

# CHCNAV

# LandStar™ 8

## LAND SURVEYING AND MAPPING APP FOR ANDROID



## SURVEYING & ENGINEERING



# EASY TO USE AND FEATURE-RICH

LandStar™ 8 is the field-proven data collection application for Android devices and CHCNAV data controllers. Its modular design allows the user interface to be customized to meet specific needs and make deployment to field crews easy and highly efficient. The advanced graphics rendering of mapping projects in LandStar™ 8 provides users with an unprecedented field experience.

LandStar™ 8 is built around easy-to-use workflow management and an intuitive graphical interface designed to help efficiently complete high-precision surveying and mapping projects. LandStar™ 8 is versatile and integrates all surveying features for different applications, including construction surveying, control point measurement, native CAD project support, fast and accurate points, lines and surfaces stakeouts, road construction, GIS data acquisition, and more. Its comprehensive industry-standard data import and export formats allow LandStar™ 8 to be seamlessly integrated into existing software environments and ensure instant productivity.

## USER-FRIENDLY OPERATION

**Easy to use and learn, with powerful features**

LandStar™ 8's simple and intuitive layout, with large map windows and sharp graphics, makes surveying and mapping easier for all users. Only relevant information is displayed, and unused functions can be hidden to make the application even more straightforward and simple to operate. Integrated video tutorials are available to help field operators quickly master the app. Its modular design provides flexibility, and its rich feature set makes LandStar™ 8 an effective solution to meet the requirements of most applications.

## START SURVEYING IN A FRACTION OF SECONDS

**Simplified project and coordinated system management**

When creating a project, LandStar™ 8 makes it easy to copy coordinate settings, control, and stake out points from another handheld controller just by scanning a QR code. Projects can be conveniently edited and sorted by history and properties, making them easy to navigate. Custom coordinate systems, geoid models, and codification libraries, ...can be dynamically updated via localization packages. LandStar™ 8 also features a site calibration wizard specially designed to be uncomplicated for non-expert users.

## ADVANCED DISPLAY OF BASE MAPS

**CAD base map rendering in seconds**

LandStar™ 8 proprietary MetaCAD™ graphics engine opens DWG and DXF base maps faster, with smoother rendering and an improved user experience. DXF files up to 200 MB can be opened on CHCNAV handheld controllers in less than 10 seconds. Smart base map functions include "Quick Code" for one-click feature coding to automatically create line features to increase project productivity. LandStar™ 8 supports the opening of external reference files, automatically recognizes CAD length units, and allows editing of CAD base maps directly in the field.

## EXTENDED CLOUD CONNECTIVITY

**Cloud integration enables efficient collaboration from field to office**

LandStar™ 8 is designed around an integrated cloud-based architecture, supporting project backup, collaborative work, data storage, and many other valuable features. Its remote support function helps the office helpdesk resolve user issues and provide personalized technical assistance. With the "Sharing Code" feature, users can quickly transfer project data between office computers and field controllers or between different field controllers to further enhance work efficiency.



# LAND SURVEYING APP FOR ANDROID



## FEATURE RICH FOR ANY SURVEYING APPLICATIONS

# SPECIFICATIONS

## Features

Concise user interface  
Intuitive workflow  
Embedded e-help-manual  
Integrated video tutorials  
Cloud Services / Sharing Code / Remote Tool  
Connection types (Bluetooth, Wi-Fi and demo)  
Global Coordinate Systems Library  
RTCM message support  
Standard CGD grid/geoid files  
Site-Calibration wizard  
Comprehensive import/export format support  
Differential data relay  
Customizable layer management  
Convenient Quick Code  
Automatically connect points into lines  
Customized WMS/WFS support  
Sharp and smooth DWG/DXF display  
Support automatic rotation of CAD base map  
Support opening CAD external reference files  
Accurate capture of endpoints, nodes, ...on the base map  
Online push update software version  
Manage receiver firmware updates  
Powerful COGO tools (earthwork, inverse, grid to ground,...)  
Real-time global TEC maps  
Voice or audible prompts  
Physical keyboard shortcuts

## Field Hardware Support

CHCNAV GNSS receivers (Including i90, i83, i73+, i73, iBase, i50)  
Peripheral instruments such as total station, generic NMEA0183 receivers, pipeline detector and laser rangefinder  
Android handheld controller with internal GPS

## Data Collector Support

CHCNAV HCE600  
CHCNAV LT700 / LT700H  
Android devices (operating system 6.0.1 and higher)

## Operating System Support

Android 6.0.1 and higher

## License

Online software registration

## Communication Protocols Configuration

CHC  
Transparent  
TT450s  
SATEL\_3AS  
PCC4FSK  
NTRIP  
TCP Direct  
APIS

## Supported Languages

Arabic  
Bulgarian  
Chinese (Simplified)  
Chinese (Traditional)  
Croatian  
Czech  
English  
Finnish  
French  
German  
Greek  
Hungarian  
Italian  
Japanese  
Kazakh  
Korean  
Laotian  
Malaysian  
Mongolian  
Persian  
Polish  
Portuguese  
Russian  
Slovak  
Spanish  
Swedish  
Thai  
Turkish  
Ukrainian  
Vietnamese

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