

Leica RTC360 LT - 3D Reality Capture Solution

Fast. Agile. Precise.



Fast

The Leica RTC360 LT laser scanner makes 3D reality capture faster than ever before. With a measuring rate of up to 1 million points per second and advanced HDR imaging system, the creation of colored 3D point clouds can be completed in under 2 minutes. Plus, semi-automated targetless field registration and the seamless, automated transfer of data from site to office reduce time spent in the field and further maximize productivity.



Agile

Small and lightweight, the Leica RTC360 LT scanner's portable design and collapsible tripod mean it's compact enough to fit into most backpacks, ready to be taken anywhere. Once on-site, easy-to-use one-button operation makes for fast, hassle-free scanning.



Precise

Low noise data allows for better images, resulting in crisp, high-quality scans that are rich in detail and ready for use in a range of applications. Combined with Cyclone FIELD 360 software for semi-automated registration in the field, the Leica RTC360 LT scanner offers outstanding precision that can be checked on-site.

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Leica RTC360 LT Product Specifications

GENERAL

3D laser scanner	High-speed 3D laser scanner with integrated HDR spherical imaging system
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PERFORMANCE

Data acquisition	< 3 mins for complete full dome scan and spherical HDR image at 6mm @ 10 m resolution
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Double scan	Automatic removal of moving objects
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SCANNING

Distance measurement	High-speed, high dynamic time of flight enhanced by Waveform Digitizing (WFD) technology
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Laser class	1 (in accordance with IEC 60825-1:2014), 1550 nm (invisible)
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Field of view	360° (horizontal) / 300° (vertical)
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Range	Min. 0.5 - up to 130 m
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Speed	Up to 1,000,000 pts / sec
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Resolution	3 user selectable settings (3/6/12 mm @ 10 m)
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Accuracy*	Angular accuracy 18" Range accuracy 1.0 mm + 10 ppm 3D point accuracy 1.9 mm @ 10 m 2.9 mm @ 20 m 5.3 mm @ 40 m
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Range noise**	0.4 mm @ 10 m, 0.5 mm @ 20 m
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IMAGING

Camera	36 MP 3-camera system captures 432 MPx raw data for calibrated 360° x 300° spherical image
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Speed	1 minute for full spherical HDR image at any light condition
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HDR	Automatic, 5 brackets
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NAVIGATION SENSORS

Tilt	IMU based, Accuracy: 3' for any tilt
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Additional sensors	Altimeter, Compass, GNSS
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OPERATION

On scanner	Touch-screen control with finger touch, full color WVGA graphic display 480 x 800 pixels
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Mobile devices	Leica Cyclone FIELD 360 app for iPad or Android tablets including: - Remote control of scan functions - 2D & 3D data viewing - Tagging - Visual alignment of scans
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Wireless	Integrated wireless LAN (802.11 b/g/n)
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Data storage	Leica MS256, 256 GB exchangeable USB 3.0 flash drive
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DESIGN & PHYSICAL

Housing	Aluminium frame and sidecovers
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Dimensions	120 mm x 240 mm x 230 mm / 4.7" x 9.4" x 9.1"
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Weight	5.2 kg / 11.5 lbs, nominal (without batteries)
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Mounting mechanism	Quick mounting on 5/8" stub on lightweight tripod / optional tribrach adapter / survey tribrach adapter available
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POWER

Internal battery	2 x Leica GEB361 internal, rechargeable Li-Ion batteries. Duration: Typically up to 4 hours Weight: 340 g per battery
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External	Leica GEV282 AC adapter
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ENVIRONMENTAL

Operating temperature	-5° to +40°C
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Storage temperature	-40° to +70°C
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Dust/Humidity***	Solid particle/liquid ingress protection IP54 (IEC 60529)
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Leica RTC360



Leica Cyclone FIELD 360



Leica Cyclone REGISTER 360

active» Customer Care

Your Trusted Active Customer Care

Active Customer care is a true partnership between Leica Geosystems and its customers. Customer Care Packages (CCPs) ensure optimally maintained equipment and the most up-to-date software to deliver the best results for your business. The myWorld @ Leica Geosystems customer portal provides a wealth of information 24/7.

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All specifications are subject to change without notice.

All accuracy specifications are on a level of confidence of 68% according to the Guide of the Expression of Uncertainty in Measurement (JCGM100:2008) unless otherwise noted.

* At 89% albedo.

** For single shot measurements

*** For upright and upside down setups with a +/- 15° inclination

Scanner: Laser class 1 in accordance with IEC60825:2014

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