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 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.



leica-geosystems.com











Leica RTC360 LT Product Specifications

| CENEDAL | |
|----------------------|---|
| 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 Digitizing (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: 3' for any tilt |
| Additional sensors | Altimeter, Compass, GNSS |
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OPERATION On scanner

Mobile devices

Wireless

Housing

Weight

POWER Internal battery

External

ENVIRONMENTAL Operating temperature

Storage temperature Operating low

temperatures

Dust/Humidity***

Dimensions

Data storage

DESIGN & PHYSICAL

Mounting mechanism





Touch-screen control with finger touch, full color WVGA graphic display 480 x 800

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

Aluminium frame and sidecovers 120 mm x 240 mm x 230 mm / 4.7" x 9.4" x 9.1"

5.2 kg / 11.5 lbs, nominal (without batteries)

Quick mounting on 5/8" stub on lightweight tripod / optional tribrach adapter / survey tribrach adapter available

Leica GEV282 AC adapter

-5° to +40°C -40° to +70°C

-10° to +40°C

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

3.0 flash drive

Integrated wireless LAN (802.11 b/g/n) Leica MS256, 256 GB exchangeable USB

Leica RTC360

Leica Cyclone REGISTER 360

Customer Care Your Trusted Active Customer Care

active >>

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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Leica Cyclone FIELD 360

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

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