

FLUORESCENCE MOLECULAR TOMOGRAPHY

Our unique suite of in vivo imaging solutions lets you discover more about biological targets, processes and pathways, directly in the living animal. Using our proprietary FMT (Fluorescence Molecular Tomography) technology and fluorescent in vivo imaging agents, you can generate non-invasive, deep tissue quantitative data for pre-clinical research applications. The system is used for research in oncology, inflammatory, pulmonary, cardiovascular and skeletal diseases. Biological targets and pathways can be monitored and quantitated in real time – giving a deeper understanding of the biology underlying disease mechanisms and therapeutic response.



FEATURES

- Easily and efficiently obtain calibrated quantitative data in your animal models of disease
- Measure and monitor multiple biological processes simultaneously
- Obtain functional and biological data to improve study designs and enhance decision making
- Deepen understanding of disease mechanisms, disease progression and therapeutic responses



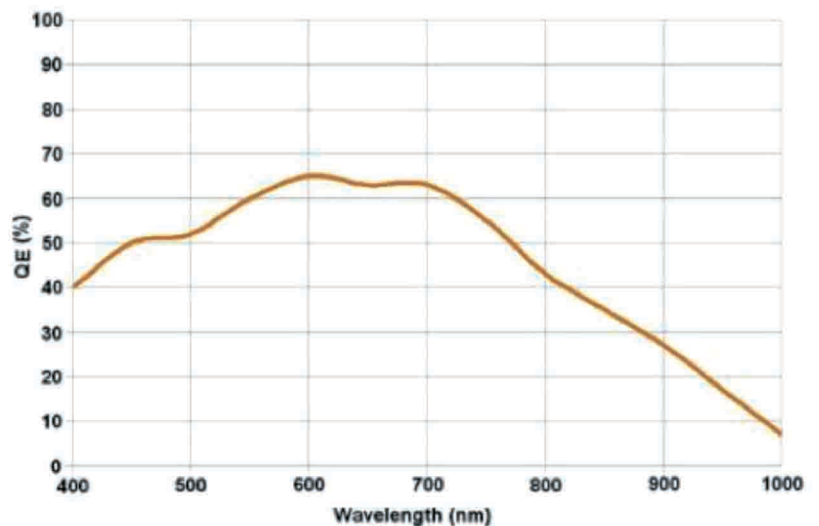
Advantages

Generate 3D
Information-rich results



Application

- Neurological
- Cardiovascular
- Respiratory
- Gastrointestinal
- Immunological
- Musculoskeletal
- Reproductive
- Targeted probe development
- Image



Quantum Efficiency of CCD

SPECIFICATIONS

CCD Camera Specification:

Camera sensor	TC285
CCD Size	1024 × 256
Imaging pixels	1002 × 1004
Quantum efficiency	MAX 67%
Pixel size	8×8 microns
Min. detectable radiance	Single Photon
Min. field of view (FOV)	2 × 2 cm ²
Max. field of view (FOV)	Depend on magnification and stage to lens distance
Min. image pixel resolution	50 pixels
Read noise	<1e/p/s
Dark current	<50 electrons/s/cm ²
Min. detectable radiance	30 photons/s/sr/cm ²
CCD operating temp	(negative)25°C
Pc interface	USB 2.0
Active area pixel well depth	27000
Frame rate(full frames per sec)	12.4
Weight	610 gr

Lasers Specification:

	DPSS Lasers		
Wavelength(nm)	787±1	532±1	475±1
Output power(mW)	70	30	20
Transverse mode	TEM ₀₀	TEM ₀₀	TEM ₀₀

Filter selection guide:

Select which filters are optimal for your application. The TANP imaging system has many applications involving a variety of materials, such as probes, cell lines, animal specimens, etc.

Name	Emission	Green	yellow	Orange	Red	NIR
565nm	565	*				
590nm	590		*			
605nm	605			*		
655nm	655				*	
800nm	800					*

Attenuator filter:

Steps	0.1, 0.2, 0.3, 0.4, 0.5,0.8, 1.0, 2.0, 3.0 and 4.0
Length	100 mm
Description	Step variable neutral density filter