

NanoSprint5: Low Noise CMOS TEM Camera

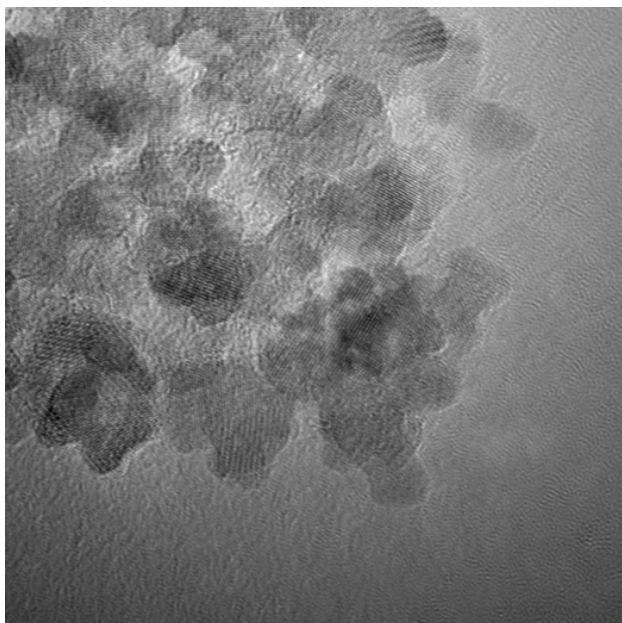
- **5.0 Megapixel Scientific CMOS Sensor**
- **40 Frames per Second Readout**
- **2.3 Electrons per Pixel Readout Noise**
- **USB 3.0 Interface**
- **AMT's Proven High Performance A- Lens**



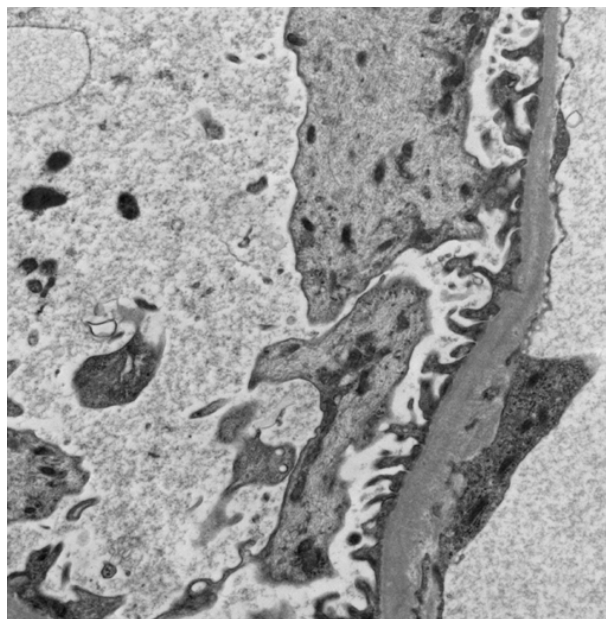
The NanoSprint5 is a 5 Megapixel camera system that is available in the wide-angle side mount, low mount, and mid mount TEM positions. Given its combination of speed and sensitivity, it is ideal for both life-science and materials research including diffraction via SAD and CBED. When the NanoSprint5 is mounted in the 35 mm port, it becomes a wide-angle viewing system that not only runs independently but also can complement a slow, high definition camera and/or below column spectrometers.

Perfect for Multi-user facilities

Materials Science



Biological Research



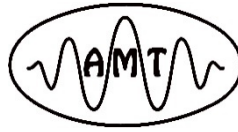
Advanced Microscopy Techniques 242 West Cummings Park, Woburn, MA 01801

Tel: (978)774-5550 Fax: (978)739-4313

Email: info@amtimaging.com URL: <http://www.amtimaging.com>



NanoSprint5Rev6



NanoSprint 5 Specifications	
Sensor Size [pixels]	2464 x 2048
Phosphor Pixel Size [μm]	11.9 x 11.9
Active Pickup Region [mm]	29 x 24
Digitization	≥ 16 bits with frame accumulation
Mounting Position	Side Mount "35mm"
HT Range [kV]	20–200
Optical Coupling	Custom high performance lens
Lens Magnification	0.291
Lens NA _{image}	0.27
Lens MTF at Nyquist [%]	>50
Framerate for Display Image [fps]	80 binned
Cooling	Air
Micro Lenses	Yes
Shutter	Global
Exposure Time [ms]	1 - 10,000
Power	USB 3.0 port
Digital Interface	USB 3.0
Vacuum Compatibility	$<10^{-7}$ 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 bits

Specifications subject to change without notice*

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