

LEICA BLK2GO & BLK ARC FIRMWARE UPDATE & DEVICE WEBPAGE

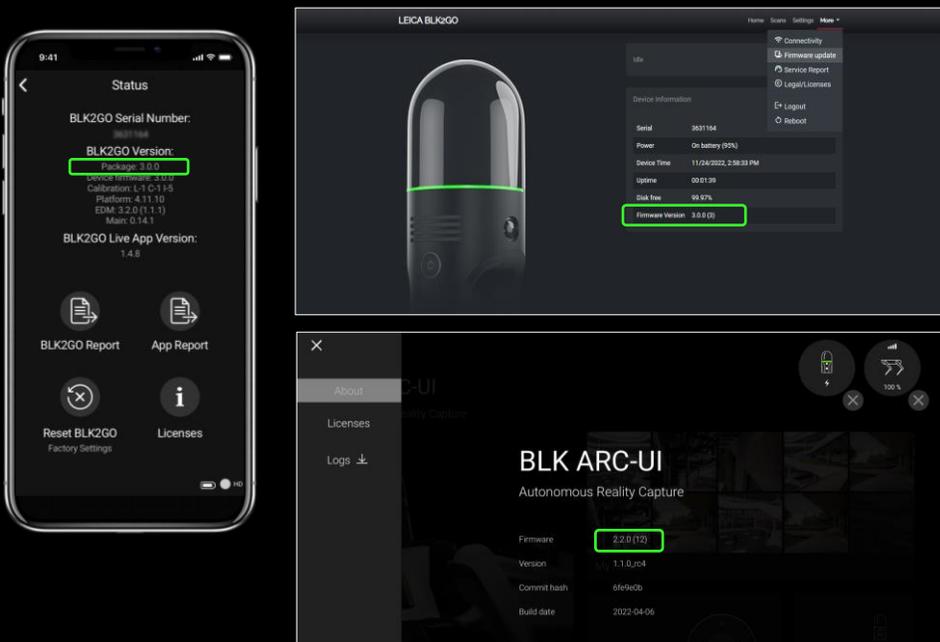
This document covers BLK2GO and BLK ARC device webpage settings and functionality including:

- Firmware update
- Remote start / stop a scan
- Settings
- Download and delete scans
- Service report
- Connectivity

HOW TO UPDATE THE FIRMWARE

Check out the current firmware version

- On BLK2GO Live app:
 - Status → More details → BLK2GO Version: Package
- On BLK ARC-UI:
 - Hamburger menu → About → Firmware
- On the device webpage by connecting BLK2GO / BLK ARC to your PC
 - via Wi-Fi and typing the address **10.1.1.1** into your preferred web browser



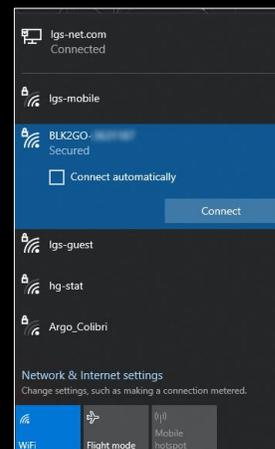
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The firmware can be installed via the device webpage and via BLK2GO Live app.

Update from the device webpage (Wi-Fi only)

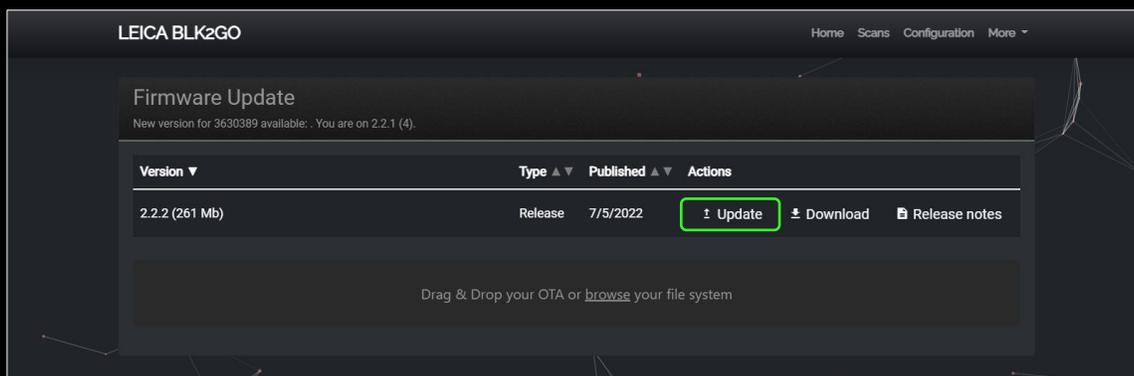
1. Connect your PC to BLK2GO / BLK ARC Wi-Fi

- Start BLK2GO / BLK ARC
 - Insert a fully charged battery for BLK2GO, press the power button, and wait for BLK2GO to be ready (LED continuous green).
 - Connect BLK ARC to the power supply, then connect USB cable of BLK ARC and wait for BLK ARC to be ready (LED continuous green). The USB can be disconnected once BLK ARC is ready.
- Connect your PC to BLK2GO / BLK ARC Wi-Fi
 - Use SSID and password from the Connection Settings card attached to the device.
 - The firmware can only be installed via Wi-Fi.
 - Make sure your **VPN is turned off**.



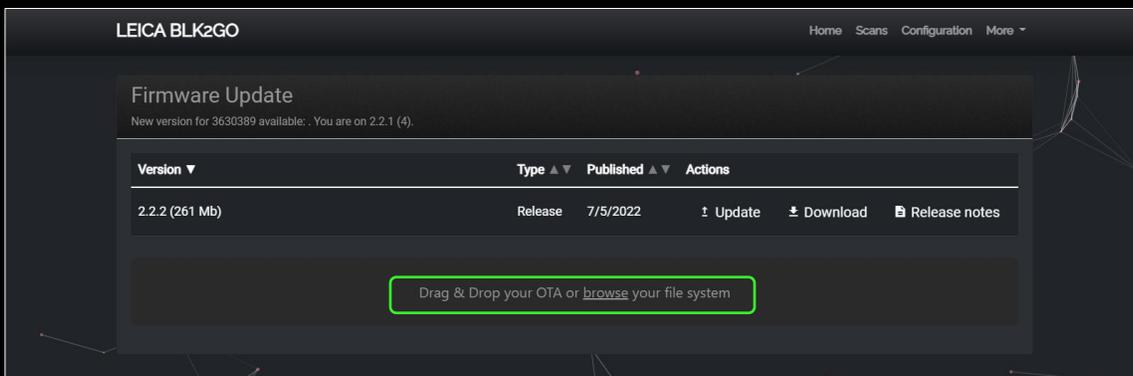
2. Access the device webpage and perform the update

- With internet connection while connected to the device via Wi-Fi
 - Open a browser and type 10.1.1.1
 - Go to **Firmware update** section
 - Press the Update button



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- With no internet connection while connected to the device via Wi-Fi
 - Download the firmware from the official web page: <https://shop.leica-geosystems.com/blk2go-firmware> or from myWorld @ Leica Geosystems customer portal: <https://myworld.leica-geosystems.com>
 - Go to **Firmware update** section
 - Drag and drop or browse the downloaded file (do not unzip it!)



Once the firmware update has started:

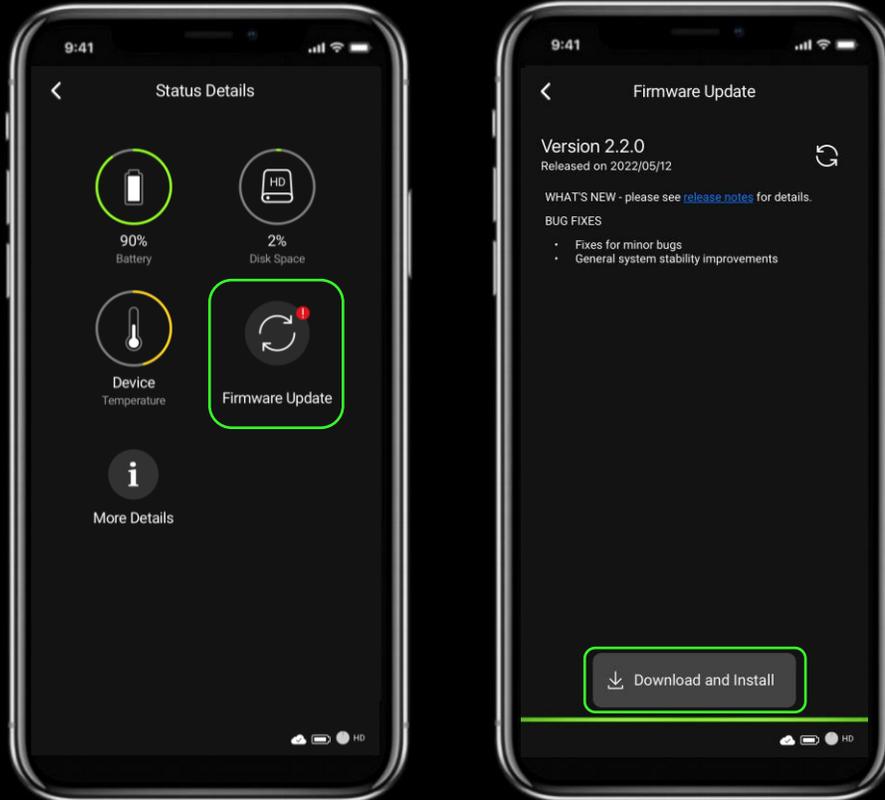
- The LED will start to rotate yellow.
- The update process can take up to 30 minutes.
- Once the update process is finished, the LED of the device will turn green indicating that it has finished successfully.
- In the rare case of an unsuccessful update process, it is recommended to repeat the process.
- Reconnect your PC to BLK2GO / BLK ARC Wi-Fi to access again the device webpage.

Update from BLK2GO Live app

- On BLK2GO Live app connection screen, connect to BLK2GO using **Online Connection**. This will allow BLK2GO to have internet connection and check and download the firmware.
 - Select WLAN or personal hotspot.
 - Type the WLAN or hotspot password.

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- A QR code will be displayed on the screen, scan it with BLK2GO front camera.
- In the hamburger menu (the three parallel lines in the top right corner of the app), under **Status**, click on the Firmware Update icon.
 - If a new firmware version is available, press **Download and Install**.
 - The firmware will be directly downloaded to BLK2GO and installed afterwards.



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DEVICE WEBPAGE FEATURES

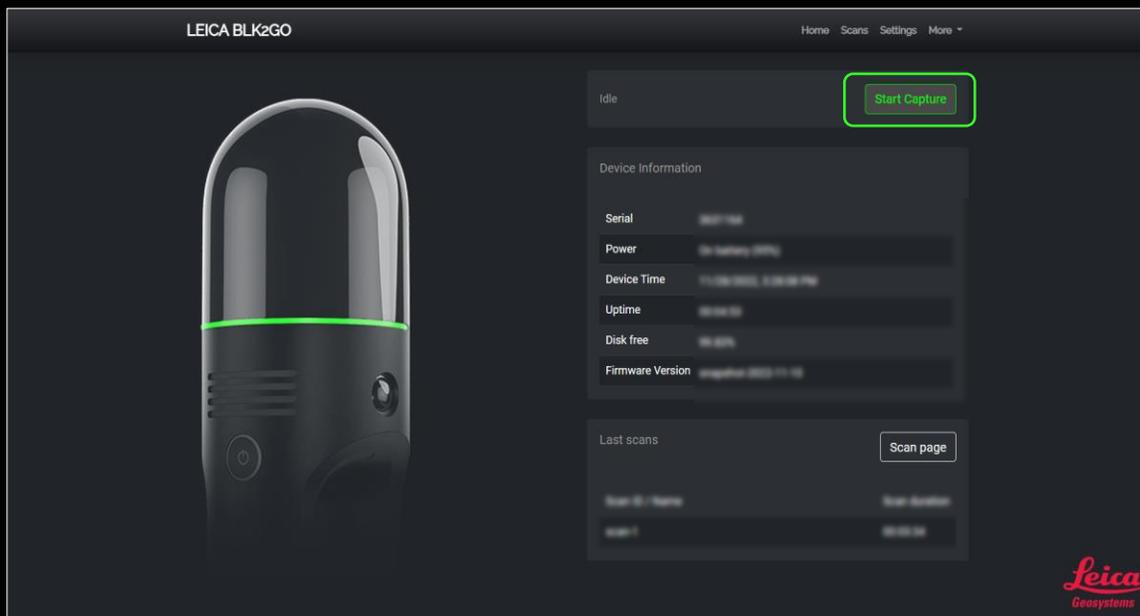
Wi-Fi (10.1.1.1) or USB (192.168.42.1)

Connect to BLK2GO / BLK ARC web browser interface by connecting the device to your PC

- via Wi-Fi and typing the address **10.1.1.1** into your preferred web browser
- via USB and typing **192.168.42.1**

1. Remote Start / Stop a scan (Wi-Fi only)

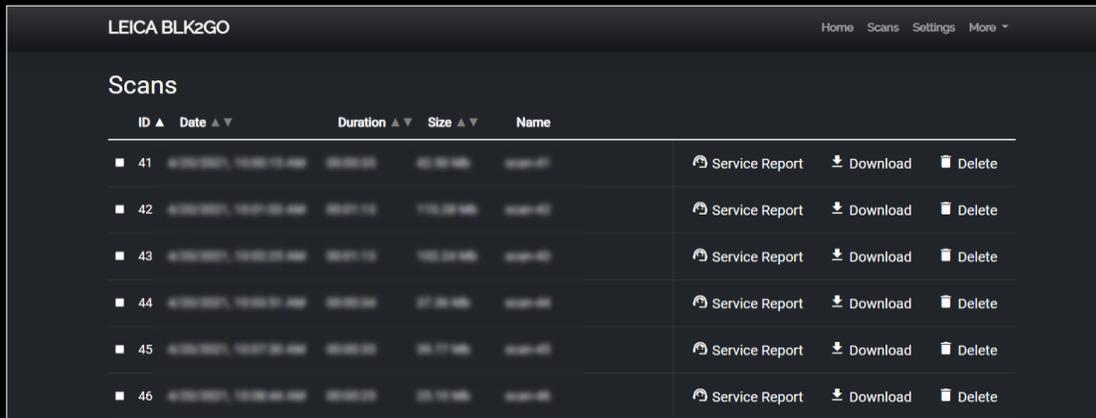
- Connect your PC to BLK2GO / BLK ARC Wi-Fi.
- Access 10.1.1.1.
- Make sure that device is in a very stable position to perform the initialization and remotely **Start Capture / Stop Capture** from the main page.
- In case the initialization is not successful, press the acknowledge button and remotely start a new scan.



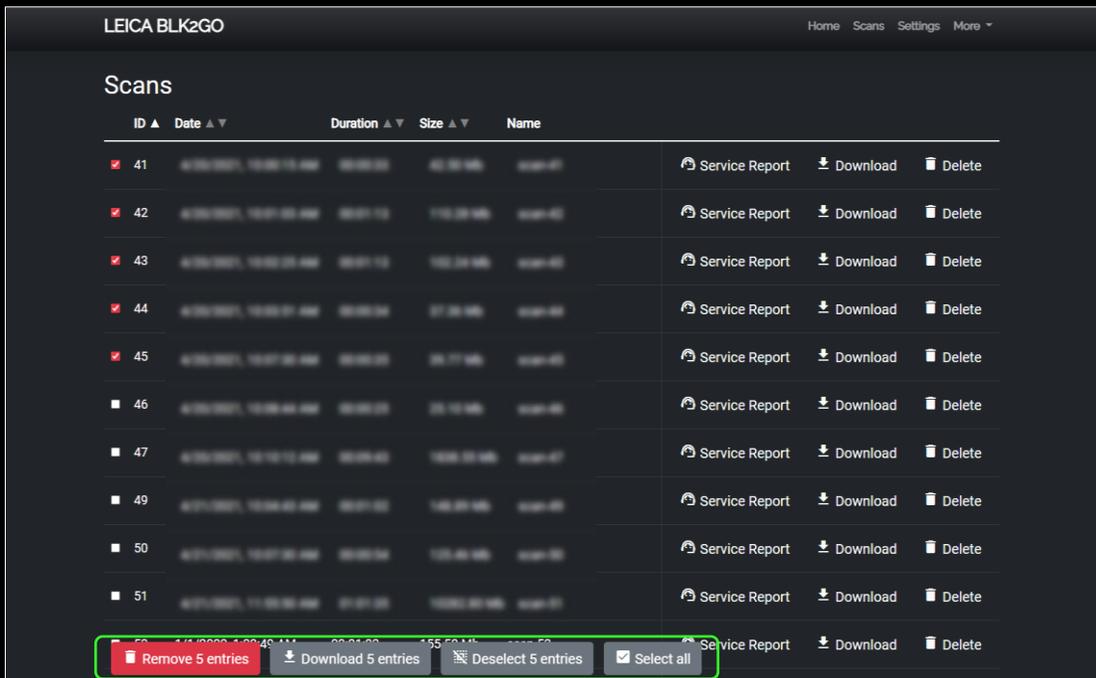
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2. Scan section

From the scan section it is possible to download and delete single and multiple scans.



| ID | Date | Duration | Size | Name | Service Report | Download | Delete |
|----|---------------------|----------|------------|---------|----------------|----------|--------|
| 41 | 2021-10-20 11:44:44 | 00:00:00 | 40.30.146 | scan-41 | | | |
| 42 | 2021-10-20 11:44:44 | 00:01:10 | 110.20.146 | scan-42 | | | |
| 43 | 2021-10-20 11:44:44 | 00:01:10 | 100.20.146 | scan-43 | | | |
| 44 | 2021-10-20 11:44:44 | 00:00:04 | 07.30.146 | scan-44 | | | |
| 45 | 2021-10-20 11:44:44 | 00:00:00 | 00.77.146 | scan-45 | | | |
| 46 | 2021-10-20 11:44:44 | 00:00:00 | 00.70.146 | scan-46 | | | |



| ID | Date | Duration | Size | Name | Service Report | Download | Delete |
|--|---------------------|----------|------------|---------|----------------|----------|--------|
| <input checked="" type="checkbox"/> 41 | 2021-10-20 11:44:44 | 00:00:00 | 40.30.146 | scan-41 | | | |
| <input checked="" type="checkbox"/> 42 | 2021-10-20 11:44:44 | 00:01:10 | 110.20.146 | scan-42 | | | |
| <input checked="" type="checkbox"/> 43 | 2021-10-20 11:44:44 | 00:01:10 | 100.20.146 | scan-43 | | | |
| <input checked="" type="checkbox"/> 44 | 2021-10-20 11:44:44 | 00:00:04 | 07.30.146 | scan-44 | | | |
| <input checked="" type="checkbox"/> 45 | 2021-10-20 11:44:44 | 00:00:00 | 00.77.146 | scan-45 | | | |
| <input type="checkbox"/> 46 | 2021-10-20 11:44:44 | 00:00:00 | 00.70.146 | scan-46 | | | |
| <input type="checkbox"/> 47 | 2021-10-20 11:44:44 | 00:00:00 | 00.00.146 | scan-47 | | | |
| <input type="checkbox"/> 49 | 2021-10-20 11:44:44 | 00:01:00 | 100.00.146 | scan-49 | | | |
| <input type="checkbox"/> 50 | 2021-10-20 11:44:44 | 00:00:04 | 00.00.146 | scan-50 | | | |
| <input type="checkbox"/> 51 | 2021-10-20 11:44:44 | 00:01:00 | 100.00.146 | scan-51 | | | |

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From the scan section, it is also possible to download a Service Report locally to your PC or send it to the Leica support team. The Service Reports downloaded from this section are scan specific and contain relevant scan information.

Service report for device

Scan #1

A service report helps our customer service and developers to analyse unusual device behaviour and deviating scan quality.

Brief description

A description of the issue

Included Items ⓘ Download report Send report to Leica

3. Service Report

From the **Service report** section, it is possible to create a general service report for BLK2GO / BLK ARC. This report is generic for the device and not scan specific.

- The service report can be downloaded locally to your PC or shared with the Leica support team.
- Remember to add a short description of the problem.
- Service reports can also be sent from BLK2GO Live app.

LEICA BLK2GO

Home Scans Settings More ▾

Connectivity
Firmware update
Service Report
Legal/Licenses
Logout
Reboot

Service report for device

A service report helps our customer service and developers to analyse unusual device behaviour and deviating scan quality.

If you have encountered an issue with a specific scan, please create a service report on the [Scans](#) page.

Brief description

A description of the issue

Included Items ⓘ Download report Send report to Leica

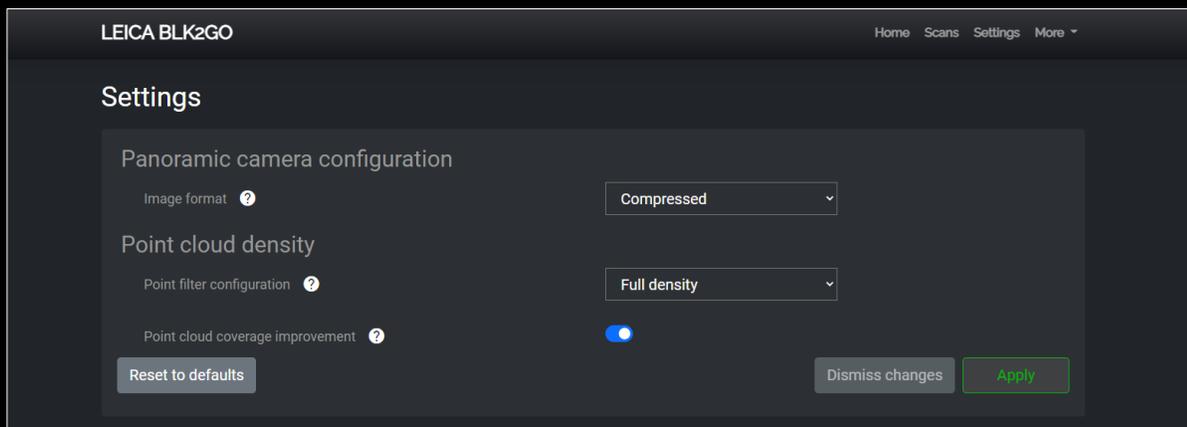
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4. Settings

In the settings section the following options can be configured.

Note that these settings need to be configured before starting a scan.

- Panoramic image format
Panoramic images can be compressed or uncompressed.
Image compression reduces panoramic image sizes and scan file sizes.
- Point cloud density
The point cloud density can be configured to be full, medium or low density.
The density influences the scan file size and the processing time.
 - The full density (default setting) captures the full point cloud density with no filter applied. Full density point cloud is recommended for challenging environments for SLAM, like tunnels, forest or dark environments.
 - Medium and low density point clouds generate filtered point clouds and smaller file sizes.
- Point cloud coverage improvement
When enabled, it generally improves the point cloud coverage in certain areas and surfaces, like translucent surfaces.



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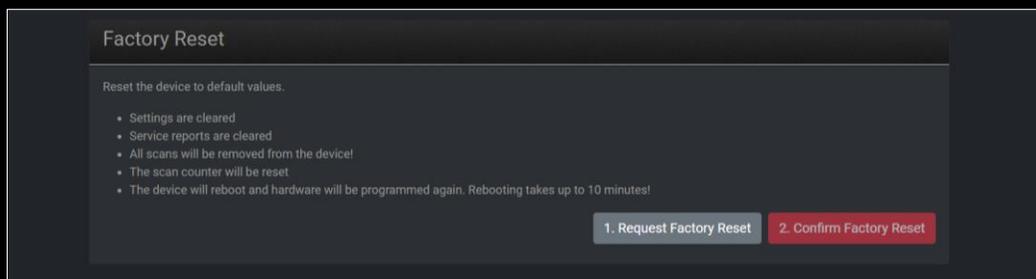
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5. Factory reset (Wi-Fi only)

A factory reset will reset BLK2GO / BLK ARC to the default configuration, all data stored on the device will be removed and the scan counter will be reset.

To start the factory reset:

- Go to the Settings section.
- In the Factory Reset section, press the **Request Factory Reset** button.
- Press the **Confirm Factory Reset** button to confirm the action.
- The device will reboot. The process can take up to 10 minutes and the LED will rotate yellow during the reboot process.
- Reconnect your PC to BLK2GO / BLK ARC Wi-Fi to access again the device webpage.



6. Connectivity

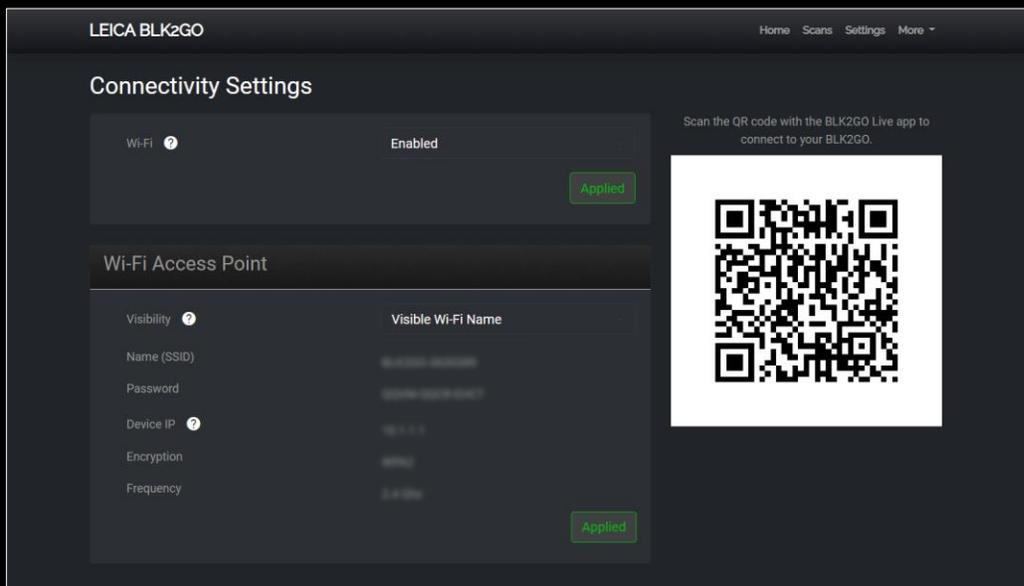
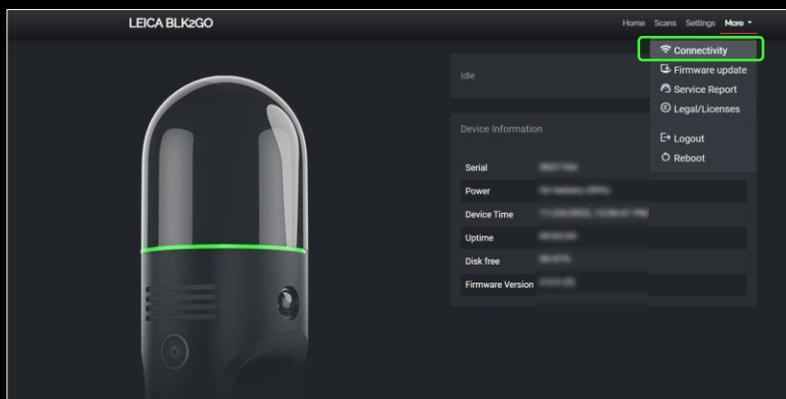
BLK2GO and BLK ARC uses Wi-Fi for connecting to the PC and BLK2GO Live app. Wi-Fi is by default visible and enabled and can be configured to be hidden or disabled.

- Wi-Fi enabled / disabled. This allows to turn the Wi-Fi on and off.
When the Wi-Fi is disabled, the Wi-Fi is completely turn off. Connection to BLK2GO Live app is not possible. Standalone scanning is always possible. Connection to the PC, device webpage and Cyclone software is only possible via USB (from a web browser, connect to <http://192.168.42.1/>).
Wi-Fi can be re-enabled via USB connection. Wi-Fi is by default enabled.
It is recommended to only disable the Wi-Fi when strictly necessary.
- Wi-Fi visibility: visible / hidden. With this option, Wi-Fi access point is enabled, and can be configured to be visible or hidden.
When Wi-Fi visibility is hidden, devices nearby will not see the Wi-Fi name (SSID).

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The connection to BLK2GO and BLK ARC is still possible by connecting to a hidden network or via USB. The connection to BLK2GO Live app is also possible. Wi-Fi can be made visible again by connecting to a hidden network or via USB. Wi-Fi visibility is by default visible.

The Connectivity section also shows the device QR code for Access Point connection with BLK2GO Live app.



The firmware can only be updated via Wi-Fi. When Wi-Fi is disabled, first enable it (following the procedure described above) and then perform the firmware update. Afterwards the Wi-Fi can be disabled again.