

# 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.

[leica-geosystems.com](http://leica-geosystems.com)



- when it has to be **right**

**Leica**  
Geosystems

# Leica RTC360 LT Product Specifications

## GENERAL

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

## PERFORMANCE

Data acquisition	< 3 mins for complete full dome scan and spherical HDR image at 6mm @ 10 m resolution
Double scan	Automatic removal of moving objects
Check & Adjust	Field procedure for targetless checking of angular parameters

## SCANNING

Distance measurement	High-speed, high dynamic time of flight enhanced by Waveform Digitising (WFD) technology
Laser class	1 (in accordance with IEC 60825-1:2014), 1550 nm (invisible)
Field of view	360° (horizontal) / 300° (vertical)
Range	Min. 0.5 - up to 130 m
Speed	Up to 1,000,000 pts / sec
Resolution	3 user selectable settings (3/6/12 mm @ 10 m)
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
Range noise**	0.4 mm @ 10 m, 0.5 mm @ 20 m

## IMAGING

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

## NAVIGATION SENSORS

Tilt	IMU based, Accuracy: 18" (for upright and upside down setups with +/- 10° inclination)
Additional sensors	Altimeter, Compass, GNSS



A TRADITION IN PRECISION

Seattle 425-771-7776 | Tacoma 253-922-6087  
Portland 503-641-3388 | Salt Lake City 801-878-9763  
St. George 801-878-9763 | Las Vegas 702-586-1152  
Boise 208-369-4388

[www.KukerRanken.com](http://www.KukerRanken.com)



## 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.

**Leica Geosystems AG**  
Heinrich-Wild-Strasse  
9435 Heerbrugg, Switzerland  
+41 71 727 31 31

## 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 GEB461 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 PLUS

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

\*\*\*\* Extended low temperature operation is possible to -10°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

iPhone and iPad are trademarks of Apple Inc.

Android is a trademark of Google.

25. 897298en - 10.25

- when it has to be **right**

