

Import raw image (ImageJ, Matlab)  
*C-RED 2, C-RED 2 ER, C-RED 2 Lite and C-RED 3*

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Glossary

- **HDR:** High Dynamic Range
  - **ADU:** Analog Digital Unit
  - **HG:** High Gain
  - **LG:** Low Gain
  - **ADC:** Analog to Digital Converter
- **NUC:** Non Uniformity Correction
  - **IWR:** Integrate While Read
  - **ITR:** Integrate Then Read
  - **FPS:** Frames Per Second
  - **CDS:** Correlated Double sample

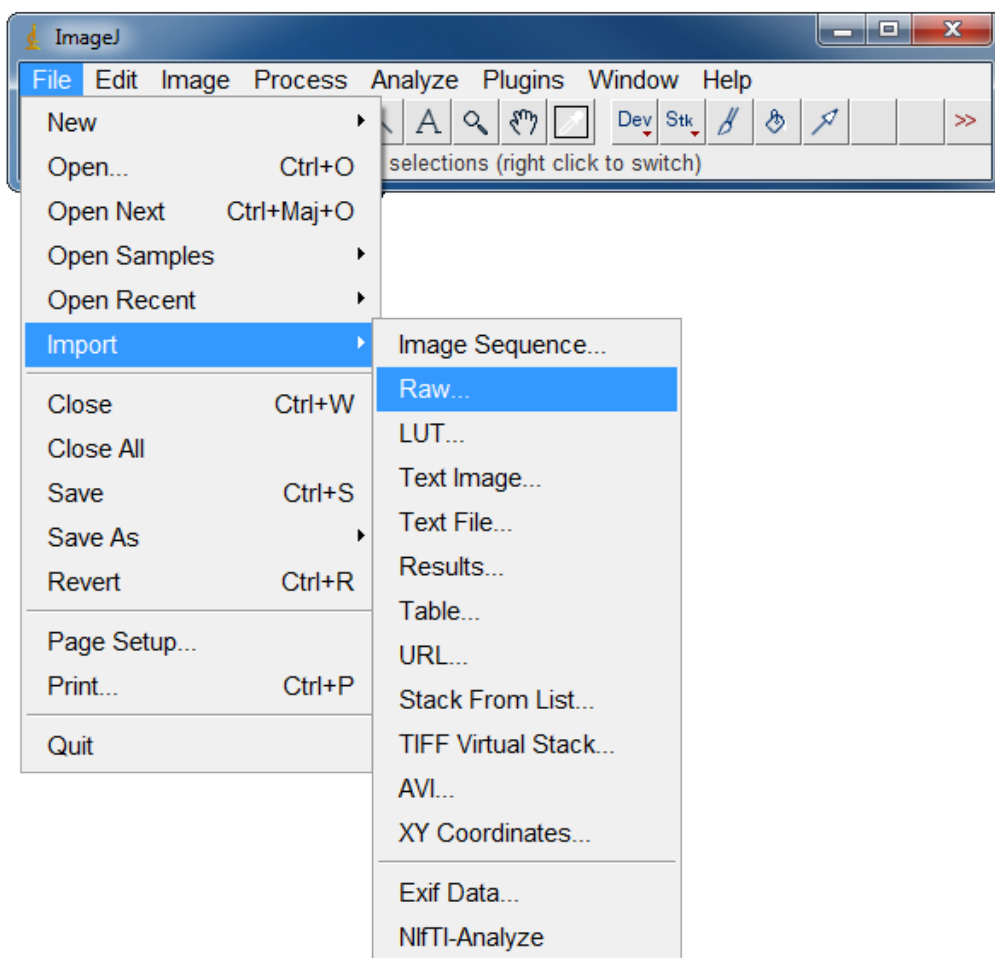


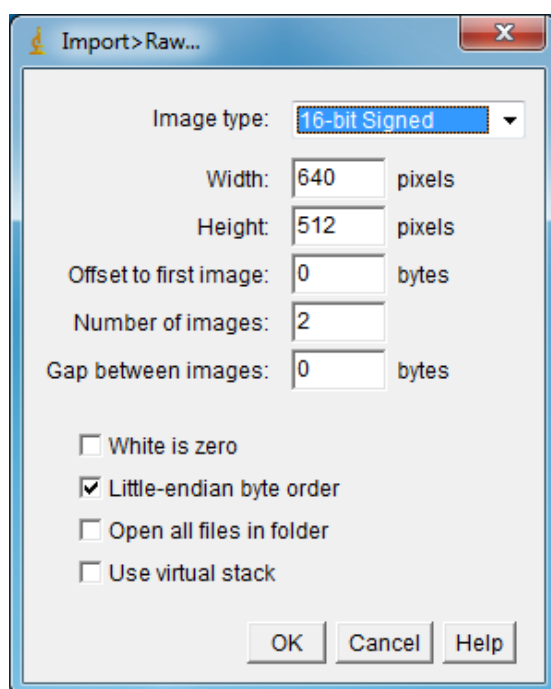
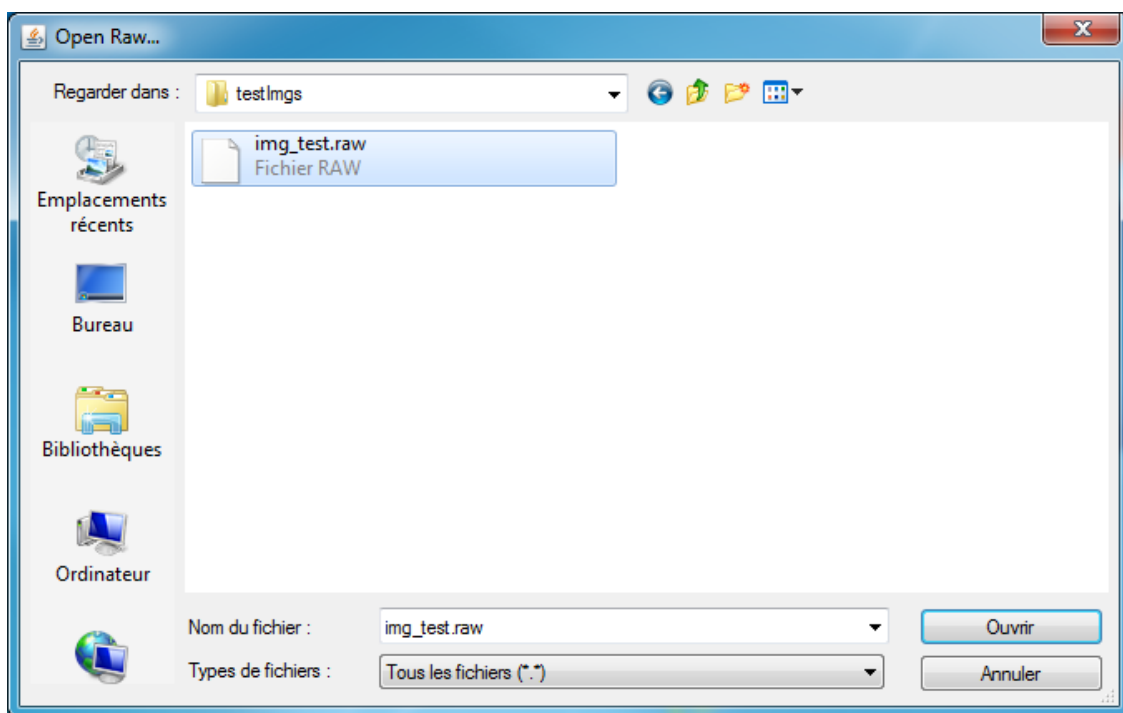
## 1. Introduction .....

The purpose of this note is to provide an easy way to reload the raw images acquired with the C-RED 2, C-RED 2 ER, C-RED 2 Lite or C-RED 3 demo software. The process to save raw images is described in the camera Demo Software User Manual.

## 2. Loading raw image cube using ImageJ .....

Start ImageJ, then follow the steps below:





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**Note:** In the case of data acquired in cropping mode, please enter the width and height consequently to the window size used for the acquisition of the loading data.

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### 3. Loading raw image cube using MATLAB .....

Copy the code below in a .m file called read\_cube\_selectcred2.m

```
function B=read_cube_selectcred2(full_image_name,width,height,nbImages)

size=nbImages*width*height;

fileID=fopen(full_image_name);

B=fread(fileID,size,'int16');

B=reshape(B,width,height,[]);

B = permute(B,[2 1 3]);

end
```

Then, from your MATLAB code, you will be able to call the function and get the image cube in B variable.

```
B=read_cube_selectcred2('img_test.raw',640,512,2);
```

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**Note:** If images in raw file are cropped, adjust width and height.

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