Leica ScanStation P30/P40 Because every detail matters





The right choice

Whether you have to document a crime scene, reconstruct a traffic accident or create virtual reality scenarios for security planning, factual evidence is vitally important in forensics. The new ScanStation laser scanners from Leica Geosystems are the right choice for preserving, analysing or reconstructing forensic science, because every detail matters.



Reduced downtime

CAUTION

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 270 m. 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.

Complete scanning solution

Leica Geosystems offers the ScanStation P30/P40 as a complete scanning solution including hardware, software, service, training and support. Captured data can be visualised and pre-registered in the field with Cyclone FIELD 360 app or fully registered with Cyclone FIELDWORX app, then processed in the industry's leading 3D point cloud office software suite, comprising Cyclone stand-alone software, JetStream, CloudWorx plug-in tools for CAD systems and the cost-free TruView.







- when it has to be **right**

Leica ScanStation P30/P40 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 3 mm at 50m; 6 mm at 100 m				Duration	Internal > 5.5 h (2 batteries) External > 7.5 h (room temp.)		
Target acquisition **	2 mm standard deviation at 50 m				ENVIRONMENTAL			
Dual-axis compensator	Liquid sensor with real-time onboard compensation, selectable on/off, resolution 1", dynamic range ±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		
accuracy 1.5"					Humidity	95%, non-condensing		
DISTANCE MEASUREMENT SYSTEM					Dust/Water	Solid particle/liquid ingress protection IP54 (IEC 60529)		
Туре	Ultra-high speed time-of-flight enhanced by Waveform Digitising (WFD) technology				PHYSICAL			
Wavelength	1550nm (invisible) / 658nm (visible)				Scanner 238 mm × 358 mm × 395 mm / 9.4" × 14.1" × 15.6" Weight 12.25 kg / 27.0 lbs, nominal (w/o batteries)			
Laser class	1 (in accordance with IEC 60825:2014)							
Beam divergence	< 0.23 mrad (FWHM, full angle)				Battery (internal)			
Beam diameter at front window	≤ 3.5 mm (FWHM)				Dimensions (D×W×H) Weight	40mm × 72mm × 77mm / 1.6" × 2.8" × 3.0" 0.4 kg / 0.9 lbs		
Range and reflectivity	Minimum range 0.4 m				Mounting	Upright or inverted		
	Maximum range at reflectivity				CONTROL OPTIONS			
		120m	180 m	270m	Full colour touchscreen for	our touchscreen for onboard scan control.		
	P30	18%	-	-	Remote control: Leica CS10/CS15/CS20/CS35 controller or any other remote desktop			
	P40 8% 18% 34%				capable device, including iPad, iPhone and other SmartPhones; external simulator. Leica Cyclone FIELD 360 with tablet and SmartPhone (iOS and Android). Leica Cyclone FIELDWORX with Windows® Surface tablet.			
Scan rate	Up to 1,000,000 points per second							
tange noise * 0.4mm rms at 10m 0.5mm rms at 50m								
Field-of-View						Quick existation. Cet arimuth Known backgight		
Horizontal Vertical	360° 290°				Survey workflows and onboard registration	Quick orientation, Set azimuth, Known backsight, Resection (4 and 6 parameters), Traverse		
Data storage capacity	256 GB internal solid-state drive (SSD) or external USB device				Check & Adjust	Field procedure for checking of angular parameters, tilt compensator and range offset		
Communications/	munications/ Gigabit Ethernet, integrated Wireless LAN or			lor	Onboard target acquisition	Target selection from video, scan or red laser beam		
Data transfer					Onboard user interface	Switchable from standard to advanced		
Onboard display	nboard display Touchscreen control with stylus, full colour VGA			ur VGA	One button scan control	Scanner operation with one button concept		
Laser plummet	graphic display (640×480 pixels) Laser class 1 (IEC 60825:2014)				Scan area definition	Scan area selection from video or scan; batch job scanning		
	Centring accuracy: 1.5mm at 1.5m Laser dot diameter: 2.5mm at 1.5m Selectable ON/OFF				Double scan	Automatic removal of point cloud noise introduced by moving objects		
IMAGING SYSTEM					All specifications are subject	rt to change without notice		
Internal camera Resolution					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			
Pixel size Video	2.2 µm Streaming video with zoom; auto-adjusts to ambient lighting				Scanner: Laser class 1 in accordance with IEC 60825:2014 Laser plummet: Laser class 1 in accordance with IEC 60825:2014			
White balancing HDR	DR Sunny, cloudy, warm light, cold light, custom Tonemapped / full range				iPhone and iPad are trademarks of Apple Inc. Microsoft, Windows® and the Windows logo are either registered trademarks or			
External camera Canon EOS 60D/70D/80D/90D supported						prporation in the United States and / or other countries.		

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Leica RTC360 3D Reality Capture Solution Leica Cyclone REGISTER Leica

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