

IVIS Spectrum In Vivo Imaging System

| Features | IVIS Spectrum |
|---------------------------------------|---|
| Detector type | 1" Back-thinned, back-illuminated Grade 1 CCD |
| Camera Temp | -90 °C |
| Imaging Pixels | 2048 x 2048 |
| CCD Size | 2.7 x 2.7 cm |
| Quantum Efficiency | > 85% 500 - 700 nm; > 30% 400 - 900 nm |
| Pixel Size | 13.5 microns |
| Min. Detectable Radiance | 70 photons/s/sr/cm ² |
| Min. Field of View (FOV) | 3.9 x 3.9 cm |
| Max. Field of View (FOV) | 23 cm x 23 cm |
| Min. Image Pixel Resolution | 20 microns |
| Lens | f/1 - f/8; 1.5 x, 2.5 x, 5 x, 8.7 x magnifications |
| Read Noise | < 3 electrons for bin = 1, 2, 4; < 5 electrons for bin = 8, 16 |
| Dark Current (Typical) | < 100 electrons/s/cm ² |
| Excitation Fluorescence Filters | 10 |
| Emission Fluorescence Filters | 18 |
| Fluor. Background Subtraction Filters | Yes |
| Diffuse Tomography Software | Yes |
| Stage Temperature | 20 - 40 °C |
| Animal Capacity | 5 mice |
| Optimized NIR Excitation Lightsource | Extended NIR Range 150W Tungsten EKE |
| Software | Living image 4.4 |
| Accessory Line | Isolation chamber |
| Application | Bioluminescence; Fluorescence; Full Spectral Tunability; Epi-Illumination; Trans-Illumination; 3D Fluorescence Tomography; 3D Bioluminescence Tomography; Absolute Calibration; 3D Multimodal Co-Registration (PET, CT, MRI); Compute Pure Spectrum - Spectral Unmixing |