

LandStar 7

Surveying & Engineering

LandStar7 Introduction

LandStar 7

The LandStar 7 is a fully-featured and intuitive field data collection Android App designed for high precision surveying, engineering, mapping, GIS data collection, road stakeout and pipeline surveying. Make your work more efficient with LandStar 7 App from field-to-finish!

Enhanced Graphical Tools

The LandStar 7 supports both online OSM/BING maps and several base map formats (DXF, SHP, TIF, SIT, KML, KMZ and WMS) while surveying. The powerful editing tools allow you to edit, snap, redraw or interrupt lines for the creation of polylines, polygons and circles.

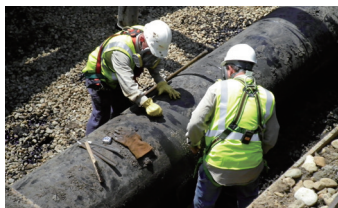


User Defined GIS Attributes

During data collection, users can customize attribute fields with media capture (pictures, videos and voice). The unique multi-code function allows users to survey polylines and polygons simultaneously while sharing the data points to ensure project requirements are met.

Super Packed Road Function

Features include horizontal and vertical alignment, cross-sections with slopes and user defined structures. The enhanced data verification allows users to eliminate costly errors easily. Users can also both manually input or import designed road elements from LandXML files and select polyline from DXF files as the center line to stake out or survey the cross road.

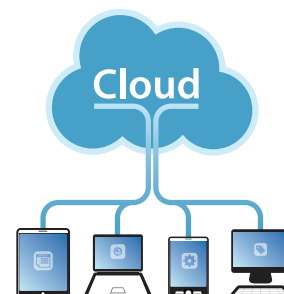


Easy Pipeline Survey

Makes it simple to survey underground pipelines using integrated data from both the GNSS receiver and the pipeline detector. Users can store high precision and high quality pipeline coordinates with attributes for exporting into SHP/CSV files.

CHC Cloud Service

Allows for uploading and downloading projects, coordinate systems, work modes and codelists.



Key Features

Various Base Map Displays

- OSM, BING, Google and WMS online maps.
- DXF, SHP, TIF, SIT, KML and KMZ offline maps

Extensive import and export data formats

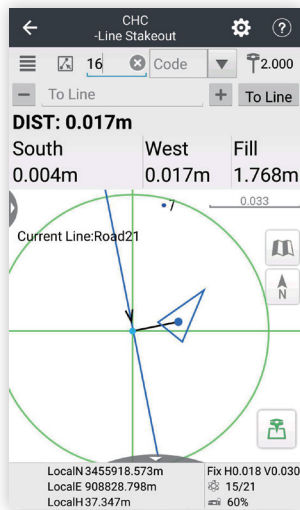
- Import from DXF, SHP, KML, KMZ, CSV, DAT, TXT and CGO formats.
- Export to DXF, SHP, KML, KMZ, RAW, HTML, CSV, DAT, TXT formats.
- Customized import and export contents in CSV, DAT or TXT formats.

Various types of measurement

- RINEX and CHC HCN GNSS raw data formats.
- 7 methods of point measurement, including topographic point, control point, quick point, continuous point, offset point, EBubble compensated point and corner point.
- Simultaneous stop-and-go and RTK measurement using topographic point or continuous point.

Efficient multi-code surveying

- Multi-code for surveying point, polyline and polygon at the same time. A single point can be the node for multiple polylines and polygons.
- Quick code panel for fast codification in the field.



Super Packed Road Elements

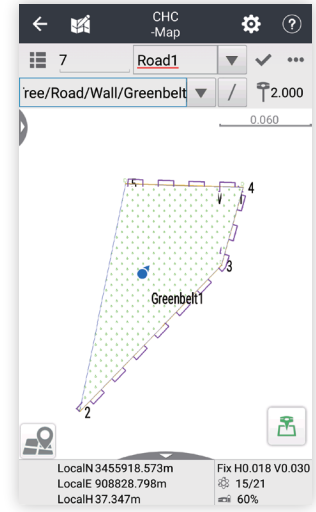
- Create survey and stakeout center lines, cross-sections, station names from designed road file such as ROD file, DXF, LandXML.
- Calculate road elements such as cross-sections, slopes, culverts and user defined structural features.

LandXML Road Format

- Convert horizontal and vertical curves into CHC ROD file for road stakeout.
- Road stakeout is more efficient alignments inputs if not necessary.

Various Design Views

- Different views are available for stakes, slope, free slope, structures and data check.



Multiple types of stakeout

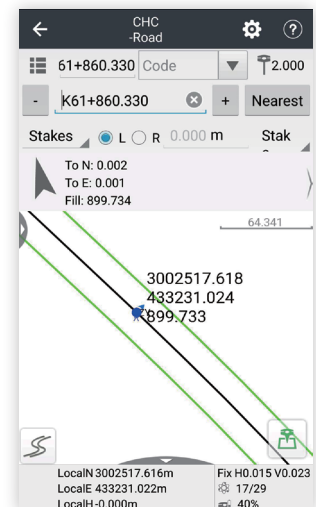
- Point and line stakeout by snapping feature point on DXF base map or survey point.
 - Surface and road stakeout.

Various navigation prompts

- Real-time display of direction, distance and cut/fill value.
- Different tolerances with assigned sound alerts can be set when approaching the target.

User-friendly stakeout interface

- Map mode shows the current and target position.
 - Compass mode shows the target direction.
- Users can set North, Sun or point as a reference direction



Specifications

Features

- Intuitive workflow
- Comprehensive Import/Export Format support
- Standard CGD correction file
- Repeater correction function
- RTCM message
- Intuitive system menu
- Manage receiver firmware update
- Customizable layer display
- Real-time global TEC map
- Connection types (Bluetooth, Wi-Fi and demonstration)
- Embedded e-manual
- Powerful COGO tools (earthwork, inverse, grid to ground,...)
- GNSS RAW data recording
- Measurement geofencing
- Site calibration with advanced quality control
- Multi-language interface
- Cloud service
- Voice or sound prompt
- Landscape mode
- Tilt measurement
- Data quick share
- Physical keyboard shortcut

Field Hardware Support

- CHC GNSS receivers (including i90, i80, i70+, M6 and X91+)
- Android smartphone and handheld controller with internal GPS
- Peripheral instruments such as generic NMEA0183 receivers, pipeline detector and laser rangefinder

Data Collector Support

- CHC HCE300
- CHC HCE320
- CHC LT600 series
- CHC LT700 / LT700H
- Android devices (operating system 4.2 and higher)

Operating System

- Android 4.2 and higher

License

- Online software registration

Communication Protocols

- CHC
- Transparent
- TT450
- SATEL_3AS
- PCC4FSK
- NTRIP
- TCP Direct
- APIS

Supported Languages

- Bulgarian
- Croatian
- English
- Finnish
- French
- German
- Greek
- Hungarian
- Japanese
- Korean
- Persian
- Polish
- Portuguese
- Russian
- Simplified Chinese
- Spanish
- Thailand
- Traditional Chinese
- Turkish
- Iranian
- Slovak

*Specifications are subject to change without notice.

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