

Scanning Probe Microscope/Atomic Force Microscope

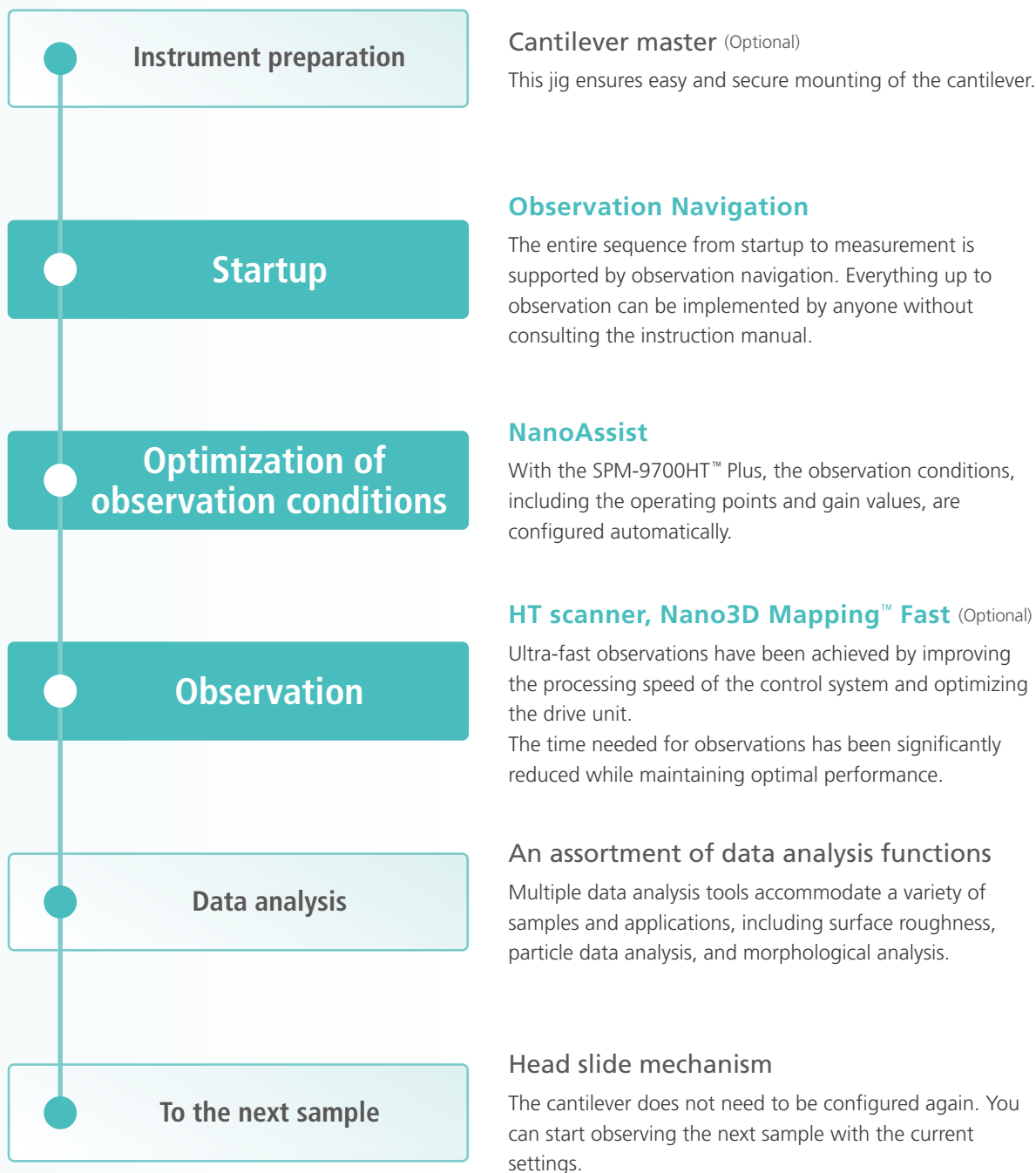
SPM-9700HT Plus



Observations Independent of the Operator

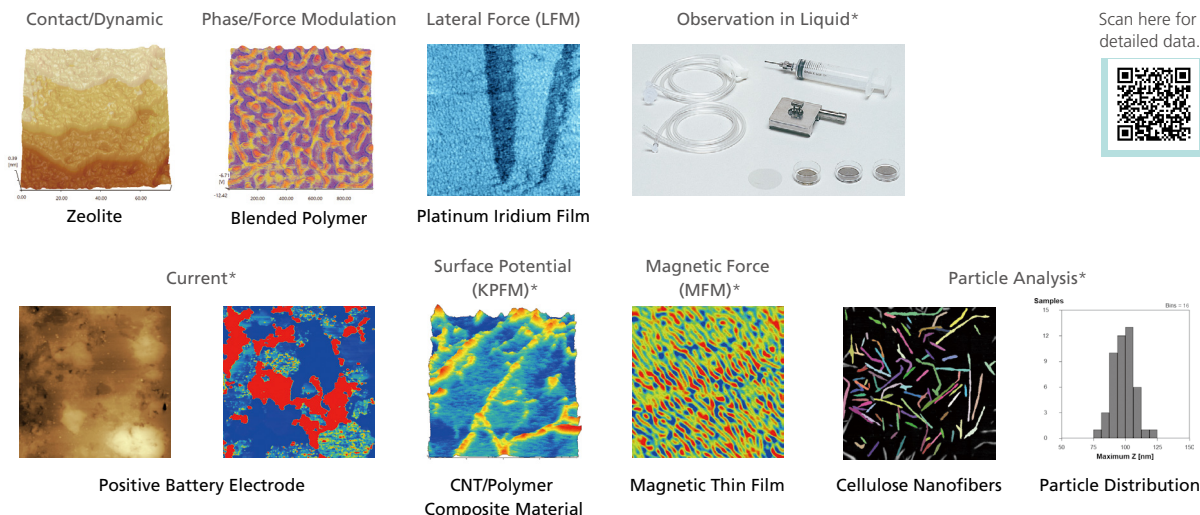


The system and software are equipped with Analytical Intelligence, our user support technology that provides maximum support for the overall workflow, from data acquisition to analysis.



Analytical Intelligence is a new concept for analytical instruments proposed by Shimadzu. The system and software operate like an experienced engineer. The status and the quality of the results are determined automatically, and users are given feedback and solutions for problems. This compensates for differences in knowledge and experience with regard to the analytical instrument, ensuring data reliability.

Application Mode Accommodates an Assortment of Samples

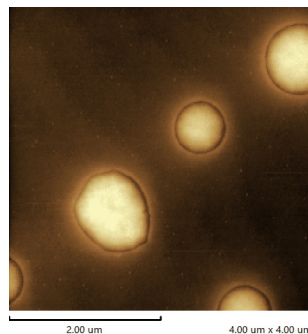


* Option

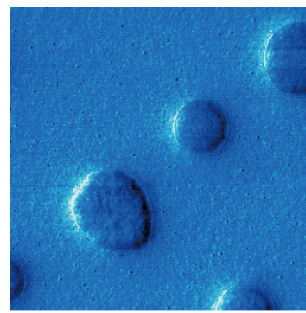
NEW Nano3D Mapping Fast (Optional)

The time required for physical property mapping has been significantly reduced compared to the previous machine (SPM-9700HT). The shorter mapping time enables stable physical property evaluation.

Observation time
Approx.
27 min



Surface Shape



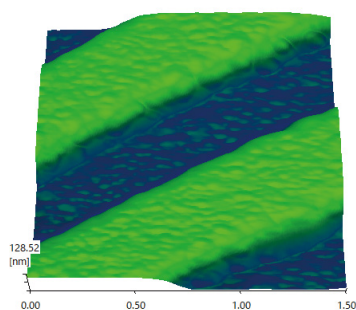
Adhesive Force

NEW NanoAssist Optimizes Observation Conditions

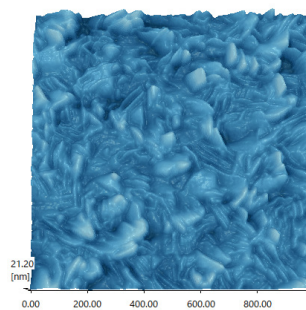


Only the observation range needs to be set. Other observation conditions are set automatically.

Shape Images Obtained with NanoAssist



Diffraction Grating



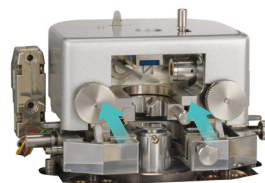
Vapor-Deposited Nb Coating

High-Throughput Observations

Head Slide Mechanism

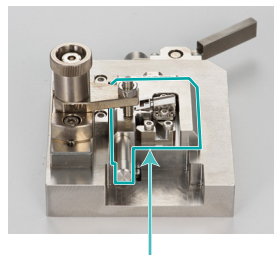
The design allows space around the sample, while maintaining a high level of rigidity.

- Samples can be replaced without removing the cantilever holder.
- Samples can be accessed even during SPM observations.
- Samples are approached automatically, regardless of the sample thickness.



Cantilever Master Cantilever Mounting Jig (Optional)

Even small cantilevers can be attached with ease.



Cantilever holder

Installation Specifications

• Installation Environment

The following conditions are preferable for the installation environment.

Temperature 23 °C ± 5 °C

Humidity 60 % max. (no condensation)

• Power Supply

The power supply listed is required for operating this instrument.

SPM-9700HT Plus

Single-phase 100 to 120 V, 50/60 Hz, 15 A, 2 circuits

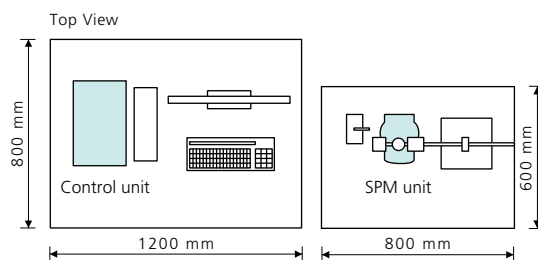
Grounding Type D grounding (maximum resistance 100 Ω)

- The above-mentioned is the power supply for the basic SPM-9700HT Plus specifications. This will change depending on the optional configuration. For details, refer to the specifications.

• Size and Weight

SPM unit: W180 × D255 × H260 mm, 5.5 kg

Control unit: W250 × D420 × H454 mm, 18.5 kg



- This figure is one example of a configuration.
- The sizes of the OA table and desk-type air-spring vibration damper are for reference.

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