

S.C. TOP GEOCART S.R.L. – Distribuitorul Autorizat in Romania al Leica Geosystems



Bucuresti - Sediul Central
Str. Prof. Ion Maiorescu, Nr. 67, Sect. 2
Tel: 021.253.05.30; Fax: 021.252.12.15;
web: www.topgeocart.ro

- when it has to be **right**

Leica RTC360 3D Reality Capture Solution

Fast. Agile. Precise.



Fast

The Leica RTC360 laser scanner makes 3D reality capture faster than ever before. With a measuring rate of up to 2 million points per second and advanced HDR imaging system, the creation of coloured 3D point clouds can be completed in under 2 minutes. Plus, automated targetless field registration (based on VIS technology) 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 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 automated registration in the field, the Leica RTC360 scanner offers outstanding precision that can be checked on-site.



leica-geosystems.com



- when it has to be **right**



Leica RTC360 Product Specifications

GENERAL

3D Laser Scanner	High-speed 3D laser scanner with integrated HDR spherical imaging system and Visual Inertial System (VIS) for real time registration
------------------	--

PERFORMANCE

Data acquisition	< 2 min for complete full dome scan and spherical HDR image at 6mm @ 10m resolution
------------------	---

Real time registration	Automatic point cloud alignment based on real time tracking of scanner movement between setups based on Visual Inertial System (VIS) by video-enhanced inertial measurement unit
------------------------	--

Double scan	Automatic removal of moving objects
-------------	-------------------------------------

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), 1550nm (invisible)
-------------	---

Field of view	360° (horizontal) / 300° (vertical)
---------------	-------------------------------------

Range	Min. 0.5 - up to 130 m
-------	------------------------

Speed	Up to 2'000'000 pts / sec
-------	---------------------------

Resolution	3 user selectable settings (3/6/12mm @ 10m)
------------	---

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

Visual Inertial System	Video enhanced inertial measuring system to track movement of the scanner position relative to the previous setup in real time
------------------------	--

Tilt	IMU based, Accuracy: 3' for any tilt
------	--------------------------------------

Additional sensors	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 iPad or Android tablets including: - Remote control of scan functions - 2D & 3D data viewing - Tagging - Automatic alignment of scans
----------------	---

Wireless	Integrated wireless LAN (802.11 b/g/n)
----------	--

Data storage	Leica MS256, 256GB exchangeable USB 3.0 flash drive
--------------	---

DESIGN & PHYSICAL

Housing	Aluminium frame and sidecovers
---------	--------------------------------

Dimensions	120mm x 240mm x 230mm / 4.7" x 9.4" x 9.1"
------------	--

Weight	5.35kg / 11.7 lbs, nominal (w/o 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
---------------------	----------------

Dust/Humidity***	Solid particle/liquid ingress protection IP54 (IEC 60529)
------------------	---



Leica Cyclone FIELD 360



Leica Cyclone REGISTER 360



Leica ScanStation P50



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.

Illustrations, descriptions and technical specifications are not binding and may change.

All rights reserved. Printed in Switzerland - Copyright Leica Geosystems AG, Heerbrugg, Switzerland 2018. 872750en - 06.18

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

iPhone and iPad are trademarks of Apple Inc.

Android is a trademark of Google.