Leica ScanStation P20
Industry's Best Performing Ultra-High Speed Scanner

- when it has to be right
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 +55°C, ingress Protection rating of IP54 and Leica Geosystems design and manufacture, downtime due to extreme environmental conditions is minimised.

Check & Adjust
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.

<table>
<thead>
<tr>
<th>In-field QA</th>
<th>Accurate Tilt Compensation</th>
<th>High-resolution Imagery</th>
<th>Speed</th>
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<td>All scans can be immediately viewed in the field to ensure optimal QA. By verifying complete scan coverage, costly re-scans are avoided.</td>
<td>The integrated dual-axis compensator allows survey-grade measuring and inspection to facilitate in-field registration and subsequently less office processing.</td>
<td>An integrated, auto-adjusting, 3-megapixel camera automatically captures images that can be applied to point clouds to enhance interpretation and speed deliverable creation.</td>
<td>max. 1 million pps</td>
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<td>Range max. 120m</td>
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<td>Noise &lt;1mm at 120m</td>
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<td>Target resolution up to 1mm</td>
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<td>Laser class 1</td>
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<td>Angular accuracy 8° (horizontal/vertical)</td>
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<td>Onboard storage 256GB SSD</td>
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<td>Operating temperature -20°C to +55°C</td>
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Leica ScanStation P20
One Scanning Solution – from Start to Finish

Operation

Intuitive Interface
With its fully featured embedded software, Leica ScanStation P20 is both powerful and easy to use. Simple geometric modes such as lines, text, and in-built setup applications and full-scale measuring tools make it a true office worker.

Remote Control
With integrated WiFi, Leica ScanStation P20 can be remotely controlled by a Leica CLS/CLS 2nd controller or by an iPad, iPhone or similar smartphone. Remote control ensures controllability and ease of use when the user is in an uncontrolled environment and allows consistent display settings.

All-in-One Portability
With fully integrated data storage and battery, Leica ScanStation P20 is truly portable. There is no need for separate data logging devices - internal data can be easily transferred as still or forward-executed. Hot-swappable batteries ensure continuous scanner operation.

High Resolution
An integrated high-resolution camera delivers “photo-realistic” images that can be applied to point clouds to enhance visualization 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 to simple ortho images to fully rendered 3D models and fly-throughs. In-depth point clouds can also be directly delivered to stakeholders as scan data files or as intuitive, panoramic Leica ToView 360 sets. Leica Geosystems workflows provide complete flexibility.

Applications

Plant, Process & Marine
Rapidly capture as-built locations to simplify planning for concessions and extensions. Independent whether the plant is on-site or off-site, 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 HD scan data and LOD 500 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
With a matter of seconds, have an accurate 3D record of crime and incident 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 mapping windows, quickly accurate maps, intersections, bridges, and power lines in super high resolution. With survey accurate and accurate scan data and powerful point cloud processing software, create Topographical Maps, Title Surveys, and As-Built Drawings. New Leica ScanStation P20.

Leica ScanStation P20
One Scanning Solution – from Start to Finish
Leica ScanStation P20
Your Trusted Solution

Your Trusted Product Family
Leica Geosystems provides the most comprehensive terrestrial laser scanning portfolio, with a product to suit every application. Combined with compatibility and standard surveying equipment, efficient and flexible product deployment is guaranteed.

Your Trusted Software
With years of point cloud and modeling software experience, Leica Geosystems software effectively extracts deliverables from high-definition point clouds. The software family includes the application-specific and industry-relevant Leica Cyclone, Leica CloudWorx and Leica TruView modules that make working with point clouds easier and more efficient than ever before.

Your Trusted Support
Leica Geosystems' expansive organization of knowledgeable professionals with years of terrestrial laser scanning experience is available to provide valuable support if ever needed. Minimize downtime with an expert readily available to guide you back to full productivity.

Your Trusted Training
Leica Geosystems offers a complete portfolio of training solutions specifically designed to meet your requirements and schedule. Delivered by industry experts, training can be conducted online, in a classroom or one-to-one. Get the most out of your Leica Geosystems equipment at your own pace and convenience.

Your Trusted Service
With a network of authorized technicians and workshops, Leica Geosystems offers unsurpassed technical service. From calibration to maintenance, to repairs, your equipment is quickly returned in optimum condition, ready to resume productive deployment.

Your Trusted Active Customer Care
Active Customer Care is a true partnership between Leica Geosystems and its customers. Customer Care Packages (CCP) ensure best-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.
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.**