Keyence Microscope Training SOP

Last edited: Furst (11/03/20)

Instructor:

Date:

Attendees:

	Name	Group or Company	Signature
1			
2			
3			
4			
5			
6			

Overview:

- This training provides an introduction to using and operating the Keyence microscope including:
    - Changing Objectives
        - 0-50x and 20-200x
        - 100-1000x
    - Head tilt
    - Stage movement
    - Software
        - Lighting
        - Measure
        - Depth up
        - Image quality
        - Optimize
        - Stitching
    - Safety
    - General microscope use
    - Maintenance

Safety

Microscope Setup

At the microscope:

1. Changing objectives
    1. Press the button on the top of the objective (right above the Y axis of rotation screw)
    2. Twist the camera body counterclockwise and carefully lift directly off. Set carefully on its side to avoid damaging the lenses in the camera assembly

3. Loosen the large plastic wingnut screw located above the axis of rotation adjustment on the objective. (DO NOT ADJUST AXIS OF ROTATION SCREWS)
4. Lift the objective straight up off the mounting post on the microscope body and place carefully in drawer located under Keyence computer.
5. Remove the desired objective and lower over the mounting post on microscope body.
6. Gently snug up the wing nut screw to clamp on the flat of the mounting post
7. Gently lower the camera assembly onto the top of the objective
8. Once lined up, rotate camera assembly clockwise until a sharp click is heard

2. Tilting the head
3. Changing lighting elements
4. moving/positioning the stage

At the Computer:

1. Initialize the XY stage
2. Software lighting adjustment throw in image quality as well
3. Depth up
4. Measure
5. Stitching
6. saving images

Maintenance

Keyence microscope Quick Review

Tool Lead:
Contact: andrewfurst@ucsb.edu

Safety Concern

Safe Operation Procedures Review

Post Processing

Maintenance