

## Laser illumination on your current microscope

Supported wavelength range: 340nm – 1600nm



### Features

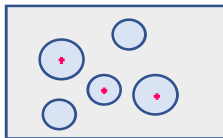
- 1. Direct connection to camera port of microscope**
  - No additional attaching tool is necessary
  - No user alignment is necessary
- 2. Laser manipulation control on GUI**
  - Illumination points or illumination boundary is set by mouse clicking on the image
- 3. Data utilization and timing control with MetaMorph are available**



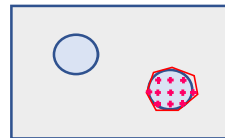
### Application

- Optogenetics, FRAP (fluorescence recovery after photobleaching)
- Laser cell screening
- Photoporation (make hole on the cell surface)
- Laser marking

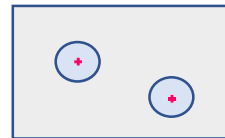
### Illumination point/area selection



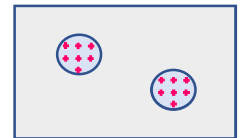
Point selection (manual)



Area selection (manual)



Center of bright area (auto)



Area of bright region (auto)

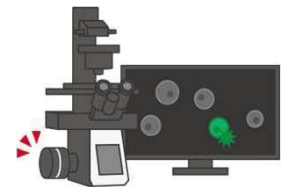
### Light source

#### 1. Standard CW

- wavelength: 405nm、450nm、488nm、514nm、532nm、640nm
- Combination of 2 wavelength is possible

#### 2. Non standard (please ask)

- 375nm and 561nm CW lasers are also available.
- Pulsed lasers and other CW sources can be adapt



We will change your camera to camera with laser

### Demo movies



1. Selected point illumination  
(Laser cell selection / Pulsed laser)  
<https://vimeo.com/561212821>

Selected cells are killed by laser illumination in closed chamber. Observation is fluorescent



2. Selected area illumination  
(optogenetics / CW laser)  
<https://vimeo.com/561213195>

Boundary selection is set by mouse clicking on image. Laser illumination amount can be adjusted by moving speed and laser intensity



3. Object tracking  
<https://vimeo.com/579024209>

Laser illumination with image analysis (intensity analysis) is also possible



A laser and imaging company located in Kanagawa, Japan

## Pinpoint Photonics, Inc.

Marine Bldg. #803, 4-23 Kaigan-dori, Naka, Yokohama Kanagawa 231-0002 Japan

E-mail: koichiro.kishima@pinpointphotonics.com

