

Zu vermieten:

Leica Laser Tracker LT(D)800 Technische Spezifikationen



Specifications (All accur	racy specifications a	re 2 Sigma values!)
		LT800	LTD800
Compatibility T-CAM700 for dynamic 6DOF tracking T-CAM800 for dynamic 6DOF tracking T-Probe for wireless probing T-Scan for hand held scanning	Y	No Yes, after ADM up Yes, after ADM up Yes, after ADM up	grade Yes
Tracking Maximal target speed At right angles of the laser beam In the direction of laser beam		> 4 r > 6 r	
Max acceleration · At right angles of the laser beam · In the direction of laser beam		> 2 Unlim	
Measurement volume · Horizontal · Vertical · Measurement range		± 23 ± 4 0 - 4	5°
Measuring rate · Measurement rate · Measurement rate · Measurement rate output		3'000 points/sec 1'000 points/sec	
Laser Interferometer		- 11	
Principle of operation Safety class		single beam heterodyne interferometer 21 CFR: Safety class II IEC / EN: class 2	
Maximal output power		< 0.3 mW/CW	
Wave length		633 nm (visible)	
Beam diameter		≈ 4 5 mm	
Beam divergence Distance resolution		no divergence (collimated)	
Reproducibility of a coordinate		1.26 micron ± 5 micron/m	
Absolute accuracy Wave length stabilization		± 0.5 micron/m	
· Initial distance with bird bath		± 10 m	
Angular Measurements Angular resolution		0.14 arc sec	
Repeatability · Near (0 – 2.5 m) · Far (2.5 m to max distance)		± 12 micron ± 5 micron/m	
Absolute accuracy For non moving target (0 – 2.5 m) For non moving target (2.5 to max) For slow moving target For fast moving target		± 25 micron ± 10 micron/m ± 20 micron/m ± 40 micron/m	
Absolute Distance Meter for Automa	tion		
Principle of operation			Light polarization modulation
Resolution			1 micron
Accuracy			± 25 micron
Measurement range		<u>e</u>	1.5 –40 m
Safety class		Upgradeabl	21 CFR:class I
Maximum output power		pgre	IEC/EN class 1 < 0.5 mW/2 sec
Wave length		⊃ 780 nm	
			(infrared)
Beam diameter Beam divergence			≈ 9 mm no divergence
Beam divergence			(collimated)
Ambient Conditions Working temperature (three ranges)		+0° to +40° C +32° to +104° 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 – 16'500 ft	
Elevation for storage (air pressure)		0 – 16 500 ft 0 – 12'000 m 0 – 40'000 ft	
Dimensions and Weight – Sensor Dimensions sensor		220 mm × 280 mm × 875 mm 8.7" × 11" × 31.5"	
Transit axis height		815 mm	
Weight		32.6 kg	34.1 kg
Dimensions and Weight Controller		71.9 lb	75.2 lb
Dimensions and Weight – Controller Dimensions controller		510 mm x 485 mm x 200 mm 20.0" x 19.1" x 7.9"	
Weight controller		17.0 kg (37.5lb)	
Marks of comformity		CB-certified by SEV, CE, (1)	

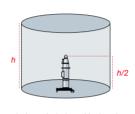
Making Metrology Mobile

New Standards-More Applications

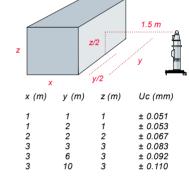
The Leica Laser Tracker LTD800 sets new standards in portable coordinate measurement. Based on proven technology used by operators in every major industry, we once again set new standards by introducing the LTD800, which will give you more features and advantages than any other

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 "Guide to the Expression of Uncertainty in Measurements" and NIST Technical Note 1297



r (m)	n (m)	Uc (mm)
2	2	± 0.055
5	5	± 0.085
10	10	± 0.156
20	20	± 0.297



The Leica LTD800 sets new standards, giving you more features and advantages than any other tracker on the market.

Featuring...

- · View finder for remote and automatic measurements
- 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 distancemeter (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
- Highest precision for your measuring processes
- Use of 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



LT(D)800is manufactured under the following US patents: Nr. 4714339and Nr. 5530549