Leica ScanStation P16 Because every detail matters



Easy-to-use

The Leica ScanStation P16 features an intuitive and user-friendly touch screen interface. The one-touch scan button and wizard style software guarantees an easy workflow and enable a fast data check in the field. Combined with WLAN remote control, the Leica ScanStation P16 can be operated by any handheld device.

Value for money

Its attractive price-performance ratio, worldwide support and quality service from Leica Geosystems result in a low cost of ownership and make the Leica ScanStation P16 the perfect solution for companies entering the laser scanning business.

Reduced downtime

The extremely durable new laser scanner performs even under the toughest environmental conditions, such as extreme temperatures ranging from -20° C to $+50^{\circ}$ C and complies 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.



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Leica ScanStation P16 **Product specifications**

System Accuracy	
Accuracy of single	
measurement *	
Range accuracy	1.2 mm + 10 ppm over full range
Angular accuracy	8" horizontal; 8" vertical
3D position accuracy	3 mm at 40 m
Target acquisition **	Up to 40m in post-processing software
Dual-axis compensator	Liquid sensor with real-time onboard compensation, selectable on/off, resolution 1", dynamic range ± 5 ', accuracy 1.5"
Distance Measurement Sy	stem
Туре	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	< 0.23mrad (FWHM, full angle)
Beam diameter at front window	≤ 3.5 mm (FWHM)
Range and reflectivity	Up to 40m; 18% reflectivity (minimum range 0.4m)
Scan rate	Up to 1'000'000 points per second
Range noise *	0.4mm rms at 10m 0.5mm rms at 40m
Field-of-View Horizontal Vertical	360° 270°
Data storage capacity	256 GB internal solid-state drive (SSD) or external USB device
Communications/ Data transfer	Gigabit Ethernet, integrated Wireless LAN or USB 2.0 device
Onboard display	Touchscreen control with stylus, full colour VGA graphic display (640×480 pixels)
Laser plummet	Laser class 1 (IEC 60825:2014)
	Centring accuracy: 1.5 mm at 1.5 m
	Laser dot diameter: 2.5 mm at 1.5 m
	Selectable ON/OFF
Imaging System	
Internal camera	
Resolution	4 megapixels per each 17°×17° colour image;
Resolution	700 megapixels for panoramic image
Pixel size	2.2 µm
PIXEI SIZE	
Video	Streaming video with zoom; auto-adjusts to ambient lighting

Power supply	
	24 V DC, 100 – 240 V AC
Battery type	2× Internal: Li-Ion; External: Li-Ion (connect via external 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 60529)
Physical	
Scanner Dimensions (D×W×H) Weight	238mm × 358mm × 395mm / 9.4" × 14.1" × 15.6" 12.25 kg / 27.0 lbs, nominal (w/o batteries)
Battery (internal) Dimensions (D×W×H) Weight	40mm × 72mm × 77mm / 1.6" × 2.8" × 3.0" 0.4kg / 0.9lbs
weight	
Mounting	Upright or inverted
Mounting	
Mounting Control Options Full colour touchscreen for c Remote control: Leica CS10// device, including iPad, iPhon	Upright or inverted
Mounting Control Options Full colour touchscreen for c Remote control: Leica CS10// device, including iPad, iPhon Functionality	Upright or inverted onboard scan control. CS15 controller or any other remote desktop capable e and other SmartPhones; external simulator.
Mounting Control Options Full colour touchscreen for c Remote control: Leica CS10// device, including iPad, iPhon Functionality One button scan control	Upright or inverted onboard scan control. CS15 controller or any other remote desktop capable e and other SmartPhones; external simulator. Scanner operation with one button concept
Mounting Control Options Full colour touchscreen for c Remote control: Leica CS10// device, including iPad, iPhon Functionality	Upright or inverted onboard scan control. CS15 controller or any other remote desktop capable e and other SmartPhones; external simulator.
Mounting Control Options Full colour touchscreen for c Remote control: Leica CS10// device, including iPad, iPhon Functionality One button scan control	Upright or inverted onboard scan control. CS15 controller or any other remote desktop capable e and other SmartPhones; external simulator. Scanner operation with one button concept Scan area selection from video or scan; batch job

All accuracy specifications are one sigma unless or * At 78% albedo *** Algorithmic fit to planar HDS 4.5" B&W targets sıgr

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 P30/40 Leica Cyclone REGISTER Leica Cyclone MODEL





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.

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Leica Geosystems AG Heerbrugg, Switzerland

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