

Leica Absolute Tracker ATS600

Key features



Overview camera

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



Direct scanning

- > 3D surface inspection without reflectors – just select the area of interest and a point cloud is automatically generated
- > Align the point cloud using reflector measurement for highest accuracy
- > Dedicated line and ring scan measurement profiles for specific applications
- > Uniform grid scanning for every surface using 3D vector alignment



PowerLock

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



Automation-ready

Mount the ATS600 on a mobile autonomous vehicle and for fully automated inspection



Panorama display

Create an automatic panorama display image to easier management of scan area



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 Wi-Fi

For simple set up and communication with the PC and remote control operation



Large volume

Measure within a volume up to 160 metres (120 metres reflectorless) 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



Reflectorless build and inspection

Enables the fast adjustment of tools and the assembly of large parts without the need for a reflector



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Key features for benchmarking

Does the laser tracker deliver the following benefits?

		ATS600	Other tracker
General	Can it measure with ultra-low range noise of less than 80 µm?	✓	
	Does it have an internal levelling sensor accurate to within just ±1 arcsec?	✓	
	Is it IP54 certified to ensure system protection in harsh environments and minimise downtime?	✓	
	Can it measure from up to 60 m away without reflector and up to 80 m with reflector?	✓	
	Can the tracker be used in non-conventional orientations (upside down or tilted)?	✓	
	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?	✓	
	Does the instrument provide immediate results with no need for post-processing?	✓	
Portability	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?	✓	
	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?	✓	
Direct scanning	Can it directly scan large objects by selecting the surface of interest and defining the point-to-point distance?	✓	
	Can it measure points located in high areas without the need for an operator using scaffolding and safety equipment?	✓	
	Can it scan areas by clicking on a CAD surface or selecting an area of interest with an integrated overview camera?	✓	
	Can the system directly scan the object, compare with CAD and immediately provide results in a single software package?	✓	
	Can the tracker combine high-accuracy reflector measurement for alignment and direct scanning capability?	✓	
	Can the system automatically detect the 3D plane of the scanning surface and automatically adjust the scanning profile to deliver a uniform grid scan across the measurement area?	✓	
Certification and service	Can it be mounted on an automated mobile platform for cable-free automated shop-floor inspection?	✓	
	Does it come with ISO 17025 certification to ensure the traceability of the calibration process?	✓	
	Is the product specified according to ISO 10360-10?	✓	
	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?	✓	
	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.

Hexagon's Manufacturing Intelligence division provides solutions that utilise data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit hexagonmi.com.

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