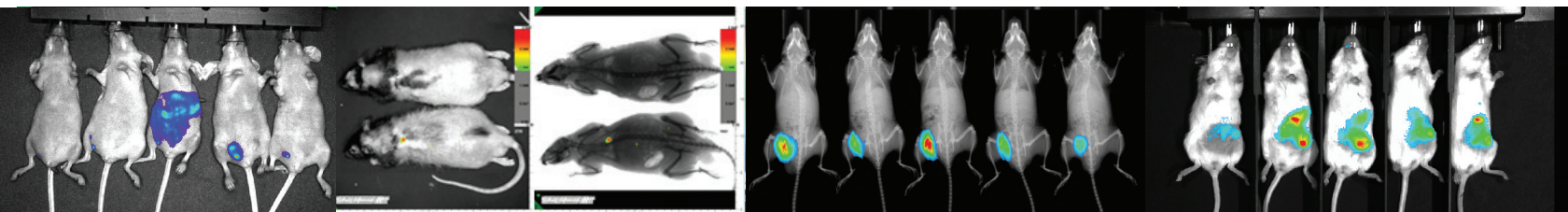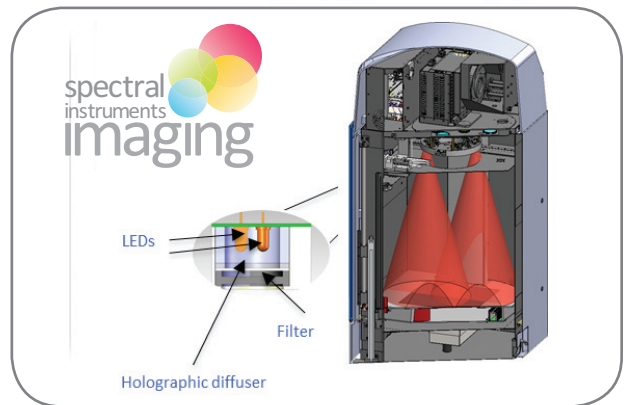# spectral instruments imaging

imaging reimagined

REVOLUTIONARY LED BASED FLUORESCENCE IMAGING

REVOLUTIONARY LED BASED FLUORESCENT IMAGING (Patented*)

- Advanced Precision LED Array

- Ultra-high Sensitivity

- Early Faint Signal Detection

- 90X Bright Powerful Light on Specimen

- Reduced Background Effects

- No "Auto Fluorescence"

- No Warm Up, Extra Long Lifetime

- Compare with traditional instruments which use basic white light illumination such as Perkin Elmer IVIS® Spectrum, Lumina™ or Bruker Extreme™

*Spectral Instruments Imaging was awarded US Patent #8901516 for this technology.

- In a LED based fluorescence illumination system light flows from the LED to the specimen

- No fiber, filter wheels and other overhead needed with LED based systems

- LED's contribute 90X more power on specimen compared to white light based imaging systems

- More light on specimen allows for early faint signal detection

- Our patented LED array operates a mix of precision selected frequencies preventing white light from blasting indiscriminately

- Filtering is vastly simplified with little or no 'out-of-band' noise

- No pseudo-science phenomenon such as 'auto fluorescence' which occurs on white light based imaging systems

- LEDs are stable and require no warm up time

- LED's lifetimes are 1000X longer than white light sources

- LED control (power vs. intensity) is completely linear and accurate – so precise control is possible

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14 LED Fluorescence Excitation Wavelengths of **360, 405, 430, 465, 500, 535, 570, 605, 640, 675, 710, 745, 770 and 805nm** are standard for excitation of fluorescence species.

20 Emission Filters for Fluorescence and Luminescence Imaging **490, 510, 530, 550, 570, 590, 610, 630, 650, 670, 690, 710, 730, 750, 770, 790, 810, 830, 850, and 870nm**.

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