Leica ScanStation P30/P40 Because every detail matters



The right choice

Whether you need an as-built representation of a large industry complex, a detailed scan of a piping system or a 3D point cloud of a ship hull, you know you'll need accurate life cycle representations in plant engineering and ship building. The combination of speed, range, accuracy and ruggedness make the new ScanStation laser scanners from Leica Geosystems the right choice, because every detail matters.

High performance under harsh conditions

The Leica ScanStations deliver highest quality 3D data and HDR imaging at an extremely fast scan rate of 1 mio points per second at ranges of up to 270m. Unsurpassed range and angular accuracy paired with low range noise and survey-grade dual-axis compensation form the foundation for highly detailed 3D colour point clouds mapped in realistic clarity.

Reduced downtime

The extremely durable new laser scanners perform even under the toughest environmental conditions, such as extreme temperatures ranging from – 20°C to +50°C and comply with the IP54 rating for dust and water resistance.

Complete scanning solution

Leica Geosystems offers the new Leica ScanStation portfolio as an integrated part of a complete scanning solution including hardware, software, service, training and support. 3D laser scanner data can be processed in the industry's leading 3D point cloud software suite, which consists of Leica Cyclone stand-alone software, Leica CloudWorx plug-in tools for CAD systems and the free Leica TruView.



- when it has to be **right**



Leica ScanStation P30/40 **Product specifications**

Accuracy of single measurement* 1.2 mm + 10 ppm over full range Angular accuracy 3" horizontal; 8" vertical 3D position accuracy 3 mm at 50m; 6 mm at 100m Target acquisition ** 2 mm standard deviation at 50m Dual-axis compensator Liquid sensor with real-time onboard compensation, selectable on/off, resolution 1", dynamic range ±5", accuracy 1.5" Distance Measurement System ************************************	System Accuracy	
Angular accuracy 8" horizontal; 8" vertical 3D position accuracy 3mm at 50m; 6mm at 100m Target acquisition " 2mm standard deviation at 50m Dual-axis compensator Liquid sensor with real-time onboard compensation, selectable on/off, resolution 1", dynamic range ±5', accuracy 1.5" Distance Measurement System Type Ultra-high speed time-of-flight enhanced by Waveform Digitising (WFD) technology Wavelength 1550nm (invisible) / 658nm (visible) Laser class 1 (in accordance with IEC 60825:2014) Beam divergence < 0.23 mrad (FWHM, full angle) Beam divergence < 3.5 mm (FWHM) window Minimum range 0.4 m Maximum range at reflectivity 120m 18% - P30 18% P30 18% P30 18% P30 18% P30 18% P40 8% Vertical 270° P30 28 Vertical 270° P30 18% Vertical 270° Dat storage capacity 256 GB internal solid-state drive (SSD) or external USB device </th <th>measurement *</th> <th>1.2 mm + 10 ppm over full range</th>	measurement *	1.2 mm + 10 ppm over full range
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HDR Tonemapped / full range	Video	
External camera Canon EOS 60D and 70D supported		
	External camera	Canon EOS 60D and 70D supported

Power supply	24 V DC, 100 – 240 V AC
Battery type	2× Internal: Li-Ion; External: Li-Ion (connect via extern port, simultaneous use, hot swappable)
Duration	Internal > 5.5 h (2 batteries) External > 7.5 h (room temp.)
Environmental	
Operating temperature	-20°C to +50°C / -4°F to 122°F
Storage temperature	-40°C to +70°C / -40°F to 158°F
Humidity	95%, non-condensing
Dust/Humidity	Solid particle/liquid ingress protection IP54 (IEC 6052)
Physical	
Scanner Dimensions (D×W×H) Weight	238mm × 358mm × 395mm / 9.4" × 14.1" × 15.6" 12.25kg / 27.0lbs, nominal (w/o batteries)
Battery (internal) Dimensions (D×W×H) Weight	40 mm × 72 mm × 77 mm / 1.6" × 2.8" × 3.0" 0.4 kg / 0.9 lbs
Mounting	Upright or inverted
Control Options	
Full colour touchscreen for Remote control: Leica CS10,	
Full colour touchscreen for Remote control: Leica CS10,	/CS15 controller or any other remote desktop capable
Full colour touchscreen for Remote control: Leica CS10, device, including iPad, iPhor	/CS15 controller or any other remote desktop capable
Full colour touchscreen for Remote control: Leica CS10, device, including iPad, iPhor Functionality Survey workflows and	(CS15 controller or any other remote desktop capable ne and other SmartPhones; external simulator. Quick Orientation, Set Azimuth, Known Backsight, Resection (4 and 6 parameters)
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Full colour touchscreen for Remote control: Leica CS10, device, including iPad, iPhor Functionality Survey workflows and onboard registration Check & Adjust Onboard target	/CS15 controller or any other remote desktop capable ne and other SmartPhones; external simulator. Quick Orientation, Set Azimuth, Known Backsight, Resection (4 and 6 parameters) Field procedure for checking of angular parameters, t compensator and range offset
Full colour touchscreen for Remote control: Leica CS10, device, including iPad, iPhor Functionality Survey workflows and onboard registration Check & Adjust Onboard target acquisition	(CS15 controller or any other remote desktop capable he and other SmartPhones; external simulator. Quick Orientation, Set Azimuth, Known Backsight, Resection (4 and 6 parameters) Field procedure for checking of angular parameters, t compensator and range offset Target selection from video or scan
Full colour touchscreen for Remote control: Leica CS10, device, including iPad, iPhor Functionality Survey workflows and onboard registration Check & Adjust Onboard target acquisition Onboard user interface	(CS15 controller or any other remote desktop capable he and other SmartPhones; external simulator. Quick Orientation, Set Azimuth, Known Backsight, Resection (4 and 6 parameters) Field procedure for checking of angular parameters, t compensator and range offset Target selection from video or scan Switchable from standard to advanced
Full colour touchscreen for Remote control: Leica CS10, device, including iPad, iPhor Functionality Survey workflows and onboard registration Check & Adjust Onboard target acquisition Onboard user interface One button scan control	 (CS15 controller or any other remote desktop capable ne and other SmartPhones; external simulator. Quick Orientation, Set Azimuth, Known Backsight, Resection (4 and 6 parameters) Field procedure for checking of angular parameters, t compensator and range offset Target selection from video or scan Switchable from standard to advanced Scanner operation with one button concept Scan area selection from video or scan; batch job

All specifications are subject to change without notice. All accuracy specifications are one sigma unless otherwise noted. * At 78% albedo * Algorithmic fit to planar HDS 4,5" B&W targets

Scanner: Laser class 1 in accordance with IEC 60825:2014 Laser plummet: Laser class 1 in accordance with IEC 60825:2014

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Leica ScanStation P16

Leica Cyclone REGISTER Leica Cyclone MODEL

him



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.

Scan here to view the online brochure!



Leica Geosystems AG Heerbrugg, Switzerland

scanstation.leica-geosystems.com

- when it has to be **right**

