

Leica BLK360 3D Reality Capture Solution

Small. Fast. Agile. Precise.



Fast

The BLK360, weighing only 2.2 lbs., is a simple way to capture reality with a compact laser scanner delivering on-the-fly 3D data capture. Laser scan 360,000 points per second, and complete a full-dome scan with a 360° 150 MP spherical image generation in less than three minutes. The BLK360 allows high, standard, and fast resolutions and can produce High-Dynamic Range (HDR) and thermal imaging.



Agile

The Leica BLK360 captures the world around you with full-color panoramic images overlaid on a high-accuracy point cloud. Simple to use with the single push of one button, the BLK360 is the smallest and lightest imaging laser scanner of its kind. Anyone who can operate an iPad can now capture the world around them with high resolution 3D panoramic images.



Precise

Using Leica Cyclone REGISTER 360 and the Autodesk ReCap Pro mobile-device app, the BLK360 streams image and point cloud data to an iPad or final project data to Cyclone REGISTER 360 via Wi-Fi. With automated workflows in both software offerings, the BLK360 dramatically streamlines the reality capture process thereby opening the technology to non-surveying individuals.

Leica BLK360 Product Specifications

GENERAL

Imaging scanner	3D scanner with integrated spherical imaging system and thermography panorama sensor systems
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PERFORMANCE

Measurement speed	< 3 mins for complete full dome scan, spherical image and thermal image
3D point accuracy*	6mm @ 10m / 8mm @ 20m

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)
Field of view	360° (horizontal) / 300° (vertical)
Range*	Min. 0.6m - up to 60m
Speed	Up to 360,000 pts / sec
Wavelength	830 nm
Accuracy*	4mm @ 10 m 7mm @ 20m
Measurement modes	3 user selectable resolution settings

IMAGING

Camera system	15 MP 3-camera system, 150 MP full dome capture, HDR, LED flash calibrated spherical image, 360° x 300°
Thermal camera	FLIR technology based longwave infrared camera, thermal panoramic image, 360° x 70°

DATA ACQUISITION

Live image and scanned data streaming
Live data viewing and editing
Automatic tilt measurements

OPERATION

Stand-alone operation	One button operation
Remote operation	- iPad app - Apple iPad Pro® 12.9"
Wireless	Integrated wireless LAN (802.11 b/g/n)
Internal memory	Storage for > 100 setups
Instrument orientation	Upright and upside down

DESIGN & PHYSICAL

Housing	Black anodized aluminium
Dimensions	Height: 165 mm / Diameter 100 mm 4" x 6.5"
Weight	2.2 lbs.
Mounting mechanism	Button-press quick release
Transport cover	Hood with integrated floorstand

POWER

Battery type	Internal, rechargeable Li-Ion batteries (Leica GEB212)
Capacity	Typically >40 setups

ENVIRONMENTAL

Operating temperature	-5° to +40°C
Robustness	Designed for indoor and outdoor use
Dust / Humidity	Solid particle / liquid ingress protection IP54 (IEC 60529)

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Leica Cyclone
FIELD 360



Leica Cyclone
REGISTER 360

All specifications are subject to change without notice.
All accuracy specifications are one sigma unless otherwise noted.
* at 78% albedo
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- Buy your Leica BLK360 and receive free training
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