

To.
ACSL SOTEN Owners

May 30, 2024

Service Letter ACSL-SOTEN-SB24-006 ACSL TAKEOFF for SOTEN Version 1.13.6 Release Notes

Thank you for your continued use of ACSL SOTEN. On May 30, 2024, ACSL TAKEOFF for SOTEN version 1.13.6 was released with the improvements described in this document. Please read this document thoroughly and then follow the instructions to update ACSL TAKEOFF on your devices and the firmware of your ACSL SOTEN aircraft.

The ACSL TAKEOFF for SOTEN ground control application version 1.13.6 includes SOTEN vehicle firmware version 1.2.1, CX-GB100 and CX-GB300 camera firmware version 1.17, and CX-GB200 and CX-GB400 camera firmware version 1.16. When successfully updated, the "System Information" tab in the "Settings" view of the TAKEOFF application should indicate "Nx 1.2.1" as shown in Figure 1.

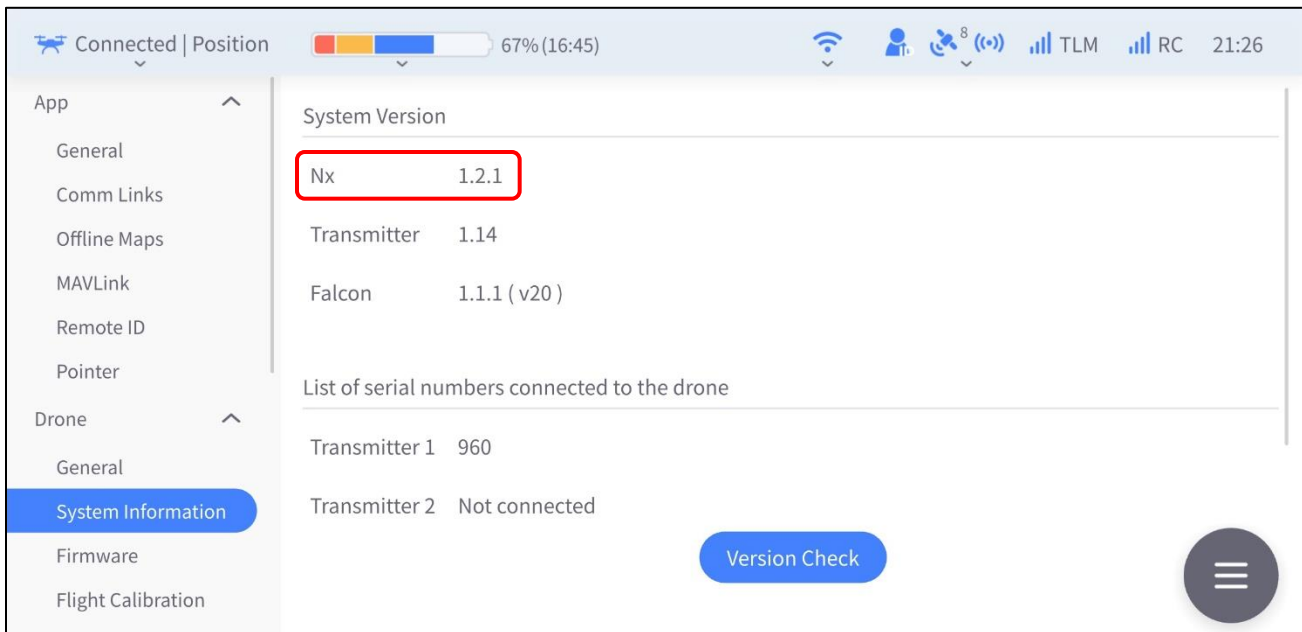


Figure 1. ACSL TAKEOFF ground control application "System Information" tab.
**Note that "Falcon 1.0.9" may be displayed without any change in functionality.*

Firmware Update Items

- The camera Electronic Image Stabilization (EIS) feature is now defaulted to ON.
- A gimbal reset function was added to reset the camera gimbal if it begins to behave abnormally. This may occur due to environmental factors such as strong winds. In this case, press the "Reset Gimbal" button, as shown in Figure 2., to re-initialize the camera gimbal. This button can be accessed in the advanced camera settings menu (accessed by pressing the gear icon in the camera settings menu).

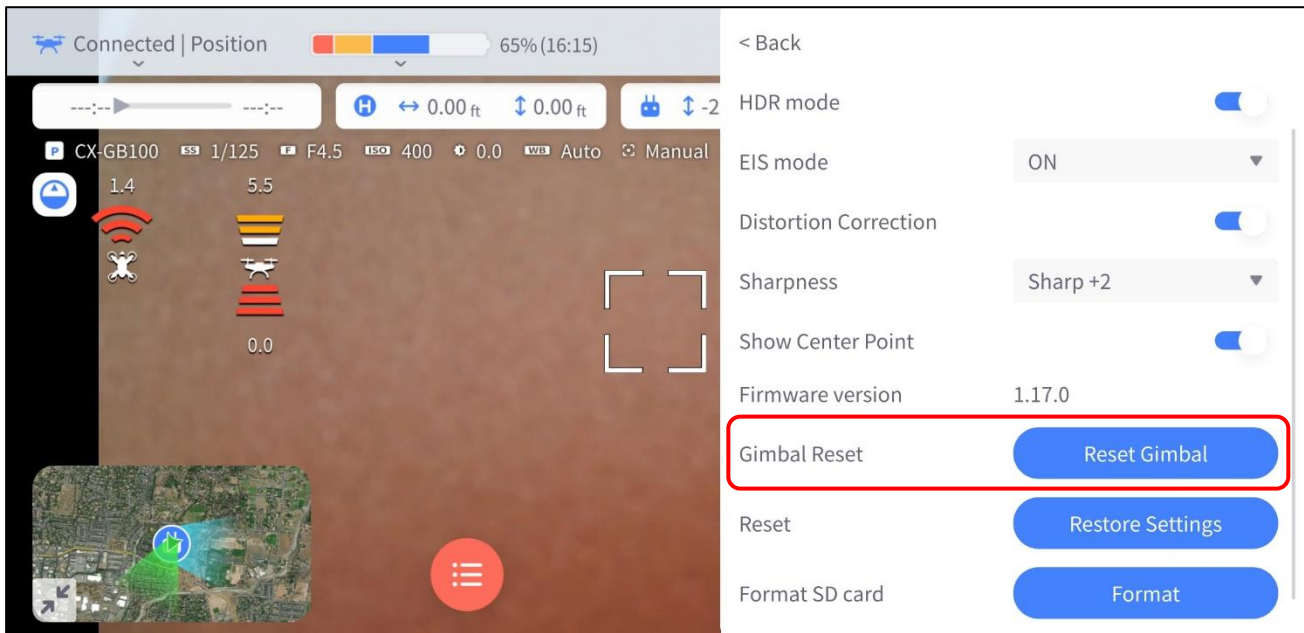


Figure 2. The gimbal reset button.

- The ability to continuously record video in high-temperature environments was improved. When shooting continuously in a high-temperature environment, the "Camera High Temperature" warning message will no longer be displayed but the camera may become quite hot.
- The initial configuration of the video source is now automatic. No manual configuration is required.
- The gimbal tilt (pitch angle) speed is now automatically adjusted depending on the camera zoom factor. At high magnification, the gimbal tilt speed is automatically slowed down to make it easier to adjust the camera view.
- It is now possible to set the gimbal angle with the smart controller S3 switch. When the S3 switch is pulled back, the camera gimbal faces forward, and when it is pushed forward, the camera gimbal faces straight down.
- The speed limit for flight in position (POS) mode when GPS is not reliable has been increased from 0.8 m/s (1.8 mph) to 2.0 m/s (4.5 mph).

ACSL TAKEOFF Ground Control Application Improvements

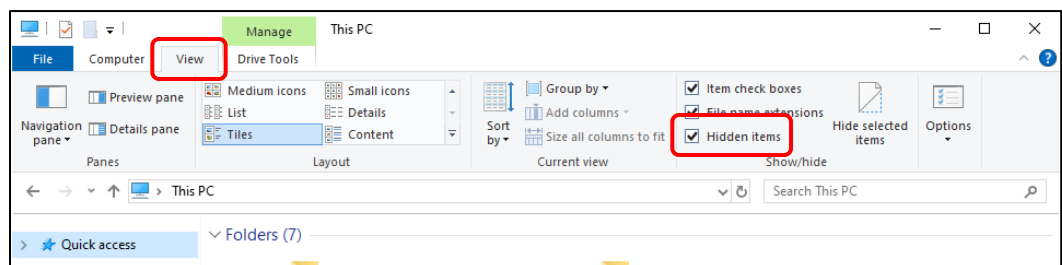
- Upon the first startup after installation, a popup window prompts the user to select units of measurement.
- Remaining flight time was added to the battery level indicator.
- The live stream video resolution indication was moved to the camera information section.
- The gimbal angle indicator was changed to the industry standard of 0 degrees for forward and -90 degrees for downward.
- The "Vision System" settings element was removed from the general settings. This setting had no effect for ACSL SOTEN and was therefore unnecessary.
- The wording of the setting "Home Altitude" was changed to "Go Home Altitude".
- The wording "Save Overwrite" when saving a flight plan was changed to "Save".
- Improved retrieval of terrain height information for maps.
The following steps are required to reflect the newly acquired altitude information.
**Only necessary when upgrading from a previously installed version.*

- Android

1. Connect your Android device to a PC before updating TAKEOFF. Copy the cached data in the following folder to the PC:
[Android\data\jp.co.acsl.takeoff\files\TAKEOFF\Missions](#)
2. UNINSTALL THE OLD VERSION OF THE TAKEOFF APP
3. Install TAKEOFF1.13.6
4. Connect your Android device to the PC again and copy the data files copied in step 1 back to the above folder.

- Windows

1. Install TAKEOFF1.13.6 (no need to uninstall the old version)
2. Open "Explorer" and open the following folder:
[C:\Users*\(user name\)*](#)
3. Ensure that the "Hidden Items" checkbox under the "View" tab is checked.



4. Delete all data files in the following folder:
[C:\Users*\(user name\)*\AppData\Local\cache\MapCache300](#)
**A file named "mapCache" will be automatically generated a few seconds after deletion*

- Android only: added a feature to save flight logs to any location on the device.

Precautions

PRECAUTION 1:

When the firmware is updated, the following settings in the TAKEOFF application will be automatically changed to the default values. Please note that previously saved settings will not be retained. If desired, record these settings before performing the update.

- Restrictions (GPS) settings will now default to those shown in Figure 3.

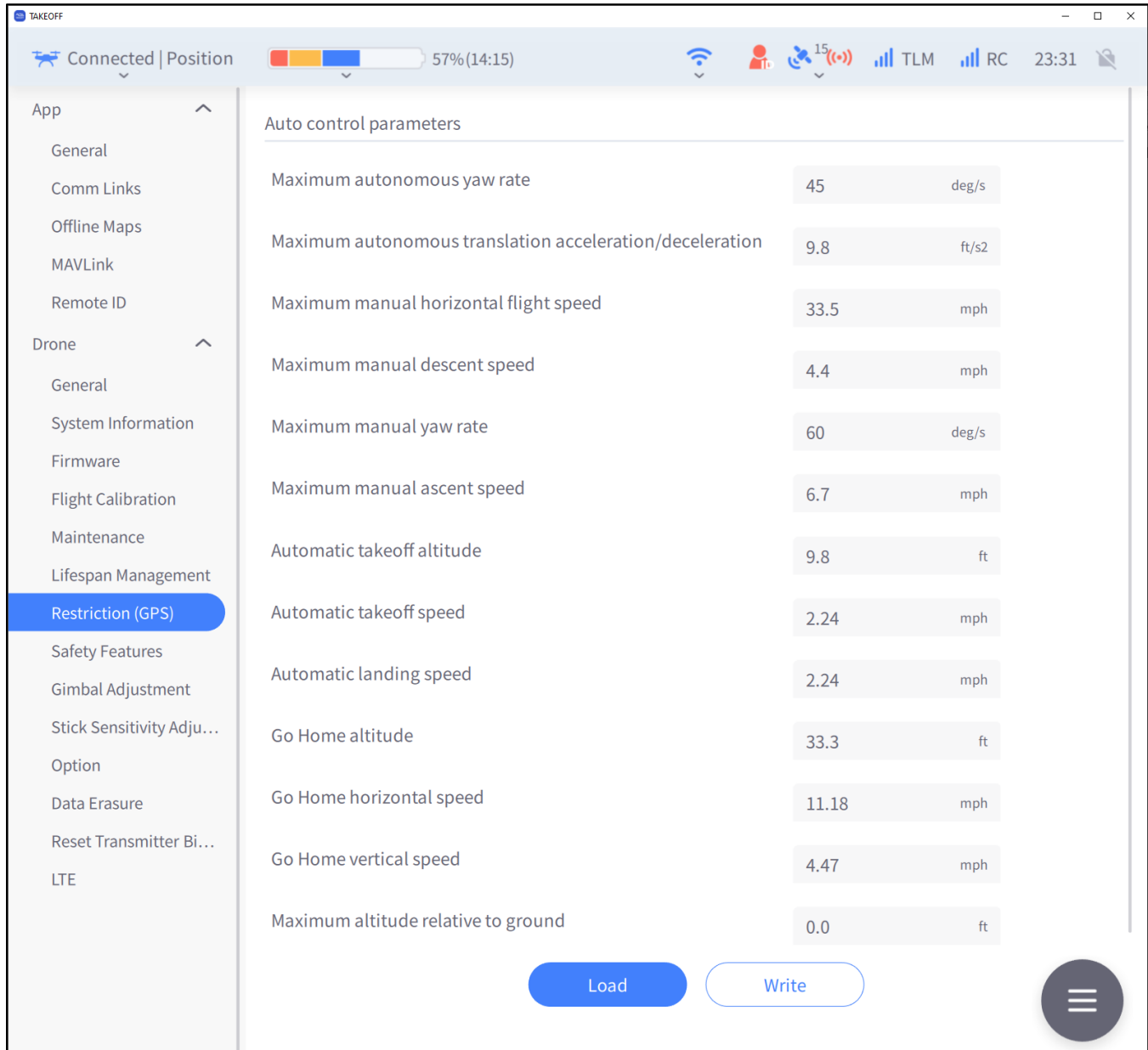


Figure 3. The Restrictions (GPS) new default settings.

- The Safety Features settings menu has been changed as shown in Figure 4.

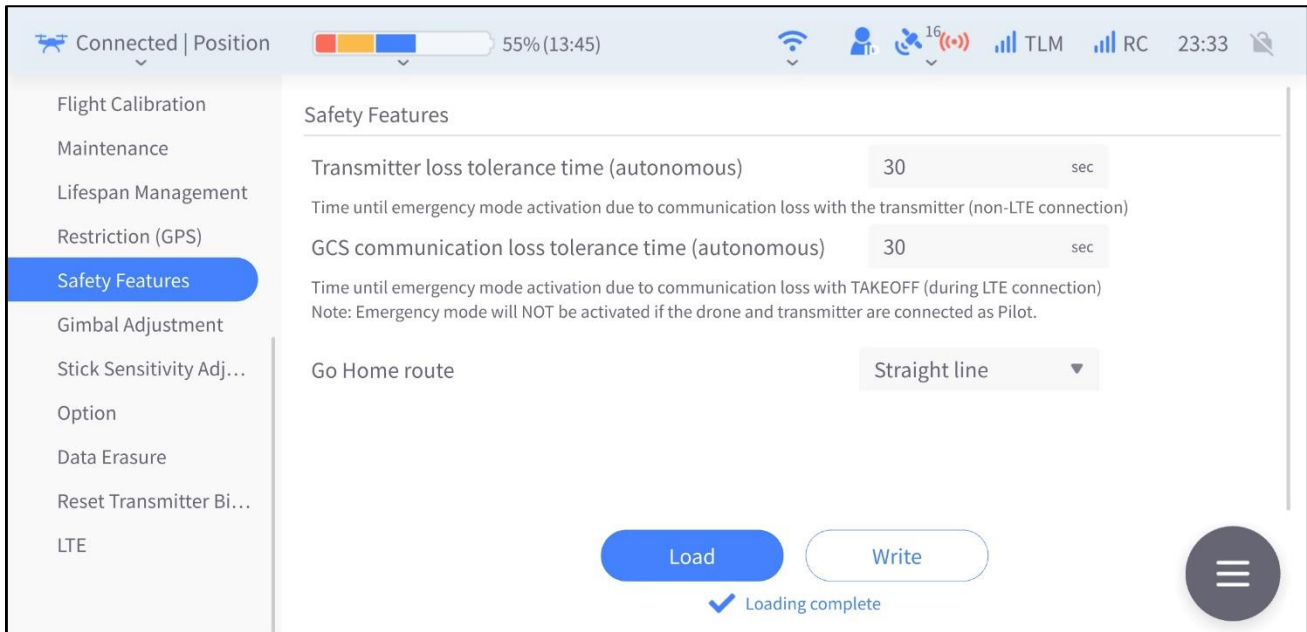


Figure 4. The Safety Features new default settings.

- The Option settings menu has been changed as shown in Figure 5.

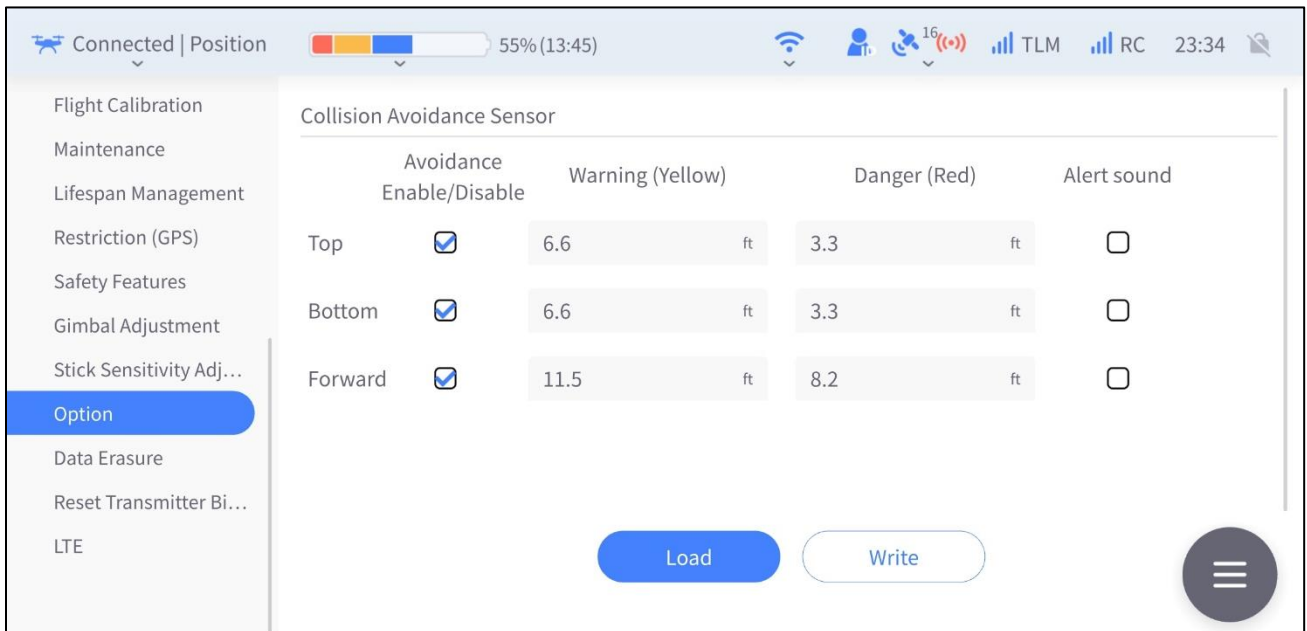


Figure 5. The Option new default settings.

PRECAUTION 2:

When using the smart controller to update the firmware, be sure to remove the SD card from the smart controller, uninstall the TAKEOFF app, and then install the latest version of the TAKEOFF app and update the SOTEN vehicle firmware.