

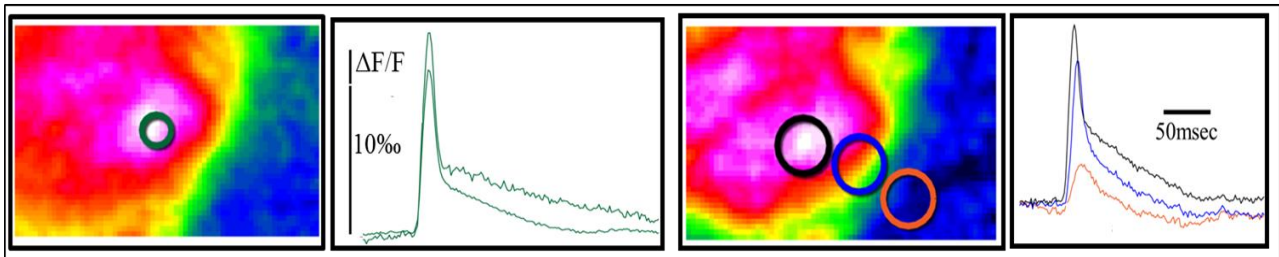


Brain Imager 3001 **Celox** – Turnkey System - Our Fastest Camera Ever, from ISI Speeds to 1 kHz VSD Imaging (or more)!

Applications (*in-vivo* and *In-vitro*):

- **VSD Imaging** of Cortical Functional Architecture *in vivo* or *in vitro*.
- **Optogenetics** Simultaneously with **VSD Imaging**.
- **Intrinsic Optical Imaging** of Cortical Functional Architecture.
- **Voltage-Sensitive Dyes** Cardiac Imaging.
- **Exploration of the Microvascular System**.

Single Trial and Averaging VSD Imaging at 1000Hz



System Highlights:

- Coupled With a Powerful Computer for Fast or Slow Imaging. Selectable Online Digital Binning to Further Extend Effective Well Capacity.
- **CMOS Camera** - High Sensitivity and Large Well Depth: A Winning Combination for Great Results without "Cooking" the Explored Brain!
- Full Lab Interface 24 BNC Connections.
- **VDAQ** Software for Easy Data acquisition - Allows you to Design your Experiment and Control all the Laboratory Equipment involved.
- **WinMix** Software for Online and Offline Image Processing.
- **LongDAQ** – continuous recording option for hours -
- **Master or Slave Acquisition Modes** to Image Behaving Monkeys or Rodents etc.

Flexible Data Acquisition :

The Imager 3001 - **Celox** is targeted at users who need high speed kHz imaging of voltage sensitive dye signals. It has a camera with a large sensor that runs full frame at 108 Hz, and has optional modes allowing operation to 1 kHz (e.g. 544x244) and beyond (multiple rows scan provide more than 10KHz). Flexible online binning lets you create images of high s/n while running at high speeds.

Camera Specifications		Frame Rates and Resolutions	
Max. Resolution	1312x1082	100 Hz	1312x1082
Well Depth per pixel	0.1M e-	250 Hz	768x768
Well Depth 100x100 super pixels (13x11 binning)	15.6M e-	500 Hz	544x520
Bit Depth (Linear)	12 Bits	750 Hz	544x324
Array Row Scan Mode	>60dB	1000 Hz	544x244
		10,000 Hz	544x10

Don't Spend your Time Reinventing the Wheel- the Imager 3001

Designed by Scientists for Scientists!

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