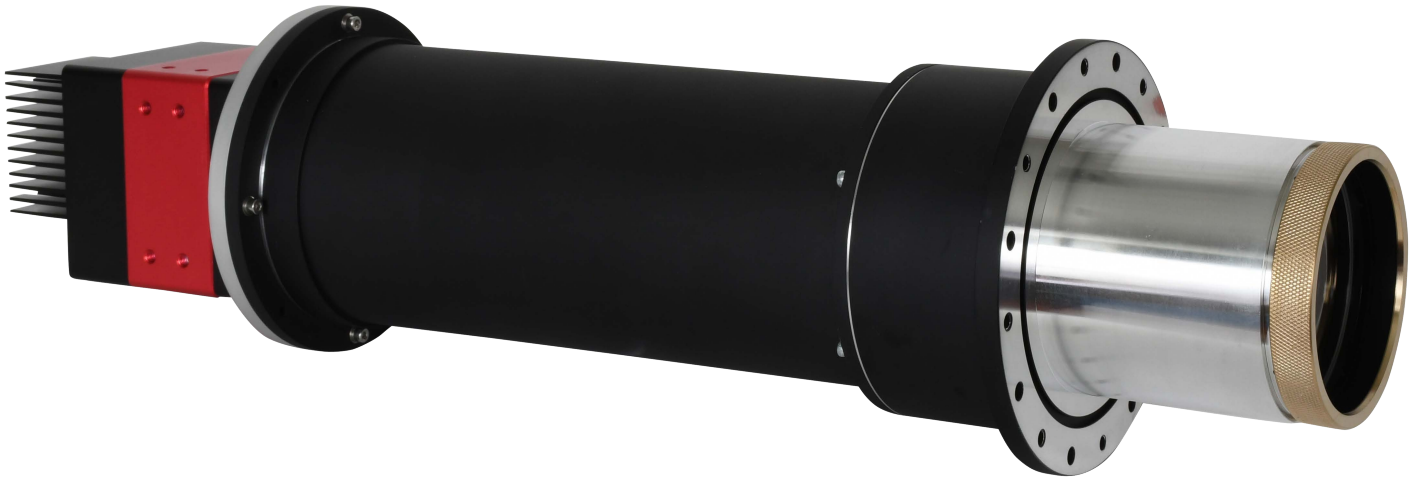
NanoSprint61 ActiveVu: High Resolution CMOS TEM Camera

Introducing the NanoSprint61ActiveVu:



The NanoSprint61 ActiveVu is AMT's latest product featuring an entirely new sensor that achieves the high sensitivity required for TEM clinical applications and life-sciences. Its fine-pixel, low-noise CMOS sensor offers an ultra large 61 megapixel sampling region with a high speed 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.

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NanoSprint 61 ActiveVu Specifications	
Sensor Size [pixels]	9568 x 6380
Phosphor Pixel Size [µm]	6.5 x 6.5
Active Pickup Region [mm]	62 x 41
Digitization	≥ 16 bits with frame accumulation
Mounting Position	On-Axis
HT Range [kV]	20–200
Optical Coupling	Custom high performance lens
Lens Magnification	1.72
Lens NA $_{image}$	1.88
Lens MTF at Nyquist [%]	>50
Framerate for Display Image [fps]	17 all
Cooling	20C water
Micro Lenses	Yes
Shutter	Global
Exposure Time [ms]	1 - 10,000
Power	100-240VAC
Digital Interface	Camera Link
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 are subject to change with notification*
Temporary sheet for M&M 2023**

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