ASIImg Manual

v1.1 2021.03.31

⚠ Important notes

Operation tips

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1. Introduction

ASIImg is a deep sky imaging software specially developed for ZWO cameras, it offers a very broad variety of capabilities, including image preview, autorun, histogram stretch and much more.

2. User Interface

As shown in Figure 2-1 and Figure 2-2, the user interface is divided into 10 parts :

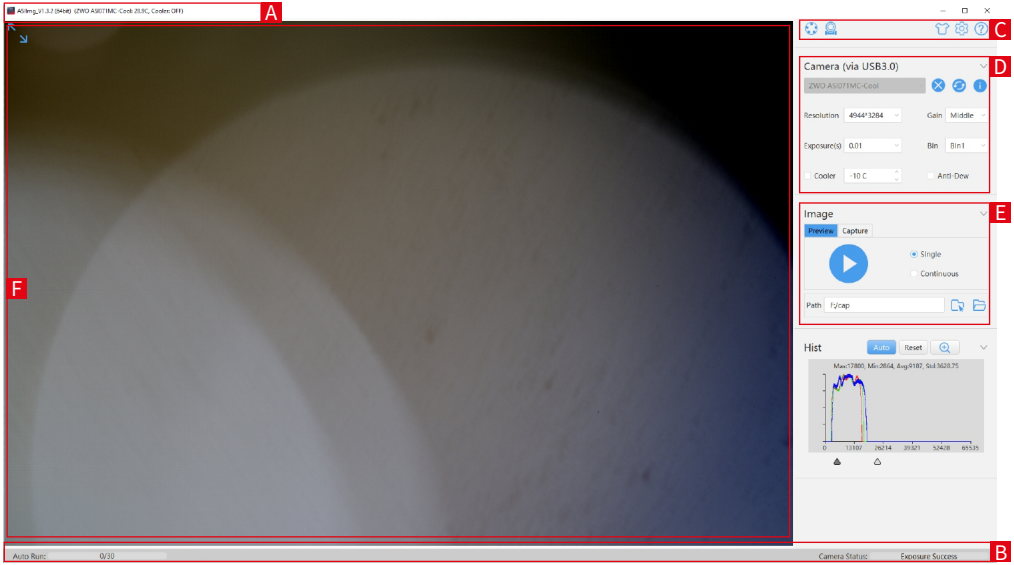

Figure 2-1

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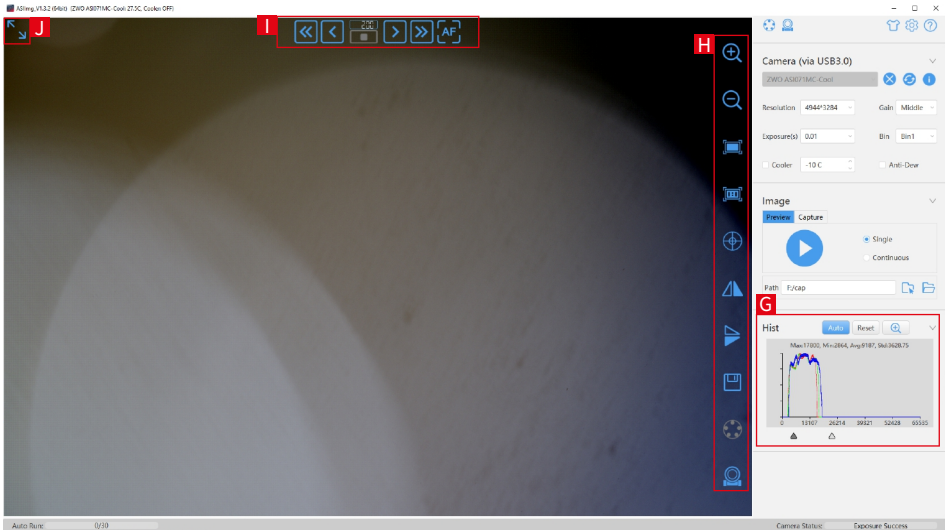

Figure 2-2

A: Title Bar. It shows the software name, version number, the selected camera and its real-time working status, including current temperature and cooling power (for cooled camera only).

B: Setting Bar. It gives easy access to Electric Filter Wheel (EFW), Electric Automatic Focusing (EAF), ST4 auto guide, theme skin, general settings and help.

C、D、G: Work Area, including Camera Parameter Setting, Image Capture and Histogram.

E: Status Bar. It shows the autorun progress and the camera status.

F: Capture Display Area.

H: Vertical Toolbar.

I: EAF Quick Control Panel.

J: Full-Screen Button.

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3. Quick Guide

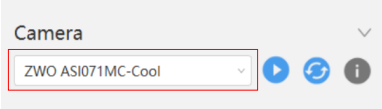

Figure 3-1

① Install the ZWO camera driver, and then connect the camera to the computer via a USB cable.

② Open ASIImg, you can see the title of the selected camera in Camera Control Area(Area D) as shown in Figure 3-1. Click button ▶ to turn on the camera.

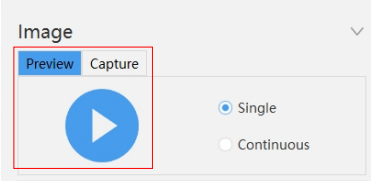

Figure 3-2

③ With the camera being active, click ▶ button in Image Capture Area (Area D) as shown in Figure 3-2 and wait till the exposure ends.Capture Display Area (Area F) will show an image.

Above is the preview function. Set up the equipment and camera and then start shooting. Please note that being affected by target brightness, equipment and other aspects the default preview image may not be that nice, so you need to manually adjust the exposure and gain values in Camera Parameter Setting Area (Area C) to reach the idea level in your heart.

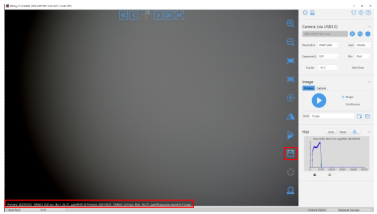

Figure 3-3

④ Move the mouse pointer to Vertical Toolbar (Area H), click 💾 button to save the real-time preview image in the format of .jpg and .fits . The title of the file and the path it was saved in will be shown at the lower-left corner of Capture Display Area (Area F), as shown in figure 3-3:

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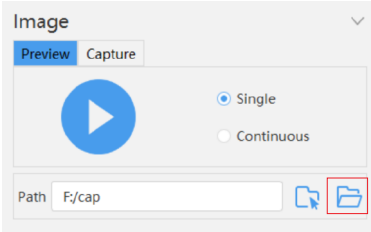

Figure 3-4

⑤ Click button in Image Capture Area (Area D) to open the folder where the images are saved (in the root directory) .

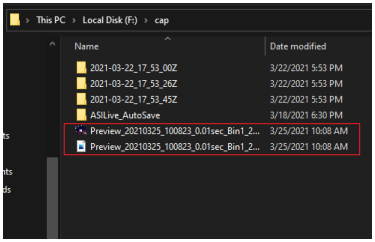

Figure 3-5

You can find the corresponding fits file according to the title and date, as shown in Figure 3-5:

Start autorun:

After step ①②③ are completed.

Click Auto Run button in Image Capture Area (Area D). The autorun window will pop up as shown in Figure 3-6:

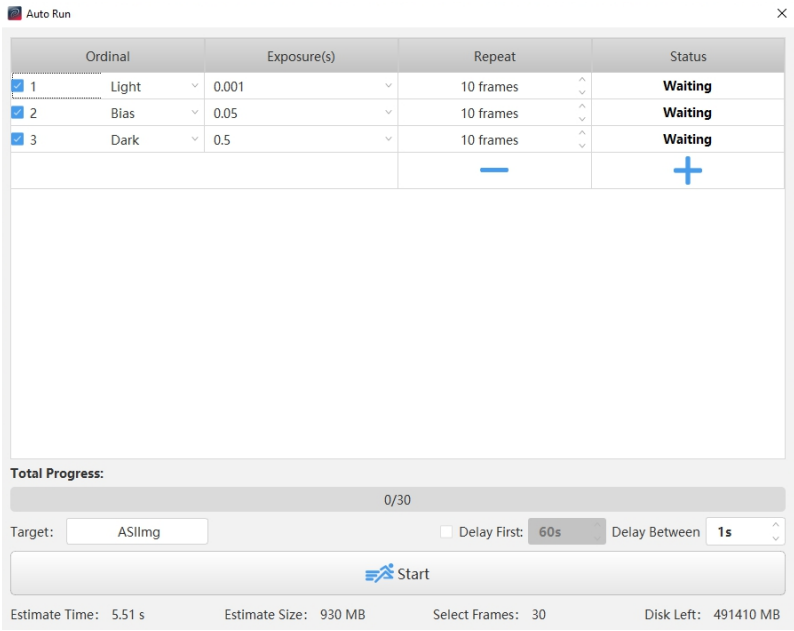

Figure 3-6

Click + to add a task. Click − to delete the last task. Set the type of calibration frame (lights, darks, bias, flats) , exposure time and repeat time of each task. To start the autorun progress, you need to tick the box in front of the task and then click this Run button.

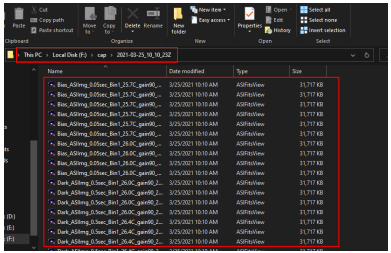

Figure 3-7

Click button in Image Capture Area (Area D) to open the folder where the images are saved , Find the corresponding folder according to the shooting date. Under this path, you can see the image files you just saved, as shown in Figure 3-7:

The paths in Figures 3-5 and 3-7 are examples for reference only. The actual path is determined by the path settings in Image Capture Area (Area D).

4. FAQ

Q1: The camera has been connected to the computer but ASIImg can't detect it.

A: Please first make sure that you have installed the latest version of the ZWO camera driver if you are using the Windows computer, then check Device Manager -> Image Device to see whether it have the ZWO camera in the list. A yellow exclamation mark normally indicates the driver is not installed.
Also confirming whether the USB cable is connected properly to the computer is an important step for both Windows users and Linux and Mac users. But if you have checked all the above conditions and still cannot solve the problem, please feel free to contact us.

Q2：I go to the save path after done saving the preview image and autorun but I cannot find the files.

A：There will be an error message in the lower-left corner of Capture Display Area (Area F) if the image is not saved successfully, as shown in Figure 4-1:

Figure 4-1

You can follow the following guide to solve the problem:

For Windows computers, please check the permission of the folder (**right click -> Properties ->Security**) to see whether you are the administrator and whether you have the rights to read and write the files/folders. Normally the folders on C: drive all need the permission of the administrator to write to the files except the user directory. We recommend you select D: drive or E: drive as the save path, or run the ASICap as administrator at the very beginning.

For Linux & Mac computers, as is the solution with Windows, do not set the save path as that requiring root privileges to write in. Of course, running ASICap as root will also solve the problem.