

# LEICA BLK2GO & BLK ARC

HANDHELD IMAGING LASER SCANNER  
AUTONOMOUS REALITY CAPTURE

## SLAM QUALITY GUIDE

This document describes the SLAM Quality feature for BLK2GO available from firmware version 3.0.0 and BLK2GO Live app version 1.4.8.

The SLAM Quality gives an indication of the quality of the SLAM solution while scanning. The BLK2GO position represented with a circle in the BLK2GO Live app, changes the colour depending on the quality, following a traffic light system.

- Green: indicates that all is good.
- Yellow: indicates that, in general it is still all good, but it is recommended to check the scanning techniques.

When yellow occurs for a few seconds and turns back to green, the quality is expected to be good, and the user can confidently continue the data capture. However, when the yellow indication persists, some issues might arise. In these cases, and when possible, it's recommended to adjust the scanning methodology.

- Orange: indicates that the situation is getting difficult for SLAM and an action is needed. It is recommended to change the scanning techniques. If the orange indication persists for more than a few seconds, consider stopping the scan and starting a new one after carefully assessing the recommendations and the environment.

The quality indication is an estimate of the quality, and it does not necessarily represent the final quality. It is meant to give the user first quality feedback and a warning to adjust the scanning techniques during the data capture.

Some of the recommendations that will positively impact on the SLAM Quality are ensuring a good field of view for both the LiDAR and the cameras, keeping enough distance from objects, and a constant walking pace. Standing still for a few seconds might help to get the quality indicator from yellow or orange to green.

For more recommendations, please check the document available on myWorld @ Leica Geosystems customer portal as well as from the website <https://shop.leica-geosystems.com/leica-blk/blk2go/scanning-techniques>