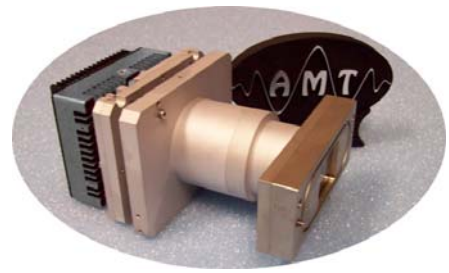


## XR16 TEM Cameras Series

**Large 16 Megapixel Scientific CCD Sensor**  
**40 MHz, High Speed Readout**  
**Waterless Peltier Cooling**  
**High Performance Lenses**



### XR16S-R

#### **Classic Wide Angle Side-Mount**

- 1) >100% photographic or greater field-of-view imaging with up to a 30x30 mm phosphor.
- 2) 7.4  $\mu\text{m}$  square pixels at phosphor.
- 3) For lower magnifications with user selectable formats ranging from 3248x3248 to 3248x4872 square pixels.
- 4) Features a high-resolution lens with an extremely flat focus with less than 0.1% distortion.

### XR16M-ActiveVu

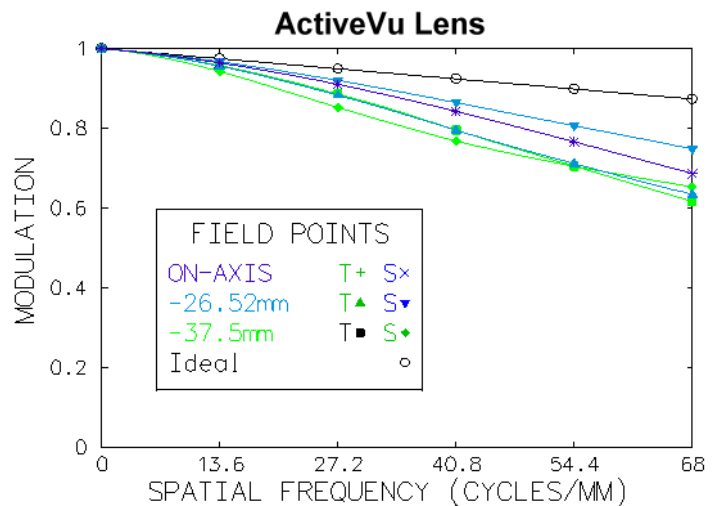
#### **Wide Angle Multi-Discipline Mid-Mount**

- 1) ~70% photographic field-of-view imaging with up to a 64x42 mm phosphor.
- 2) 13  $\mu\text{m}$  square pixels at phosphor depending on lens option.
- 3) Uses AMT's high performance ActiveVu lens.

### XR16L-ActiveVu

#### **Wide Angle Multi-Discipline Low-Mount**

- 1) ~35% photographic or greater field-of-view imaging with up to a 64x42 mm phosphor.
- 2) 13  $\mu\text{m}$  square pixels at phosphor depending on lens option.
- 3) Uses AMT's high performance ActiveVu lens.



## Camera Specifications

- 1) 3248x4872 square pixels (7.4 x 7.4  $\mu\text{m}$ ).
- 2) Scientific grade, progressive scan (Kodak KAI-16000) sensor.
- 3) Multi-speed readout with 40 MHz maximum at 12 bits ADC.
- 4) Anti-blooming sensor architecture.
- 5) Maximum viewing speed >7.7 fps @ 4x4 binning at full field
- 6) All electronics and optics are outside the TEM vacuum and immune from contamination.
- 7) Electronic Shutter with no blanking or mechanical shuttering required.
- 8) Exposures adjustable from 1 ms to 3600 s. Gain varies from 1 to 10x.
- 9) Peltier cooling to 10 degrees C with no water required.
- 10) High speed GigE digital interface for camera data transfer and control.