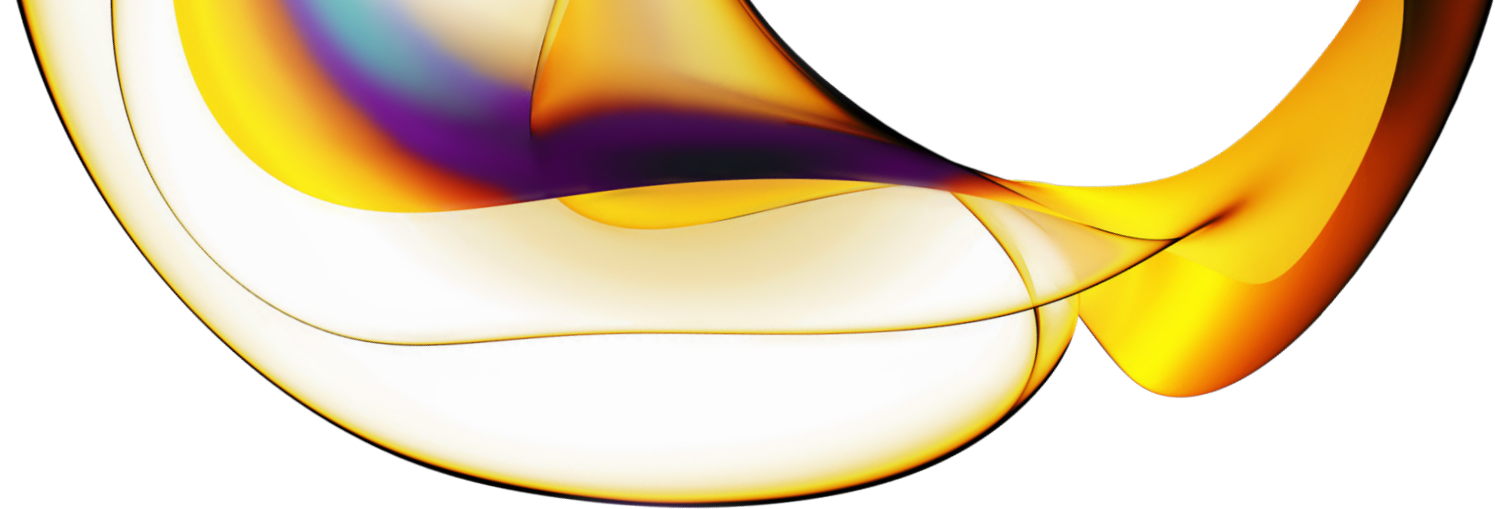




IVIS[®] imaging systems

2D optical benchtop systems						2D & 3D optical tomography systems	
							
IVIS system comparison	IVIS LUMINA LT	IVIS LUMINA III	IVIS LUMINA XRMS	IVIS LUMINA S5	IVIS LUMINA X5	IVIS SPECTRUM 2	IVIS SPECTRUMCT 2
Animal Capacity	5 Mice*	5 Mice*	3 Mice	10 Mice**	10 Mice**	10 mice**	10 mice**
2D Bioluminescence/ Chemiluminescence	✓	✓	✓	✓	✓	✓	✓
Cerenkov Imaging	✓	✓	✓	✓	✓	✓	✓
Epi-Illumination	✓	✓	✓	✓	✓	✓	✓
Full Spectral Tunability	Upgradable	✓	✓	✓	✓	✓	✓
CPS Spectral Unmixing	Upgradable	✓	✓	✓	✓	✓	✓
Trans-Illumination						✓	✓
3D Bioluminescence Tomography						✓	✓
3D Fluorescence Tomography						✓	✓
3D Multimodal Co-Registration (PET, CT, MRI)						✓	✓
Integrated Small and Large Animal X-Ray/CT			✓		✓		✓
X-ray/uCT Animal Capacity			2 Mice		5 Mice		2 Mice
Quantification p/sec/cm2/str	✓	✓	✓	✓	✓	✓	✓
NIST Calibration	✓	✓	✓	✓	✓	✓	✓

*Using expansion lens

**Using optional manifold kit

2D optical benchtop systems													2D & 3D optical tomography systems																											
																																								
IVIS system comparison	IVIS LUMINA LT				IVIS LUMINA III				IVIS LUMINA XRMS				IVIS LUMINA S5				IVIS LUMINA X5				IVIS SPECTRUM 2				IVIS SPECTRUMCT 2															
Detector Type	0.5" Back-thinned, back - illuminated Grade 1 CCD				0.5" Back-thinned, back - illuminated Grade 1 CCD				0.5" Back-thinned, back - illuminated Grade 1 CCD				1" Back-thinned, back - illuminated Grade 1 CCD				1" Back-thinned, back - illuminated Grade 1 CCD				Thermoelectrically cooled, back-illuminated CCD camera with eXcelon® coating				Thermoelectrically cooled, back-illuminated CCD camera with eXcelon® coating															
Camera Temp	(-90 °C)				(-90 °C)				(-90 °C)				(-90 °C)				(-90 °C)				(-90 °C)				(-90 °C)															
CCD Size	1.3 cm X 1.3 cm				1.3 cm X 1.3 cm				1.3 cm X 1.3 cm				2.7 cm X 2.7 cm				2.7 cm X 2.7 cm				2.7 cm x 2.7 cm				2.7 cm x 2.7 cm															
CCD Pixel Size (um)	13				13				13				13.5				13.5				13.5				13.5															
Optical FOV (cm)	5 - 12 cm (2.6 cm with ZFOV attachment)				5 - 12 cm (2.6 cm with ZFOV attachment)				5 - 12 cm				10-22.5 cm				10-22.5 cm				3.9 - 22.5 cm				3.9 - 22.5 cm															
Optical Resolution (Microns)	50 (35 with ZFOV)				50 (35 with ZFOV)				50 (35 with ZFOV)				50				50				20				20															
Imaging Pixels	1024 x 1024				1024 x 1024				1024 x 1024				2048 x 2048				2048 x 2048				2048 x 2048				2048 x 2048															
Wavelength Range (nm)	415-875				410 - 865				410 - 865				410 - 865				410 - 865				415 - 850				415 - 850															
Number of Emission Filters/Bandwidth	4/Variable				7/40 nm				7/40 nm				7/40 nm				7/40 nm				18/20 nm				18/20 nm															
Emission Filters	515-575 695-770575-650 810-875				500-540				550-590				600-640				650-690				690-730				770-810				825-865				490-510 710-730 550-570590-610 810-830 650-670750-770				790-810 630-650 570-590730-750 670-690 770-790			
Number of Excitation Filters/Bandwidth	10/30 nm				19/20 nm				19/20 nm				19/20 nm				19/20 nm				10/30 nm				10/30 nm															
Excitation Filters	415-445 485-515590-620 660-690 555-585450-480 520-550 730-760				410-430 430-450450-470 470-490				490-510 510-530530-550 550-570570-590 590-610				610-630 630-650650-670 670-690				690-710 710-730750-770 770-790				415-445 450-480485-515 520-550555-585 590-620625-655 660-690 695-725730-760																			
Excitation Light Source	Extended NIR Range 150 W Tungsten EKE				Extended NIR Range 150 W Tungsten EKE				Extended NIR Range 150 W Tungsten EKE				Extended NIR Range 150 W Tungsten EKE				Extended NIR Range 150 W Tungsten EKE				Extended NIR Range 150 W Tungsten EKE				Extended NIR Range 150 W Tungsten EKE															
Heated Chamber	20 - 40 °C				20 - 40 °C				20 - 40 °C				20 - 40 °C				20 - 40 °C				20 - 40 °C				20 - 40 °C															

