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 resource 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's 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 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 "share code" feature, users can quickly transfer project data between office computers and field controllers or between different field controllers to further enhance work efficiency.
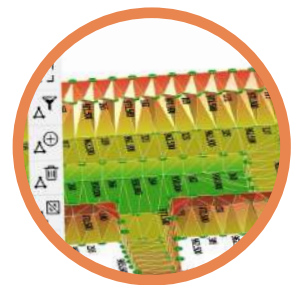
MOST FLEXIBLE INSTALLATION

3TH GEN METACAD GRAPHIC ENGINE, 30-50% FASTER WITH CAD BASE MAP

CONVENIENT MAP SURVEY, CORRESPONDING LINE TYPES FOR VARIOUS TERRAINS

RTK + TOTAL STATION, ALL IN ONE LANDSTAR SOFTWARE

3D SURFACE DISPLAY, 99.8% ACCURATE EARTH VOLUME CALCULATION

SPECIFICATIONS

Features

- Concise user interface
- Intuitive workflow
- Rich industry applications
- Localized language video tutorials
- Cloud Services / Sharing Code / Remote Tool
- Localization resource package
- Global coordinate ystem resource
- RTCM message support
- Standard CGD grid/geoid files
- Comprehensive import/export format support
- Differential data relay
- Customizable layer management
- Powerful map survey
- Customized WMS/WFS support
- High-performance MetaCAD graphics engine
- Support automatic rotation of CAD base map
- Support opening CAD external reference files
- CAD Map adjustment
- Practical CAD editing functions
- Accurate capture of endpoints, nodes, etc. on the base map
- Online push update software version
- 3D view for earthwork calculation
- Multiple area subdivision methods
- Voice or audible prompts
- Physical keyboard shortcuts
- Direct connections to common TPS
- Project auto backup with local/ cloud options
- Deployment backup and restore
- Automatic photographing
- DJI UAV Base mode
- One-Click Fixed

Field Hardware Support

- CHCNAV GNSS receivers (Including i93, i89, i83, i76, i73+, iBase, etc.)
- 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 LT800/LT800H
- Android devices (operating system 6.0.1 and higher)

Operating System Support

- Android 6.0.1 and higher

License

- Online software registration

Field Hardware Support

- CHC
- Transparent
- TT450s
- SATEL_3AS
- PCC4FSK
- NTRIP
- TCP Direct
- APIS

Supported Languages

- Arabic
- Bulgarian
- Chinese (Simplified)
- Chinese (Traditional)
- Croatian
- Czech
- Danish
- Dutch
- English
- English (South Africa)
- Finnish
- French
- German
- Greek
- Hungarian
- Italian
- Japanese
- Kazakh
- Korean
- Laotian
- Latvian
- Lithuanian
- Malaysian
- Mongolian
- Norwegian
- Persian
- Polish
- Portuguese
- Russian
- Serbian
- Slovak
- Spanish
- Swedish
- Thai
- Turkish
- Ukrainian
- Vietnamese

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