP
Flash light	Integrated
	Physical
Dust and Water Proof	IP67
Shock	1.2 m (4.0 ft) fall onto concrete
Humidity	5% - 95% RH (without condensation)
Size(L x W x H)	235 mm x 146 mm x 13 mm (9.3 in x 5.7 in x 0.5 in)
Weight	560 g (19.8 oz) with battery
Environment	Operating:-20°C to + 60°C (-4°F to +140°F) Storage: -30°C to + 70°C (-22°F to +158°F)

Communications	
Wi-Fi	802.11 a/b/g/n/ac
Bluetooth	Bluetooth [™] 4.1
USB	Type C, OTG (support hot plug)
Network 4G modem	GSM: 850/900/1800/1900 WCDMA: B1/B2/B5/B8 FDD-LTE: Band1/Band3/Band4/Band5/ Band7/Band8/Band17/Band20/Band28
Battery ⁽²⁾	
Li-ion battery	8000 mAh
Voltage	3.8 V
Battery Life	12 h
Charging Time	5.5 h
Internal sensors	
NFC; G-Sensor; Light Sensor; E-Compass; Gyroscope	

*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) Battery life is dependent on factors such as environment temperature, brightness, CPU service conditions.

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RUGGED TABLET FOR PROFESSIONAL DATA COLLECTION

The LT700H RTK Android tablet is designed to increase efficiency and productivity of mobile field workforce in any applications requiring centimeter to decimeter positioning accuracy. Portable, rugged and versatile, the LT700H enables precision GIS data collection, forensic mapping, construction site layout, environmental surveys, landscaping and earthmoving job.

Featuring an 8-inch sunlight-viewable screen in direct sunshine and high-bright areas, the LT700H perfectly displays any GIS data tables, complex vector and raster maps or high-resolution pictures. Its industrial IP67 design withstands all-day use in harsh environments and conditions.

The LT700H enables further use of GNSS technology, from single operator to companies with large field crews.

BRING ACCURACY AT YOUR FINGERTIPS

Benefit from full-GNSS RTK networks corrections.

Powered by 184-channel high performance GPS, Glonass, Galileo and BeiDou module and superior tracking GNSS helical antenna, the LT700H provides best-in-class centimeter to decimeter position in demanding environments.

HIGH PERFORMANCES

Embedded octa-core 2.2 GHz CPU and dual SIM. Running large maps and datasets without any lag or slowdown makes your work even more productive. The dual-SIM 4G modem ensures fast and reliable connection with mobile teams.

HIGH PORTABILITY AND VERSATILE

GMS certified for extended compatibility.

Bearing the GMS (Google Mobile Service) certification, the LT700H runs seamlessly the most common professional data collection applications available from Google Play Store. Its integrated 4G modem ensures seamless communication from field-to-office and robust connectivity to GNSS RTK networks corrections.

8-INCH IPS DISPLAY FOR EXTRA COMFORT OF USE

Vibrant IPS/FHD sunlight-viewable touch screen. The LT700H Corning Gorilla Glass 3 IPS displayprovides extended durability in all weatherconditions. Its 10 points capacitive multi-touchscreen enables data collection with a stylus andeven gloves or wet hands to match everyworking conditions.

KEEP YOUR DATA SECURE

Industrial IP67 design with 8 000mAh Li-ion battery.

The LT700H rugged design secures your data even in harsh environment and adverse weather conditions. Up to 12 hours operation time keep mobile workforce focusing on data collection without interruption.





BRING ACCURACY AT YOUR FINGERTIPS

	System	
Operating system	Android 10.0 GMS certified	
CPU	Advanced octa-core CPU 1.8 GHz	
RAM	6 GB	
ROM	64 GB	
Extension	Micro SD card, up to 256 GB	
GI	NSS Accuracies (1)	
Channel	184	
Constellation	GPS L1C/A L2C, GLO L1, L2, BDS B1, B2	
RTK	2 cm HRMS	
Autonomous	< 1 m HRMS	
Display		
Size	8" touch screen	
Resolution	1920 x1200	
Brightness	500 cd/m² glare resistant, excellent sunlight readable screen	
Touch Screen	Capacitive multi-touch, 10 points	
Screen technology	IPS/FHD display panel Corning ® Gorilla ® Glass 3	
	Camera	
Front	8 MP	
Rear	16 MP	
Flash light	Integrated	
	Physical	
Dust and Water Proof	IP67	
Shock	1.2 m fall onto concrete	
Humidity	5% - 95% RH (without condensation)	
Size (L x W x H)	240 mm x 151 mm x 32 mm (with GNSS module) (9 in x 6 in x 1 in)	
Weight	675 g (21.7 oz) with battery and bracket	
Environment	Operating: -20°C to + 60°C (-4°F to +140°F) Storage: -30°C to + 70°C (-22°F to +158°F)	

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Communications		
Wi-Fi	802.11 a/b/g/n/ac	
Bluetooth	Bluetooth™ 4.2	
USB	Type C, OTG	
Network 4G modem	GSM: 850/900/1800/1900 WCDMA: B1/B2/B5/B8 FDD- LTE:Band1/Band2/Band3/Band4/Band5 Band7/Band8/Band17/Band20/Band28	
	Battery (2)	
Li-ion battery	8000 mAh	
Voltage	3.8 V	
Battery Life	12 h	
Charging Time	5.5 h	

Internal sensors

NFC; G-Sensor; Light Sensor; E-Compass; Gyroscope

Accessories

- Screen protector
- Hard cover
- Touch pen Type-C USB cable
- Helix antenna



*All specifications are subject to change without notice.

(1) Autonomous and RTK accuracy are based on full GNSS constellations (GPS, Glonass, Galileo and BDS) availability, under clear unobstructed environment, multipath-free, standard satellite geometry andatmospheric conditions. Performances assume follow up of recommended general GNSS practices. (2) Battery life is dependent on factors such as environment temperature, brightness, CPU service conditions etc.

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