

# Keyence VHX-5000 Microscope

**Keyence VHX-5000 Microscope**



**Tool Type:** "Observation"

**Location:** "Microfluidics Lab"

Supervisor	Tool Lead
David Bothman	Eric Lemieux
(805) 893-4125	(805) 234-8919
bothman@cnsi.ucsb.edu	ericlemieux@ucsb.edu

**Description:** "Microscope"

**Manufacturer:** "Keyence"

## About

The Keyence microscope is a semi computer controlled microscope that is capable of taking precision measurements from large depth of field images under high magnification. This microscope features both backlighting and top lighting, and has a computer controlled movable stage which can be used to pan across the object you are viewing. This microscope has a motorized objective which can be used to image parts with a large depth of field to create a single in focus image with depth mapping data. The motorized stage also allows for the stitching of several images to create larger high magnification pictures.

## Training Documentation

Insert Text Here!

## Detailed Specifications

- 17 mm/s Z travel
- Objective rotation up to 90 degree angle from normal stage axis
- Image stitching up to 20,000 x 20,000 pixels
- Optical zoom from 0 to 1000x
- 50 FPS max framerate

## Safety Concerns

Insert Text Here!

## Reference Documentation

[STL Converter Manual](#)

[Brochure](#)

[Field of View and Pixel Size Chart](#)

[Intermediate Quick Start Guide](#)

[Quick Start Guide](#)

[VHX Exporting 3D Data to CSV](#)

[VHX lenses](#)

From:

<https://bpm-wiki.cnsi.ucsb.edu/> - NSF BioPACIFIC MIP Wiki

Permanent link:

[https://bpm-wiki.cnsi.ucsb.edu/doku.php?id=keyence\\_microscope&rev=1604430101](https://bpm-wiki.cnsi.ucsb.edu/doku.php?id=keyence_microscope&rev=1604430101)

Last update: **2020/11/03 19:01**

