RELEASE NOTES

Trimble® Access™ Aerial Imaging Software

Version 2.2
Revision A
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Legal Information

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Aerial Imaging Software Version 2.2

These Release Notes contain information about the Trimble® Access™ Aerial Imaging software version 2.2.

This version of Aerial Imaging is backward compatible with projects created in Aerial Imaging version 2.x.x.

Safety improvements and fixes

- It is now possible to enable a geofence per flight. A geofence is a virtual perimeter which prevents the rover from exiting the defined geofenced area. The perimeter is defined by a height and radius around:
  - the GCS location for the UX5 HP and UX5. If there is no GCS location available, then the takeoff location is used.
  - the first GPS-fixed location for the ZX5.
- You must acknowledge the eBox LEDs and drive unit sound before you can launch the system.
- Starting and canceling or aborting the landing is now accompanied by the following voice messages:
  - Landing Started
  - Landing Aborted
- To help you take appropriate action when a low battery warning or error appears, the warning and error message:
  - does not appear again when the landing is confirmed.
  - can now be accepted and hidden.

New features

- Aerial Imaging version 2.2 supports the ZX5 aerial imaging rover, including:
  - Flight planning
  - Flight checklist
  - Post-flight checklist
  - Export functionality
- It is now possible to correct for vignetting within the Aerial Imaging software, using the export checklist.
- The maintenance section now describes how to:
  - Bind the tracker transmitter and receiver.
  - Replace the hot shoe cable in a UX5 HP rover body.

Enhancements

- Download of the gBox log file is now faster.
- Projects are no longer unnecessarily saved.
- The merging algorithm used for merging blocks has been improved.
- Error and warning handling has been improved for:
  - Exporting a flight to an image processing file.
  - Importing KML files.
- The GNSS port now detects if it receives valid data.
- You can now set the GNSS port to *Autodetect* or to an existing COM port.
- Flights shown in the export checklist are now ordered so that the newest flight is at the top of the list.
- Because the flight settings differ between the fixed wing rovers (UX5 HP and UX5) and the copter (ZX5), you must now specify the rover and sensor per flight. This setting is also used to filter the blocks that can be selected for the flight.
- A warning message appears when you change the rover or sensor type of a block after adding it to a flight.
- Flight path entries and exits are all represented as circles, which corresponds with the actual flight path.
- The *Insert the tracker (optional)* step of the flight checklist has been updated to ensure that the receiver and transmitter are bound and that the transmitter is powered on.
- The following maintenance procedures have been updated:
  - Replacing the launcher cord.
  - Replacing a servo.
- The following content and layout has been improved:
  - Project details
  - Flight summary (in TXT and PDF format, and at the start of the checklist)
- It is now possible to indicate if you are using RGB or NIR images during export.
- The flight contour can now be changed per flight.
- The name of a block is now truncated when it is too long, to ensure that the flight time and height can be displayed in the text field.
- It is no longer possible to change a flight when it has been flown, except for the takeoff and landing locations as these items are shared among the flights of the project.
- The numbering of blocks is now more logical.
- A warning sign now appears next to the flight name when the flight time exceeds the maximum value.
- The georeferenced map that is used as the reference for drawing shapes is now indicated as the master map .

- Several UI and layout changes increase clarity and visibility:
  - The flight definition screen has been improved, and now allows you to change the landing during flight.
  - The pins and heading arrows for the takeoff and landing locations have been redesigned.
  - The *Select file* dialog used during export and import has been customized.
  - The grid color automatically adapts to the offline map type (satellite or road).
  - The GPS location of the GCS is now always on top of the takeoff or landing pin.
  - The loading of projects on startup of Aerial Imaging is now shown with a progress bar.

Resolved issues

- Several issues that result in a shutdown or freeze of the Aerial Imaging software are now resolved.
- Several issues with export to JXL are now resolved.
- Several issues with splitting and merging blocks are now resolved.
- An issue where the offline map download buttons were visible when there was no online map is now resolved.
- An issue where the selected takeoff or landing pin did not appear as the top pin is now resolved.
- The first boundary point of a new shape can now lie in the middle of an existing shape.
- It is no longer possible to save a project without any visible georeferenced maps.
- Glitches in the display of the flight contour are now resolved.
- An issue where the connection type was wrong after dragging blocks in the flight overview is now resolved.
- An issue where the connection waypoints did not properly save after they were moved around on the map is now resolved.
- The export of files with long names no longer results in export failure.
- An issue where the pixel width and height values were always 0 in the JXL file for an image that was corrected for vignetting is now resolved.
- The exported flight trajectory to a KML or GPX file no longer contains errors.
- An issue where the shape of a SHP file did not import is now resolved.
- An issue where the estimated time for split blocks was incorrect is now resolved.
- An issue where a newly defined takeoff or landing location is visible in the list when the properties of another location are open is now resolved.
- The default name of a PDF export is no longer preceded by "test/".
- A warning message now always appears when you attempt to split a block that is already added to a flight.
- An issue where the rover detection message did not appear when Aerial Imaging was still loading a large number of project (more than 15) is now resolved.
- An issue where changing the takeoff or landing heading on the map did not update the value in the heading parameter field is now resolved.

- An issue where the flight plan disappeared from the map after export to PDF is now resolved.
- An issue where the *Projects* screen did not update after saving a project is now resolved.
- An issue where the online map did not display after enabling Internet access is now resolved.
- An issue where the size of the area was incorrect after moving a block on the map is now resolved.
- Several issues with changing landing settings during flight are now resolved.
- When using OpenStreetMap on the tablet, the map no longer moves when you attempt to move a shape.
- An issue where a change that was discarded for one project appeared in another project is now resolved.
- An issue where the block status was not correctly represented in the block selection for a flight is now resolved.
- An issue where the flight line shifted when using OpenStreetMap is now resolved.
- An issue where the flight time did not update after changing the takeoff and landing location is now resolved.
- When switching to OpenStreetMap, the map view no longer zooms out to the world view.
- It is now possible to add boundary points to a block when the online map is not visible.
- An export to a full medium no longer results in a corrupt file.
- An issue where a block turned completely black after merging it is now resolved.
- Several GUI and layout issues are now resolved:
  - Hover states are now consistent.
  - The syntax of a folder path now corresponds to the syntax which is native to the operating system.
  - Visibility icon is no longer enabled when no layer is selected.
  - After a split, none of the split blocks are selected.
  - Map view after canceling the flight checklist is now consistent.
  - Georeferenced map layers no longer have a lock/unlock status; they can always be dragged, and the ability to delete them depends on the availability of other georeferenced map layers.
  - Visibility state of georeferenced maps with or without Internet access is now consistent.
  - Aerial Imaging window resizes correctly when enlarging.
  - Editing shapes in draw mode is now consistent for each shape type (polygon, rectangle, ellipse).
  - The rotate arrow and number of avoidance zones no longer shift when making the shape visible.

Installation information

Installing the software and licenses on the GCS

Operating system installation

With a new Trimble Tablet, the operating system is not installed. Turn on the Tablet to install the Windows® operating system and then apply Windows updates. The operating system must be Windows 7.

Software and license installation

Before you use your controller, you must install the applications and licenses using the Trimble Installation Manager. If you have:

- Never installed the Trimble Installation Manager, go to www.trimble.com/installationmanager for installation information.
- Previously installed the Trimble Installation Manager, you do not need to reinstall it because it updates itself automatically. Select *Start* / *All Programs* / *Trimble Installation Manager* to start the Installation Manager.

For more information, click *Help* in the Trimble Installation Manager.

Note – *An update of the Aerial Imaging software usually includes an eBox firmware update. The update is triggered during the flight checklist and can take up to 30 minutes.*

Updating office software

When you upgrade to version 2.2, you must also update your office software.

When you upgrade the controller using the Trimble Installation Manager, the office software on the computer that has the Trimble Installation Manager installed is also upgraded.

To upgrade other computers that were not used to update the controller, install the Trimble Installation Manager onto each computer and then update the office software.

Documentation

The *Aerial Imaging Help* is "context-sensitive." To access the Help, tap **?** at the top of the screen.

A list of Help topics appears, with the relevant topic highlighted.