Evora Documentation - Version 1.0
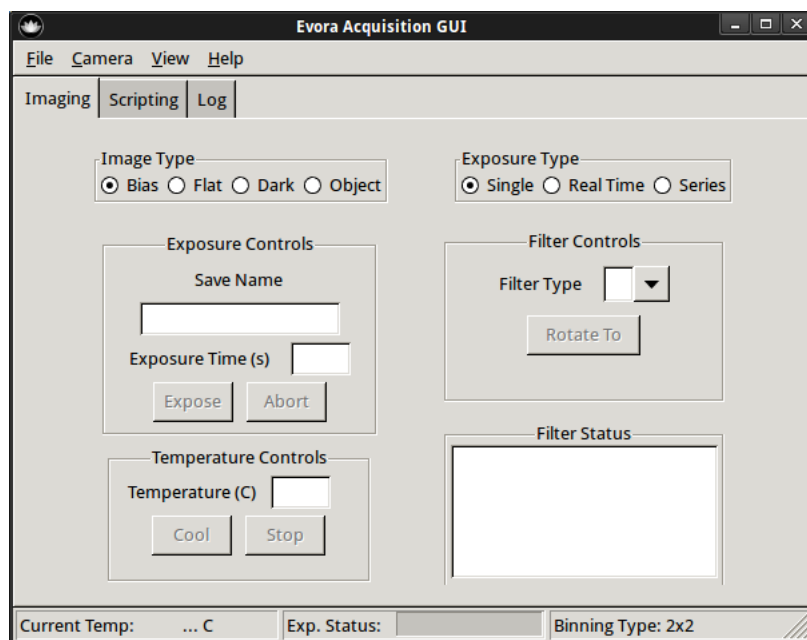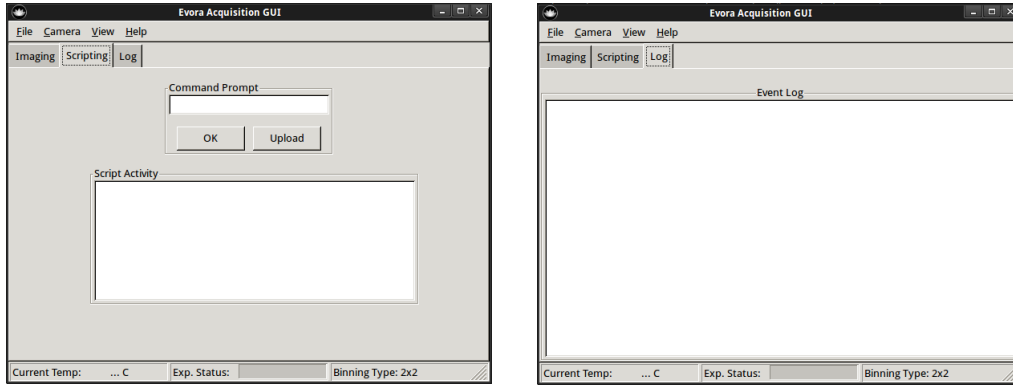
Tristan J. Hillis

Contents

1   Starting Up

Starting the executable named evora.exe you are greeted with a window that should look similar to the following; this will look different depending on the OS or Linux flavor.

First you will notice that buttons are grayed out to lock down the GUI until actually connected. This page controls the vast majority of the camera operations, from exposing, temperature control, and filter wheel slewing. One will notice the tabs in the upper left labeled *Imaging*, *Scripting*, and

Log. Here are previews of the other two tabs to be covered in greater detail in later sections:

Now onto connecting to the camera; go to the **Camera** menu where there will be three options two of which are grayed out **Connect**, **Disconnect**, and **Shutdown**. Pressing **Connect** will cause the GUI to begin talking to the camera, Evora. Depending on the state of the camera it can take a few moments for the camera to initialize, otherwise it may connect right away. The two grayed out items **Disconnect** and **Shutdown** in the **Camera** menu will now be selectable while **Connect** is now grayed out. **Disconnect** will simply kill the GUI connection to the server and leave the current state of the camera untouched (e.g. the camera cooler will still run). **Shutdown** will both kill the connection to the server and properly shutdown the camera cooler and everything. The user should notice that the GUI has started tracking the temperature, in the bottom left, as well as unlocked certain buttons.

2 Filter

All the filter controls are handled through the main page and through the **File** menu. Starting at the **File** menu there will be a **Filter** sub-menu with **Connect** and **Refresh**. **Connect** will initialize the filter so the user may start slewing to the various filter positions. **Refresh** (put explanation for refresh). Within the main imaging tab the user can use the *Filter Type* drop down menu to choose which filter to slew to. Once selected pressing the **Rotate To** button to change the current filter position to the one of choice.

3   Temperature

Using the controls on the main page the user can easily change the temperature. Within the text box the user can specify a temperature between the range of -80 to -10. Pressing the **Cool** button will start the cooling process and the **Stop** button will light up. During cooling the user can specify a new temperature at any time, but also press the **Stop** button to begin the warming process. As the camera cools the color displayed in the bottom left will change depending on the state of the cooler. Green will signify that the camera has warmed up enough, red will indicate a transition of temperature, yellow signifies stabilizing of the cooler, and lastly blue will mean the cooler has finally stabilized.

4   Exposing