

Application Note ImageJ Plugin for Bigeye cameras



About ImageJ

ImageJ is a Java-based image processing and analysis program that is often used for medical or scientific applications. Therefore, it is particularly suitable for our Bigeye-G camera series.

Connecting Bigeye-G cameras to ImageJ

The ImageJ Plugin is a programming sample that enables to connect Allied Vision cameras like Bigeye-G to ImageJ through its plugin interface.

Note The ImageJ Plugin is only an example.
You are free to modify it according to your needs.

For your convenience, a precompiled version is available that can easily be installed via an installer: https://alliedvisiontec.box.com/avt-imagej-plugin

The installer of the ImageJ Plugin contains all components needed to operate Bigeye cameras under ImageJ (including an ImageJ version and a Java Runtime Environment if one of these is not installed).

Source code

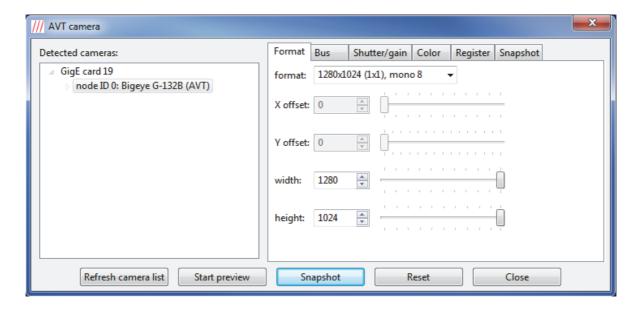


Figure 1: ImageJ Plugin - Allied Vision camera control dialog

For programmers who would like to modify the plugin, the source code including compiling instructions is provided: https://alliedvisiontec.box.com/avt-imagej-plugin



Installation

The installer for the ImageJ Plugin contains all components needed to operate Bigeye-G cameras under ImageJ. If you have already installed a suitable ImageJ or Java version, that version will be used. If not, the installer will install an ImageJ Plugin-compatible version automatically.

Caution

If you have installed a previous version of the ImageJ Plugin, please uninstall it before installing a newer version.

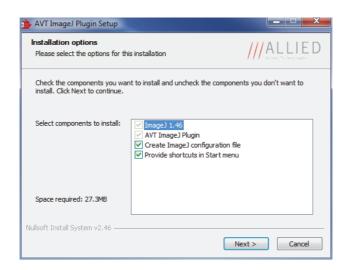


Figure 2: Installation options

To install the software, please follow the instructions provided during the Installation process.



Usage

After a successful installation, the ImageJ Plugin is available via the ImageJ menu bar under: File → Import → AVT Camera (see)

The **AVT camera** control dialog will be opened (see Figure 1 on page 2) by that menu item. This dialog enables to select the desired Allied Vision camera connected to your system and to control the corresponding features provided by the camera.

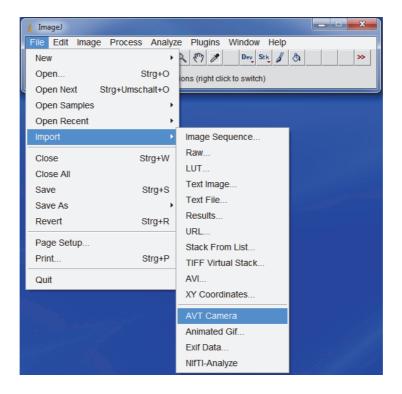


Figure 3: Location of the ImageJ Plugin in the ImageJ menu bar

Note



To learn more about the available camera features in the Allied Vision camera control dialog, please refer to the corresponding camera manual.



Furthermore, there is an *Allied Vision Debayering Filter* installed with the ImageJ Plugin. You can find it in the menu bar at **Plugins** \rightarrow **Filters** \rightarrow **AVT Debayering.**

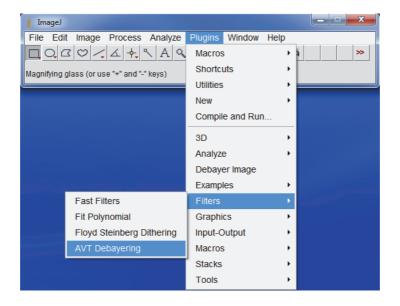


Figure 4: Location of the Allied Vision Debayering filter in the ImageJ's menu bar

Note

The Allied Vision Debayering plugin can only be used with Allied Vision color cameras.





For technical support, please contact support@alliedvision.com. For comments or suggestions regarding this document, please contact info@alliedvision.com.

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