

## PhotoTrack



PhotoTrack Sensor Module and a Digital Camera mounted to a Beam Splitter

The ASI PhotoTrack solves the problem of tracking a moving specimen. Combined with ASI's closed-loop DC servo motor XY stages, PhotoTrack allows you to keep your free-moving samples in your field-of-view (FOV) no matter where they want to go. PhotoTrack uses a low-light-level rapid position-sensing quadrant PMT sensor to monitor a bright reference spot on the target. It then commands the XY stage to maintain that spot in the center of a microscope's field-of-view.

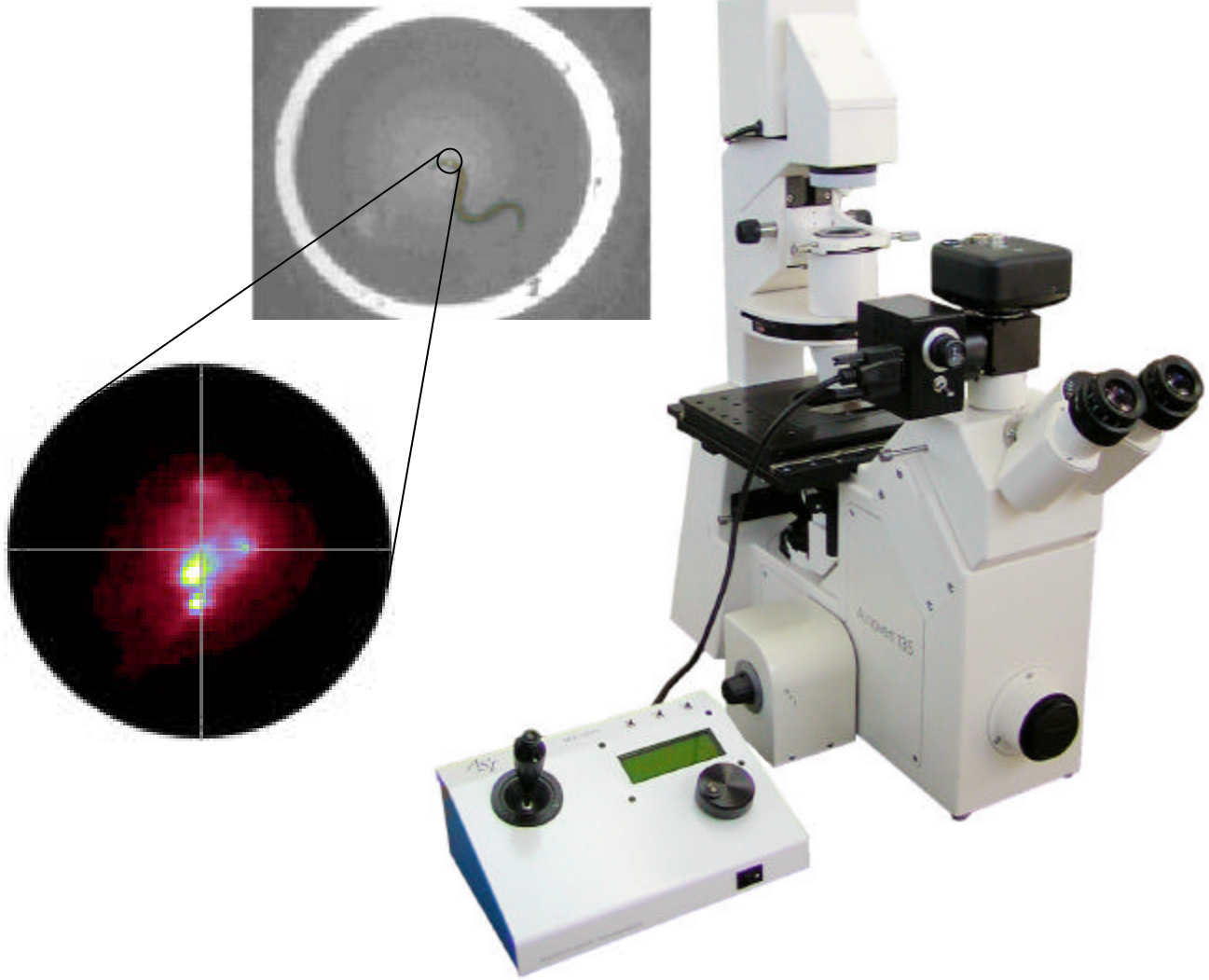
Applications include:

- ?? Cell behavior studies
- ?? Static alignment to fluorescent fiducials
- ?? Optical recording of neurons in moving animals
- ?? Tracking of labeled samples from organelles to organisms with high-powered objectives

***If you need to keep it in the FOV, you need PhotoTrack.***

***We Create Solutions***

Applied Scientific Instrumentation, Inc. 29391 W Enid Rd Eugene, OR USA 97402-9533  
(541) 461-8181 (800) 706-2284 info@ASImaging.com www.ASImaging.com



**Specifications:**

Sensor Mount	Parfocal C-Mount
Sensor Controls	Manual Gain, On/Off, Iris, Overload Reset
Beam Splitter Ratio	20/80, 10/90, or Dichroic
PMT Type	Hamamatsu 4-channel XY quadrant
PMT Protection	High voltage shutdown on overload
PMT Usable Dynamic Range	> 60 dB
Servo Loop Time	3 milliseconds
Read Time	2 milliseconds
Overall Response Time	< 25 milliseconds
Sensor Dimensions (H x W x D, not counting plug)	74 x 94 x 79 millimeters 2.9 x 3.7 x 3.1 inches
Controller for PhotoTrack Sensor	Integrated with specially-configured ASI MS-2000 controllers

***We Create Solutions***

*Applied Scientific Instrumentation, Inc. 29391 W Enid Rd Eugene, OR USA 97402-9533  
(541) 461-8181 (800) 706-2284 info@ASImaging.com www.ASImaging.com*