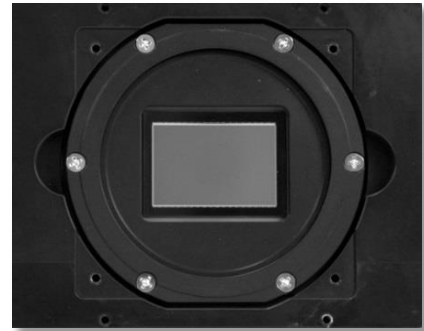


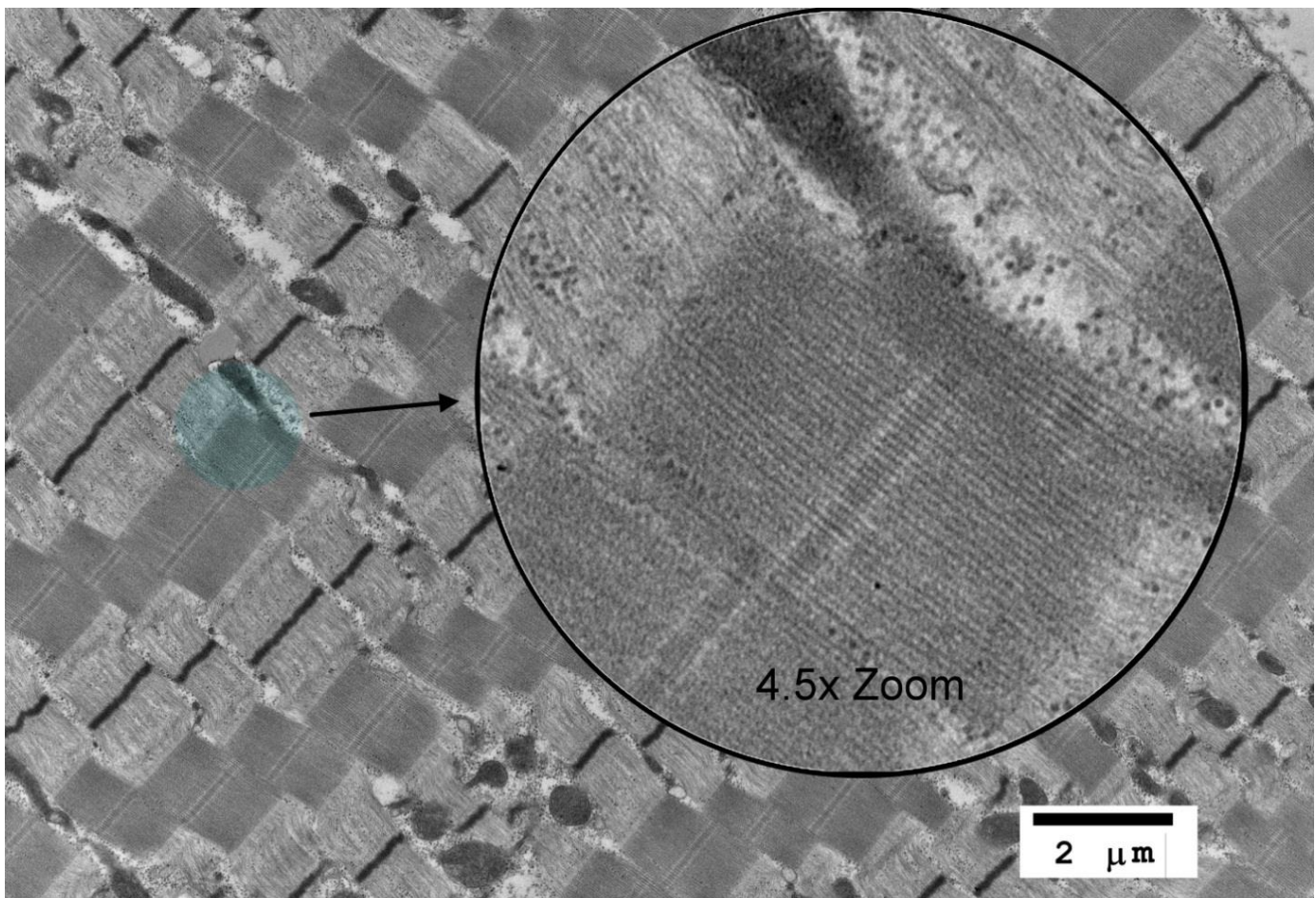
XR16 – ActiveVu

High Definition CCD Camera for TEM

- 16 Megapixel Scientific CCD
- High Speed Readout
- Waterless Peltier Cooling
- Anti-Blooming sensor
- High Performance Lens



AMT's *XR16-ActiveVu* camera creates large 16 megapixel images that challenge film in definition. It achieves high sensitivity and unmatched resolution with AMT's highly corrected *ActiveVu* lens. The *XR16 ActiveVu* is available in both wide angle low mount and extra-wide angle mid-mount configurations that avoid distortion while providing large fields of view. It is an excellent choice for clinical pathology and other applications requiring magnifications lower than 50kx; yet it is also capable of lattice imaging and high magnifications.



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XR16 ActiveVu rev1

Standard XR16 Camera Configurations:

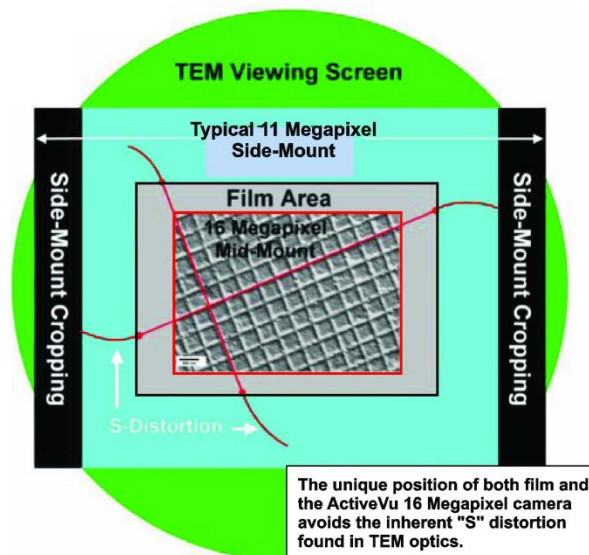
XR16M-ActiveVu Extra-Wide Angle Mid-Mount
 XR16L-ActiveVu Wide Angle Low-Mount

Sensor, Camera Head, and Phosphor:

- 1) Scientific grade, progressive scan (TrueSense KAI-16000) sensor
- 2) 3248 x 4872 x 0.013 mm square pixels at phosphor
- 3) High speed GigE digital interface for camera data transfer and control

Lens:

AMT's ActiveVu lens maintains a high MTF >60% @68 line-pairs/mm



Cooling:

The sensor is Peltier cooled for minimum dark noise at long exposures. No water connections are needed for this cooler and all cooled components are outside the TEM's vacuum

Vibration-less, Independent Shutter:

Electronic Shutter with no beam blanking or mechanical shutter required with exposures adjustable from 1ms to 10s

Digital Interface and Electronics:

High speed gigabit ethernet (GigE) digital interface for camera data transfer and control

Readout Rate: Multi-speed readout with 40 MHz maximum at 12 bits ADC

Maximum viewing speed: 8 fps @ 4.4 binning at full field

