# Leica RTC360 LT - 3D Reality Capture Solution

Fast. Agile. Precise.





#### Fast

The Leica RTC360 LT laser scanner makes 3D reality capture more economical than ever before. With a measuring rate of up to 1 million points per second and advanced HDR imaging system, the creation of coloured 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 maximise 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

High-speed 3D laser scanner with integrated HDR spherical imaging system
<3 mins for complete full dome scan and spherical HDR image at 6mm @ 10 m resolution
Automatic removal of moving objects
Field procedure for targetless checking of angular parameters
High-speed, high dynamic time of flight enhanced by Waveform Digitising (WFD) technology
1 (in accordance with IEC 60825-1:2014), 1550 nm (invisible)
360° (horizontal) / 300° (vertical)
Min. 0.5 - up to 130 m
Up to 1,000,000 pts / sec
3 user selectable settings (3/6/12 mm @ 10 m)
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
0.4 mm @ 10 m, 0.5 mm @ 20 m
36 MP 3-camera system captures 432 MPx raw data for calibrated 360° x 300° spherical image
1 minute for full spherical HDR image at any light condition
Automatic, 5 brackets
IMU based, Accuracy: 3' for any tilt
Altimeter, Compass, GNSS

OPERATION	
On scanner	Touch-screen control with finger touch, full colour WVGA graphic display 480 x 800 pixels
Mobile devices	Leica Cyclone FIELD 360 app for iOS and Android tablet computers and smartphones including: - Remote control of scan functions - 2D & 3D data viewing - Tagging - Visual alignment of scans
Wireless	Integrated wireless LAN (802.11 b/g/n)
Data storage	Leica MS256, 256 GB exchangeable USB 3.0 flash drive
DESIGN & PHYSICAL	
Housing	Aluminium frame and sidecovers
Dimensions	120 mm x 240 mm x 230 mm / 4.7" x 9.4" x 9.1"
Weight	5.2 kg / 11.5 lbs, nominal (without batteries)
Mounting mechanism	Quick mounting on 5/8" stub on lightweight tripod / optional tribrach adapter / survey tribrach adapter available
POWER	
Internal battery	2 x Leica GEB361 internal, rechargeable Li-Ion batteries. Duration: Typically up to 4 hours Weight: 340 g per battery
External	Leica GEV282 AC adapter
ENVIRONMENTAL	
Operating temperature	-5° to +40°C
Storage temperature	-40° to +70°C
Operating low temperatures****	-10° to +40°C
Dust/Humidity***	Solid particle/liquid ingress protection IP54 (IEC 60529)







Leica RTC360

Leica Cyclone FIELD 360

Leica Cyclone REGISTER 360



#### 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.

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 +/-  $15^{\circ}$  inclination

\*\*\*\* Extended low temperature operation is possible to  $-10^{\circ}\text{C}$  if internal temperature is at or above -5°C when powered on. For extended low temperature measurement, it is recommended that QA procedures are followed.

Scanner: Laser class 1 in accordance with IEC60825:2014

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