



ezImageX3 Software Manual

Version 1.0

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Prior to using this software, please check that your settings remain intact after completing the setup instructions from the document titled: “ezImageX3 Setup Instructions”

Software Functions

Calibration

Calibration is needed for accurate onscreen measurements. For a digital scope, such as our Mighty Scope, manual calibration will maintain its accuracy only for the exact working distance of your setup during calibration. In other words, if the scope is moved closer, or further away from the object, calibration will need to be performed again.

- To calibrate, first you'll need to use a ruler or a circular object of known dimension.
- Then navigate to the **Calibration** tab.
- Within the tab, select a slot to save your calibration.
- These slots are labeled '**Calib1**', '**Calib2**', and '**Calib3**'.
- After choosing a slot, press the **Wizard** button to begin calibration.
- You'll be instructed to draw a line or a circle. To draw a line, click twice to indicate the endpoints of each line. Clicking a third time will transform your calibration line into a circle. When drawing a circle, select 3 points on the edge of your circular object. Drawing a circle works best when the points are spaced furthest away from each other.
- When you are finished drawing, click **Apply** on the wizard dialog box.
- Now the wizard will ask you to set the value and units of your calibration. Click this icon  to pull up a keypad and enter the information.
- When finished, click **Apply** again on the wizard dialog box, and you are finished calibrating.

Measurement

- To measure, first navigate to the **Measure** tab.
- Here you can select to measure a distance (**Dist**), **Angle**, or **Circle**.
- Draw a distance measurement by clicking two endpoints. Endpoints can be manipulated afterwards to ensure accuracy.
- Draw a circle by clicking 3 or more points around the perimeter. Deselect the **Circle** button to finish drawing.
- Angles are drawn by indicating a vertex and two endpoints.
- Measurements can be edited by first left-clicking to select the measurement, then right-clicking to access a menu and selecting **Edit**.

Image Capture

- To capture an image with measurements, first navigate to the **Capture** tab.
- Within the tab, click **Capture**. This will exit **Live** mode, freezing the image while maintaining onscreen measurements. (Alternatively, capturing images can be done while **Live** mode is active)
- Next click **Save**. A Windows dialog box should appear, allowing you to select the directory and name the file.
- Note that only images saved to the default directory will appear in the left-hand column of ezImageX3.

Helpful Links:

Technical Support – www.aventools.com/support

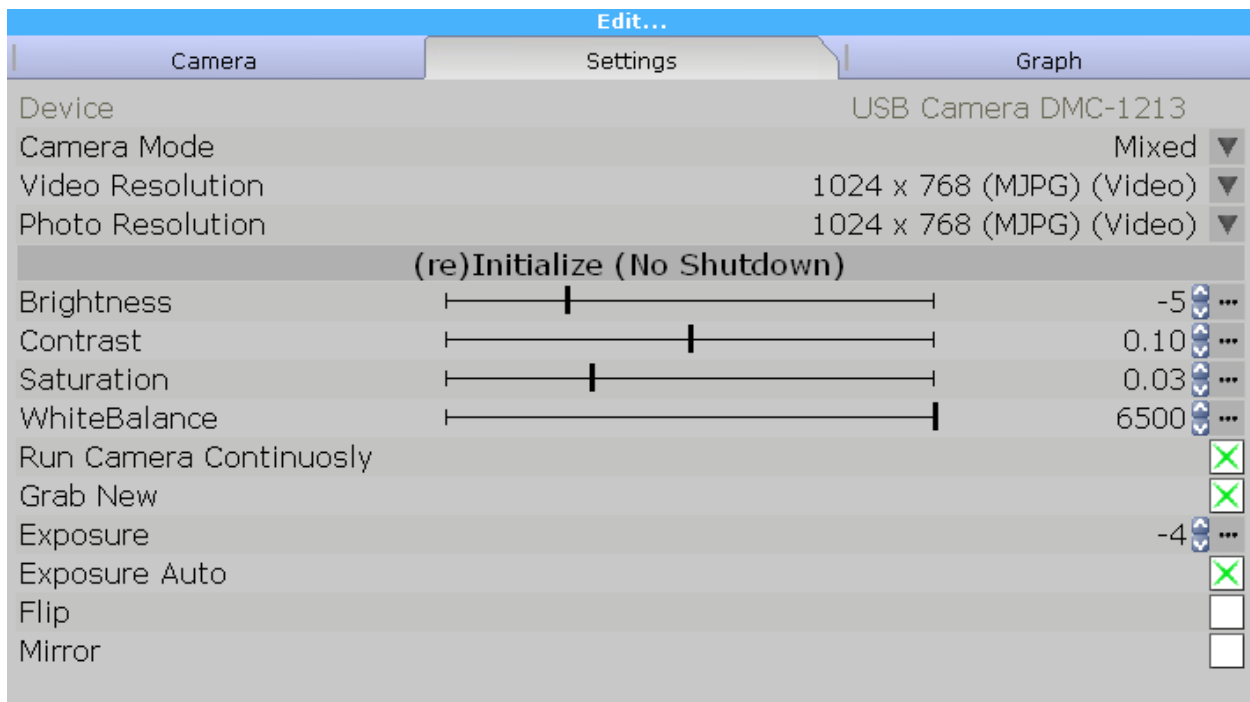
ezImageX3 Tutorial Video – www.youtube.com/watch?v=lbxF3cORrV0

ezImageX3 Download – www.aventools.com/software-downloads

Enabling your Mighty Scope Image Capture Button

Do NOT perform these changes in Live Mode

- 1) Navigate to your Camera **Settings**
- 2) Set **Camera Mode** to **Mixed**
- 3) Set **Video Resolution** to MJPG format, e.g. **1024 x 768 (MJPG)(Video)**
- 4) Set **Photo Resolution** to MJPG format, e.g. **1024 x 768 (MJPG)(Video)**
- 5) Click on **(re)Initialize (No Shutdown)**
 - a. During this step, you should see the LED lights turn off and then come back on, no more than 5 seconds later. If they do not come back on, Navigate to the **Camera** tab, and **Initialize** from there.
- 6) Click **Apply**, and then **Close**
- 7) Return to Live mode and your Image Capture button should now be functional



Notes: Remember to save the workspace in order for these settings to be maintained the next time you use the program.