LandStar 7

——Make Survey Convenient

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Introduction

Table of Contents

LandStar 7 is our latest field-proven software solution for Android. Designed for high precision surveying and mapping tasks for your everyday work. Provides seamless work mode management, easy-to-use and easy-to-learn graphical user interface with simple operation. Extensive data import/export formats and multiple types of measurement and stakeout methods ensure instant productivity.

LandStar 7 supports CHC legacy receiver (ARM based) with the firmware version of v8.33 and above, and also CHC latest smart i80 GNSS receiver with the firmware version of v1.3.42 and above, as well as internal GPS of any Android smartphone or handheld controller of v4.2 and above.

About CHC

Over the past 13 years, CHC Navigation has developed the industry's best solutions for GNSS and supporting products. With 800+ professionals, the team at CHC Navigation continues to focus on quality & excellence as they develop & build our product line.

Our Vision Statement

Design and manufacture rugged, reliable and competitive GPS/GNSS positioning solutions for land surveying, construction, GIS & mapping, marine and infrastructure applications. Provide dedicated and professional support to end users regardless of where they are located in the world. Enhance our GPS/GNSS technology expertise with strategic industry alliances to offer extended high-end positioning solutions.

What sets LandStar 7 apart from the competition?

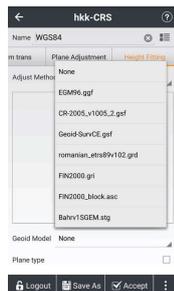## What sets LandStar 7 apart from the competition?

Powerful graphical surveying: Supports both online OSM (Open Street Map) map and other industry standard (DXF and ESRI SHP file formats) as base map while surveying. Selected points in a DXF or SHP file can be automatically added to the point's manager for staking out. Multiple line and polygon features can be measured simultaneously.

RTCM Transformation Message: Supports using RTCM transformation message (1021-1027) for automated grid position and geoid adjustments.

Convenient work mode management: Supports presetting of common work modes of base and rover, selecting or switching work modes by one button push. You will not need additional steps to configure your work mode while surveying. The streamline user interface designed to be operated with your fingers.
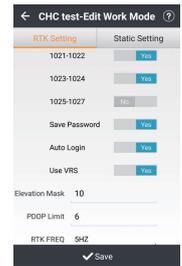
Customizable layer display: Supports separate display of points name, code and height, custom of color, size and type of points, lines and polygons, configuration of single or multiple points with height.

Multiple Geoid/Grid shift file formats: Enable to use Geoid undulation file (GGF, BIN, GRD, GSF, STG, GRI and ASC formats) and also Grid shift file (GRD format).
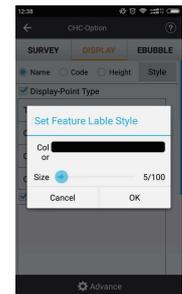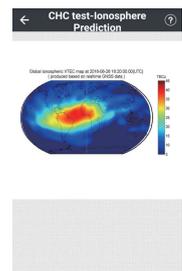
Real-time global TEC map: Supports a built-in global TEC map with updating every 10 minutes to help you to choose the best working time in high ionospheric activity regions.

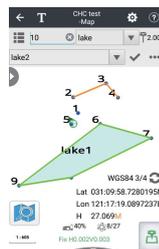## What sets LandStar 7 apart from the competition?

Correction repeater function: Supports repeating correction data from RTK network to other rovers via the internal radio modem.

Extensive data import and export formats: Supports CSV, DAT, TXT, DXF, SHP and NCN as the import format, CSV, DAT, TXT, KML, DXF, SHP, RAW, HTML as the export format. Contents of CSV, DAT, TXT can be customized by users.

Various types of measurement: Supports points, lines, polygons and PPK (Postprocessed Kinematic) measurement. The methods of point measurement include topographic point, control point, quick point, continuous point, offset point and compensation point.

What sets LandStar 7 apart from the competition?

Multiple types of stakeout: Supports point stakeout, line stakeout, surface stakeout and road stakeout.

Three connection types: Supports three different connection types, Bluetooth, WIFI and demonstration modes.

Smart e-manual: Embedded e-manual is available on the field. You can check the help documentation in the top right corner of the interface and get guide of each function being used.

RAW file recording: Supports to write RAW files. You can review the operation procedures, configuration parameters and measurement results, as well as transfer RAW files into third party surveying software.

Navigation stakeout: Supports real-time display of direction, distance and elevation difference between your position and the point to stakeout.

Measurement geofencing: Remind you once your position goes out of the boundary to ensure user's work being limited in a predetermined area.

Site Calibration Quality Control: Enables to use automatic reminders when the error of site calibration results is too large, preventing wrong corrections to be applied.

Powerful COGO tools: Supports calculation of perimeters, areas, transformation parameters, etc. It also has a build-in RPN calculator.

Multi-language interface: Supports English, Russian, Turkish, Korean, Finnish, German, Traditional Chinese and Simplified Chinese.
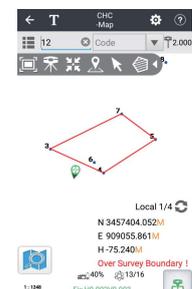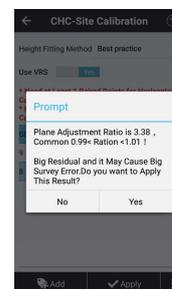
Supported Equipment List

How to Register

Field Hardware Support
Supports CHC legacy receiver (ARM based) with the firmware version of v8.33 and above.
Supports CHC newest smart i80 GNSS receiver with the firmware version of v1.3.42 and above.
Supports internal GPS of any Android smartphone or handheld controller of v4.2 and above.
Supports many types of peripheral instruments such as generic NMEA0183 receivers.

i80   X91+   X900+

Data Collection Hardware
LandStar 7 used with CHC HCE300 is the most compatible way, it can also be used with CHC LT600 or other Android devices of v4.2 and above.

LT600

HCE300   Android Phone

LandStar 7 registration needs both register code and license file.
CHC HCE300 handheld controller comes with permanent registered LandStar 7 . Other Android devices need additional registration code and license file provided by CHC.

Type in Register Code
After installing LandStar 7 , please go to Config-> About, click Unregistered to get the request code, copy and send it to your regional sales manager or support@chcnav.com. The temporary register code and temporary license file will be emailed to you.
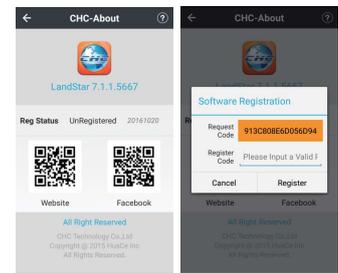
Input Register Code in red box below, and click Register. Then Reg Status will read Registered, which means register successfully.
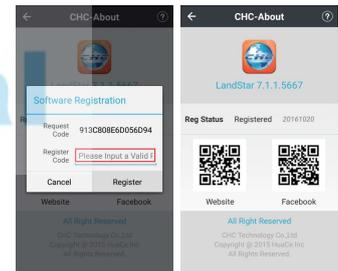
Apply License
After registering, find license folder in the same root directory with CHCNAV folder (If you can not find it, please new a folder named "license" in the same root directory), and then put license file (.slm) in license folder to finish.

Training and Support

LandStar 7 with HCE300 comes with permanent FREE support, which mainly through email and Skype support (8:30am–5:30pm GMT+8). While on a support plan, you also receive free service packs and upgrades of HCE300 as they become available. Here are some other useful support resources:

Manual
The manual is a detailed introduction of each functions, you will also see e-manual in LandStar7 while you are surveying.

Quick Tour
The quick tour shows procedure of several kinds of common work modes, you will set each work mode as you wish.

Tutorial Video
The tutorial video is also about how to use LandStar7, it provides more intuitionistic lessons so that you will act by yourself.

FAQ
The FAQ consists of several common questions and solutions, you can learn it if you meet similar questions.

PPT
The PPT introduces main functions and procedure of how to set work modes.

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Thank You
Please call us or visit our website for more information on how this, or other CHC products, can help you improve your productivity!

Coming soon...

Total station and laser rangefinder.

Surface and road model based on LandXML.

Base map based on raster image.

Cloud service.

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