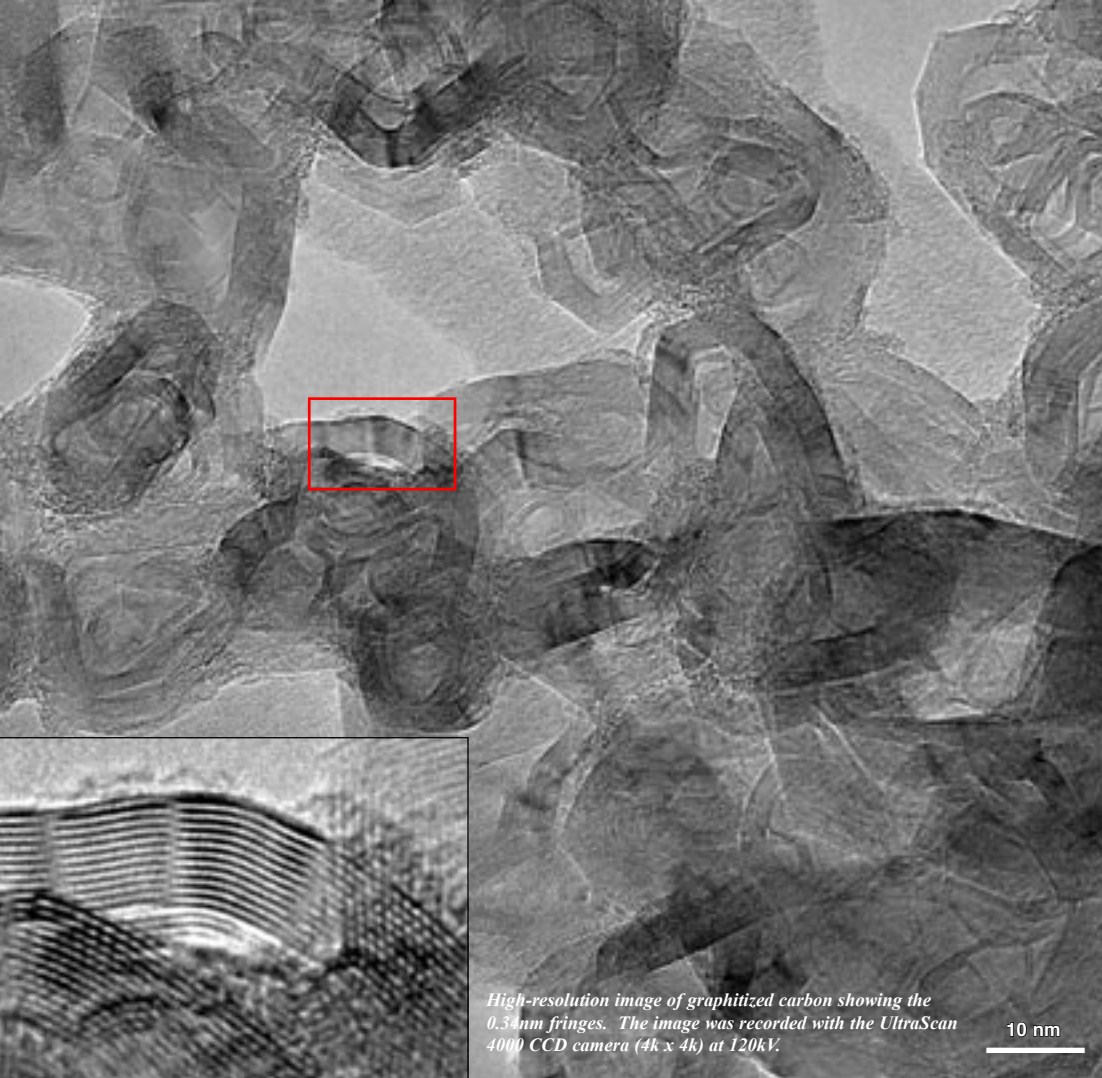
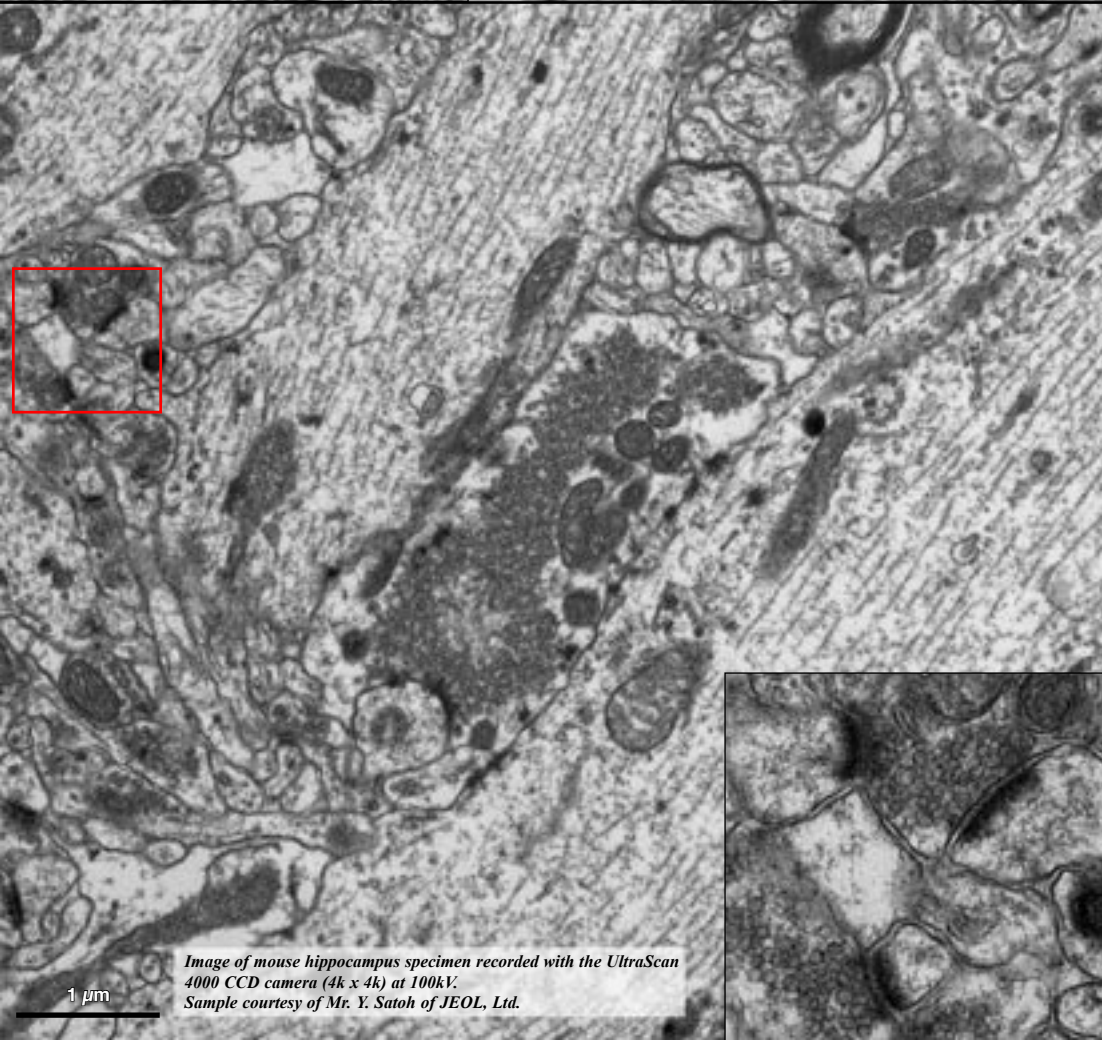


# 4000



*High-resolution image of graphitized carbon showing the 0.34nm fringes. The image was recorded with the UltraScan 4000 CCD camera (4k x 4k) at 120kV.*

10 nm



*Image of mouse hippocampus specimen recorded with the UltraScan 4000 CCD camera (4k x 4k) at 100kV. Sample courtesy of Mr. Y. Satoh of JEOL, Ltd.*

1 μm

The UltraScan™ 4000 is designed to deliver an unprecedented 16 Megapixel resolution in concert with TEMs operating up to 400kV. The camera is Peltier cooled and offers full 16 bit dynamic range in the image. Gatan set out to design this camera with one thought in mind: to deliver more. The UltraScan 4000 delivers more pixels, more resolution, more speed, more stability, and more reliability for truly exceptional performance in the TEM lab.

Combining the large format CCD with high-speed multi-port readout (First Light™) electronics means that high resolution and usability are a reality. The UltraScan 4000 is a showcase of firsts. First to use HCR™ optical technology, first to combine a large format CCD with multi-port readout and first to offer a retractable camera that is compatible with GIF and ENFINA™ analytical spectrometers. Razor sharp images are guaranteed with this imaging system.

The UltraScan 4000 is the first digital camera to truly challenge film as an image recording medium. The flagship of the Gatan imaging range, the UltraScan 4000 sets a new reference standard for TEM digital imaging.

# 1000

The UltraScan™ 1000 is a 4 Megapixel digital camera. Utilizing the same HCR™ optical technology, mechanical housing and First Light™ electronics as the US 4000 reference series, this camera offers extraordinary resolution and read-out speed.

Superior image quality, combined with the high-speed multi-port CCD read-out guarantees the best price-performance value on the market.

Designed for demanding users who set their sights on a higher level of digital imaging, the UltraScan 1000 blends the best available technology, convenient operation and versatility, in a cost-effective package.

By capturing every detail in your TEM image, the UltraScan™ 1000 sets a higher standard in TEM digital imaging.



200 nm

*Image of striated muscle from human biopsy (cross-section orientation), recorded with the UltraScan 1000 CCD camera (2k x 2k) at 80kV. Image courtesy of Kenneth L. Tiekotter, MicroImaging, Legacy Holladay Park Medical Center.*



5 nm

*Image of SrTiO<sub>3</sub> semi-conducting ceramic sample recorded with the UltraScan 1000 CCD camera (2k x 2k) at 200kV. Sample courtesy of Dr. M. Kawasaki of JEOL USA, Inc. and Dr. S. Sato of TDK Corp., Japan*