The right choice
Whether you need a detailed as-built representation of a façade, a 2D floor plan or 3D data for integration into Building Information Modelling (BIM), real-time planning of architecture and building projects with fast and accurate deliverables is important. The new ScanStation laser scanners from Leica Geosystems are 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

### System Accuracy

<table>
<thead>
<tr>
<th>Accuracy of single measurement</th>
<th>Range accuracy: 1.2 mm + 10 ppm over full range</th>
<th>Angular accuracy: 8° horizontal; 8° vertical</th>
<th>3D position accuracy: 3 mm at 50 m; 6 mm at 100 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target acquisition **</td>
<td>2 mm standard deviation at 50 m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Distance Measurement System

<table>
<thead>
<tr>
<th>Type</th>
<th>Ultra-high speed time-of-flight enhanced by Waveform Digitising (WFD) technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>1550 nm (invisible) / 658 nm (visible)</td>
</tr>
<tr>
<td>Laser class</td>
<td>1 (in accordance with IEC 60825-2014)</td>
</tr>
<tr>
<td>Beam divergence</td>
<td>≤ 0.23 mrad (FWHM, full angle)</td>
</tr>
<tr>
<td>Beam diameter at front window</td>
<td>3.5 mm (FWHM)</td>
</tr>
<tr>
<td>Range and reflectivity</td>
<td>Minimum range 0.4 m, Maximum range at reflectivity: 120m, 180m, 270m</td>
</tr>
<tr>
<td>P30</td>
<td>18%</td>
</tr>
<tr>
<td>P40</td>
<td>8%</td>
</tr>
</tbody>
</table>

### Scan rate

- Up to 1,000,000 points per second

### Field-of-View

- Horizontal: 360°
- Vertical: 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

### Imaging System

- Internal camera
  - Resolution: 4 megapixels per each 17° × 17° colour image; 700 megapixels for panoramic image
  - Video: 2.2 µm
  - White balancing: Streaming video with zoom; auto-adjusts to ambient lighting
  - HDR: Sunny, cloudy, warm light, cold light, custom Tonemapped / full range
- External camera
  - Canon EOS 60D and 70D supported

### Power

- Power supply: 24 V DC, 100 – 240 V AC
- Battery type: 2x 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): 238 mm × 358 mm × 395 mm / 9.4” × 14.1” × 15.6”
- Weight: 12.25 kg / 27.0 lbs, nominal (w/o batteries)

### Control Options

- Full colour 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

- Survey workflows and onboard registration: Quick Orientation, Set Azimuth, Known Backsight, Resection (4 and 6 parameters)
- Check & Adjust: Field procedure for checking of angular parameters, tilt compensator and range offset
- Onboard target acquisition: Target selection from video or scan
- Onboard user interface: Switchable from standard to advanced
- One button scan control: Scanner operation with one button concept
- Scan area definition: Scan area selection from video or scan; batch job scanning

### Ordering Information

- Contact your local Leica Geosystems representative or an authorised Leica Geosystems dealer.

All specifications are subject to change without notice.

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