

Leica BLK360 SE Essentials

End-to-end Reality Capture Starter Solution



Scan

Prepare

Model



TECHNICAL SPECIFICATIONS

Leica BLK360 SE Essentials

LEICA CYCLONE FIELD 360 (BLK Edition)

GENERAL

Version Compatibility	v6.0 (or higher)
Operating systems	iOS and Android smartphones and tablets

SYSTEM REQUIREMENTS

Hardware Specifications	Recommended iOS devices: iPhone 13, 14, 15, 16 series, iPad Pro 11 (2021, 2022, 2023, 2024)
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Hardware Specifications	Recommended Android devices: Samsung Galaxy S9, S22, S23 series, Samsung Galaxy Tab S8
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Software Specifications	Apple iPad or Apple iPhone running on iOS16 or higher with 64-bit operating system and at least 4GB of RAM
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Software Specifications	Android smartphone or tablet running on Android 11.0 or higher on 64-bit ARM architecture with 64-bit operating system and at least 4GB of RAM
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PINPOINT

GENERAL

Version Compatibility	v4.0
Operating System	Microsoft® Windows® 10 (64-bit) or higher

SYSTEM REQUIREMENTS

Minimum Hardware Specification	CPU: 6 cores: Intel i5-8th Gen, AMD Ryzen 5 2600 or higher RAM:16 GB GPU: NVIDIA GTX 1660 (6GB VRAM), OpenGL® 4.1 or higher Storage: 256GB SSD with at least 1GB of space for installation
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Recommended hardware specifications	CPU: 12 cores: Intel i7-12th Gen RAM:64 GB GPU: NVIDIA RTX 3070 (8GB VRAM), OpenGL® 4.1 or higher Storage: 1TB SSD with at least 1GB of space for installation
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USAGE

Recommended project size (by number of scans)	40
Data import formats	e57, b2g, rtc360, pts, ptx, xyz, rcp, saf, srf, smf
Data export formats	e57, pts, ply, rcp, jpg, png, dxf, obj, off, stl, svg, saf

SOFTWARE COMPATIBILITY

Client License Manager (CLM)	version 2.22.0.1 (or higher)
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OPTIONAL SOFTWARE

APP

BLK Live App	(iOS and Android) v2.3 (or higher)
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DESKTOP SOFTWARE

Leica Cyclone REGISTER 360 PLUS (BLK Edition)	v2025.0.0 (or higher) to support data import
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CLOUD SOFTWARE

Hexagon Digital Reality (HxDR)	
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LEICA BLK360 SE

GENERAL

Imaging scanner	3D scanner with integrated HDR spherical imaging system
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PERFORMANCE

3D point accuracy*	4 mm @ 10 m
Speed	Less than 1 minute for complete full-dome scan and spherical LDR image at 25 mm @ 10 m resolution with automatic tilt measurements

SCANNING

Range*	min. 0.5 m - up to 45 m
Point measurement rate	up to 340.000 pts/sec
Measurement modes	3 user selectable resolution settings (6/12/25 mm @ 10 m)
Field of view	360° (horizontal) / 270° (vertical)
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

IMAGING

Camera system	13 Mpixel 4-camera system captures 104 Mpx raw data for calibrated 360° x 270° spherical image
Image modes	• Auto-exposed LDR • 5-brackets HDR • Off - scanning only

OPERATION

Stand-alone operation	One-button operation
Wireless communication	Integrated wireless LAN (802.11 b/g/n)
Internal memory	Storage for up to 1500 setups
Instrument orientation	Upright and upside down

DESIGN & PHYSICAL

Dimensions	Height: 155 mm Diameter: 80 mm
Weight	0.75 kg (0.85 kg incl. battery)

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)

POWER

Battery type	Internal, rechargeable Li-Ion battery (Leica GEB825)
Capacity	Up to 60 setups per battery

DATA PROCESSING

Data transfer	Wireless and USB-C 3.0
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* At 78% albedo

All specifications are subject to change without notice.

All accuracy specifications are one sigma unless otherwise noted.

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