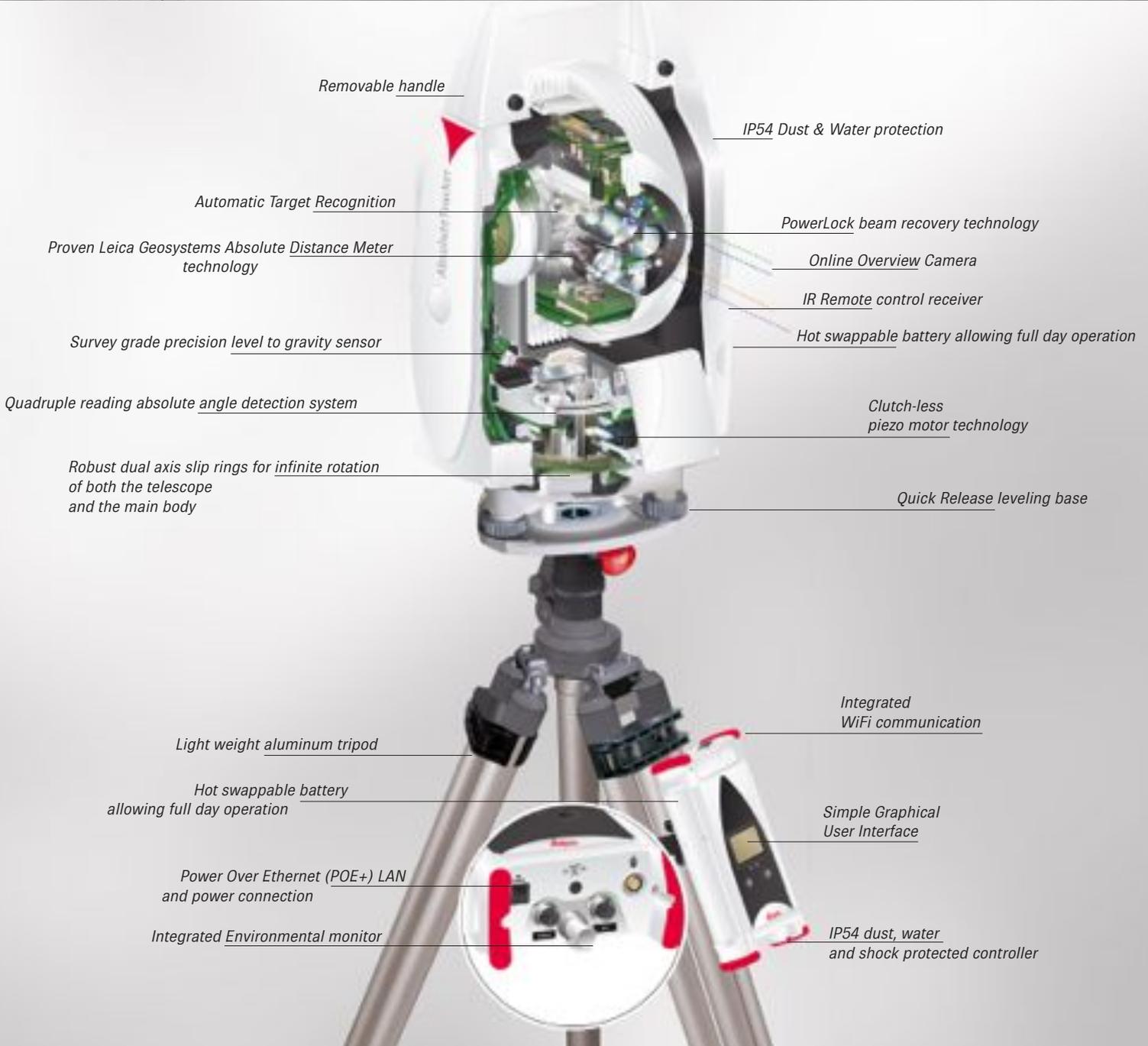




# Leica Absolute Tracker AT401 Factsheet



Removable handle

IP54 Dust & Water protection

Automatic Target Recognition

PowerLock beam recovery technology

Proven Leica Geosystems Absolute Distance Meter technology

Online Overview Camera

Survey grade precision level to gravity sensor

IR Remote control receiver

Hot swappable battery allowing full day operation

Quadruple reading absolute angle detection system

Clutch-less piezo motor technology

Robust dual axis slip rings for infinite rotation of both the telescope and the main body

Quick Release leveling base

Light weight aluminum tripod

Integrated WiFi communication

Hot swappable battery allowing full day operation

Simple Graphical User Interface

Power Over Ethernet (POE+) LAN and power connection

Integrated Environmental monitor

IP54 dust, water and shock protected controller

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Feature	Benefit
IP54 sealed	Independently certified IEC 60529 usage in even the most demanding conditions.
Extremely light and compact: 8.1 kg incl. controller, just over 290 mm tall	Measuring where no other laser tracker can go. The controller stays out of the user's way, e.g. attached to the tripod.
Cable-less design	By combining built in WiFi connectivity and on board battery power, the sensor can operate without any wires connected at all.
Hot swappable battery operation	No need to worry about AC (mains) power – the sensor can run continuously with a new set of batteries able to be swapped in without interruption
Automatic target recognition (ATR)	The ATR allows constant tracking and fine positioning with different reflector types to a typical radial volume of 320 m.
PowerLock beam recovery technology	No need to worry about "breaking the beam": the tracker automatically locks onto the user providing up to 20% time savings over traditional laser tracker technologies
Proven Absolute Distance Meter technology	The most accurate Leica Geosystems distance meter ever: The ADM has a resolution of 0.1 micron and a maximum uncertainty of 10 microns over a full 160 m radial volume.
Quick Release tribrach and precision level to gravity sensor	A built in "survey grade" level to gravity sensor is combined with a simple three screw leveling quick release platform for quick and easy machine setup and relocation.
Overview Camera	Integrated Overview Camera to allow on-line steering of the laser tracker for remote or fixed installations
Integrated environmental monitor	Automatic reading and updating of the environmental parameters avoids inaccurate calculations or wrongly input values.
Leica Geosystems proprietary quadruple reading absolute angle detection system	The absolute angle encoders provide traceable ISO 17123-3 0.5" accuracy with a 0.07" resolution guaranteeing system accuracy over extremely long ranges.
Power Over Ethernet	Due to its low power requirements the sensor can use POE+ technology that combines power and data into a single off the shelf Cat5 LAN cable.