LEICA BLK2GO PULSE
FIRST PERSON SCANNER
AUTONOMOUS REALITY CAPTURE

RELEASE NOTES
FIRMWARE VERSION 1.8.0 - 26th March 2024

These Release Notes contain important information about the new Leica BLK2GO PULSE firmware version 1.8.0.

It is highly recommended to always use the latest firmware version for the BLK2GO PULSE.

FIRMWARE COMPATIBILITY

The BLK2GO PULSE and the new firmware version 1.8.0 is compatible with the following software:

BLK Live app (iOS and Android)	Version 2.0 or higher
Cyclone FIELD 360 (iOS and Android)	Version 5.0 or higher
Reality Cloud Studio, powered by HxDR	-
Cyclone REGISTER 360 PLUS	Version 2024.0.1* or higher
Cyclone REGISTER 360 PLUS (BLK Edition)	Version 2024.0.1* or higher
BLK Data Manager	Version 2024.0.1* or higher

*For the time being and until the version 2024.0.1 is officially released and made publicly available, please request the version via:
blk2gopulse.us-support.geo@leica-geosystems.com for US/CAN region
blk2gopulse.ww-support.geo@leica-geosystems.com for ROW region

It is recommended to use the BLK2GO PULSE together with one of the mobile device apps to ensure the best first-person scanning experience.

Note that some of the latest features of the BLK2GO PULSE firmware version 1.8.0 require an updated mobile device app version which will be provided soon.

With immediate effect, the new firmware can be downloaded from myWorld @ Leica Geosystems customer portal: https://myworld.leica-geosystems.com

FW UPDATE RECOMMENDATIONS

- It is recommended to run a "Factory Reset" after the firmware upgrade to ensure the proper installation of the firmware.
  - **Attention!** *Be aware that Factory Reset will delete all the data from your scanner. Make sure you saved your data prior to the Factory Reset.*

- To initiate the "Factory Reset" once you saved your data, please:
  - Visit the web server
  - Go to Settings
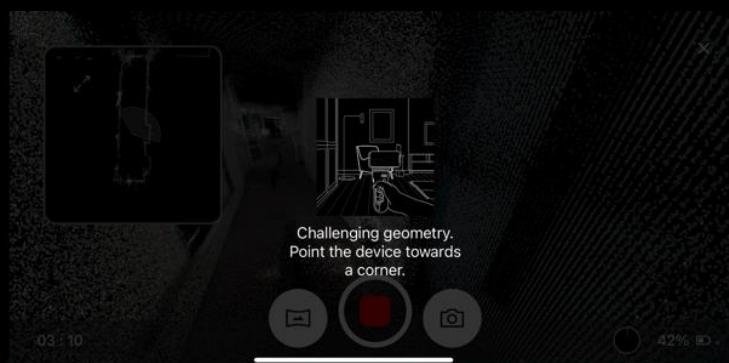 - Confirm the Factory Reset

WHAT'S NEW

- Smart scanning guidance

Please note that firmware version 1.8.0 enables this feature, but BLK Live app version 2.1 or Cyclone FIELD 360 v5.1 is required to show the messages displayed below.

Challenging geometry:
- The smart BLK2GO PULSE will detect in real-time if the provided geometrical structure (walls, slabs, etc.) is challenging for the Time-of-Flight System and notifies the user to aid accordingly. The user shall then aim deliberately towards supporting geometrical structures, for instance the corner of three walls. This ensures that the GrandSLAM of the BLK2GO PULSE is receiving the right 3D data from the Dual-ToF system, improving the overall performance.
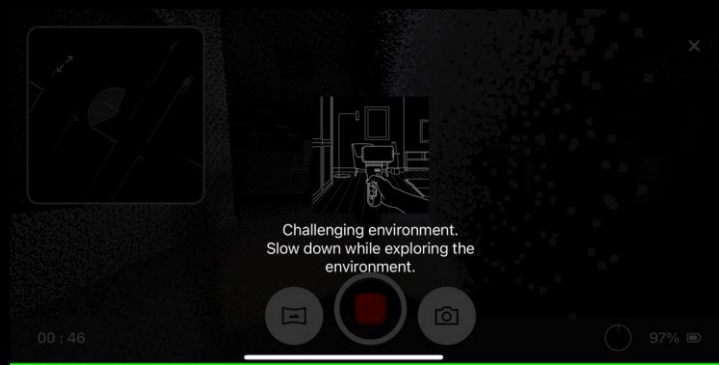
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Challenging environment:

- The smart BLK2GO PULSE will detect in real-time if the provided visual information (low-lit rooms, etc.) is challenging for the Panoramic Vision System and notifies the user to aid accordingly. The user shall then slow down the movements, eventually clean the cameras, and aim towards a contrast-rich area with visible features. This ensures that the GrandSLAM of the BLK2GO PULSE is receiving the right visual data from the Panoramic Vision System, improving the overall performance.

IMPROVEMENTS

- General Time-of-Flight improvements with improved frame handling.
- Disabled QR code scanning with BLK2GO PULSE cameras.
  - In cases when the device was able to detect QR code in front of the camera it tried to read it and LED was turning yellow.
- Improved battery level management.
  - In rare cases user could see wrong values of battery level.
- Improved connection stability.
- Improvements in device website page.
  - The list of the last scans is available on the first page.
- Full-Service Report download via USB-C.
  - In case of cable powered devices, users are now able to download full-service report.

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BUG FIXES

- Fixed a rare issue in "Press and Go" initialisation scan.
  - The user could have experienced this when the initialisation was failing, and no advice was showed in the BLK Live companion app.
- Fixed the issue related to initialisation process being skipped.
  - The user could have experienced that the initialisation process was skipped, and no notification was visible in the companion app. One of the clear symptoms was the LED turning green immediately after starting the scan.
- Fixed the handling of the Jobs, Tags and Links information.
  - Deleting the setup via device website page or BLK Data Manager that included Tags and/or Links information could have caused a data corruption. It is currently possible to delete multiple setups from Cyclone REGISTER 360 PLUS, BLK Data Manager and device webpage.
- Several minor bug fixes.

KNOWN ISSUES

- Download of the scan data through the device webpage or direct upload to Reality Cloud Studio, powered by HxDR does not yet have the Jobs, Tags and Links information available. Ensure to directly import the scan data into Cyclone REGISTER 360 PLUS or download using the BLK Data Manager to benefit from the work done within the new companion apps.
- If firmware update was interrupted in the middle, the device should be rebooted before restarting the process.
- In case of not updated app, the user can see not optimised Smart Scanning Guidance.