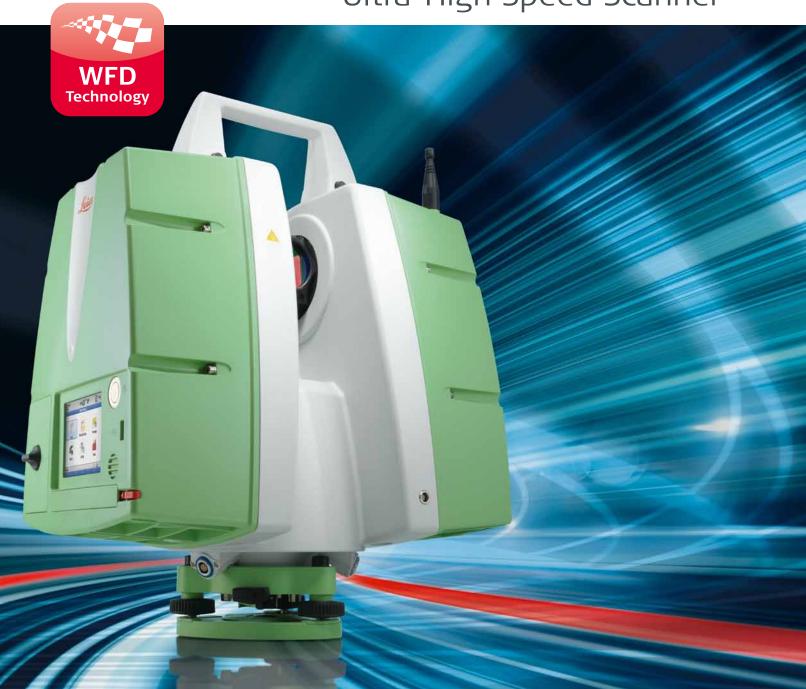
Leica ScanStation P20

Industry's Best Performing Ultra-High Speed Scanner





Leica ScanStation P20

Industry's Best Performing
Ultra-High Speed Laser Scanner



Quality Matters

As the pioneers of developing terrestrial laser scanners, Leica Geosystems has years of experience and deploys the best technology available to deliver the best quality. The Leica ScanStation P20 uses an optimal combination of angular and range measurements to deliver unrivaled 3D point quality and product reliability.



Productivity Matters

Using an eye-safe Class 1 laser, and time-of-flight range measurements enhanced by Waveform Digitizing (WFD) technology, the Leica ScanStation P20 measures with an incredible speed of up to 1 million points per second. This ultra-high speed drastically reduces field time needed to convert real-world environments into super-rich digital 3D point clouds and increases your return on investment.



Ruggedness Matters

Field conditions can be extreme, and Leica
ScanStation P20 is designed to master them.
With an operating temperature range of
-20° C to +50° C, Ingress Protection rating of IP54
and Leica Geosystems design and manufacture,
downtime due to extreme environmental
conditions is minimised.



Certainty Matters

The Leica ScanStation P20 includes an onboard "Check & Adjust" routine that allows you to check and adjust instrument errors electronically. After performing a successful check & adjust procedure, you can be certain that your scanner is in optimal working condition.

In-field QA

All scans can be immediately viewed in the field to ensure optimal QA. By verifying complete scan coverage, costly site revisits are avoided.

Accurate Tilt Compensation

The integrated dual-axis compensator allows survey-grade traversing and resection to facilitate in-field registration and subsequently less office processing.

High-resolution Imagery

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An integrated, auto-adjusting, 5-megapixel camera automatically captures images that can be applied to point clouds to enhance interpretation and speed deliverable creation.

Speed max. 1 million pps Range max. 120m Noise c1mm at 120m Target acquisition up to 50m Laser class 1 Angular accuracy 8" (horizontal/vertical) Onboard storage 256GB SSD

Operating temperature -20° C to +50° C

Leica ScanStation P20

One Scanning Solution - from Start to Finish

Operation

Intuitive Interface



With its fully featured onboard software, Leica ScanStation P20 is both powerful and easy to use. Simple graphical menus guide users through tasks, while easy onboard setup applications and field registration tools minimize office work.

All-in-One Portability



With fully integrated data storage and batteries, Leica ScanStation P20 is totally mobile. There is no need for separate data logging devices – internal data can be easily downloaded via USB or Ethernet interface. Hot-swappable batteries ensure continuous scanner

Remote Control



With integrated WiFi, Leica ScanStation P20 can be remotely controlled by a Leica CS10/CS15 field controller or by an iPad, iPhone or similar Smartphone. Remote control ensures comfortable and safe use when the scanner is in a restricted environment and allows convenient display viewing.

High Resolution



An integrated auto-adjusting highresolution camera delivers "photorealistic" images that can be applied to point clouds to enhance interpretation and documentation.

Workflow

Point Cloud Creation

With the simple press of a button, a high-accuracy, 3D point cloud is generated for the area scanned. Onboard setup routines can automatically register and georeference each scan.

Model

The 3D point cloud is then seamlessly imported into Leica Cyclone, Leica CloudWorx or other 3rd-party modeling software to convert it into a model consisting of objects ready for final deliverable creation.

Deliverable Creation

Deliverables range from traditional 2D plans or simple ortho images to fully rendered 3D models and fly-throughs. Registered point clouds can also be directly delivered to stakeholders as scan data files or as intuitive, panoramic Leica TruView file sets. Leica Geosystems workflows provide complete flexibility.

Applications

Plant, Process & Marine

Rapidly capture as-built locations to simplify planning for conversions and extensions. Independent whether the plant is on- or off-shore, the Leica ScanStation P20 is rugged enough to handle all conditions.

Construction & BIM

Easily document and control all phases of construction and seamlessly combine with Building Information Modeling (BIM) tools. With accurate 3D scan data and 3D CAD data, off-site fabrication is now possible with full QA to avoid costly rework and construction delays.

Architecture & Heritage

All new and existing heritage sites can be easily scanned for structural analysis and historical documentation. The wide field of view and extended measurement range of the Leica ScanStation P20 ensures fewer setups to complete the task.

Forensics Within a matter

Within a matter of seconds, have an accurate 3D record of crime and accident scenes that can be used for subsequent reconstructions. The non-contact measurement technology ensures all details are collected within the 360° full field of view.

Civil / Survey

With a full selection of surveying windows, quickly capture roads, intersections, bridges, and power lines in super-high resolution. With super-dense and accurate scan data and powerful point cloud processing software, create Topographical Maps, Title Surveys, and As-builts easier than ever.







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Leica ScanStation P20 Your Trusted Solution





Scan the code to play the video!

Whether you're designing a modification to a complex refinery piping system, surveying a site or documenting a historic building, you need reliable measurements. Scanning systems and software by Leica Geosystems provide you with exact data of what's there. When your as-built information has to be right, rely on Leica Geosystems.

Leica Geosystems is best known for its pioneering scanning technology and trustworthy, total solutions: versatile, accurate laser scanners, industry standard point cloud software, and a full complement of accessories, training and support.

Precision, quality and service from Leica Geosystems.

When it has to be right.





Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.

Laser plummet:

Laser class 1 in accordance with IEC 60825-1 resp. EN 60825

Scanner:

Laser class 1 in accordance with IEC 60825-1 resp. EN 60825

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Leica Scanstation C5 Product information and specifications



Leica Scanstation C10Product information and specifications



Leica Cyclone REGISTER Product information



Leica Cyclone MODEL Product information

For more detailed information, please visit www.leica-geosystems.com/scanstation_p20

