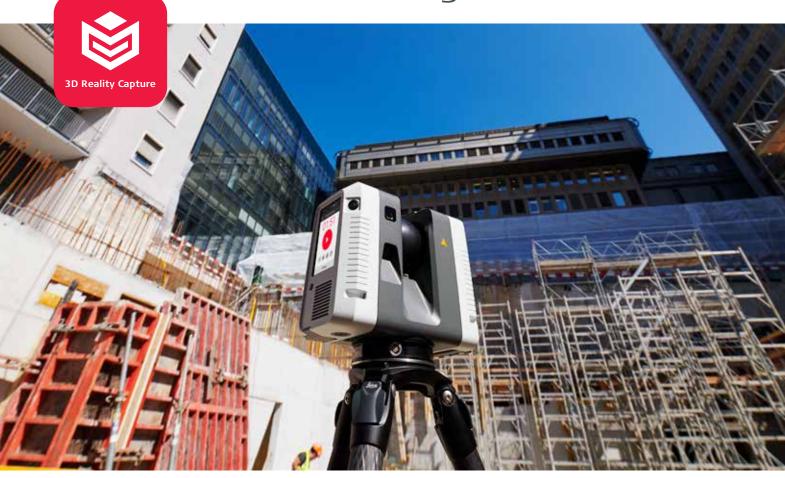
# Leica RTC360 3D Reality Capture Solution

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.



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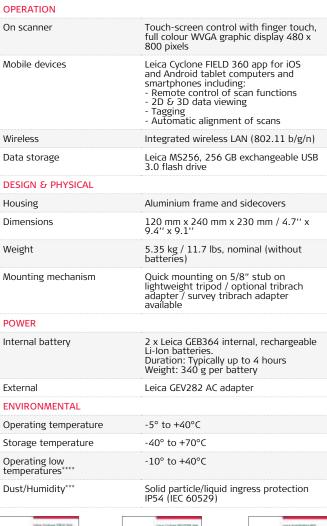
# Leica RTC360 Product Specifications

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 mins for complete full dome scan and spherical HDR image at 6mm @ 10 m 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
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 2,000,000 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	
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: 18" (for upright and upside down setups with +/- 10° inclination)
Additional sensors	Altimeter, Compass, GNSS

	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.









Leica Cyclone FIELD 360

Leica Cyclone REGISTER 360

Leica ScanStation

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°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.

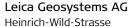
Scanner: Laser class 1 in accordance with IEC60825:2014

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