Additional features of ULVision

Channel select

ULS24 Solution kit can be setup to operate in 1, 2, 3, or 4 channel configurations. The total number of channels available is determined by the number of ULS24 sensor modules connected to the main board.

When multiple channels are available, the user can select specific channels to perform capture. See feature (1) of Figure 1.

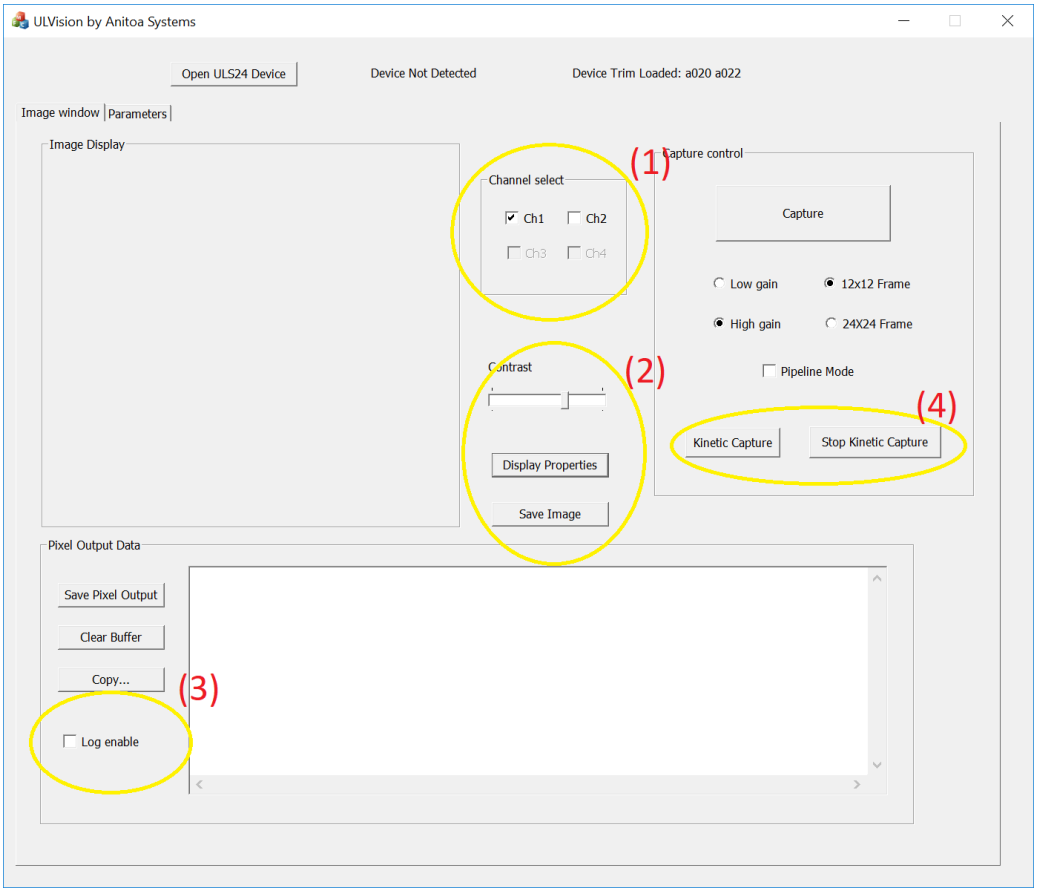


Figure 1 ULVision main window

Display properties

When image is captured, a grey scale image picture will be drawn. In addition, picture data matrix in raw format will be displayed as well. The user can control the way the image is shown, and data displayed.

The “contrast” slider allows user to control the display contrast of the image. Note this will only affect the visualization contrast. The slider position has no influence to the actual data being generated, presented and saved.

Display properties. In this setting interface, user can select how and what information will be displayed. Note the image can be flipped vertically to compensate the effect of installing image sensors. This will only affect how image is displayed, not the actual data generated in text format.

See Feature (2) of Figure 1

Enable logging

As user captures the image, the software can save the text data to a time stamped text file. All the user needs to do is to check the “log enable” check box.

See Feature (3) of Figure 1

Save settings to a configuration file.

All setting data, including capture settings and display settings of ULVision can be saved into a default configuration file, so that the next time when the ULVision application is launched, the same settings will automatically be restored. Saving configuration file is triggered by clicking the “Save config” button under the “Parameters” tab. The configuration file, named “default.json”, is a text file that is easily readable and editable.

See Figure 2 below

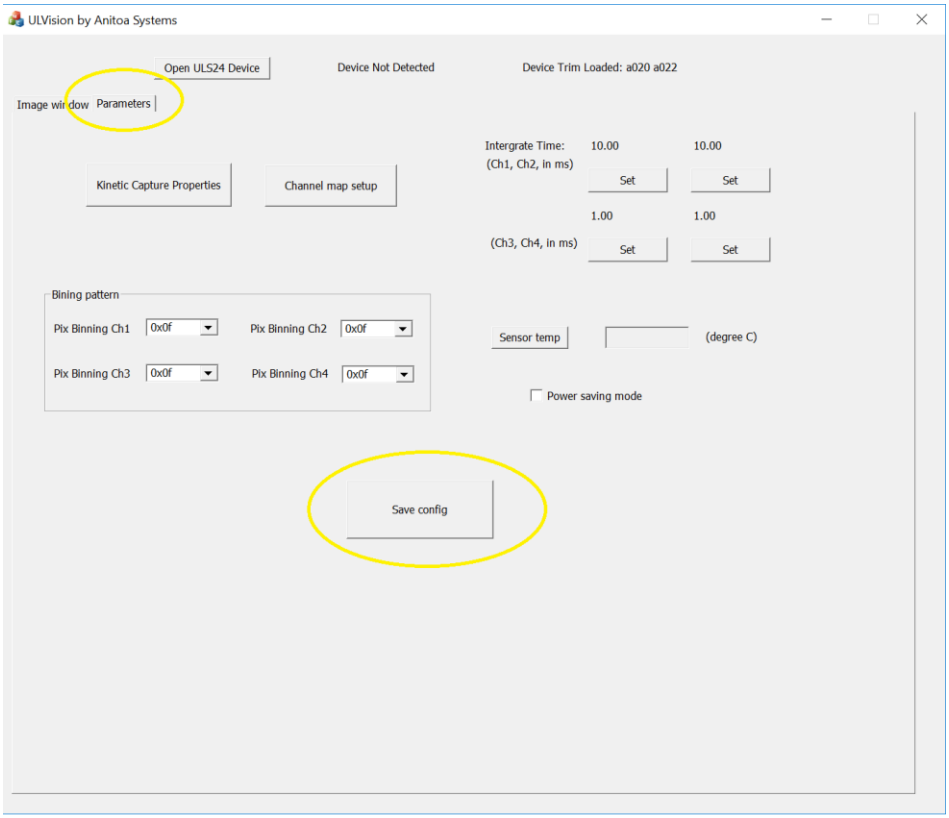


Figure 2 Save settings to a configuration file

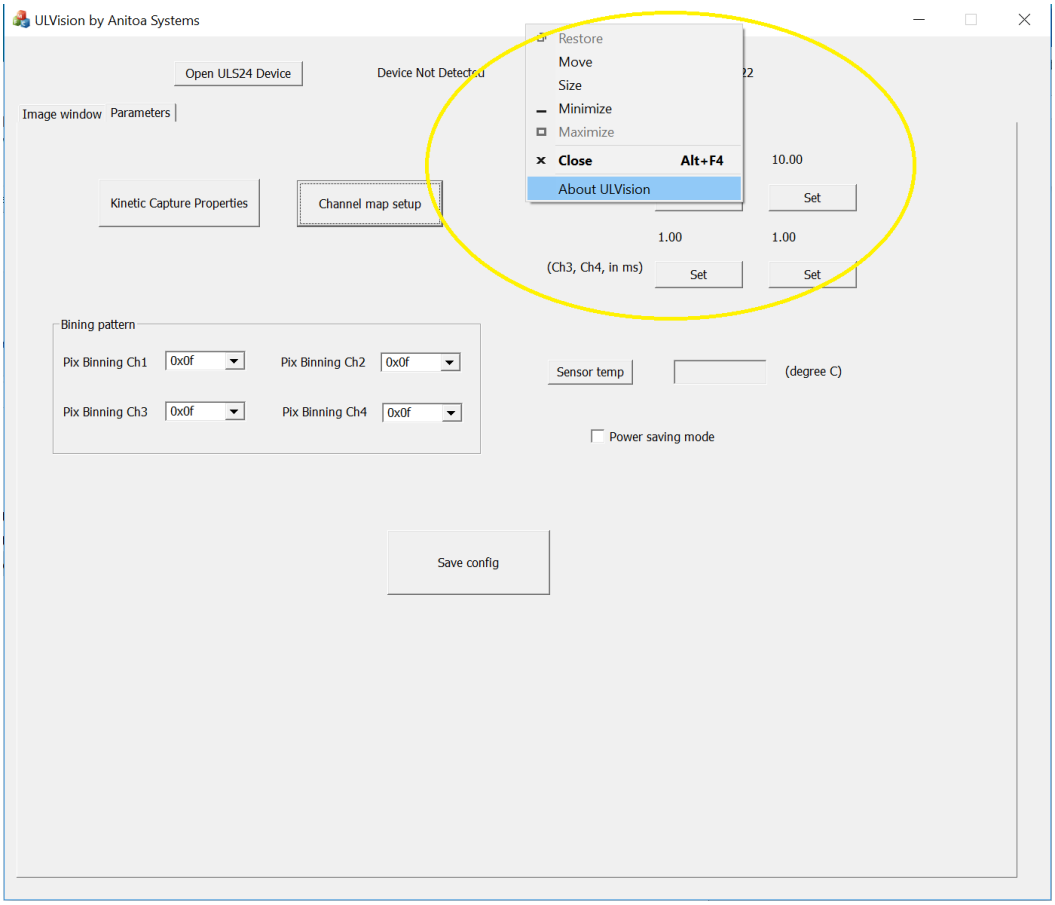
Save image

Gray scale images can be saved by clicking the “Save image” button of the Image window. See feature (1) of Figure 1.

Kinetic capture

It is possible to perform multiple captures repeatedly with fixed time intervals and have data saved automatically, by selecting the “Kinetic Capture” option. The parameters, in terms of total number of captures and time interval between captures can be set by clicking “Kinetic capture Properties” button in the “parameters” window.

See feature (4) of Figure 1.

Checking version of software and firmware

Checking software version and Firmware version is useful for communicating with Anitoa about software and hardware issues.