Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>LT800</th>
<th>LTD800</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compatibility</strong></td>
<td>No</td>
<td>Yes, after ADM upgrade</td>
</tr>
<tr>
<td>T-CAM 700 for dynamic 6DOF tracking</td>
<td>Yes, after ADM upgrade</td>
<td>Yes, after ADM upgrade</td>
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<tr>
<td>T-CAM 800 for dynamic 6DOF tracking</td>
<td>Yes, after ADM upgrade</td>
<td>Yes, after ADM upgrade</td>
</tr>
<tr>
<td>T-Probe for wireless probing</td>
<td>No</td>
<td>Yes, after ADM upgrade</td>
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<tr>
<td>T-Scan for hand held scanning</td>
<td>No</td>
<td>Yes, after ADM upgrade</td>
</tr>
</tbody>
</table>

**Tracking**
- Maximal target speed: > 4 m/s
- Max acceleration: > 2 g
- Measurement volume:
  - Vertical: ± 235°
  - Measurement range: 0 – 40 m
- Measuring rate:
  - Measurement rate: 3'000 points/sec
  - Measurement rate output: 3'000 points/sec

**Laser Interferometer**
- Principle of operation: single beam heterodyne interferometer
- Safety class: IEC / EN: class 2
- Maximal output power: < 0.3 mW/CW
- Wave length: 633 nm (visible)
- Beam diameter: 4.5 mm
- Beam divergence: no divergence (collimated)
- Distance resolution: ± 1.26 micron
- Reproducibility of a coordinate:
  - Absolute accuracy:
    - Wave length stabilization: ± 0.5 micron/m
    - Initial distance with bird bath: ± 10 micron

**Absolute Distance Meter for Automation**
- Principle of operation: upgradeable
- Light polarization modulation:
  - 1 micron: ± 25 micron
  - 1.5 – 40 mm: ± 25 micron
  - ≤ 0.5 mm/2 sec: ± 10 micron
- Absolute accuracy:
  - Near (0 – 2.5 m): ± 12 micron/m
  - Far (2.5 m to max distance): ± 5 micron/m
- Measurement range: ≤ 40 m
- Wave length: 780 nm (infrared)
- Beam diameter: ≤ 9 mm
- Beam divergence: no divergence (collimated)

**Ambient Conditions**
- Working temperature (three ranges):
  - +0° to +40° C
  - +32° to +140° F
- Storage Temperature:
  - +10° to +60°
  - +14° to +140° F
- Relative humidity: 10 – 90%, (non condensing)
- Elevation for operation (air pressure):
  - 0 – 5'000 m
  - 0 – 15'000 ft
- Elevation for storage (air pressure):
  - 0 – 12'000 m
  - 0 – 40'000 ft

**Dimensions and Weight - Sensor**
- Dimensions sensor: 220 mm x 280 mm x 875 mm
- Transit axis height: 815 mm (32.1")
- Weight: 32.6 kg (71.9 lb)

**Dimensions and Weight - Controller**
- Dimensions controller: 510 mm x 485 mm x 200 mm
- Weight controller: 17.0 kg (37.5 lb)
- Marks of conformity: CB-certified by SEV, CE, G

The Leica LTD800 sets new standards, giving you more features and advantages than any other tracker on the market. Add to this the LTD800’s compatibility with an upcoming series of accessories enabling 6DOF tracking, armless, wireless probing; and handheld, non-contact 3D-scanning, and you can go beyond tracking tasks towards a complete PCMM solution, giving you a wider perspective – in all dimensions.

**Combined measurement uncertainty for length according to ISO “Guideline to the Expression of Uncertainty in Measurements” and NIST Technical Note 1297**

**Featuring...**
- View finder for remote measurement processes
- Highly accurate and user-friendly leveling device
- Measurement range 0 – 40 m
- Fastest measurement cycle in the world: 3'000 pts per second
- Reliable automatic beam capture with absolute distance meter (ADM)
- 50% more accurate ADM
- Extended specifications for environmental conditions
- Laser Tracker browser control
- Completely open and programmable client/server interface
- Proven track record with over 1'000 Leica Tracker in the market
- Compatible with the upcoming All-in-One Solution
- Full automation features

**Giving you...**
- Safer, more convenient and faster measurement processes
- Fast and precise measurement leveling
- Largest measurement volume ever
- Highest point density even when measuring fast moving objects
- Faster measurement processes
- Using the Leica Tracker under practically all conditions
- Intranet enabled tracker operations enabling 100% digital and remote processes
- Seamless integration with your standard software or with automated processes
- Highest reliability on the market
- One large-volume PCMM enabling tracking; armless, wireless probing; and handheld, non-contact scanning
- Completely automated inspection processes

**Choose more functionalities... Choose Leica**