mochii™

A NEW IMAGING PARADIGM

We're surrounded by

tiny, beautiful things

In the natural world, structure and function go hand-in-hand -- and they affect our health, ecosystems, and technology developments. By observing the diversity of nature, we fuel creation of new engineered systems and improve our lives.

Renee's mochii

Hydrophobic sensory hairs and texture on wing surface resist wetting, maintains insect mobility in wet environs.

Ben (NYC)

Specimen has typical antennae length. Check against #2?

DIST: 210µm ∠ -29.4°

Image: Fungus gnat

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portable

With its unique wireless tablet interface, your investigations are untethered from your Mochii™ scanning electron microscope. Bring your tablet to a meeting across the building or even across the country and explore your samples at the nanoscale, back at home.

Or bring your Mochii™ with you. Smaller and lighter than both advanced light and electron microscopes, the Mochii™ can travel. As the smallest production electron microscope in the world, Mochii™ can fit in a suitcase and easily in the overhead bin of an airplane. Bring your Mochii™ to your samples in the field -- image wherever your investigations may take you.

Image: Holly pollen in pollen sac

Untether

the nanoscale

mochii™

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accessible

The Mochii™ scanning electron microscope has a wireless tablet interface that is intuitive for all levels of operators to use. From child scientist to seasoned microscopist, anyone can achieve impactful results at the nanoscale. Mochii™'s total cost of ownership is just a fraction of the costs of both advanced light microscopes and traditional / benchtop electron microscopes, bringing powerful nanoscale imaging to a broad base of scientists, technologists, teachers, and learners.

Unpretentious and effective, Mochii™ is easy to use: explore your samples, make precision measurements, and capture beautiful images with the touch of your finger.

Image: Painted lady butterfly proboscis

Unlock

the nanoscale

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collaborative

The Mochii™ scanning electron microscope helps scientists, technologists, teachers, and learners work together more effectively than ever before. Collaborators in the same room and collaborators in different countries can do more than simply share images: they can explore specimens together and analyze results in real-time!

Explore samples concurrently with colleagues around the world, taking measurements and annotating images together for collaborative investigations. Mochii™'s wireless experience and its unique tablet-based software tools enable effortless exploration... together.

Image: Fetal pig intestinal villi

Share

the nanoscale

mochii·S™

A NEW IMAGING PARADIGM

informative

Mochii™ is the world's first truly portable chemical identification and nano-imaging platform. The new Mochii™ Model S integrates a compact energy dispersive X-ray spectrometer into the world's smallest production electron microscope. Controlled by a tablet computer in a tiny package just 250 mm tall, chemical species and nanostructure are available wirelessly at the touch of a finger.

Mochii™ is accessible, collaborative, and portable, able to meet your needs in the field and remotely across teams. anywhere in the world. With lower initial and lifetime cost and unparalleled ease of use, Mochii™ S unlocks sophisticated chemical and nanostructural analyses in environments never before thought possible, from classrooms to oil fields to the Serengeti. Mochii™ S is so portable and easy to use, NASA has selected it for use on the International Space Station to characterize critical mission threats and to perform novel science.

Image: Painted lady butterfly eye

Fragment of Martian meteorite Nakhla
Courtesy Dr. Katherine Thomas-Keprta
Jacobs/Jets NASA JSC, Houston TX

Identify

the nanoscale

mochii™

A NEW IMAGING PARADIGM

Greater imaging power with ease.

magnification. contrast. depth of field.

Your portal to

uncharted territory

digital tablet interface

Mochii™'s unique tablet-based interface permits easy navigation of your specimen with a tap of a finger. Survey quickly and capture detail using automated features within the tool. Obtain impactful images effortlessly and share results with stakeholders instantly. Investigate your specimen simultaneously with colleagues around the world, collaboratively annotating specimen features and marking measurements in real-time.

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Science & Art

precision measurement

The only portable electron microscope in the world

Microscopy TODAY
INNOVATION AWARDS
2018 WINNER

inside

interface

Apple iDevice (iOS 10 or higher)

Mochii optical cartridge A

Fully pre-aligned
Source potential: 10 kV
Magnification: 5000x
BSE array detector
Auto-calibration incl. focus and astigmatism

stage

Two-axis automated stage (base)
20x20x15 mm sample size

physical specs

Dimensions: 210x210x265 mm
Outboard dry pump and power unit
Power: 110-240VAC, 50-60Hz
Complete system weight: <13 kg

upgrade your mochii with:

S model: Energy dispersive x-ray spectrometer (EDS)
integrated Sample Metal Coater
Mochii portable battery supply
Field-ready flight case

Mochii specifications subject to change.