

# Leica Nova TS50

Precision in every detail



- when it has to be **right**



# TS50 Total Station – True precision, true perfection

The latest generation of surveying technology concentrates on a central factor: precision. In order to address every challenge and make fast decisions, you need the ultimate in precision and perfection that today's technologies can offer. And that is precisely what you get with the Leica Nova TS50.

The Leica Nova TS50 redefines the meaning of precision with its optimum combination of angle and distance measuring. At the same time, it offers extraordinary acceleration and speed for highest efficiency, integrated overview and telescope cameras and the latest intuitive SmartWorx on-board software. True perfection: discover the Leica Nova TS50.



## IMAGE ASSISTANCE FOR EVERY SITUATION

The Leica Nova TS50 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 TS50 open up new possibilities for operating this perfect total station in an almost infinite range of applications.



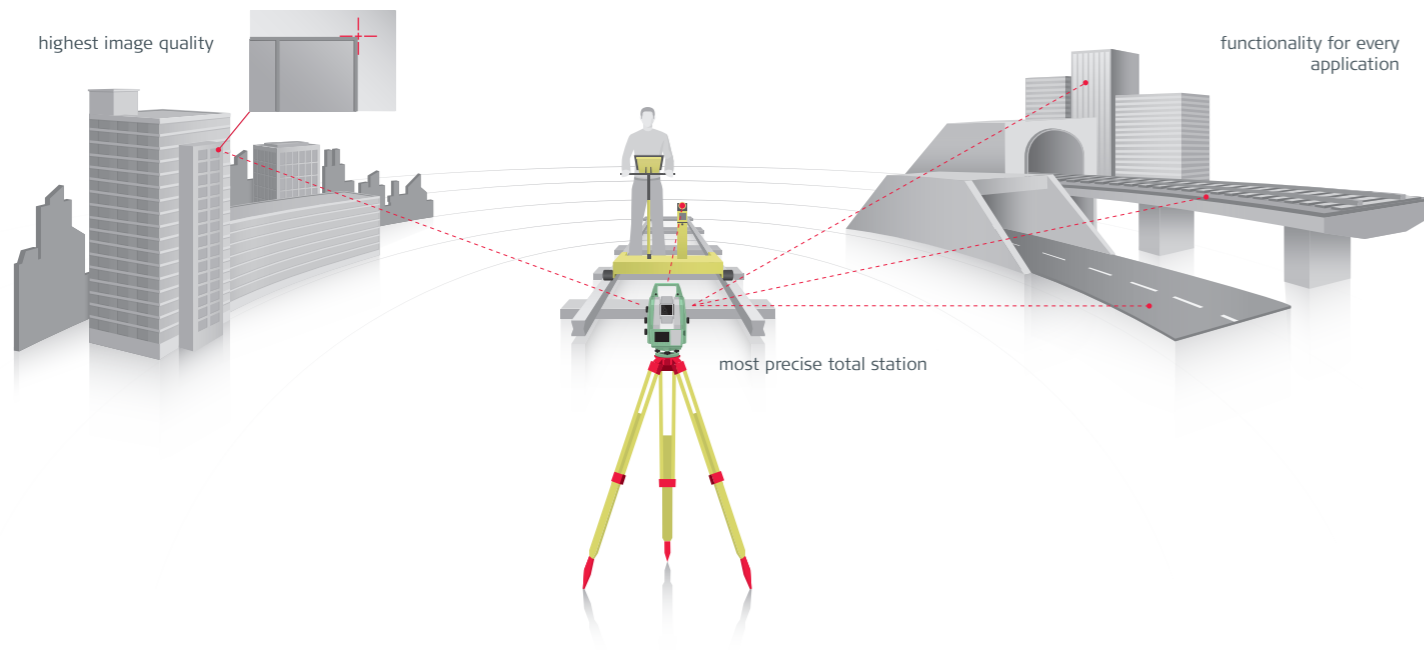
## PROVEN TECHNOLOGY FOR UNMATCHED VERSATILITY

The Leica Nova TS50 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 TS50 offers complete versatility by delivering reliable results wherever and whenever you need them.



## LEICA SMARTWORX

The Leica Nova TS50 is equipped with the latest Leica SmartWorx software to provide unparalleled ease-of-use and performance. No matter how complex the application, Leica SmartWorx has functionality to complete every task with ease. With identical operation for TPS and GNSS, changing between Leica TPS and GNSS instruments is smooth and simple.



### UNRIVALLED ANGULAR ACCURACY

- 0.5" Angular accuracy
- 0.5" Automatic Aiming accuracy (ATR)

### PINPOINT EDM-ACCURACY

- 0.6 mm + 1 ppm to prisms
- 2 mm + 2 ppm to any surface

### 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 focussing

### LEICA SMARTWORX SOFTWARE

- Complete suite of applications
- Easy-to-use with clearly laid out graphics, logical menu structures and simplified workflows

### ULTRA-DYNAMIC AUTOMATION

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

## A workflow with infinite capabilities

Leica Infinity software is the perfect office partner to the Leica Nova TS50. Measurement data and digital imagery collected from the Leica Nova TS50 are seamlessly combined in Leica Infinity.

Intuitive 3D-graphic representations of acquired data enable fast and easy decision-making processes. As all data collected in the field is available in Leica Infinity, field results can be verified, data re-computed, customisable reports can be created and all data can be exported to CAD. The possibilities are infinite.



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.**

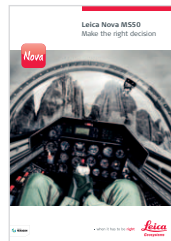


**Distance meter (Prism), ATR and PowerSearch:**  
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1

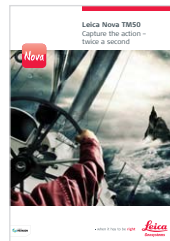
**Laser plummet:**  
Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

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

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**Leica Nova MS50**  
Product brochure



**Leica Nova TM50**  
Product brochure



**Leica Infinity**  
Software brochure



**Leica MultiWorx**  
Software brochure