## Leica BLK360 Quick Guide

The easiest way to control, view and manage is with the LEICA BLK LIVE app for Apple or Android.

Details for SAGE iPad Pro:

AppleID: sage@unsw.edu.au PW: Surveying#1

Start the BLK LIVE app.

The app connects to BLK via WiFi. BLK has a USB-C connector for data transfer.

BLK WiFi ID: BLK360-2061579

PW: LXC4-HODI-Y0MS

Max range: 45m @ 78% albedo FOV: Horizontal 360°, vertical 270° Range noise: 1mm @ 10m & 78% albedo

Point accuracy: 4mm @ 10m, 8mm @ 20m 1 & 78% albedo

Full dome image 360X270°: 104Mpx from 8 images @ 4224X3136 pix

Internal Tilt compensation to +/- 5° (IMU-based)







Peter Mumford SAGE V1.1 21/07/2023





Light ring indicates status

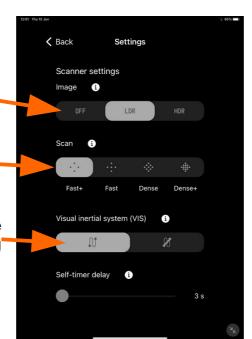
## Connect to BLK via WiFi from tablet

## Settings screen:

Image; Low density / High density 360X270° spheric image from 4 cameras

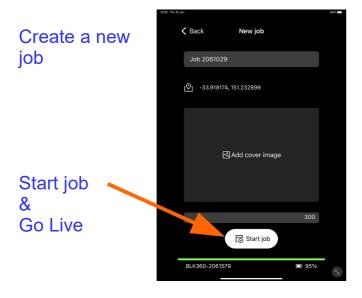
Point Cloud; 4 density settings

Visual inertial system: on or off; not required for a single setup on tripod. Used if moving between scans.



Point density mode	Resolution [mm @ 10m]	Estimated scan duration [MM:SS] for a full dome scan
Fast+	50	00:07
Fast	25	00:13
Dense	12	00:30
Dense+	6	01:15
mage capturing time		
Image type	Estimated image duration [MM:SS]	
LDR	00:08	
HDR	00:20	

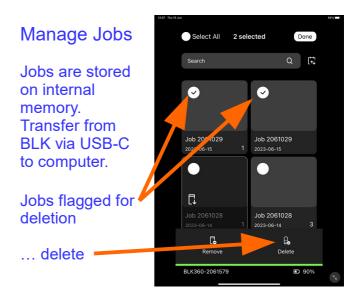
Approx. scan size [mio points]	
0.6	
2.3	
9.4	
37.5	

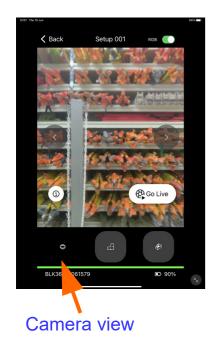


Select required settings













## Data management and Processing

BLK Data Manager is useful for downloading and deleting jobs from the BLK360.

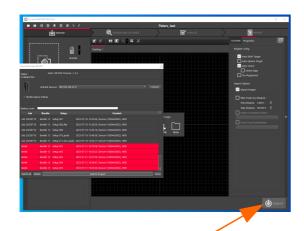
Cyclone REGISTER 360 plus is for downloading jobs, stitching together setups and exporting data to file in .LAS .E57 .PTG .PTX .RCP formats.



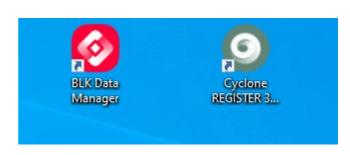
Turn on BLK360 and plug USB-C / USB-A cable to connect to computer. Click Connect.

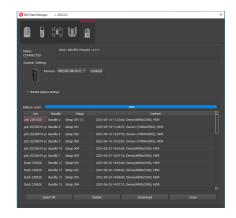


Start Cyclone REGISTER 360 and create a new job.



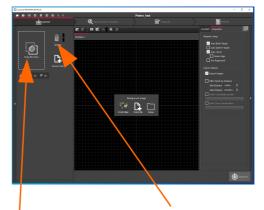
Select data and click import.



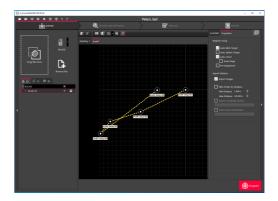


Jobs stored on BLK360 internal memory will appear in list.

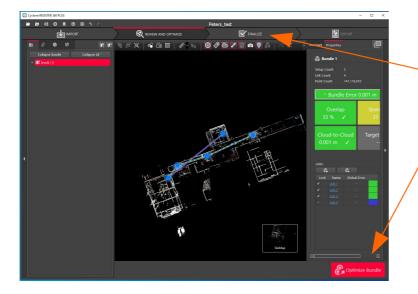
Download and/or delete.



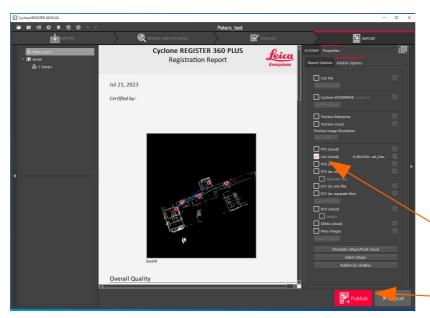
Drop existing data or connect to BLK360 to download data from internal memory.



Here is some data with 5 setups.



Optimise and Finalize.



Note on point cloud formats:

E57 → vendor neutral file format. ASTM E2807 Standard. More flexible than LAS. Files vary across different platforms.

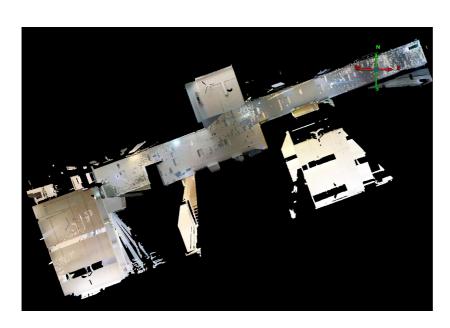
LAS → widely used vendor neutral file format.

PTX / PTG → Plain text formats

RCP → Autodesk CAD

Select output file formats and choose directory.

Click Publish to export data.



Colourised point cloud in LAS format.
Viewed with Quick Terrain
Modeler.