



Leica BLK
Geosystems

LEICA BLK ARC

AUTONOMOUS LASER SCANNING MODULE

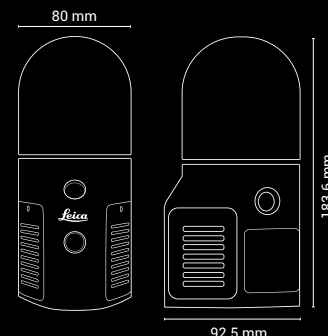


LEICA BLK ARC

AUTONOMOUS LASER SCANNING MODULE

DESIGN & PHYSICAL

Housing	Black powder coated aluminium
Weight	690 g
Height	183.6 mm
Front to back	92.5 mm
Diameter	80 mm



OPERATION

BLK ARC-UI (Leica Geosystems)	Browser-based app; planning and dispatch of autonomous missions and manual control of BLK ARC & Spot. Requires additional installation on Spot CORE I/O.
Spot APP (Boston Dynamics)	Android app available for Spot users, BLK ARC control possible after installation of designated SW package on Spot CORE I/O
BLK Live app (Leica Geosystems)	Control BLK ARC data capture and preview data in real time. Android and iOS.
Leica Cyclone FIELD 360	Control BLK ARC data capture, preview and pre-register data. Android and iOS
Communication	USB 3.0 and Wireless
Internal memory	24 hours of scanning (compressed data) / 6 hours (uncompressed data)
Power supply	USB: max 5.5V Power cable: nominal 12V DC, operation range 9-48V DC, max power 25W

LiDAR & IMAGING

Laser class	1 (in accordance with IEC 60825-1)
Wavelength	830 nm
Field of view	360° (horizontal) / 270° (vertical)
Range	Min. 0.5 - up to 25 m
Point measurement rate	420,000 pts/sec
High resolution camera	12 Mpixel, 90° x 120°, rolling shutter
Panoramic vision system	3-camera system, 4.8 Mpixel 360° x 135°, global shutter

SYSTEM PERFORMANCE (GRANDSLAM BASED)

Range noise **	+/- 3 mm (dynamic) +/- 2 mm (static)
Accuracy indoor ***	+/- 10 mm

ENVIRONMENTAL

Robustness	Designed for indoor and outdoor use
Operating temperature	0 to +40 °C
Dust & humidity protection	IP54 (IEC 60529)

DATA PROCESSING

Data transfer	Wireless and USB 3.0
Desktop software	Leica Cyclone REGISTER 360 PLUS and Cyclone REGISTER 360 PLUS (BLK Edition)
Cloud software	Reality Cloud Studio, powered by HxDR

All specifications are subject to change without notice. All accuracy specifications are one sigma unless otherwise noted.

* at 78% albedo

** environment dependent

*** controlled environment (scan duration 2 minutes)

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