BioSprint
High Definition CCD Camera for TEM

- 16 Megapixel Scientific CCD
- High Speed Readout
- Anti-Blooming Sensor
- High Performance Lens

AMT’s BioSprint camera system creates large 16 megapixel images that challenge film in definition. This system achieves high sensitivity and resolution by employing AMT’s highly corrected *ActiveVu* lens. The BioSprint is available in most TEM mounting configurations with the mid-mount position being the most popular. This camera system is an excellent choice for clinical pathology and other applications requiring magnifications lower than 50kx; yet it is also capable of lattice imaging at high magnifications. The BioSprint system delivers enough information that users may digitally enlarge their images without the worry of pixilation, which saves on both imaging and analysis time.

**Enlargement Without Pixelation:**

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BioSprint Camera Configurations:

*BioSprint-M-ActiveVu* Extra-Wide Angle Mid-Mount
*BioSprint-L-ActiveVu* Wide Angle Low-Mount

Sensor, Camera Head, and Phosphor:
1) Scientific grade, progressive scan (*KAI-16050*) sensor
2) 4896 x 3264 pixels with 9.5 μm square pixels at the phosphor

Lens:
AMT's ActiveVu-lens maintains a high >50% MTF @100 line-pairs/mm

Vibration-less, Independent Shutter:
Electronic Shutter with no beam blanking required, with exposures adjustable from 1ms to 10s

Digital Interface and Electronics:
High speed Camera Link digital interface for data transfer and control

Readout Rate:
Multi-speed, multi-tap readout with 40 MHz maximum at 16 bits using frame summation of the ADC

Maximum viewing speed:
25 fps with 4x4 binning at full field

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