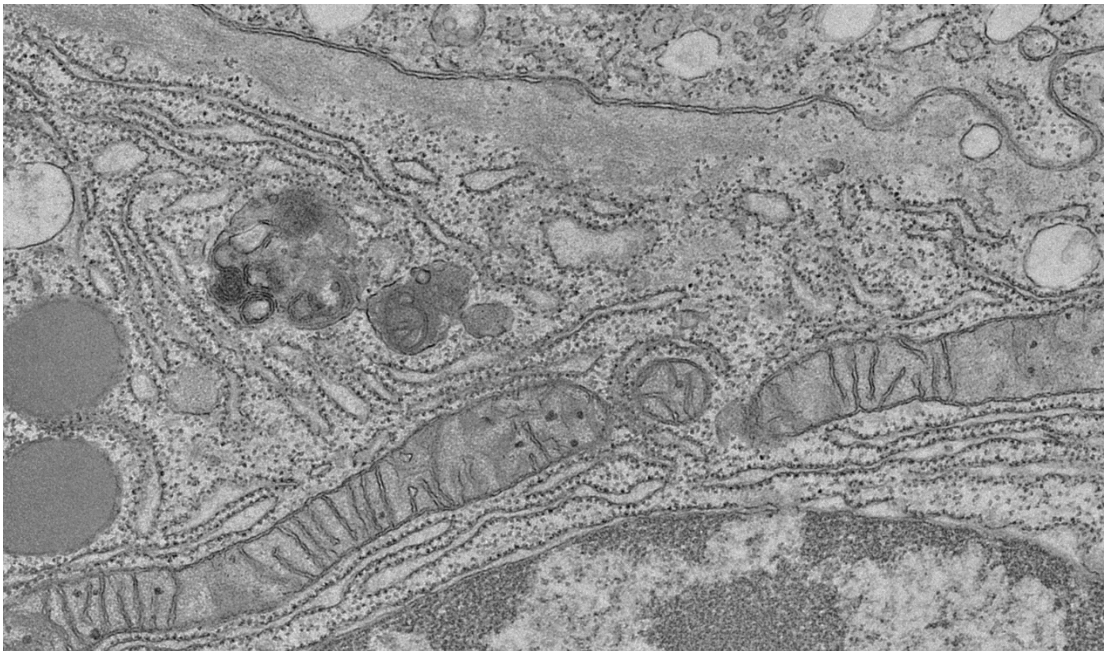


# NanoSprint15 Mk-II: High Sensitivity sCMOS TEM Camera

## Introducing the NanoSprint15 Mk-II:

The NanoSprint15 Mk-II is AMT's latest product featuring an entirely new sensor that achieves the high sensitivity required for materials and life-sciences. Its fine-pixel, low-noise sCMOS sensor offers a large 15 megapixel sampling region with a high speed 30fps readout.

AMT coupled the sensor's generous field-of-view and ultra-fine sampling with AMT's high performance optics to create a system that is ideal for a wide range of applications. Users can enjoy both its excellent contrast plus the ability to zoom for images that contain both context and detail.



Adam\_pan\_003.tif  
Cal: 0.783034 nm/pix  
08:37 12/19/2019

Camera: NANOSPR15, Exposure: 1200 (ms) x 3 drift frames, Gain: 1, Bin: 1  
Gamma: 1.00, No Sharpening, Normal Contrast

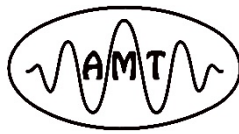
400 nm  
HV=200kV  
Direct Mag: 11500 x  
AMT Camera System

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NanoSprint15 Rev4



<b>NanoSprint 15 Mark II Specifications</b>	
Sensor Size [pixels]	5056 × 2960
Phosphor Pixel Size [μm]	12.75 x 12.75
Active Pickup Region [mm]	65 x 37
Digitization	16 bit
Mounting Position	On-Axis
HT Range [kV]	20–200
Optical Coupling	Custom high performance lens
Lens Magnification	0.34
Lens NA <sub>image</sub>	0.32
Lens MTF at Nyquist [%]	>70
Framerate for Display Image [fps]	30
Cooling	20C water
Micro Lenses	Yes
Shutter	Rolling
Exposure Time [ms]	1 - 10,000
Power	100-240VAC
Digital Interface	PCIe
Vacuum Compatibility	<10 <sup>-7</sup> torr
Vacuum Seals	Fixed o-ring
Environment	Electronics and cooling outside of vacuum
X-ray shielding limit	Up to 200kV
Certifications	UL, CE , RoHS
Computer OS	Windows 10 Professional 64 bit

Specifications are subject to change with notification\*

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NanoSprint15 Rev4