Leica ScanStation 2 Exceptional Speed, Outstanding Versatility





- when it has to be **right**

Leica ScanStation 2 A New Level of Versatility and Speed in Laser Scanners

With a 10-times boost in maximum instantaneous scan speed and the full freedom and accuracy of a total station, Leica ScanStation 2 has lifted laser scanning to the next level. This speed and productivity boost builds on the already industry-leading versatility of the ScanStation™ class of laser scanner to make High-Definition Surveying™ (HDS™) profitable for even more as-built and topographic survey projects.

A New Level of Speed and Productivity

For many as-built and topographic surveys, laser scanners have already proven to significantly reduce field labor compared to traditional methods. ScanStation 2's jump-step increase in pulsed scan speed further slashes these costs – field labor is now as little as one-fifth of that of traditional methods for many projects.

Dramatically faster scanning also lets users:

- Collect data in tighter time windows
- Reduce time spent in hazardous locations
- Provide project results faster
- Collect even more complete data
- "Squeeze in" additional service requests from clients

10-times boost in scan speed

Other Pulsed Scanner 100% ScanStation 2

Significantly less field labor

>1000%

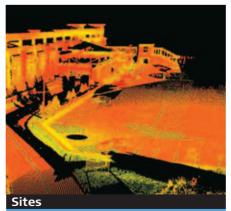
Traditional Methods



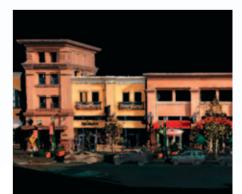
A New Level of Versatility for Laser Scanning



ScanStation 2 extends the benefits of safe, cost-effective road surveys from urban and multi-lane roads & intersections to 2-lane roads & intersections.



Using ScanStation 2 for topographic surveys of small sites and sites up to hundreds of acres cuts initial survey costs and reduces site re-visits.



Buildings Small buildings and tall buildings can be cost-effectively surveyed, both inside and out. Digital photos can be overlaid for added realism.

- Very-High Speed, Pulsed Laser Excellent range, up to 10-times faster than other pulsed scanners, and capable of single point surveying
- Integrated High-Resolution Camera For fast scene selection and compelling, auto-rectified photo overlays
- HI Marks, Tribrach Mount, Carry Handle, and QuickScan™ Button Standard procedures and accessories make ScanStation 2 easy to learn
- Advanced Timing Electronics Integrated with a patented microchip laser to deliver accurate, low-noise distance measurements

ScanStation 2

- X-function Compatibility Interoperable with Leica System 1200
- Advanced Scripting Controls SmartScan™ firmware allows automated sequencing of scans and unattended operation
- Integrated, Dual-Axis Level Compensator For survey-grade traversing and stakeout

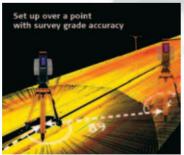
External Bubble Level Conveniently located on back of rotating scan head



A New Level of As-built & Topographic Surveying ... And More

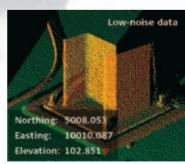


1. Full Field-of-view One of its four (4) fundamental total station features, the full dome field-of-view lets users capture overhead, vertical, horizontal, and sub-level geometry with equal ease.



2. Survey-grade Dual-axis (Tilt) Compensation

Like a total station, users can setup ScanStation 2 over control, traverse, resection, and even stakeout and point with it.



3. Survey-grade Accuracy As part of the ScanStation instrument category, ScanStation 2 delivers survey-grade accuracy for each point. Ultra-fine scanning with a small beam at long range also enables optimal project control & registration.



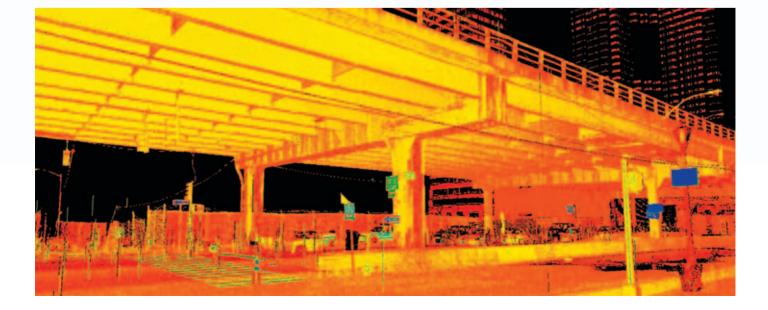
4. Excellent Range

ScanStation 2's detection range (300 m @ 90% reflectivity), high accuracy, small beam, and ultrafine scanning combine for a "useful range" that addresses many typical sites.

Leica ScanStation 2 Performance Specifications	
Instrument type	Pulsed, dual-axis compensated, very-high speed laser scanner, with survey-
	grade accuracy, range, and field-of-view
User interface	Notebook or Tablet PC
Camera	Integrated high-resolution digital camera
Accuracy of single	Position* 6 mm
measurement	Distance* 4 mm
	Angle (horizontal/vertical) 60 µrad/60 µrad
	(3.8 mgon/3.8 mgon) **
Laser spot size	From 0 – 50 m: 4 mm (FWHH-based); 6 mm (Gaussian-based)
Modeled surface	2 mm **
precision/noise	
Target acquisition	2 mm std. deviation
Dual-axis compensator	Resolution 1 ", dynamic range +/- 5 '
Data integrity monitoring	Periodic self-check during operation and start-up
Laser scanning system	Range 300 m @ 90 %; 134 m @18 % albedo
	Scan rate Maximum instantaneous: up to 50,000 points/sec
	Average: dependent on specific scan density and field-of-view
	Scan density <1 mm max, through full range; fully selectable horizontal and
	vertical spacing; single point dwell capability
Laser class	3R (IEC-60825-1), visible green
Lighting	Fully operational between bright sunlight and complete darkness
Power supply	36 V; AC or DC; hot swappable
Specifications subject to change without notice	

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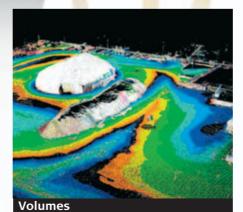
See Leica ScanStation 2 Product Specifications for full technical data * At 50 m range, one sigma ** One sigma







Plants



reflectorless range, and survey accuracy, more precise and safer for many pile



range of accident scenes, archaeology

Whether you're designing a modification to a complex refinery piping system, surveying a site or documenting a historic building, you need reliable measurements. High-Definition Surveying 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, the company that professionals trust for their scanning solutions. Leica Geosystems is best known for pioneering scanning technology with 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.

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Product information



Leica Cyclone 5.8 MODEL, SURVEY Product information



Leica Cyclone 5.8

Product information

REGISTER



Leica Cyclone 5.8 SCAN Product information



Total Quality Management our commitment to total customer satisfaction.

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

Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1



Leica HDS6000

and specifications

Leica ScanStation 2 Product information and specifications



