8 REASONS

to choose **SPECTRAL INSTRUMENTS IMAGING**
for your next in vivo imaging system

spectral instruments imaging
A BRUKER COMPANY

If you're in the market for a new preclinical optical imaging system, here's a quick overview of what makes the Lago X, Ami HTX, & Kino the best-in-class solutions for bioluminescent & fluorescent small animal imaging.

THE TOTALITY OF QUALITY

Reliability is often overlooked, yet the truth remains that a system packed with features is worthless if it's not reliable – leading only to costly repairs & compromised experiments. Spectral's next-generation in vivo imaging systems have minimal downtime — a result of the lessons learned by CTO, Bo Nelson, in development of the original IVIS 100®. Key redesigns & implementation of state-of-the-art technology equates to a quality product you can rely on.

-90°C ABSOLUTE, AIR-COOLED CAMERA

All Spectral in vivo imaging systems feature a deeply cooled, custom-built camera that quickly cools its CCD sensor to -90°C in less than 5 minutes using an air-cooled Peltier system. This design improves efficiency, enhances image quality by reducing noise, & improves reliability by eliminating the risk of leaks found in gas or liquid cooling systems. ***Learn More***

FIELD OF VIEW OPTIMIZED FOR HIGH THROUGHPUT

The Ami HTX & Lago X imaging systems feature a large native Field of View (FoV) for increased throughput. The compact Ami HTX's 25cm x 17cm FoV can image 5 mice in one exposure. The Lago X's 25cm x 25cm FoV allows for the ultimate in high throughput, imaging 10 mice simultaneously – ideal for large vivariums & imaging cores. Exclusive to Spectral's in vivo imaging systems, this level of throughput is available for bioluminescence, fluorescence and X-Ray imaging. ***See Specifications***

PATENTED FLUORESCENT EXCITATION

Our patented LED excitation method provides a key performance advantage: powerful, reliable, & stable excitation light with a narrow bandwidth that increases both specificity & sensitivity. In contrast, imaging systems that use antiquated white light sources have unwanted light leaks that compromise fluorescence specificity & can result in erroneous data. ***See Data***

EASY TO USE ACQUISITION SOFTWARE

Aura Software's *Easy Mode* enables users to capture data faster than ever — in just 3 clicks — by simply selecting the probe & subject, then acquiring the data. Powered by Spectral's proprietary *Smart AutoExp* with proprietary *SmoothBlend* technology, *Easy Mode* enables rapid data acquisition at maximum sensitivity without compromising image quality.

Aura Software's *Kinetics Mode* takes ease of use one step further by enabling users to automatically acquire bioluminescent kinetic curve data in real time, ensuring the capture of peak data for optimal sensitivity & reproducibility. ***Learn More***

FREE ANALYSIS SOFTWARE

Aura Analysis is free to download and available for both Mac & PC users.

In addition to supporting Spectral's .aura & .ami files, Spectral's Free Aura Analysis Software also supports the analysis of legacy Living Image® files — enabling open collaboration across platforms.

Click Here to Download

ABSOLUTE CALIBRATION

To produce quantifiable data, it's crucial to ensure that changes in the data stem solely from the biological experiment. Our Absolute Calibration technology accounts for all sources of variability, including camera settings (exposure time, binning, f-stop), ensuring reliable data that can be compared between time points & even between imaging systems.

STATE-OF-THE-ART

All Spectral in vivo imaging systems are made with modern components, resulting in their robust & stable build. Our systems are factory calibrated to NIST standard. No on-site calibration, or assembly, is required. Simply plug it in & start imaging!

WANT TO HAVE A BETTER IN VIVO IMAGING EXPERIENCE?

Sign up for email updates; we'll send you tips & tricks for getting better data