AVEN

Mighty Cam Eidos

Integrated 2M Color CMOS Camera / 11.6" 1080p Monitor

item # 26100-260

User Manual

EIDOS: An Introduction

Thank you for your purchase of Aven's Eidos. This integrated HD camera system can be mounted to any microscope or video lens with a C/CS mount. Allows operators to view high definition images at a high frame rate of 60fps while looking straight ahead at a monitor. This can help ease eye strain and neck fatigue associated with frequent microscope use and allows users to share their inspection with their collegues.

Features include an Optical Mouse for menu interaction, a powerful built-in HDMI camera, a built-in SD Card for capturing images and a wide range of customizable features.

Setting Up Your Eidos:

Connect the Eidos to you C/CS mount trinocular microscope or video lens. Plug the power adapter into your power outlet and connect the mini end to the bottom of the Eidos.

Remove mini USB flash drive from mouse and insert into one of 2 USB ports of the monitor. Insert the batteries into wireless mouse (included in package).

Alternative method: To connect the camera to a PC, use a USB cable. **Note**: This requires Aven's EZ Image Software (product #24600-406, aveninc.com).

Settings Menus

Now that the system is on and your mouse is connected, there are three menus to choose from on the right, left, and bottom of the screen.

Right side: Grid Menu
Left Side: Camera Settings Menu
Bottom: Function Menu

Each menu can be accessed by moving your cursor to the corresponding side of the screen.

☒ Use this icon to navigate back to the main menu at any time.

 Use this icon to restore factory settings at any time.

Camera Settings Menu: Setting Automatic or Manual Exposure and White Balance

Automatic Exposure

Adjust your exposure preferences using this menu. Checking the box confirms you are using the Automatic Exposure option. For Manual Exposure, simply uncheck the box.

Set Exposure Time:

The above menu allows operators to set manual exposure time from a range of 0-1000 milliseconds.

Adjust White Balance

In order to make adjustments, click the blue one push button on the far right side of the White Balance Menu:

Tip: Try placing a white sheet of paper under the camera before confirming your settings. This will help the sensor produce a proper white balance.

To Set Automatic and Manual White Balance:

Click One Push ▭ to adjust the white balance.

To default to the Automatic White Balance Mode, click Auto ▭ and check the white box.

Grid Menu

Navigate to the main menu by clicking this icon: ☒

Move cursor to the right edge of the screen and click to display grid function

Use the mouse pointer to click the crosshairs icon: ⊹
This is your master grid control. Press and hold the left mouse button on the central crosshairs, or click and hold the left mouse button on an individual line to drag that line directly.

Click the **[+\+]** icon to display horizontal and vertical grid lines, and to turn them on and off. There are four horizontal lines and four vertical lines, in addition to the central crosshairs. Click the hashtag icon **[#A]** to determine your crosshair's corresponding line letter.

⊡1 Determines your crosshair number 1-8. Click it to change the color of your line. You will see your color changes noted on the line itself and in the color square icon further down the function menu.

▬ Bolds a grid line if desired
ON/OFF Hides or switches lines if desired
↳ Moves the grid line up and to the right
⌐ Moves the grid line down and to the left
⊞ Click any time to save settings

■ Displays current line color

If desired, you may hide the reticle menu by moving the mouse cursor from the right edge of the screen. This automatically hides the reticle menu—but make sure to save your settings first.

Function Menu

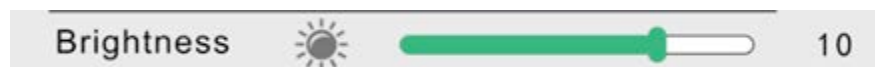Use this menu to adjust flicker/power frequency selection mode (the default frequency is 50HZ):

Flicker ⎍∿⎍ 50HZ ✓ 60HZ ☐

This menu provides image contrast adjustment:

Contrast ◑ ▬▬●▬▬▬▬ 8

Use this menu to adjust image saturation:

Saturation ⛛ ▬▬▬●▬▬▬ 8

Use this menu to adjust brightness:

Brightness ☀ ▬▬▬▬●▬▬ 10

Use this menu to adjust image sharpness:

Sharpness ◫ ▬▬●▬▬▬▬ 2

Use this menu to adjust image noise:

Denoise ⛭ ▬▬●▬▬▬▬ 2

Use this menu to make color corrections and adjustments:

| Red | ● | ▭▬───────── | 24 |
| Blue | ● | ▭▬───────── | 21 |

Auto Exposure	±◿	☑	⬜RESET
Exposure time	±◿ Time	▭─────────	1
White balance	AWB	Auto ⬜ One Push 🟦	
Flicker	-∿-	50HZ ☑ 60HZ ⬜	
Contrast	◖	▬▬▬▬▬─────	8
Saturation	⚙	▬▬▬▬▬─────	8
Brightness	☀	▬▬▬▬▬▬▬▬──	10
Sharpness	⦀	▬▬────────	2
Denoise	✺	▬▬────────	2
Red	●	▬▬────────	24
Blue	●	▭▬────────	21
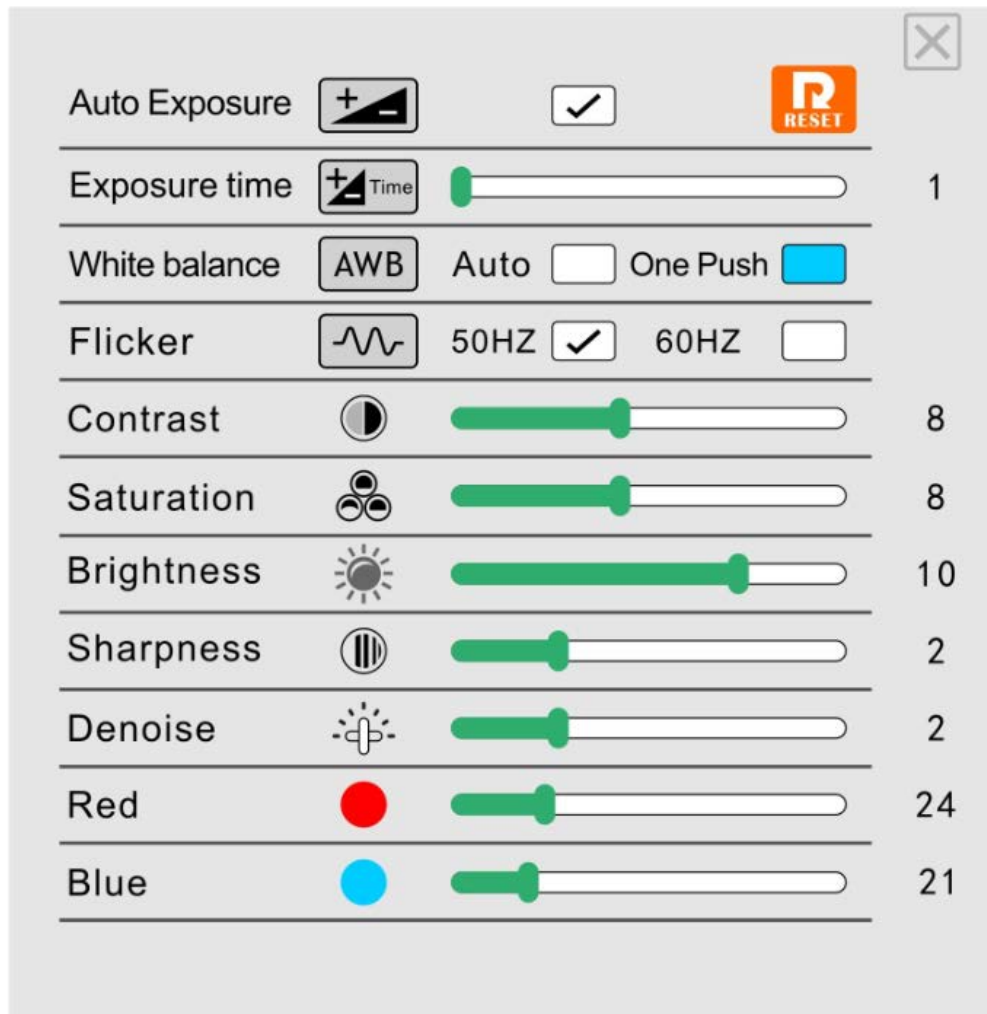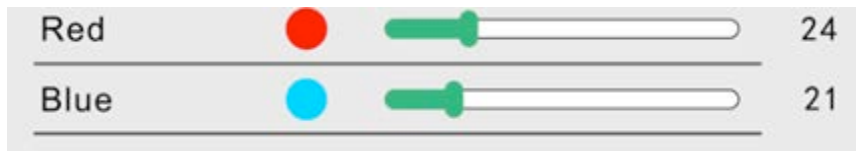
III. Icon Definitions

Primary Main Menu

	[zoom in icon]		Use this to zoom in
	[zoom out icon]		Use this to zoom out
	[vertical reflection icon]		Use for a vertical reflection of your image
	[mirror image icon]		Use for a mirror image
	[freeze lock icon]		Use to freeze image
	[grayness icon]		Adjust grayness within your image
	[HDR icon]		High Dynamic Range—use for a wider dynamic image
	[contrast icon]		Use to adjust the contrast within your image
	[camera icon]		Use to Capture a Photo
	[video camera icon]		Use to Take Video
	[grid icon]		Use to Preview Image Choices

			Format SD Card
			Use to Adjust Settings
			Use to Adjust Cross-hairs