

NenoCase is an optional accessory for atomic force microscope LiteScope™



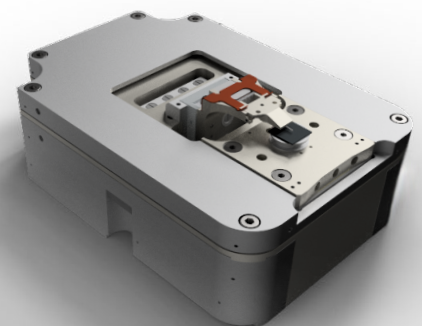
NenoCase is a storage case enabling LiteScope to perform as a stand-alone device. It incorporates a passive anti-vibration system to ensure high-quality imaging outside the SEM chambers.

NenoCase can be purged with various gases used for measuring in different atmospheres.

NenoCase

LiteScope

LiteScope was developed for plug&play integration into scanning electron microscopes. The combination of complementary AFM and SEM techniques significantly extends measuring capabilities, especially correlative imaging. LiteScope's unique imaging technique is called the Correlative Probe and Electron Microscopy (CPEM) enabling the acquisition of both AFM and SEM images of the same area, at the same time, and in the same coordinate system.



NenoCase Key Features

- Storage of LiteScope in vacuum or desiccated environment to eliminate the unwanted water adsorption out of SEM.
- LiteScope full operation outside of SEM in a vacuum or various atmospheres.
- Equipped with passive vibration protection.
- Possibility of using a controlled atmosphere, such as N₂ or Ar.
- Adjustable platform level.
- The transparent design of the top cover allows the use of an optical or stereomicroscope to find structures or to navigate the tip.

Design

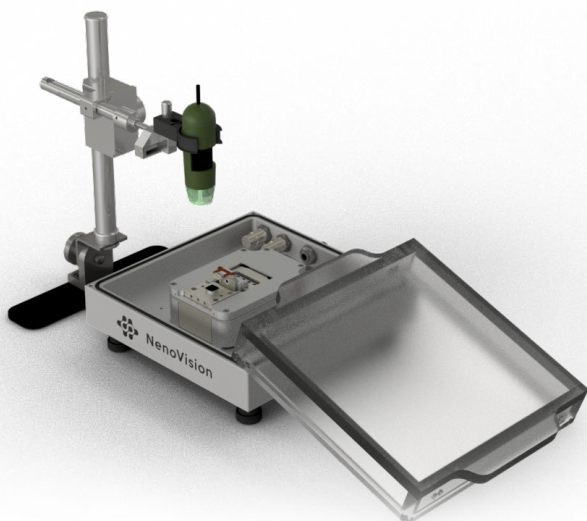
NenoCase has a compact platform made of aluminum alloy with appropriate adapters for the connection of LiteScope to the control electronics. Its base incorporates four separate components providing both vertical and horizontal vibration isolation. Lightweight materials are used. The transparent design of the cover enables the usage of optical and stereo microscopes when NenoCase is closed. It is possible to add custom feedthroughs.

Accessory: Digital microscope

A digital microscope with a custom-made stand is an optional accessory allowing precise optical AFM tip navigation on the sample surface. The camera control is integrated into the NenoView software enabling remote working.

Digital microscope specification

- Resolution 1.3 megapixels (1280×1024 pixels)
- Magnification up to 90×
- Frame rate up to 30 fps (15 fps at 1.3 M)
- 8 white LED lights
- Infrared cut-filter >650 nm



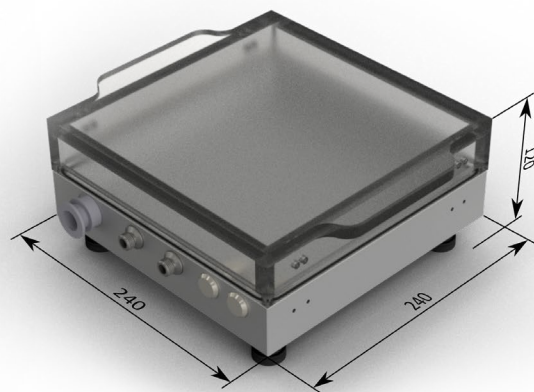
NenoCase technical specification

Horizontal isolation, resonance	5.8 Hz
Vertical isolation, resonance	7.8 Hz
Horizontal amplification at resonance	12 dB
Vertical amplification at resonance	20 dB



NenoCase Parameters

- Dimensions 240x240x119 mm³
- Weight 5500 g
- Ultimate pressure <1e⁻¹ mbar



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