

# NIKON NI BRIGHTFIELD

## Basic Operation

1

System Basics

2

Software Overview

3

Auto White Balance

4

Image Capture

5

Manual Stitching



## Ni Upright Microscope

- Manual XY rotatable stage
- Manual Coarse and Fine Z focus
- Halogen Illumination with constant voltage setting and neutral color balance filter

## Manual Fluorescence Turret

- DAPI
- GFP
- RFP

## Intelligent Objective Turret

- 4x
- 10x
- 20x
- 40x (air)
- 60x (oil)
- 100x (oil) available

1

2

3

4

5

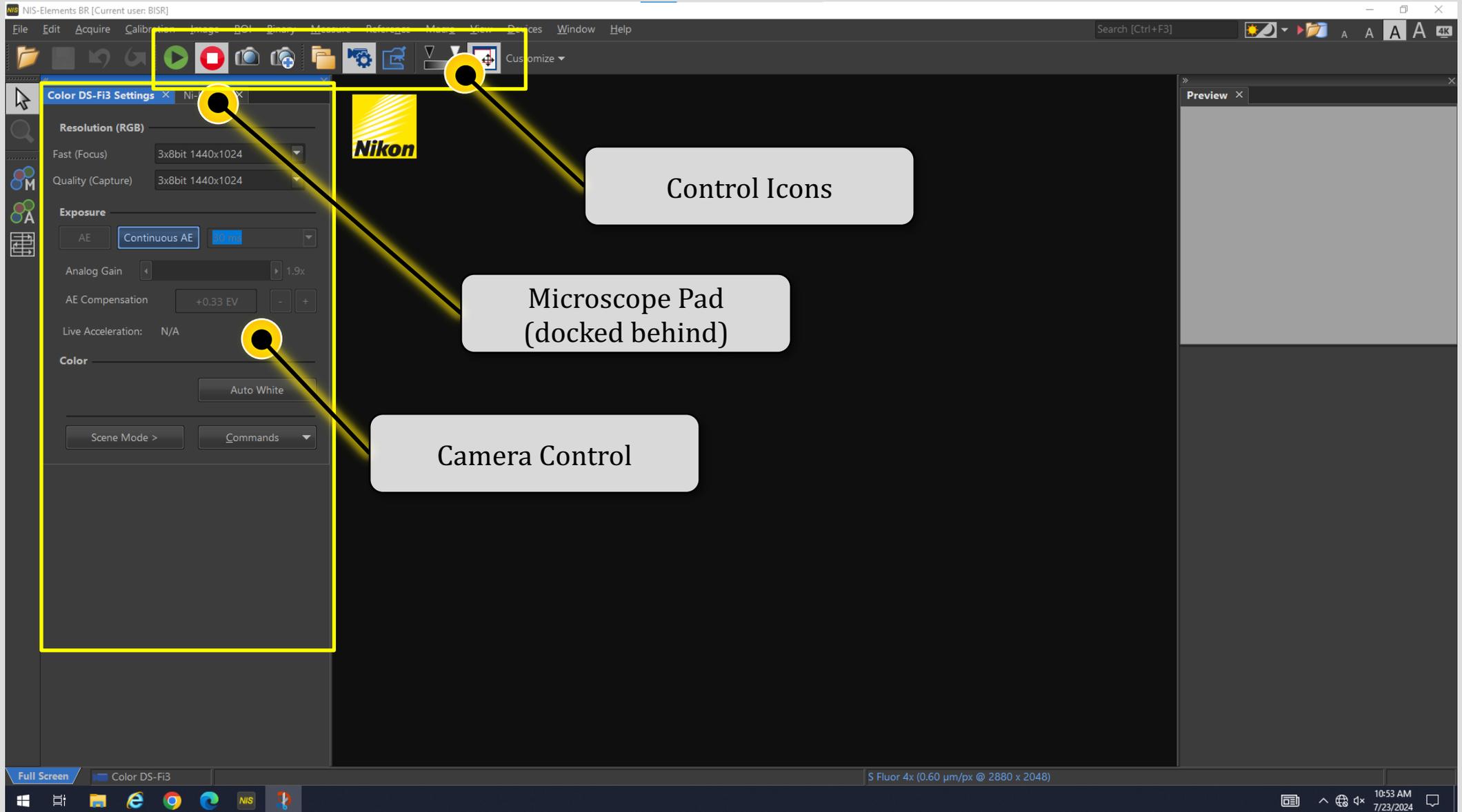
1

2

3

4

5



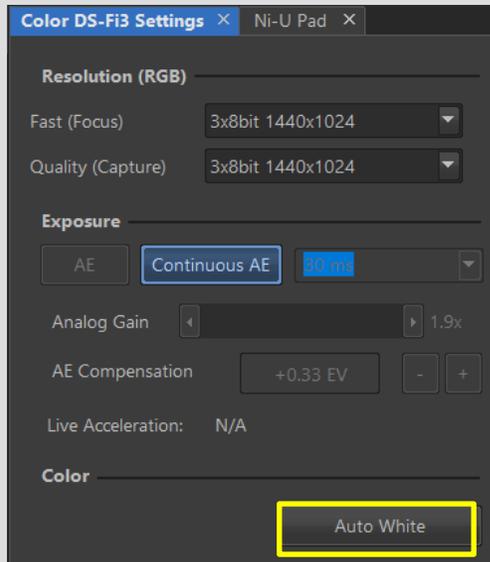
Control Icons

Microscope Pad  
(docked behind)

Camera Control

## Auto White Balance

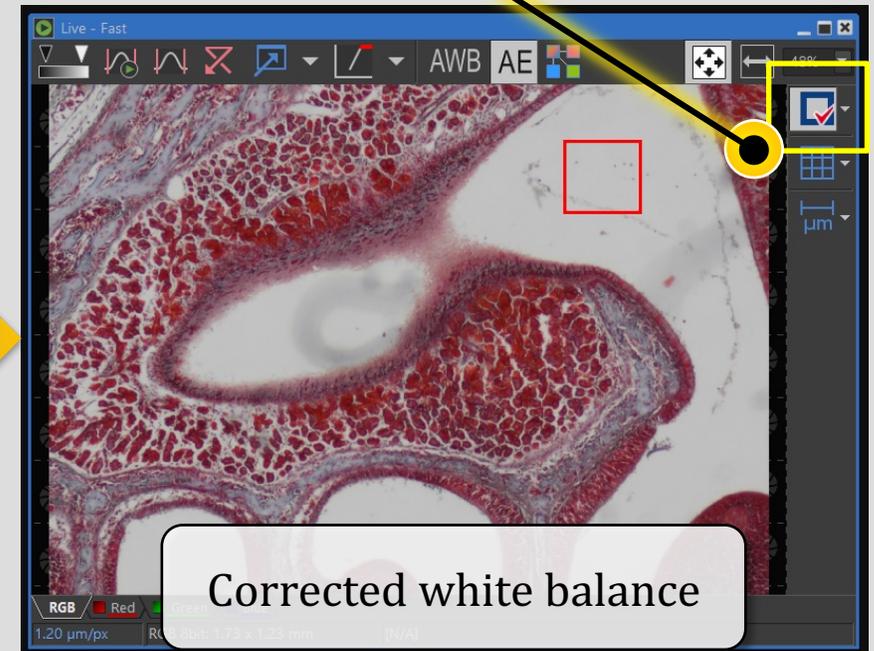
**Auto-white** sets the color balance so that a “white” pixel shows equal intensity in RED, GREEN, and BLUE. You can specify which pixels are “white” by using the PROBE tool before clicking “Auto White” (AWB). **PLEASE NOTE:** The Ni uses a halogen bulb, so please collect images at the “constant voltage” brightness setting on the scope.



Probe Tool



Incorrect white balance



Corrected white balance

1

2

3

4

5

- 1
- 2
- 3
- 4
- 5

# Image Capture



Start Live Image

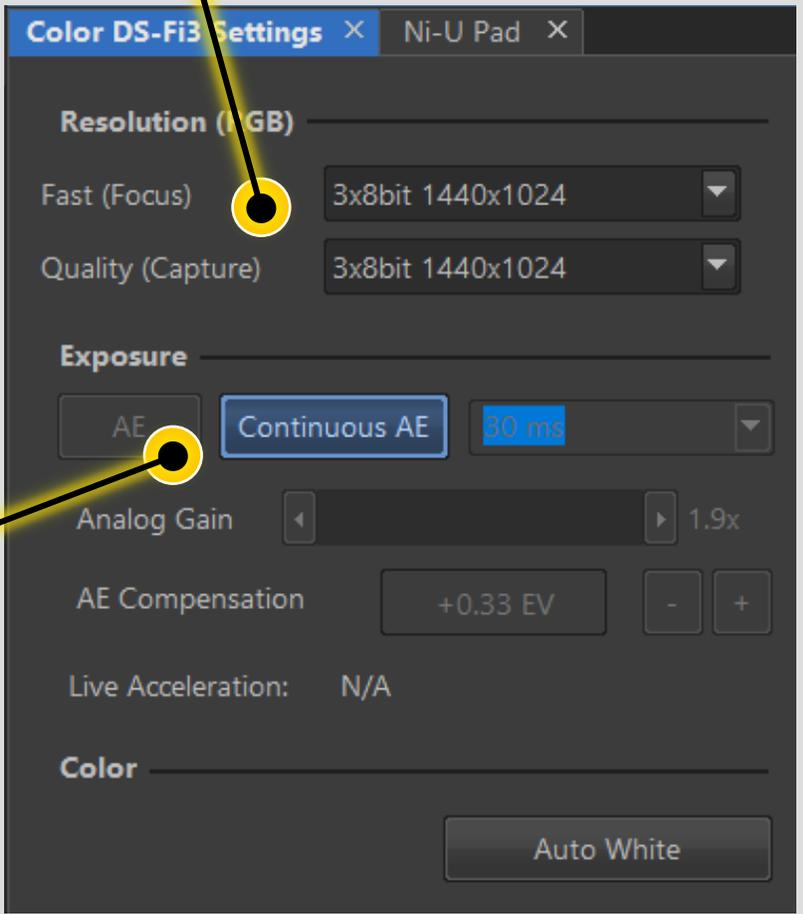
Stop Live Image

Capture Image

"Auto" Capture Image

Auto Exposure

Capture Resolution

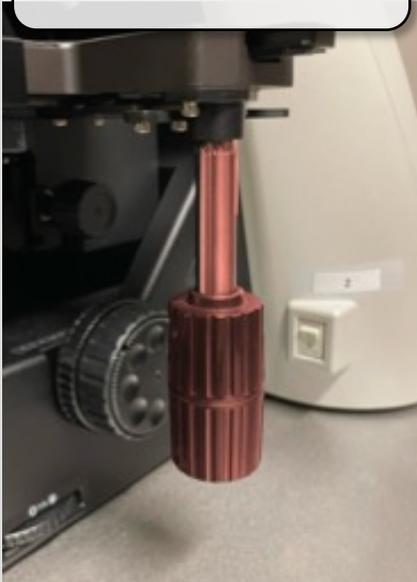




## Manual Stitching

1

XY control



Start/Capture

Finish Capture

Auto-track and  
Capture

2

3

4

5

1. Start Capture
2. Move stage slowly (software will track movement)  
 Green = active tracking  
 Purple = Ready to capture  
 Red = tracking error
3. Finish capture when done.

