

LEICA BLK2FLY

FLYING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

RELEASE NOTES

FIRMWARE VERSION 1.2.4 – 23rd MAY 2022

These Release Notes contain important information about the Leica BLK2FLY firmware version 1.2.4 and BLK2FLY Live app v1.8.2. It is important to update both parts, otherwise flying will be blocked.

BLK2FLY firmware	1.2.4
BLK2FLY Live app	1.8.2
Cyclone REGISTER 360	v2022.0.1
Cyclone REGISTER 360 BLK Edition	v2022.0.1

- The BLK2FLY app can be downloaded and updated via Apple App Store.
- BLK2FLY firmware update (OTA) is done within BLK2FLY Live app.

NEW FEATURES

- Take-off / Landing:
 - Return to launch is now possible even if there is no GNSS signal available.
 - 2-step approach to prevent unintended take-off.
 - Landing proposal when manually flying close and towards ground.
 - When landing the camera view will now switch downwards.
- 2D Map Scan:
 - When planning an area scan or a geofence improved altitude slider allows for finer adjustments.
- LTE:
 - Improved support for various mobile data providers.
- Battery:
 - Shutting down the BLK2FLY is now possible with a long button press.
 - The battery can now be put into auto-discharge mode within the BLK2FLY Live app using Battery Management screen.

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- Reduced the time the user needs to hold the battery button to enter pairing mode.
- Support:
 - Issues can now also be reported when BLK2FLY is powered over USB-C.
- Settings:
 - App language can now be set in the general settings page.
- General:
 - Prevent iPad from going to sleep if BLK2FLY Live app is open.
- Black box:
 - In case of a serious incident the BLK2FLY will need some time to collect the data that can help identify the cause of the issue. Spinning red-yellow pattern will appear followed by a device restart.
- HxDR:
 - Take-off is no longer prevented if there are ongoing scan uploads. The uploads automatically get paused and then resumed after landing.
 - Added upload status icons to Project Browser tiles page for a better status overview.

IMPROVEMENTS / BUG FIXES

- Improvements to issue reporting.
- BLK2FLY to iPad communication improvements.
- Fixed a bug where in rare cases the app could get stuck on start-up screen.
- Fixed an issue where the live view was not forward-facing during Return-to-home.
- Fixed occasional wrong display of notification "Video stream and 3d map data not available".
- Fixed a bug that was preventing accessing LTE and NRTK settings when flying.
- Fixes a bug that in rare scenarios caused the BLK2FLY to fly backwards between missions.

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- Fixes a bug that required a restart when entering new NRTK credentials.
- Positioning system:
 - Fixes the spurious GNSS position losses.
 - Improved robustness by redundant barometer and magnetometer sensors.
- Boot-up process: Reduced occasionally failed bootups (LED blinking red).
- Fixes an issue that could sometimes lead to a red LED pattern when powered from USB-C.
- Other minor fixes and improvements.

KNOWN ISSUES

- Following functionality is not available when BLK2FLY is controlled via LTE.
 - Emergency Off switch.
 - Start/Stop recording.
 - Take-off.
- 2D Map Mission rotation & position may change.
 - Temporary workaround: Abort the mission and re-plan mission
- Mission plan is not automatically cancelled after RTH is triggered
 - Temporary workaround: Mission must be cancelled manually by user
- If BLK2FLY lands during an ongoing scan (e.g. due to low battery), the scan data recording will not resume at next take-off.
 - Temporary workaround: A new scan mission needs to be started.
- When switched to other language than English, text visualisation is not always correct.