

# PRE-LAUNCH IR VIVO™ SynIRgy

PRECLINAL  
IMAGER

## PRELIMINARY TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
Emission spectral range	400-1000 nm (Visible camera) 900-1600 nm (NIR-II camera)
Filtering	Filter wheel with up to 6 emission channels
Illumination source	Laser at 670, 760, 808 and 890 nm and adjustable power density
Lenses	VIS: 35mm f/0.95 NIR-II: 50mm f/1.4
Field of view	80 x 64 mm to 50 x 40mm Variable FOV for 1 mouse or individual organ view
Stage	Motorized XYZ
Dimensions ( L x W x H )	TBC
Stage temperature	Up to 40°C
Anesthetic tubing and nosecone	anesthetic gaz tubing and nosecone supplied
Preprocessing	Spatial filtering, statistical tools, data normalization, temporal profile extraction
Single image data format	HDF5, FITS, PNG, JPG
Software	PC (Windows10 - 64-bits) with PHySpec™ control and analysis software (Computer included)
Power requirement	120 VAC / 6.4A / 50-60 Hz 230 VAC / 3.3 A / 50-60 Hz
Acquisition modes available	Filtered or unfiltered (broadband for reflectance imaging)

VIS CAMERA	
Type	EMCCD
FPA	512 x 512 pixels
Pixel size	16 µm
Quantum efficiency	>90% @ 600nm >70% from 400 to 800 nm
NIR-II CAMERA	
Type	InGaAs (Alizé™ 1.7)
FPA	640 x 512 pixels
Pixel size	15 µm
Quantum efficiency	>70% from 900 to 1600 nm
OPTIONS & ACCESSORIES	
Emission spectral range	Extension available in the visible
Additional FOV	156 x 125 mm 3 mice capacity
Spectral probe	For real-time acquisition of spectrum on single point of the image



PRELIMINARY

