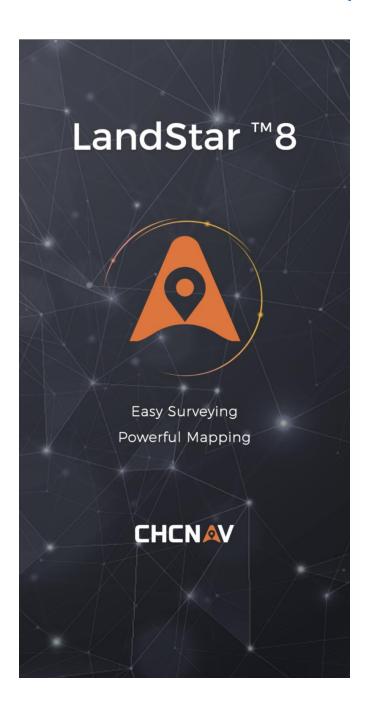
LandStar 8 2025 New Installation FAQ



Copyright

19 September 2025; LandStar8.2_NewInstallation_r0682.docx

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Acknowledgements

If you have questions or suggestions, contact us:



iGage Mapping Corporation, 1545 South 1100 East Suite 1, Salt Lake City UT 84105 USA 1-801-412-0011, email: landstar@igage.com

Your input is extremely valuable, and we will listen to your suggestions!

Important Documentation Note



If you purchase LandStar 8 and equipment from iGage, you will receive a printed and bound 235-page, detailed User Manual.

The instructions that follow in this FAQ are from this User Manual. New 2025 manuals are available at very reasonable prices for existing customers of iGage:



https://igage.com/LS8/LS820225UM.htm

iGage will not support or service equipment and software that we do not sell. It is not possible to purchase equipment elsewhere and then pay for iGage support.

If you are considering purchasing LandStar 8, CHCNav, GeoMate or eFIX equipment elsewhere make sure the vendor can provide you with ALL the support that you will need. The fact that you are reading this iGage FAQ may be a warning sign that your vendor is incapable of providing the long term support you will need.



How to: Install and provision LandStar

LandStar 8 is a 64-bit Android application.

It should run on any Android device with Operating System Android version 7 or higher, however users may be disappointed with Android OS versions older than version 10.

LandStar should automatically adjust to most screen sizes.

For use with a visual receiver, like the CHC i89 and i93, verify Visual Survey operation prior to deployment with a new device or use dealer recommended hardware. Visual survey functions require 5 GHz Wi-Fi and are enhanced by high resolution displays and high-speed processors.

Before Installing LandStar8

Check for Android Operating system updates

Make sure your Android device's Operating System is fully updated.

From Settings:

Settings > System > Software updates > System update > Check for updates

Check for App updates

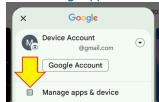
Find the Play Store app and run it:



Click on the account settings circle:

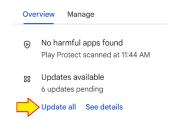


Click on Manage apps & device:



Click on Update all:

← Manage apps & device

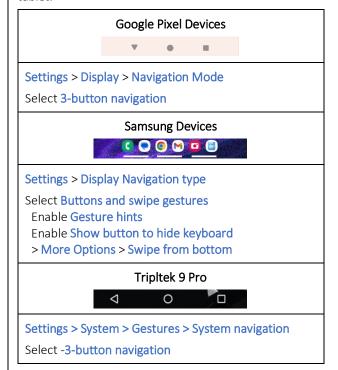


Wait for all App updates to complete.

3-button navigation

Enabling soft buttons on the bottom of the screen will help navigation through large entry forms as there will be a **dedicated back button** and a key to collapse the keyboard.

Enabling **3-button** navigation depends on the brand of tablet:



Install the Google Keyboard GBoard

The Google keyboard **GBoard** is highly recommended for use with LandStar. **GBoard** can be downloaded and installed from the Google PlayStore if the device has GMS (Google Mobile Services).

Play Store > search for Gboard > Install Gboard - the Google keyboard

Once installed follow the instructions to select and enable Gboard as the default keyboard.

When the keyboard is shown, you can change the **Gboard** preferences by clicking the **Settings** gear:



Click on Preferences:

Enable Number row

Enable Long press for symbols



It is possible to set the size of the keyboard by clicking the four-dot button:



Click the **Resize** button:

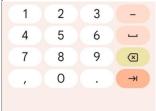


Use the horizontal bars to adjust the keyboard size:



Gboard keyboard alpha trick

When entering a field that is primarily numeric, a numeric keyboard like this is shown:



If you need to click a letter (like 'm' to switch a measurement to Meters), click on the space button:



and the keyboard will expand to alphanumeric entry:



Entering a Description in LandStar

LandStar8 has a dedicated text entry box for Codes , and a separate entry box for Descriptions :



You can save space by hiding the **Description** box and only showing the **Code** box, then enter the CODE and DESCRIPTION separated by a question mark '?':



To enter a ?, click and hold the m button:

m[?]

Everything entered after a '?' is placed in the Point Description.

Remember that Android devices have excellent Voice to Text capabilities. Click the microphone button:



After typing the '?' and just 'say' the description.

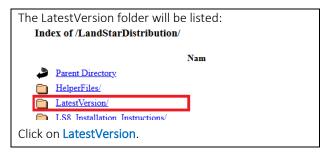
Download and install LandStar8 from the iGage website

Direct download from iGage.com

Make sure your field controller is connected to the internet by Wi-Fi or has cellular data enabled.

To directly download the **Latest** or **New Features** version, scan and open one of these QR codes on your field controller:





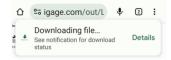
The web viewer on your field controller will automatically open and a file listing will be shown:



The .apk file in this folder is the installer file.

Click on the APK.

The file will begin to download:



After the file downloads::



Click on Open.

If this message is displayed:



Click on Settings >



Slide the Allow from this source slider to the right.

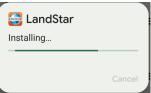
The installer should re-start automatically, if not click on the back button to proceed.

The Android operating system will ask:

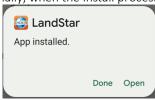


Click Install.

Then wait while LandStar is installed and deployed.



Finally, when the install process has completed:



Click on Open. A message will hint that the program requires additional authorization will be shown:



Click **Resume** to continue running the application.

When LandStar runs the first time, the following permissions may be requested:

Camera	needed to read QR codes containing projection information. Required to take pictures to attach to points as media.
Files	needed to store projects,

import/export files. needed to use the internal data

Location needed to use the internal data controller GPS for position.

Music, audio needed to voice information during collection (Fixed, Float, Connection

lost).

Nearby devices needed to connect to GNSS receivers

by Bluetooth and Wi-Fi.

Notifications needed to notify when running in the

background.

Phone the IMEI number of the cellular radio

is used for device identification.

Photos, Videos needed to store and attach media to

measurements.

LandStar may not be able to run if any of the requested permissions are denied.





Click Allow.



Click While using the app.



Click Allow.



Click Allow.



Click on Allow.

Location Service Permission

If you give permission to LandStar for location, but LandStar claims it does not have location permission:



Location services is *globally* disabled.

Drag down from the top of the screen and check if the device's **Location** setting is on:

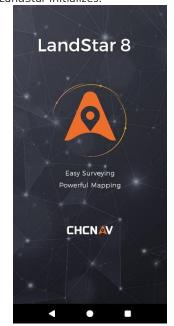
Tripltek 9 Pro



Google Pixel:

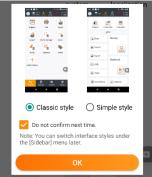


LandStar initializes:



The initial splash screen may take over a minute to complete as LandStar builds needed directory structures and databases.

Choose a menu type:



While the Simple style is simple, it does not match any of the descriptions in this User Manual or the FAQs. It may be best to use the Classic style while learning to navigate LandStar.

Click the **Do not confirm next time** checkbox, then click **OK**.

Install the USA Localization package

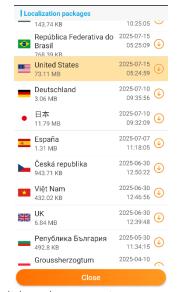
When prompted to download localization package files:



Click on Yes.



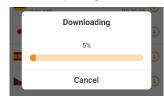
Wait for list to load / update.



Click on the appropriate country: United States.



Confirm the package download, click Yes.



It will take several minutes to download the package. The package contains special projection zones, GEOIDS and initial local settings.

After the download and installation is complete, a green checkmark will display next to the package.



Click Close (at the bottom) to return to the main menu.

Create a New project

From the main menu Project tab:



Click the **Projects** button.

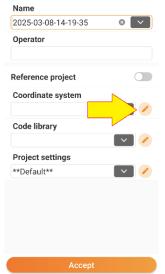






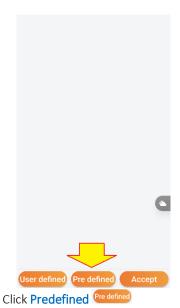
Click the New button at the bottom to create a new

project:



Optionally enter a Name for the first project.

Then click the edit pencil oto define a Coordinate system.





Set Region = United States, Area = NAD83 (2011) or another suitable region, type in a Filter, check the desired coordinate system and finally click Accept

NOTE:

Area

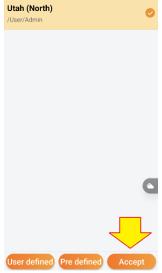
If you are in a state with special zones (IA, IN, MN, WE, ME, MT, NV, OR, or US Territories), click on the Area dropdown:



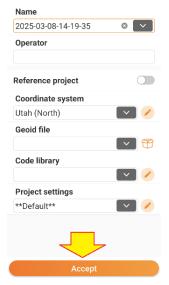
NAD83(2011)

then choose the special areas.

With the correct zone selected:



click Accept.



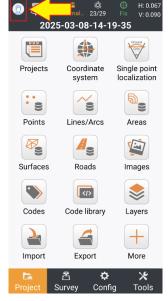
Always set the **Geoid file** to the appropriate Geoid for your area:



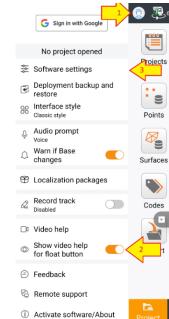
Finally click Accept.

Set Project defaults

From the main menu, click the profile head at the topleft corner to display the **System settings** panel:



The Side Panel will be shown:



2) Turn off Show video help for float button.

3) Click on Software settings:



Click Cloud service >



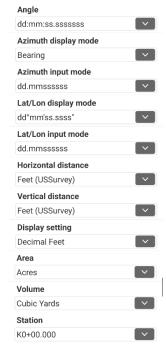
Set Cloud service = Google Drive and set the Share method to Share by Android system function. Click Back.

Typically, enable these options:

Auto OK / Accept
Force code to uppercase
Force description to upper case
Force point name to uppercase
Display point name input box
Display description input box

If you plan to use Codes (like TBC, CL, EP) enable: Display code input box

Click on Units:



At a minimum, consider setting Azimuth display mode = Bearing, Horizontal and Vertical distance = iFeet/USFeet, Area unit = Acres, Volume unit = Cubic Yards, and Station = K0+00.00. Click Back.

Spend a few minutes looking through the Decimals settings, GNSS settings, and Display settings. Additional information on these settings can be found in this User Manual.

Be sure to save your settings so future projects will share these settings by clicking save then Save as default.

Finally, click Back, Back to return to the main menu.

License LandStar8 with your registration code

LandStar 8 will run in demo mode until it is activated. All functions other than connecting to a device (GNSS receiver or a Total Station) are available in the unlicensed mode.

30-day trial licenses are also available by self-service, see the 30-day trial on page 11.

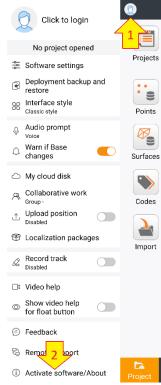
To permanently activate LandStar 8, purchase a Registration Code (formally called a Precode) from an authorized dealer. Licenses purchased from iGage will include a QR code which automates registration code and email address entry:



A purchased Registration Code can be:

- used on one device at a time
- freely transferred between devices many times

Click on the profile head at the top-left corner to display the System settings panel. Drag the panel up:

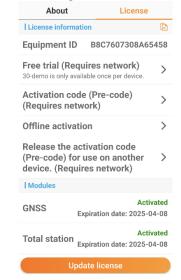


Click on **Activate software/About** at the bottom of the left-side menu.

Click on the License tab:



The licensing menu will be shown:



From this menu you can:

- Request an immediate 30-day free trial.
- Add a purchased (Pre-code) activation code for GNSS and TPS, or GNSS+TPS.
- Perform an offline activation.
- Release (Unbind) the activation code which allows transferring to another device.

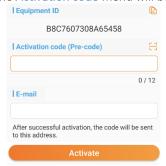
Add purchased activation code

Make sure your device is connected to the internet.

Click:

Activation code (Pre-code) (Requires network)

The Activation code menu will be shown:



Either type in your activation code, or click the scan button:



then scan the QR code provided on the license certificate. Verify that the correct email address is shown.

Finally click the **Activate** button:



The appropriate modules will be permanently activated:



After activation, an email detailing the license number will be sent to the email address:



Request a 30-day trial

Make sure your device is connected to the internet.



30-demo is only available once per device

Each new device is entitled to a single 30-day trial, if you attempt to obtain a 2nd trial, this message will be shown:



Contact iGage to extend the demo for another 30-days if needed.

Perform offline activation

Offline activations allow permanent codes to be installed on a device without an internet connection.

Click on:
Offline activation

The Offline activation menu is shown:



Use the copy button to copy the Equipment ID into the clipboard, then send the EID to your dealer. They will request an Offline activation code which will be delivered via the internet or as a 180-character scannable OR code.

Scan the QR code then click **Register** and the license will be applied to the Android device.

Release activation code

A LandStar license can only be active on one device at a time. A purchased license can be transferred a total of 999 times.

If a device is lost or damaged with the code attached, your dealer can help release the license for installation on a replacement device. The release could take several days; however you should be able to use the free 30-day demo on the replacement field terminal.

You can use a demo code to evaluate a new device for 30 days.

IMPORTANT

Before transferring LandStar to a new device, consider backing up EVERYTHING to a single Deployment backup file.

These Deployment backups include all settings, instrument profiles, existing jobs.

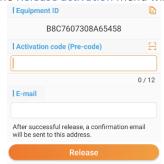
See Deployment Backup / Restore on page **Error! Bookmark not defined.**.

Make sure your device is connected to the internet. Click:

Release the activation code
(Pre-code) for use on another
device. (Requires network)



The Release activation menu will be shown:



Enter or scan the correct Activation code that is currently installed on the device.

Finally click Release to remove the license from the current device.

An email listing the release, with the full registration code will be sent to the registered email address:



Recovering a license from a lost or damaged field controller

If a device is destroyed or lost while a Registration code is bound to the device, contact your dealer. You may need to fill out a certification that the device is lost, retired and will never be in service again. The factory will need the original Registration code and the email it was associated with. It may take a day or two for the license to be released, however the new device will likely be eligible for a 30-day trial while the original license is being recovered.

Operating System optimizations

After installing LandStar, make the following operating system changes to prevent LandStar from freezing or losing permissions when running in the background, or after a few weeks of non-use.

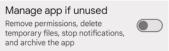
Google Pixelx

Click and hold on the program icon on the desktop:



Then click the **App info** button.

Under App permissions, disable Pause app activity if unused:

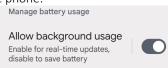


This will prevent the operating system from automatically removing permissions and cached files if LandStar is not used regularly. The removal of some permissions may result in LandStar being unable to start.

Under Mobile data usage enable background usage of mobile Background data and Unrestricted data usage:



Under App battery usage change battery usage to Allow background usage. This allows LandStar to continue to communicate with receivers and devices when another application is opened or while using the phone:



Tripltek 9 Pro

Click and hold on the program icon on the desktop:



Then click on **App info**.

