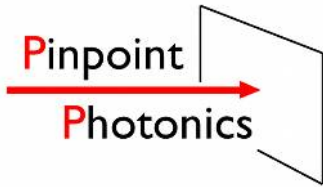


C mount attachable imaging and laser unit



Pixel illuminator-C

Pixel illuminator-C base unit (product#: IGLP-01)



Coaxially aligned C mount BOX camera with laser illumination

Main feature 1: Versatility

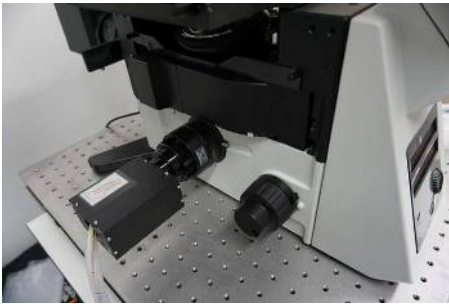
- Adaptability of C mount format makes this BOX easy to connect many lenses and optical microscope directly.
- Position alignment between imaging and laser pointing can be applied to various magnification of imaging lenses.

Main feature 2: Efficiency

- Imaging analysis and image recognition reduce laser illumination area and increase system efficiency.

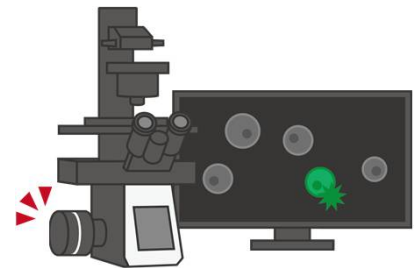
Application

- With microscope
Laser marking (TEM specimen fabrication, write device ID), laser illumination on specific cells, and opto-genetics
- With field lens
OWPT (Optical Wireless Power Transfer), laser cleaning, and laser rust stripping

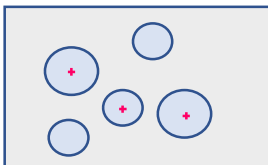


Basic specification

- Box size
43mm x 72mm x 88mm (excluding protrusions)
- Camera function
imaging device: 1/2 inch size, mono chrome
number of pixels: 1.3Mpixels (1280 x 1024)
exposure time: 20 micro second ~ 1 second
camera connecting cable: USB3
- Laser pointing function
spot size is about 3 x 3 pixels shown on the monitor display.
moving time: 10msec (from corner to opposing corner)
laser wavelength range: 400nm-700nm (NIR is optional support)
Small laser can be mounted in the BOX, in other case ϕ 3mm collimated beam is introduced to the BOX
A method of setting illumination point can be chosen from following three;



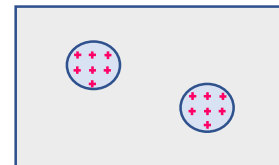
We can change your microscope camera to [camera with laser](#).



(1) clicking mouse on the display (manual)



(2) center point of the bright area (auto)



(3) paint area of the bright area (auto)

Remarks

- Imaging wavelength regions and laser wavelength should be separated.
- Laser system is to be fixed before PO
- Setting illuminating point with Deep Learning can be developed with providing text images.

A laser and imaging company located in Kanagawa, Japan

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