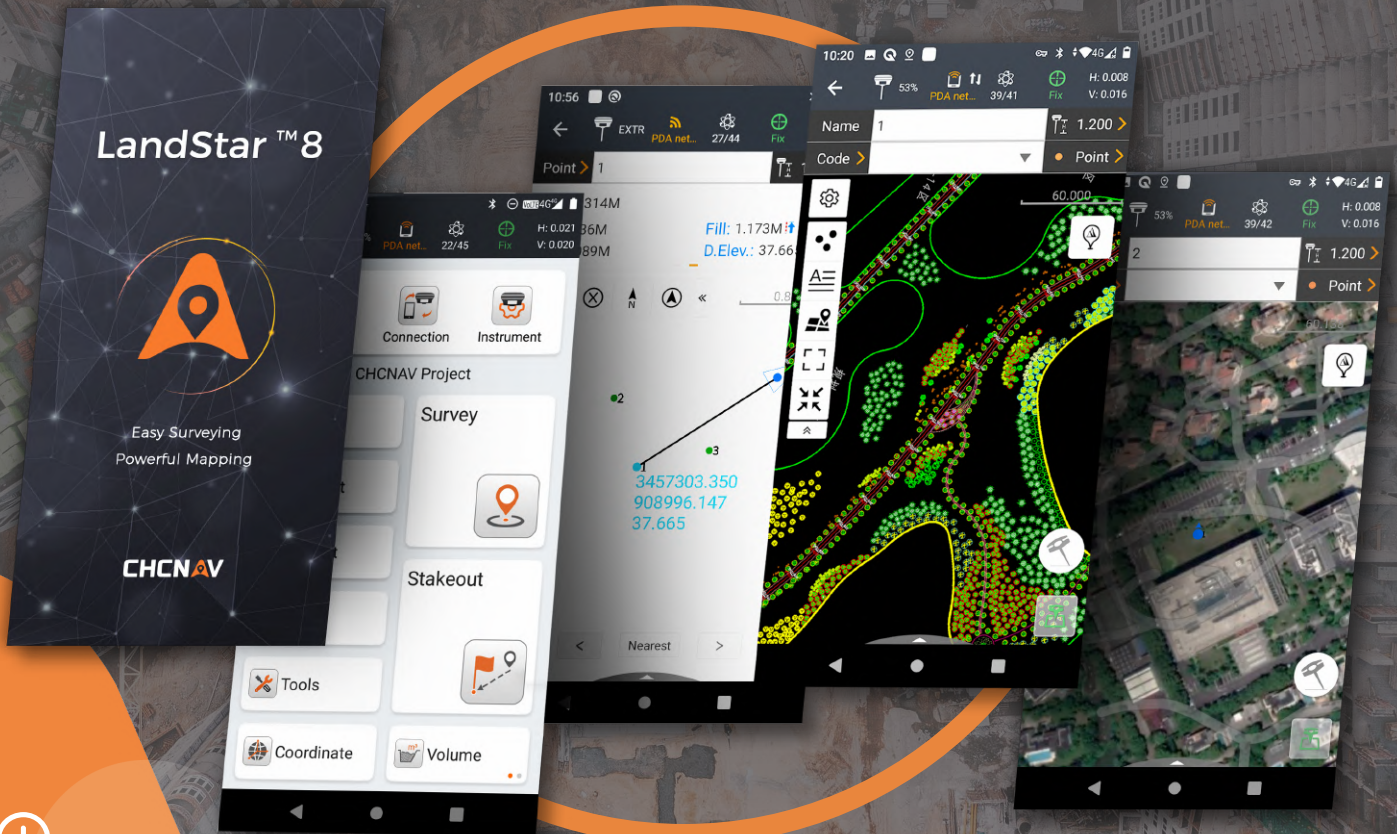# CHCNAV

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.

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

*All specifications are subject to change without notice.

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