



# LEICA BLK360

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## LEICA BLK360

### IMAGING LASER SCANNER

#### **GENERAL**

Imaging scanner

3D scanner with integrated highspeed HDR spherical imaging system and Visual Inertial System (VIS) for real-time pre-registration

#### **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 FIELD 360 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	Auto-exposed LDR
	• 5-brackets HDR
	Off - scanning only

#### **PERFORMANCE**

Data acquisition	< 20 sec. for complete full dome scan and spherical LDR image at 50 mm @ 10 m resolution with auto- matic 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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