

Date: November 11, 2022

Subject: LandStar™ 8.0

Region: International

1. Introduction

The improvements and modifications described in this note were introduced from LandStar™ version 7.3.7 to LandStar™ version 8.0

2. Version 8.0 Release Note

2.1. New Features

- New simple and intuitive layout with large map window and sharp graphics. New initialize page and clear icons.
- Localization packages allow user to update the following resources without upgrading the software version: Device connection profile, Predefined coordinate system files, Coordinate system library, Grid files, Online map database files, Antenna files, Font files, Software help link files.
- Video help allow user to view the instructional video about LandStar™ 8 functions and operation. It is allowed to like and add the video to favorites.
- Add simple style to be selected according to users' needs. Only surveying and mapping relevant information is displayed to make the application even more straightforward and simple to operate.
- Provide wizard-style site calibration interaction design, easy for non-expert to use.
- LandStar™ 8's new proprietary MetaCAD™ graphics engine opens DWG and DXF base maps faster, with smoother rendering and an improved user experience.
- Add map adjustment function to calibrate the base map by known points.
- Add following mode in stake out menu. When staking out, the base map can be automatically rotated with the direction of the controller.
- Add features to get design elevation from a reference surface map.
- Support to open external reference files, automatic recognition of CAD length units, and allow editing of CAD base maps in the field.
- Add features to stakeout nearest point automatically.
- Add tool bar in survey and stakeout menu, and users can define the content.
- Use more practical projects management interface.
- Projects can be sorted by name or when last edited now.
- When copying projects, users can copy control points or release points from old projects easily.
- When creating a project, users can easily copy the coordinate parameters in another controller using QR code.
- Support different elevation value type in XML files.

2.2. Enhancements

- Divide work mode to GNSS rover and GNSS base settings.
- Move control survey and continuous survey outside to be independent icon.
- Move RTCM message to project setting and CRS setting. Users can more easily apply RTCM messages (1021-1027) for datum transformation, and the LandStar™ 8 displays parameter reception status in real time.
- Optimize the coordinate system library, users can easily select coordinate system.
- Optimize the online base map switching by adding the icon in tool bar.
- Optimize the line measurement and stake out.
- Reduce the impact of base points display. Users can hide base points and the layer now.
- Optimize the download method from Google play store through the CHCNAV Installation Manager.
- Optimize the positioning data output frequency. Move the setting from work mode to status bar settings.

3. Installing the new Software

The new LandStar™ 8.0 software can be downloaded here : [\[Download\]](#)

4. Additional Information

Note: Current deployment of CHCNAV Cloud Service includes servers in Hong Kong SAR, China and Europe with optimized access for use in Asia Pacific and Europe. Servers' deployment in other regions will continue through 2023.

Disclaimer: The use of the Cloud Services may not be available in some countries and regions due to local regulatory requirements, and subject to compliance with relevant governmental legislation.

For more information about this Release Note, please contact support@chcnav.com.

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