

LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

RELEASE NOTES

FIRMWARE VERSION 2.2.2 – 7th JULY, 2022

These Release Notes contain important information about the Leica BLK2GO and Leica BLK ARC new firmware version 2.2.2.

This is a BLK ARC specific firmware release.

For BLK2GO, this version is identical to the previous version, 2.2.1. Therefore, BLK2GO devices with version 2.2.1 can stay in that version. Upgrade to 2.2.2 is also possible. Devices with firmware 2.2.0 or older are recommended to upgrade to this new version 2.2.2.

It is highly recommended to always use the latest version of the BLK2GO and BLK ARC firmware in a compatible configuration. Downgrade to older firmware versions is not recommended.

| | |
|----------------------------------|-------------|
| BLK2GO firmware | 2.2.2/2.2.1 |
| BLK2GO Live app (iOS) | 1.4.4 |
| BLK2GO Live app (Android) | 1.4.4 |
| Cyclone REGISTER 360 | v2022.1 |
| Cyclone REGISTER 360 BLK Edition | v2022.1 |

| | |
|--|------------------|
| BLK ARC firmware | 2.2.2 |
| BLK ARC-UI | 1.1.0 |
| Cyclone 3DR scripts for offline mission planning | 1.0 |
| Cyclone 3DR | v2021.2 or later |
| Spot firmware | 3.1.1 |
| SpotCore firmware | 3.1.0 |
| Portainer | 2.1.1 or later |

For BLK2GO, the firmware can be directly installed from the BLK2GO Live app and the BLK2GO device webpage (10.1.1.1).

For BLK ARC, the firmware can be directly installed from the BLK ARC device webpage (10.1.1.1).

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

LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

WHAT'S NEW – BLK ARC ONLY

- Fix issue with streaming the live point cloud data. This is relevant only for BLK ARC API users.



LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

RELEASE NOTES

FIRMWARE VERSION 2.2.1 – 30th JUNE, 2022

These Release Notes contain important information about the Leica BLK2GO and Leica BLK ARC new firmware version 2.2.1.

This firmware version only contains bug fixes. Please see the next pages of this document to learn more about the latest features.

It is highly recommended to always use the latest version of the BLK2GO and BLK ARC firmware in a compatible configuration. Downgrade to older firmware versions is not recommended.

| | |
|----------------------------------|---------|
| BLK2GO firmware | 2.2.1 |
| BLK2GO Live app (iOS) | 1.4.4 |
| BLK2GO Live app (Android) | 1.4.4 |
| Cyclone REGISTER 360 | v2022.1 |
| Cyclone REGISTER 360 BLK Edition | v2022.1 |

| | |
|--|------------------|
| BLK ARC firmware | 2.2.1 |
| BLK ARC-UI | 1.1.0 |
| Cyclone 3DR scripts for offline mission planning | 1.0 |
| Cyclone 3DR | v2021.2 or later |
| Spot firmware | 3.1.1 |
| SpotCore firmware | 3.1.0 |
| Portainer | 2.1.1 |

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

BUG FIXES

- Fix issue with red LED when installing new firmware.
- Fix battery indication in the BLK2GO device webpage.
- Fixes for minor bugs.

LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

RELEASE NOTES

FIRMWARE VERSION 2.2.0 – 12th MAY, 2022

These Release Notes contain important information about the Leica BLK2GO and Leica BLK ARC new firmware version 2.2.0.

Please note that this firmware version introduces a change in the BLK2GO power button behaviour. Find the details in the BLK2GO section below.

It is highly recommended to always use the latest version of the BLK2GO and BLK ARC firmware in a compatible configuration. Downgrade to older firmware versions is not recommended.

| | |
|----------------------------------|-----------|
| BLK2GO firmware | 2.2.0 |
| BLK2GO Live app (iOS) | 1.4.0 |
| BLK2GO Live app (Android) | 1.4.1 |
| Cyclone REGISTER 360 | v2022.0.1 |
| Cyclone REGISTER 360 BLK Edition | v2022.0.1 |

| | |
|--|------------------|
| BLK ARC firmware | 2.2.0 |
| BLK ARC-UI | 1.1.0 |
| Cyclone 3DR scripts for offline mission planning | 1.0 |
| Cyclone 3DR | v2021.2 or later |
| Spot firmware | 3.1.1 |
| SpotCore firmware | 3.1.0 |
| Portainer | 2.1.1 |

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

WHAT'S NEW

- The point cloud density can now be configured before the data capture. This setting is available in the device webpage in three options: full density, medium density, and low density.

LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

With the full density option (the default), the point cloud is exactly as it has been so far, with no filtering. The medium and low density settings will create more filtered point clouds and smaller files that will be faster downloaded and processed.

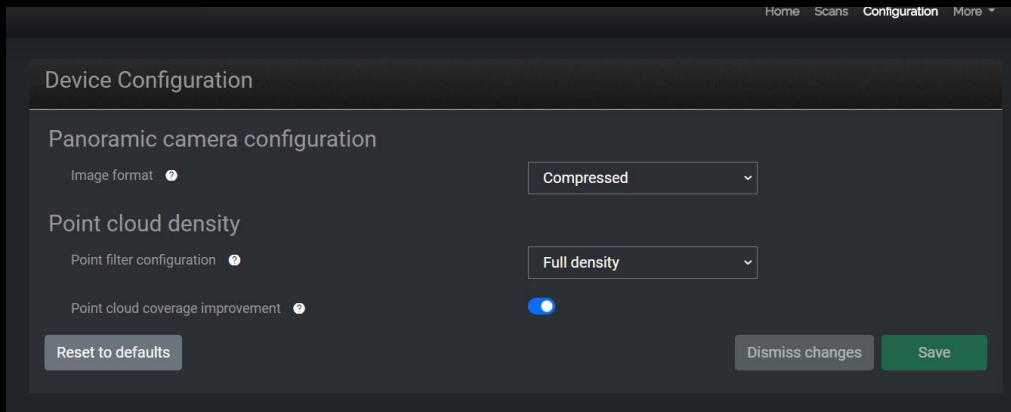
- Improved point cloud coverage. When enabled, this generally improves the point cloud coverage in certain areas and surfaces, like translucent surfaces. The coverage improvement is by default enabled and can be disabled in the device webpage (see device webpage section below). After changing this setting, a reboot of the BLK2GO and BLK ARC is required.
- Improved detail image quality. Colors are now nicer thanks to an improved white-balancing, there is more consistency between detail images and panoramic images, and less artefacts in dark areas.

WHAT'S NEW – DEVICE WEBPAGE

- For security reasons, it is required to login to connect from your browser to the device webpage (10.1.1.1 when connected per WiFi, 192.168.42.1 when connected per USB). The password is the one written on the connection card and in the battery compartment of the BLK2GO or at the bottom of the BLK ARC.
- When remotely starting the scan from the device webpage, if the initialization is not successful it is now possible to acknowledge the error from the webpage and remotely start a new scan.
- A configuration section is now available with the following options:
 - Panoramic image camera settings, allowing to configure the compression of the images (previously only available in the BLK2GO Live app).
 - Point cloud density (details mentioned above).
 - Point cloud coverage improvements (details mentioned above).

LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE



Configuration section in the device webpage

WHAT'S NEW – BLK2GO ONLY

- Panoramic images can be captured on demand while scanning.
 - This allows to capture panoramic images at specific locations. These images are captured in addition to the automatically captured panoramic images.
 - On demand panoramic images will be available for processing and visualization in the upcoming Cyclone REGISTER 360 version.
 - To capture panoramic images, long-press the BLK2GO power button while scanning. The LED will blink green. A notification will be shown in the BLK2GO Live app.
 - Note: the capture of detail images is unchanged, images are captured with a short-press of the BLK2GO power button. **To stop the scan and to shut down the BLK2GO, now press and hold the power button for 4 seconds. The time to stop the scan is slightly longer than with previous firmware versions.**
- Firmware can be checked and updated using the BLK2GO Live app, in addition to the device webpage. BLK2GO Live app version 1.4.0 or higher and in online connection mode is required (QR code displayed in the app and scanned by the BLK2GO). The upcoming firmware version will be available for update from the app.

LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER
AUTONOMOUS REALITY CAPTURE

- Scan duration is available in the live display in the BLK2GO Live app. BLK2GO Live app version 1.4.0 or higher is required.
- Detail images can be accepted or rejected after capture from the BLK2GO Live app (version 1.4.0 or higher is required). Rejected images are not stored in the b2g scan file.

WHAT'S NEW – BLK ARC ONLY

- USB connection stability improvements with SpotCore.

BUG FIXES

- Fixes for minor bugs.
- General system improvements.

For details on how to update the firmware version on the BLK2GO or BLK ARC, see the [firmware guide](#) available on myWorld @ Leica Geosystems customer portal. For additional support, please contact your local reseller for first level support.