Leica Nova MS50

Make the right decision

PART OF HEXAGON

- when it has to be **right**

Leica Geosystems

MS50 MultiStation – The new dimension in measuring technology

You only get a moment to make the right decision. So ultimate performance and absolute reliability are critical. This requires not only intuition, but also intelligent technology you can rely on. For the first time, the Leica Nova MS50 combines every significant measuring technology in one device and opens the doors to a fascinating new dimension of the geospatial world. All functions, including precision 3D scanning, extensive and precise total station capabilities, digital imagery and GNSS connectivity are now brought together in the Leica Nova MultiStation. A revolutionary solution with advanced measuring technology that provides unchallenged accuracy and quality, yet is easy to use for an unprecedented range of applications. The capabilities of the Leica Nova Multistation are truly comprehensive and second to none.

mergeTEC – a fusion of innovative technologies

mergeTEC showcases leadership in total station and 3D laser scanning technologies. It combines in a new and unique way the latest technologies in the fields of total station measurements, digital imagery, 3D laser scanning and GNSS positioning. mergeTEC not only merges the hardware but also the data itself; images are synchronised with scans and scans tied into total station measurements: making it the easiest way of managing complex 3D data.

INTEGRATED SCANNING OF EVERY DETAIL

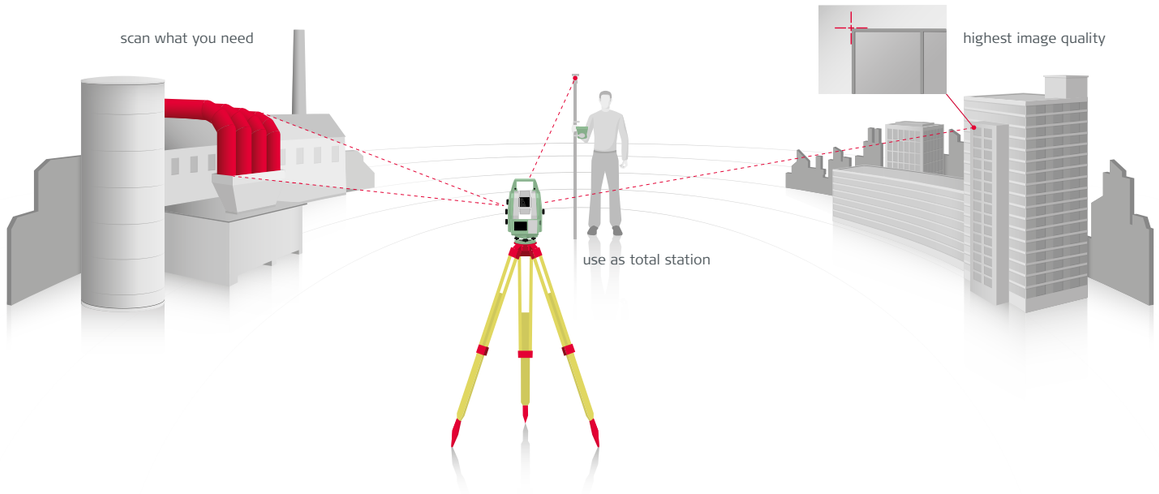
The Leica Nova MS50 integrates 3D point cloud measurements into a regular survey workflow. This lets you collect and visualise your topographic survey data together with detailed high-precision scans. Save time by checking your data for integrity and relevance and avoid costly reworking or returns to the field. Benefit from better decisions with richer and more detailed data.

PROVEN TECHNOLOGY FOR UNMATCHED VERSATILITY

The Leica Nova MS50 provides proven total station functionality with superior sensor integration for highest precision, performance and full automation of measurement procedures. Together with the benefits of GNSS connectivity, the Leica Nova MS50 offers complete versatility by delivering reliable results wherever and whenever you need them.

IMAGE ASSISTANCE FOR EVERY SITUATION

The Leica Nova MS50 features an overview camera and a telescope camera with 30x magnification and autofocus. State-of-the-art image processing technology delivers live fluid video streaming of highest image quality. The imaging capabilities of the Leica Nova MS50 open up new opportunities of operating the MultiStation in an almost infinite range of applications.



PRECISE LONG-RANGE SCANNING

- 1000 pts/sec up to 300 m
- Scan range up to 1000 m
- Millimetre scan precision

FAST PINPOINT R2000 EDM

- Reflectorless range beyond 2000 m
- Significantly reduced measurement times

WIDE ANGLE OVERVIEW CAMERA

- Target acquisition with 20 Hz live video stream
- Simple and comprehensive image-assisted documentation
- Automatic capture of panoramic images

HIGH RESOLUTION TELESCOPE CAMERA

- 30x magnification for high resolution images and precision target acquisition
- Automatic focussing

ROBUST IP65 DESIGN

- Highest protection rating in the industry
- Withstands MIL standard blowing rain test

IN-FIELD POINT CLOUD PROCESSING

- Automatic point cloud registration
- 3D point cloud viewer
- On-board surface modelling

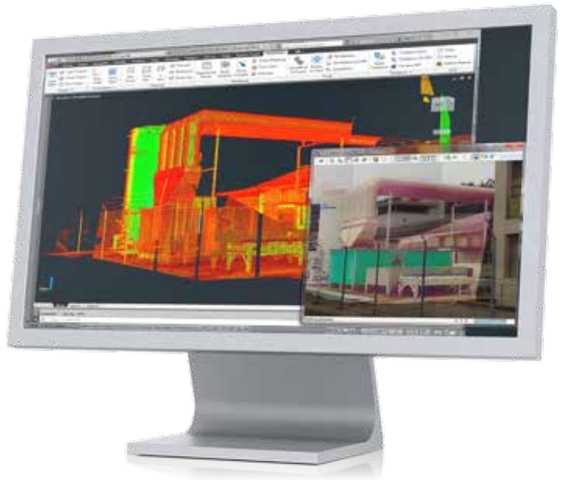
ULTRA-DYNAMIC AUTOMATION

- Best-in-class in speed and acceleration
- Automatically find prisms with PowerSearch
- Maximised service intervals

A Solution for an unprecedented range of applications

Comprehensive workflow solutions for every application enable you to make the right decisions.

An extensive portfolio of software solutions for the Leica Nova MS50 is available to provide you with custom deliverables and help you make informed decisions. Leica Infinity, Leica MultiWorx for AutoCAD, Leica Cyclone and Leica GeoMoS and numerous local software packages can be integrated into your workflow to provide solutions for your specific needs.



Whether measuring objects on a construction site, or monitoring a dam or a bridge; whether capturing an accident scene with digital imaging or scanning a building façade – you need reliable and precise data. The Leica Nova solution perfectly integrates all these capabilities in one compact solution.

Leica Nova embodies 90 years of innovative thinking to develop outstanding technologies. A solution that gives you the benefits of not only being able to take faster, smarter decisions, but also better and more informed decisions regardless of the application. Leica Nova represents our commitment to precision, reliability and flexibility. Faster, Better, Smarter, Simpler are the key words that describe the benefits of the Leica Nova; a unique solution that covers the complete process from capturing and visualising data, to deciding and delivering.

Leica Nova is the new dimension in measuring technology – make the right decision.

When it has to be right.

Swiss Technology
by Leica Geosystems

Distance meter (Prism), ATR and PowerSearch:
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1

Laser plummet:
Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

Distance meter (Non-Prism):
Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1

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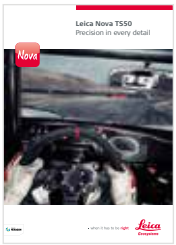
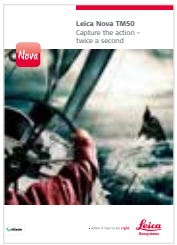
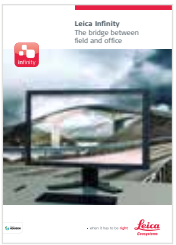


Leica Nova TS50
Product brochure



Leica Nova TM50
Product brochure



Leica Infinity
Software brochure

Leica Multiworx
Software brochure

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