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 guarantee 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°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		Power	
Accuracy of single		Power supply	24 V DC, 100 - 240 V AC
measurement *		Battery type	2× Internal: Li-Ion; External: Li-Ion (connect via external
Range accuracy	1.2 mm + 10 ppm over full range	,	port, simultaneous use, hot swappable)
Angular accuracy 3D position accuracy	8" horizontal; 8" vertical 5 mm at 80 m	Duration	Internal > 5.5 h (2 batteries)
Target acquisition **	Up to 40m in post-processing software		External > 7.5 h (room temp.)
Dual-axis compensator	Liquid sensor with real-time onboard compensation,	Environmental	
Dual axis compensator	selectable on/off, resolution 1", dynamic range ±5',	Operating temperature	-20°C to +50°C / -4°F to 122°F
	accuracy 1.5"	Storage temperature	-40°C to +70°C / -40°F to 158°F
	und num	Humidity	95%, non-condensing
Distance Measurement S		Dust/Water	Solid particle/liquid ingress protection IP54 (IEC 60529)
Туре	Ultra-high speed time-of-flight enhanced by Waveform Digitizing (WFD) technology		
Wavelength	1550nm (invisible) / 658nm (visible)	Physical	
Laser class	1 (in accordance with IEC 60825:2014)	Scanner Dimensions (D×W×H)	238mm × 358mm × 395mm / 9.4" × 14.1" × 15.6"
Beam divergence	<0.23 mrad (FWHM, full angle)	Weight	12.25kg / 27.0lbs, nominal (w/o batteries)
Beam diameter at front	≤ 3.5mm (FWHM)	Battery (internal)	
window		Dimensions (D×W×H)	40 mm × 72 mm × 77 mm / 1.6" × 2.8" × 3.0"
Range and reflectivity	Up to 80m; 18% reflectivity (minimum range 0.4m)	Weight	0.4 kg / 0.9 lbs
Scan rate	Up to 1'000'000 points per second	Mounting	Upright or inverted
Range noise *	0.4mm rms at 10m 0.5mm rms at 50m	Control Options	
Field-of-View		Full color touchscreen for onboard scan control. Remote control: Leica CS10/CS15/CS20/CS35 controller or any other remote desktop	
Horizontal Vertical	360° 290°	capable device, including iPad, iPhone and other SmartPhones; external simulator.	
Data storage capacity	256 GB internal solid-state drive (SSD) or	Functionality One button scan control Scanner operation with one button concept	
· · · · · · · · · · · · · · · · · · ·	external USB device		
Communications/	Gigabit Ethernet, integrated Wireless LAN or	Scan area definition	Scan area selection from video or scan; batch job scanning
Data transfer	USB 2.0 device	Scall area definition	Scan area selection from video or scan, batch job scanning
Onboard display	Touchscreen control with stylus, full color VGA	Ordering Information	
1	graphic display (640×480 pixels)	Contact your local Leica Geosystems representative or an authorized Leica Geosystems	
Laser plummet	Laser class 1 (IEC 60825:2014) Centering accuracy: 1.5mm at 1.5m	dealer.	
	Laser dot diameter: 2.5mm at 1.5m		
	Selectable ON/OFF		
Imaging System		All specifications are subject to o	change without notice.
Internal camera		All accuracy specifications are one sigma unless otherwise noted.	
Resolution	4 megapixels per each 17°×17° color image;	 At 78% albedo Algorithmic fit to planar HDS 4.5" B&W targets 	
	700 megapixels for panoramic image		
Pixel size Video	2.2 µm	Scanner: Laser class 1 in accordance with IEC 60825:2014 Laser plummet: Laser class 1 in accordance with IEC 60825:2014	
VIGEO	Streaming video with zoom; auto-adjusts to ambient lighting		
White balancing	Sunny, cloudy, warm light, cold light, custom	iPhone and iPad are trademarks of Apple Inc.	
HDR	Tonemapped / full range	Illustrations, descriptions and technical specifications are not binding. All rights reserved. Printed in Switzerland - Copyright Leica Geosystems AG, Heerbrugg, Switzerland 2016. 835467en-us - 03.17	
External camera	Canon EOS 60D/70D/80D supported		



Leica ScanStation P30/40

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on P30/40 Leica Cyclo

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.

Leica Geosystems AG

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