

A complete toolkit, ready to help you make a difference

Photon etc. is a pioneer in the field of NIR-II optical imaging with turnkey imaging systems that allow precise characterization of activity-based sensors and targeted probes in the second biological window.

Infrared imaging is making a significant impact in the preclinical field. Researchers currently developing next-gen therapies need advanced tools to track and monitor disease progression, therapeutic efficiency and therapeutic strategies.

Photon etc. is specialized in the second infrared biological window (1- 1.7 μm) imaging, also called NIR-II imaging, where tissues are more translucent than in the visible range. Fluorescence in this window allow us to detect deeper signals and obtain a sharper measurement of emitted light within the tissue of living organisms.

Combined with the right fluorescent dyes, NIR-II can help detect smaller or deeper sources – whether they are tumors, infection sites or pathological or physiological processes making fluorescence imaging accessible to new fields and opening the door to a wider range of possibilities.

ClaIR Infrared Microplate Reader

- Absorbance and fluorescence spectroscopy
- Detects fluorescence : 900-1600 nm
- Transmittance spectrum from 500 nm to 1600 nm
- 1 to 96-well plates, user definable
- High sensitivity VIS and IR spectrometer
- Can be combined with IRina
- Can be coupled with various laser choices



Biosenseur



IR Vivo NIR-II Preclinical Imager

Visualize your biomarkers in vivo and in real-time with optimized contrast resolution and sensitivity.

- Novel homogeneous illumination
- Multispectral or hyperspectral configurations
- Fast and deep imaging in high resolution

IRina In Vivo NIR-II Spectral probe

Quantitate fluorescence emissions and visualize spectral shifting of activity-based sensors in real-time.

- The world only in vivo NIR-II spectrometer
- Small form factor
- Ergonomic benchtop design

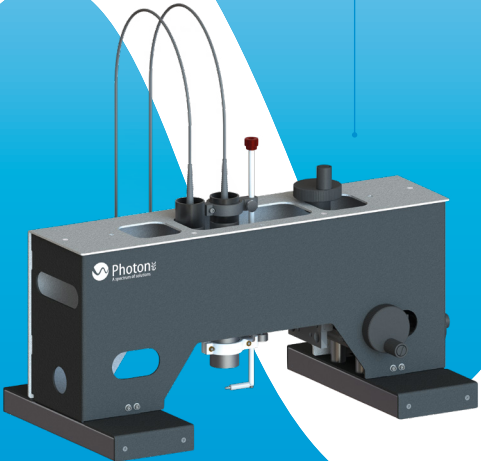
Camera Alize 1.7

- Air cooled at -50°C
- 640 x 512 px
- Dark current = < 600 e⁻/px/s
- Readout noise @high gain 50e⁻ for 1.7v and 30e⁻ for 1.7s



Broadband

Imagerie In Vivo



Spectrometer

IMA, Hyperspectral microscope

- InGaAs camera with detection from 850 to 1620 nm (up to 220 fps)
- 2 wavelengths homogeneous near infrared illumination
- Variable FOV
- Imaging up to 3 mice
- XY manual stage
- Filter wheel
- Gas manifolds
- Temperature control of mouse platform



Microscopie

Ex vivo



K A E R L A B S

Kaer Imaging System KIS

- Compact real time imaging system for NIR or NIR-II fluorescence
- Real time imaging and acquisition programming
- Hybrid close/open architecture, allowing for both traditional small animal imaging but also guided surgery and large animal imaging

Kratoscope

- Fast and easy ex vivo 3D organ imaging from PFE blocks or frozen tissue
- Imaging of autofluorescence and/or fluorescence (endogenous or injected in vivo)
- Enabling slices collection
- Can be combined with histology, microscopy and any other technique using tissue slices

You have specific needs?
Contact us to discuss
customized solutions.



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