Leica Nova MS50
Make the right decision

- 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.
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 MSS 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.

**Precise Long-Range Scanning**
- 1000 pts/sec up to 300 m
- Scan range up to 1000 m
- Millimetre scan precision

**Fast Pinpoint R2000 EDM**
- Reflectometer range beyond 2000 m
- Significantly reduced measurement times

**Wide Angle Overview Camera**
- Target acquisition with 20Hz 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 focusing

**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
Leica MultiWorx for AutoCAD is for point cloud processing newcomers using Leica Nova MS50’s integrated laser scanning capability. This plug-in for AutoCAD and Civil 3D lets drafters and designers work with rich, 3D point clouds in a familiar CAD environment. It also provides simpler and more powerful tools for navigating point clouds and creating deliverables than native CAD capabilities.

SCAN CAPABILITIES FOR A WIDE VARIETY OF APPLICATIONS

Take Advantage of Leica Nova MS50’s scan capabilities. Whether you’re using Leica Nova MS50’s scanning capabilities for specific survey tasks or as valuable project QA, Leica MultiWorx lets you take full advantage of Leica Nova MS50’s rich point clouds and images to create better maps, profiles & cross-sections, contours, facade drawings, quantity surveys, as-built & detail surveys, and more.

THE TOOLS YOU NEED TO QUICKLY GET IT RIGHT

Leica MultiWorx for AutoCAD makes it easy to create accurate deliverables. True-color images from Leica Nova MS50, aligned to scans, provide powerful visual context. Intuitive orientation tools make working in 3D easy. Versatile clipping tools make sub-dividing scans into areas of interest fast and accurate. A robust set of “Virtual Surveying” features make accurate topographic drafting simple and fun.