

LightTrack OiS200

Modular Optical Imaging System



Intrinsic Signal | Speckle | Fluorescence | Optogenetics

Specifications

Articulated Illumination Arms

Illumination can easily be positioned at any angle with a flexible articulated arm

Optical Enclosure

For light sensitive applications, a 2' X 2' X 2' enclosure is available, with a curtain on the front and access holes on the back

Camera Positioning

Subject placed on a lab jack for precise focus adjustment

Focus and numerical aperture adjustment on the camera lens

Camera height and angular adjustments

(left to right)

Magnetic Positioner

High quality steel plate allowing the user to use a magnetic positioner.



- > **Integrated & Ergonomic**
Save lab space and installation time.
Compatible with multiple applications.

- > **Better Results**
Get better results in your study
with reliable images.

- > **Modular System**
Select your LEDs and laser colors and the
quantity of auxiliary inputs/outputs.

- > **Increased Performance-Price Ratio**
Get more functionalities at a lower price.

Applications:

- Cerebral blood flow
- Neurovascular coupling & functional connectivity studies
- Neurological disorders
- Pharmacology
- Optogenetics
- Voltage sensitive dyes (VSD)
- Epilepsy
- Alzheimer's disease
- Aging
- Hypertension
- Ischemia

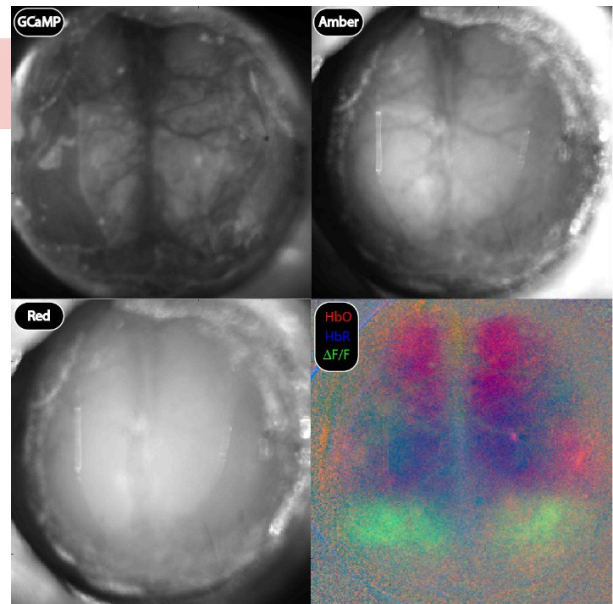
Software

Acquisition Parameters

Frame rate up to 480 Hz, exposure time from 0.01 ms, illumination selection, stimulation settings

Saving

Images, parameters & analog inputs saved on disk (SSD recommended for high frame rates)



Inputs/Outputs Options

Stimulation

BNC connectors

Digital coded or analog (1 or 2 channels)

Auxiliary Inputs

BNC connectors

4 to 8 Inputs, 10 kSamples/second

Imaging Options

Intrinsic signal Optical Imaging (IOI)

Red, amber and green illumination

Variable spot size from 3 mm to 30 mm

Fluorescence Imaging

Filtered LED illumination, filtered detection

Speckle Imaging

Laser diode with a variable spot size

Control Unit

Illumination Controls

Manual illumination intensity pod

Compact Size

120mm X 80mm X 45mm

