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°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	battery type	port, simultaneous use, hot swappable)
Angular accuracy	8" horizontal; 8" vertical	Duration	Internal > 5.5h (2 batteries)
3D position accuracy	3 mm at 40 m		External > 7.5 h (room temp.)
Target acquisition **	Up to 40m in post-processing software		
Dual-axis compensator	Liquid sensor with real-time onboard compensation,	Environmental	
	selectable on/off, resolution 1", dynamic range \pm 5', accuracy 1.5"	Operating temperature	-20°C to +50°C / -4°F to 122°F
		Storage temperature	-40°C to +70°C / -40°F to 158°F
Distance Measurement S	ystem	Humidity	95%, non-condensing
Туре	Ultra-high speed time-of-flight enhanced by Waveform Digitizing (WFD) technology	Dust/Humidity	Solid particle/liquid ingress protection IP54 (IEC 60529)
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	12.25 kg / 27.0 lbs, nominal (w/o batteries)
Beam diameter at front window	≤ 3.5mm (FWHM)	Battery (internal) Dimensions (D×W×H)	40 mm × 72 mm × 77 mm / 1.6" × 2.8" × 3.0"
Range and reflectivity	Up to 40m; 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 40m	Control Options	
Field-of-View Horizontal Vertical Data storage capacity	360° 270° 256 GB internal solid-state drive (SSD) or	Full color touchscreen for onboard scan control. Remote control: Leica CS10/CS15 controller or any other remote desktop capable device, including iPad, iPhone and other SmartPhones; external simulator. Functionality	
	external USB device	One button scan control	Scanner operation with one button concept
Communications/ Data transfer	Gigabit Ethernet, integrated Wireless LAN or USB 2.0 device	Scan area definition	Scan area selection from video or scan; batch job scanning
Onboard display	Touchscreen control with stylus, full color VGA	Ordering Information Contact your local Leica Geosystems representative or an authorized Leica Geosystems	
	graphic display (640×480 pixels)		
Laser plummet	Laser class 1 (IEC 60825:2014) Centering accuracy: 1.5mm at 1.5m Laser dot diameter: 2.5mm at 1.5m Selectable ON/OFF	dealer.	
Imaging System		All specifications are subject to o	
Internal camera		All accuracy specifications are one sigma unless otherwise noted. * At 78% albedo	
Resolution	4 megapixels per each 17°×17° color image; 700 megapixels for panoramic image	** Algorithmic fit to planar HDS 4.5" B&W targets	
Pixel size	2.2 µm	Scanner: Laser class 1 in accordance with IEC 60825:2014 Laser plummet: Laser class 1 in accordance with IEC 60825:2014	
Video	Streaming video with zoom; auto-adjusts to ambient		
White balancing	lighting 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.	
External camera	Canon EOS 60D and 70D supported	Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland 2015. 835467en-us – 03.15 – INT	



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Leica ScanStation P30/40

Leica Cyclone REGISTER

Leica Cyclone MODEL

··· Aim



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!



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