Leica Absolute Tracker AT960

Key features

Overview camera
High-resolution display with live view and multiple zoom levels with no reduction in image quality

PowerLock
Interrupted line of sight automatically re-established with no user interaction

Multifunctionality
Compatible with:

> reflectors and Leica T-Probe for single-point measurement

> AS1, LAS and LAS-XL scanners for non-contact measurement

> automated robotic installations

Real-time data output
1000 Hz low-latency Ethercat data transfer with the optional Real-Time Feature Pack

Hot-swappable battery power
Quick and easy cable-free setup in almost any location

Orient-to-gravity function
Allows for measurement with the Z-axis aligned to gravity – ideal for levelling and alignment tasks

Built-in WiFi
For simple set up and communication with the PC and remote control operation

Large volume
Measure within a volume up to 160 metres in diameter

IP54 protection
IEC-certified sealed unit guarantees ingress protection against dust and other contaminants

ISO certification
System traceability certified in line with ISO 17025

Real-time remote monitoring
Compatibility with HxGN SFx | Asset Management, the leading solution for of Industry 4.0 asset performance management

GPS location service
Possibility to track location of the Absolute Tracker anywhere in the world, even when it is switched off.

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Key features for benchmarking

Does the laser tracker deliver the following benefits?

		AT960	Other tracker
General	Can it lock onto a target with just 10 microns of uncertainty at any distance within range?	✓	
	Can it measure a reflector from a distance of up to 80 m away?	✓	
	Is it IP54 certified to ensure system protection in harsh environments and minimise downtime?	✓	
	Is the laser tracker compatible with multiple types of accessories such as probes, scanners, automation add-ons?	✓	
	Can the tracker be used in non-conventional orientations (upside down or tilted) while using probes or scanners?	✓	
	Does it have an internal levelling sensor accurate to within just ±1 arcsec?	✓	
	Is it possible to get information such as connection status, environmental data and usage statistics and even get immediately notified if an event happens?	✓	
	Is the system compatible with the standard metrology packages on the market?	✓	
	Can the tracker be located using GPS signal all over the world, even when the tracker is switched off?	✓	
Portability	Does it support WiFi connectivity?	✓	
	Has the system gone through a drop test proving that it will remain fully functional if submitted to a hard shock such as may happen during transportation?	✓	
	Can it operate on battery power for more than 6 hours?	✓	
	Can the batteries be hot-swapped, allowing for longer operation without switching off the instrument?	✓	
Probing	Does the probe automatically recognise the stylus, avoiding operator errors due to incorrect selections?	✓	
	Does the probe ensure the repeatability of the mounting, saving time by eliminating the need for recalibration?	✓	
	Does the probe have wide working angles (± 45°) and function at any rotation angle, independent from the orientation of the laser tracker?	✓	
	Does the probe have multiple buttons that can assign different functions (accept point, reject point, next point, etc.)?	✓	
	Does the probe have audible and visual feedback?	✓	
	Does the probe support long extensions, bigger than 600 mm, that allow it to reach hidden points?	✓	
	Is the probe free of time-consuming connection tasks such as pairing the probe to tracker?	✓	
	Is the probe so accurate that it can measure a scale bar at 5 meters to within 80 microns?	✓	
Scanning	Is the laser tracker compatible with a laser scanner?	✓	
	Is it possible to use a laser scanner that allows the user to scan multiple colours and materials in a single pass?	✓	
	Is it possible to use a laser scanner that can be both handheld and mounted within robotic installations?	✓	
	Can the laser scanner scan objects without spraying or applying targets to the part?	✓	
	Is the scanner so accurate that it can measure a scale-bar to within 50 microns up to 30 metres from the tracker?	✓	
	Is it possible to scan very large parts with only one instrument because it is easy to move around the measurement object?	✓	
	Is the scanner certified according to ISO 10360-10?	✓	
	Can the same laser scanner be used with an Arm (for areas of difficult access) and with a laser tracker for large volume scanning?	✓	
	Can the laser scanner acquire up to 1.2 million points/s for a very productive scanning job?	✓	
Automation	Can the system inspect parts automatically and accurately, independent from robot accuracy performance?	✓	
	Does the system offer a fully integrated hybrid automation solution combining high-speed scanning of surfaces and features with probing hidden points?	✓	
	Can the system work both manually and automatically using the same software interface without affecting accuracy performance?	✓	
	Can the system be used for inline measurements that require inspection without part preparation or the need for special fixtures?	✓	
Certification and service	Does it come with ISO 17025 certification to ensure the traceability of the calibration process?	✓	
	Does it come with a 2-year factory warranty as standard?	✓	
	Does it have 10 years of guaranteed serviceability, allowing more time to plan for a replacement?	✓	
	Is the product specified according to ISO 10360-10?	✓	
	Does the supplier have service centres spread all over the world to minimise shipment costs, avoid customs bureaucracy and provide top-quality service in a local language?	✓	

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Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

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