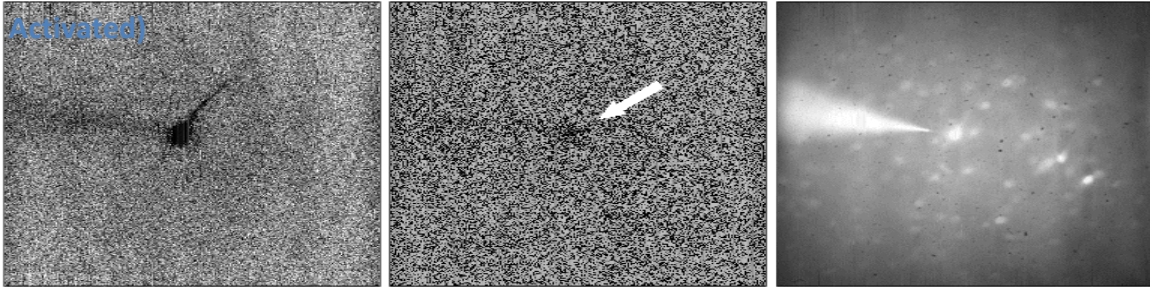


## Brain Imager 3001M – Turnkey System

### Applications:

- Medium Frame-Rate Imaging of **Voltage Sensitive Dye Signals** – *in vitro* or *in vivo*.
- Imaging of Other Extrinsic Probes such as **Calcium** Probes or **GCamP6**.
- **Intrinsic Optical Imaging** of Cortical Functional Architecture *in vivo*.
- **Calcium** Dye Imaging of Brain Slices *in vitro*.

### Calcium Spikes in Single Neurons Spreading to the Apical Dendrite (Black is Activated)



### System Highlights:

- Equipped With a Powerful Computer for Fast Acquisition Selectable, Online Digital Binning to Further Extend Effective Well Capacity.
- Back-Thinned CCD yields 100% Fill Factor for Amazing Sensitivity and High 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
- **WinMix** Software for Online and Offline Image Processing
- **LongDAQ** – continuous recording option Limited by Disk Space Only
- **Master or Slave Mode** software for behaving monkeys and Rodents
- **Large detector** (14mm x 14mm) lets you image without light loss from demagnification.

### Flexible Data Acquisition :

With a New High Resolution, Large Well Depth CCD Custom Made Camera, And With Extensive Binning and Region of Interest Options, Now **You** Can Control the Tradeoff Between Signal-To Noise, Frame Rate And Spatial Resolution— Choose The Right Settings For Your Experiment.

Camera Specifications	
Max. Resolution	1024x1024
Well Depth 128x128@100fps	9.6M e-
Well Depth 512x512@5fps	8M e-
Bit Depth	12 bit
Fill factor	100%

Sample of supported Frame Rates	
60 Hz	1024x1024
100 Hz	512x512 Binned
160 Hz	256x256 Binned
220 Hz	128x128 Binned

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

Designed by Scientists for Scientists!

[www.opt-imaging.com](http://www.opt-imaging.com) [info@opt-imaging.com](mailto:info@opt-imaging.com)