



Scanner2GO®

Leica Geosystems BLK

# LEICA BLK360

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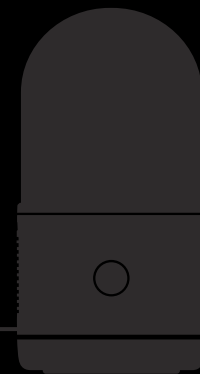
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# LEICA BLK360

## IMAGING LASER SCANNER



### GENERAL

Imaging scanner	3D scanner with integrated high-speed HDR spherical imaging system and Visual Inertial System (VIS) for real-time pre-registration
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### DESIGN & PHYSICAL

Housing	Black anodized aluminium
Dimensions	Height: 155 mm Diameter: 80 mm
Weight	0.75 kg (0.85 kg incl. battery)
Transport cover	GVP739 Transportation cover
Mounting mechanism	Button-press quick release

### OPERATION

Stand-alone operation	One-button operation
Mobile devices	BLK Live app for iOS and Android smartphones Leica Cyclone Field360 app for iOS and Android tablet computers and smartphones
Wireless communication	Integrated wireless LAN (802.11 b/g/n)
Internal memory	Storage for up to 1500 setups
Instrument orientation	Upright and upside down

### POWER

Battery type	Internal, rechargeable Li-Ion battery (Leica GEB825)
Capacity	Up to 70 setups per battery

### SCANNING

Distance measurement system	High speed time of flight enhanced by Waveform Digitizing (WFD) technology
Laser class	1 (in accordance with IEC 60825-1:2014)
Wavelength	830 nm
Field of view	360° (horizontal) / 270° (vertical)
Range*	min. 0.5 m - up to 45 m
Point measurement rate	up to 680.000 pts/sec
Measurement modes	4 user selectable resolution settings (6/12/25/50 mm @ 10 m)

### IMAGING

Camera system	13 Mpixel 4-camera system captures 104 Mpx raw data for calibrated 360° x 270° spherical image
Speed	< 8 sec. for full spherical LDR image at any light conditions < 20 sec. for full spherical 5-brackets HDR image at any light conditions
Image modes	<ul style="list-style-type: none"><li>• Auto-exposed LDR</li><li>• 5-brackets HDR</li><li>• Off - scanning only</li></ul>

### PERFORMANCE

Data acquisition	< 20 sec. for complete full dome scan and spherical LDR image at 50 mm @ 10 m resolution with automatic tilt measurements
3D point accuracy*	4 mm @ 10 m
Real time pre-registration	Automatic point cloud alignment based on real time tracking of scanner movement between setups based on Visual Inertial System (VIS) by video enhanced inertial measurement unit

### ENVIRONMENTAL

Robustness	Designed for indoor and outdoor use
Operating temperature	0° C to + 40° C
Dust/Humidity	Solid particle/liquid ingress protection IP54 (IEC 60529)

### DATA PROCESSING

Data transfer	Wireless and USB 3.0
Desktop software	Leica Cyclone REGISTER 360 and Cyclone REGISTER 360 (BLK Edition)
Cloud software	HxDR Digital Reality: cloud-based digital reality platform

\* At 78% albedo

All specifications are subject to change without notice.

All accuracy specifications are one sigma unless otherwise noted.

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