



Quantum Design

LATIN AMERICA

Raising The Science

Materials Science

Spectroscopy

Cryogenics

Optics

Nanoscience

Sample Synthesis

Biotechnology & Chemistry

Industries

Microscopy

Quantum Technology

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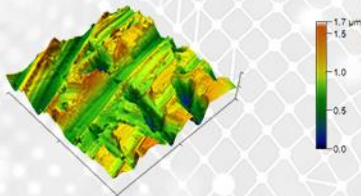


ICSPI designs, manufactures and sells single-chip scanning probe microscopes for educational, research and industrial applications, including failure analysis and quality control. We push the limits of what is possible in nanoscale metrology with our team of engineers of the highest calibre working on our patented CMOS-MEMS technology. ICSPI is headquartered in Kitchener-Waterloo, Ontario, Canada.

The nGauge AFM is a laserless system: the integrated piezoresistive sensor allows for alignment-free operation and a fully automatic approach – so you can collect your data effortlessly. All of the sensors and scanners of traditional AFM instruments have been integrated onto a single 1 mm x 1 mm chip.

Key features:

- Scan types: Topography, Phase
- Scan size: 20 μm x 20 μm
- Scan size (25 stitched) : 100 μm x 100 μm
- XY Scanner Resolution: <0.5 nm
- Vertical Scan Range: 10 μm
- Noise floor: <0.5 nm
- Quick scan: 16 sec
- Routine scan: 80 sec
- High-resolution scan: 5 min
- Max resolution: 1024 x 1024 pixels



icspi

Most common applications:

- Polymers and composites
- Microfabrication
- Metals and minerals
- Thin films
- Lithography
- Biology and life science

BIG AREAS

Biotechnology and Chemistry
Industries | Materials Science
Nanoscience | Optics

