LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

RELEASE NOTES

FIRMWARE VERSION 3.2.0 – 5th SEPTEMBER 2023

These Release Notes contain important information about the Leica BLK2GO and Leica BLK ARC new firmware version 3.2.0.

It is highly recommended to always use the latest version of the BLK2GO and BLK ARC firmware in a compatible configuration.

For BLK ARC integrators, please check the BLK ARC section.

Cyclone REGISTER 360 v2023.0.3 is required for connection to BLK2GO and BLK ARC updated to the new 3.2.0 firmware.

BLK2GO firmware	3.2.0
BLK2GO Live app (iOS)	1.4.9
BLK2GO Live app (Android)	1.4.9
Cyclone REGISTER 360	v2023.0.3
Cyclone REGISTER 360 BLK Edition	v2023.0.3
BLK Data Manager	v2023.0.3

BLK ARC firmware	3.2.0
BLK ARC-UI	2.1.0
Cyclone 3DR scripts for offline mission planning	3.0
Cyclone 3DR	v2023.1.4
Spot firmware	3.3.x
SpotCORE firmware	3.2.x
SpotCORE I/O firmware	3.3.x
Portainer	2.1.1 or later

The firmware can be downloaded from myWorld @ Leica Geosystems customer portal as well as from the website https://shop.leica-geosystems.com/blk2go-firmware.

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WHAT'S NEW

- Improved image quality. The image quality of the panoramic images and the detail images has been improved and the image artifacts are significantly reduced. In addition to the quality improvement, the image file sizes are reduced, which results in faster import in Cyclone REGISTER 360 and faster upload to Reality Cloud Studio.
    - The detail images are 70% smaller.
    - The non-compressed higher quality panoramic images are 75% smaller, which significantly reduces the scan file size.
    - The compressed panoramic images file size is unchanged.

  These improvements are thanks to a new image compression format being used.

- The point cloud coverage improvement is now automatically applied to all scans. This generally improves the point cloud coverage in certain areas and surfaces, like translucent surfaces. This option was previously configurable in the device webpage.

- Increased data security with a new authentication mechanism. The connection to the device from BLK2GO Live app, Cyclone REGISTER 360, BLK Data Manager, BLK ARC-UI or any other application connecting to the device is now more secure.

BLK ARC ONLY

- For BLK ARC integrators only: firmware version 3.2.0 is not compatible with module API version 0.7.0. A new module API will be released soon. In the meantime, please do not upgrade the firmware on BLK ARC in order continue having firmware and API compatibility.

Leica Geosystems AG, Heerbrugg, Switzerland, 2023

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BUG FIXES

- Fix a rare SLAM issue which caused the stop of the scan.
- Fix a recent issue which prevented the direct upload of datasets from the sensor to Reality Cloud Studio.
- Fix a rare issue which caused some point cloud noise and disturbances.
- BLK ARC only: fix an issue which prevented the detail images collected in static mode from being saved to the scan data (b2g file).
- BLK2GO Live app: fix an issue which triggered the recovery instead of the factory reset when done from the app. BLK2GO Live app v1.4.9 is needed.
- BLK2GO Live app: fix an issue which affected the point cloud density. This was only affecting the visualization in the app. BLK2GO Live app v1.4.9 is needed.
- General system and stability improvements.
- Fixes for minor bugs.

KNOWN ISSUES

- BLK2GO and BLK ARC devices updated to firmware version 3.2.0 cannot connect to older Cyclone REGISTER 360 and BLK Data Manager versions. REGISTER 360 v2023.0.3 is required.
- In some rare cases, the LED might be blinking red after booting or during the firmware upgrade. If this happens, wait for the LED to be in solid state, no blinking. If the LED is solid red, turn off the device and turn it on again. If LED is solid green, the device is ready.
- In some rare cases, connecting the device via USB-C cable can lead to red LED. If this happens, unplug and plug again the USB-C cable. This should help solve the issue and get a green LED.
- Occasionally, it can take longer to boot up the device, so as to ensure, that the system is 100% ready for scanning when the LED is green.
- In the device webpage, the preview of the detail image is in some cases not available. Independent from the image preview, the image is correctly stored in scan data (b2g file).

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