



Ann Arbor Digital Devices, Inc.

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Chelsea, MI 48118

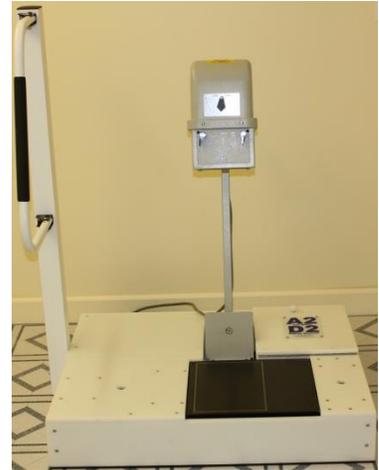
(734) 730-2232 Fax (734) 475-3114

www.a2d2xray.com

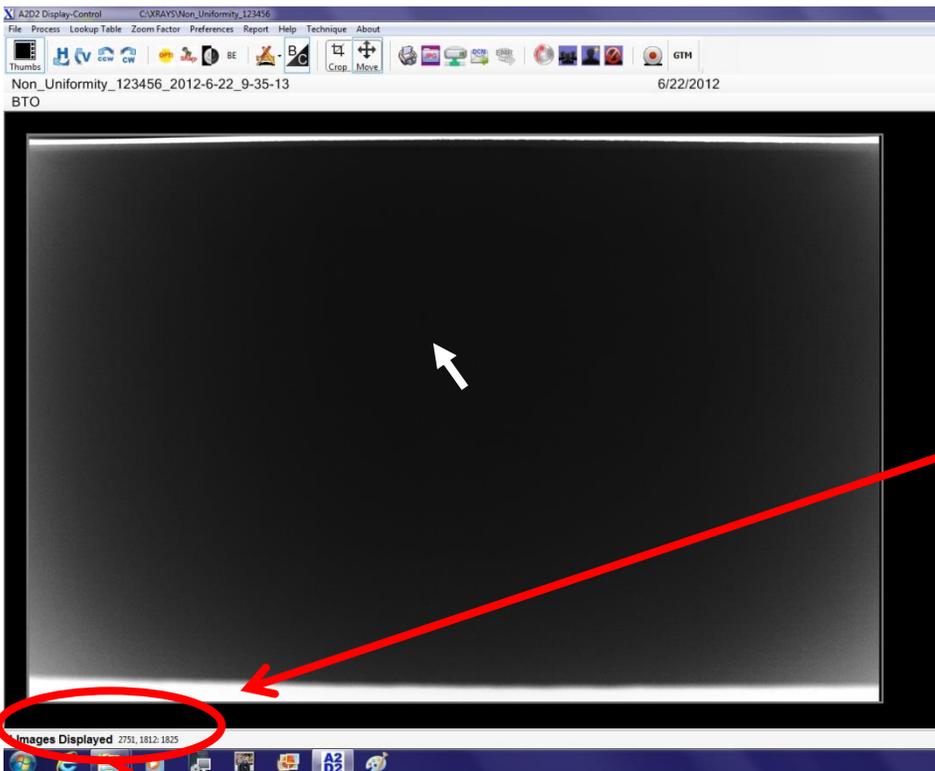
a2d2help@gmail.com

Using the Non Uniformity Program

The imager should be in the DP position with the arm straight up, the imager must be clear with no markers or other obstructions



In the A2D2 software create a new patient folder with a generic name for storing the images (here the name Non Uniformity was used) and take a flat field X-Ray starting with the normal technique

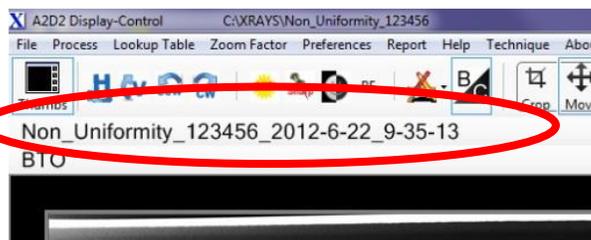


Place the mouse cursor in the center of the image to check the exposure of the X-Ray

In the bottom left hand corner of the A2D2 window is a series of 3 numbers. The first 2 numbers are grid coordinates and the third number will be the exposure level

That exposure level wants to be close to but below 2000, if the number is too high or too low change the technique and take another X-Ray

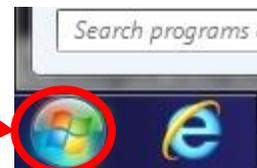
Before launching the Non Uniformity Program record the full name of the X-Ray with the appropriate exposure that was just taken



If there is a Green Rectangle icon on the desktop double click on it to launch the Non Uniformity Program



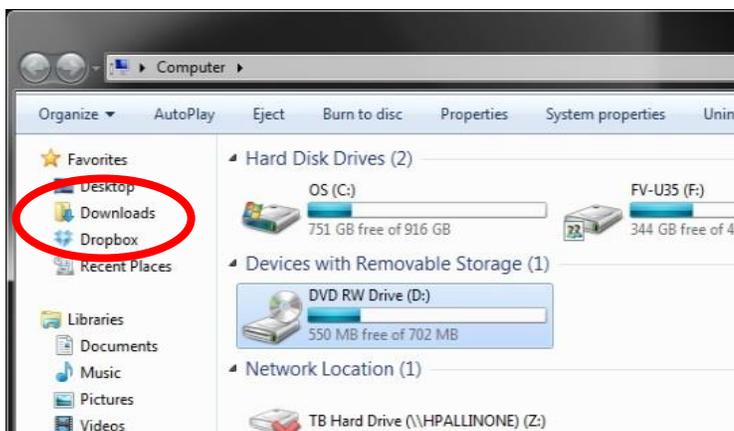
If there isn't an icon on the desktop click on the windows flag



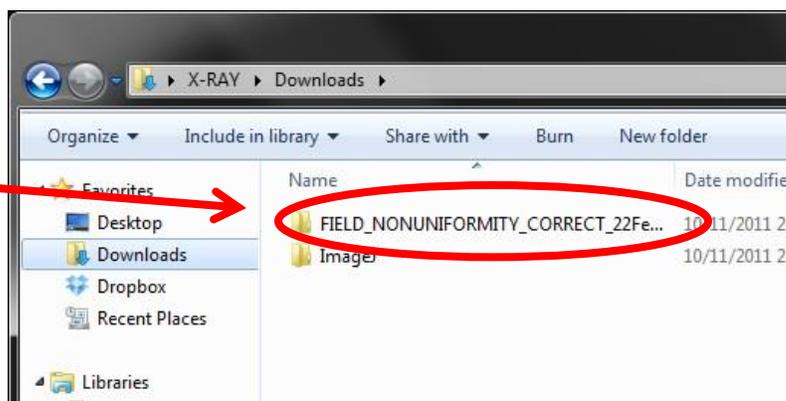
Click on "Computer"



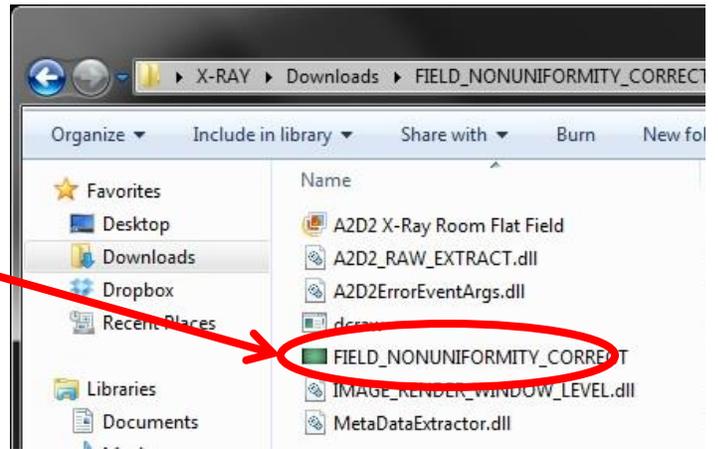
In the "Computer" window click on "Downloads"



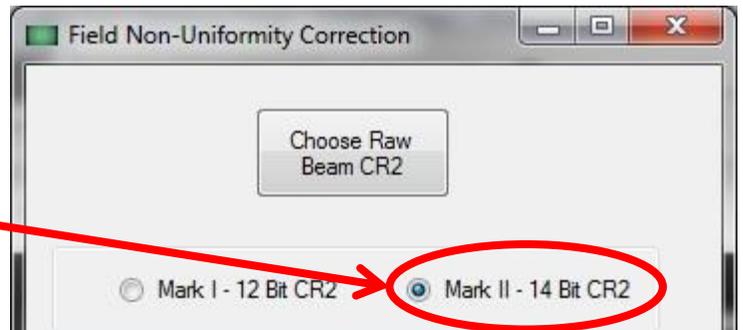
In the "Downloads" window double click on the "FIELD_NONUNIFORMITY_" folder



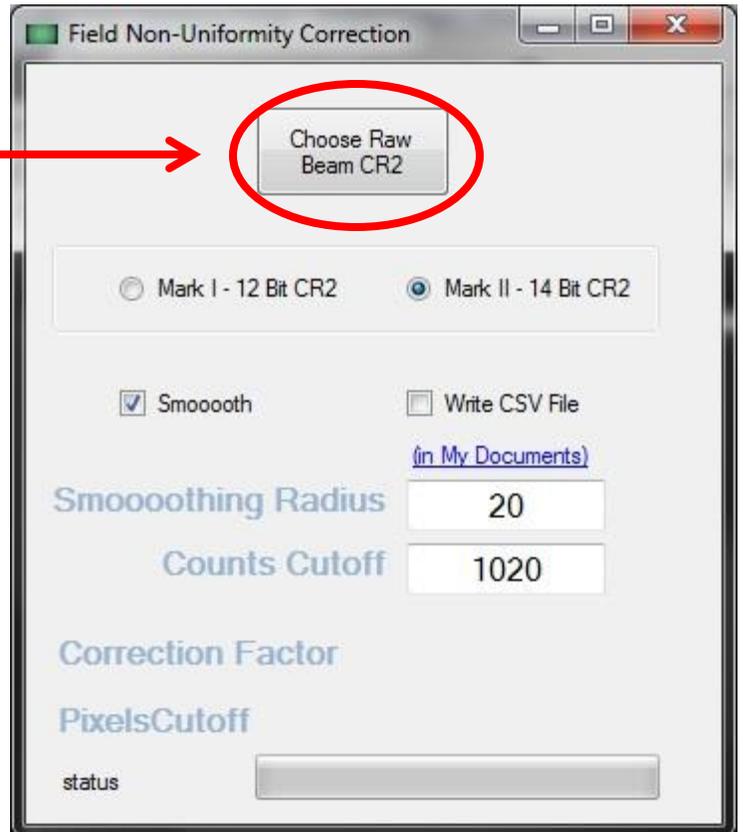
In the “NONUNIFORMITY” folder double click on the green rectangle icon to launch the program



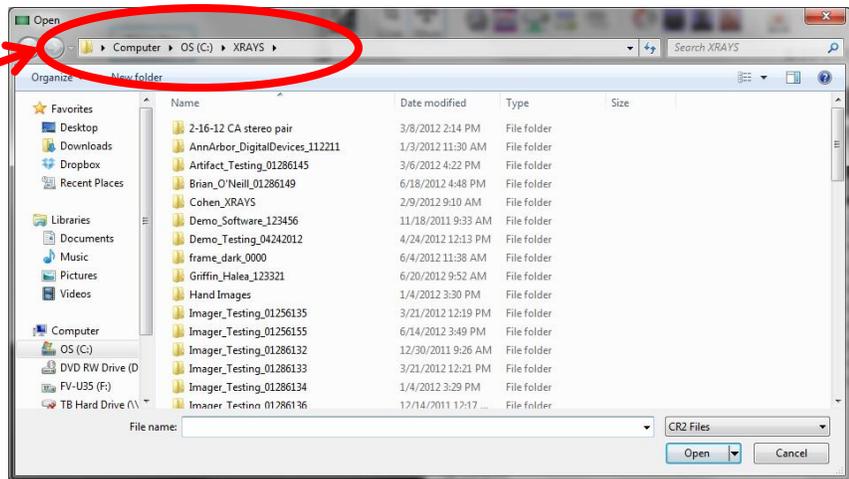
Once the Non Uniformity program launches make sure the button next to “Mark II – 14 Bit CR2” is selected (Use the “Mark I – 12 Bit CR2” button if your imager is a 12 MP version)



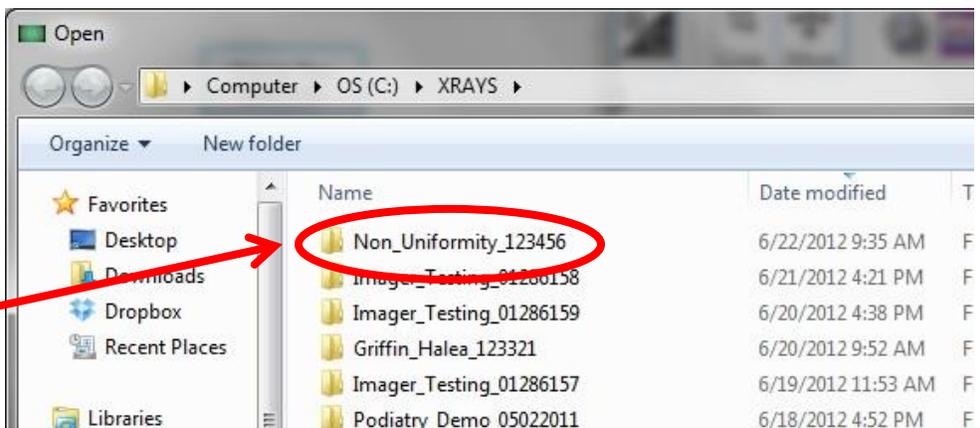
Click on the “Choose Raw Beam CR2” button



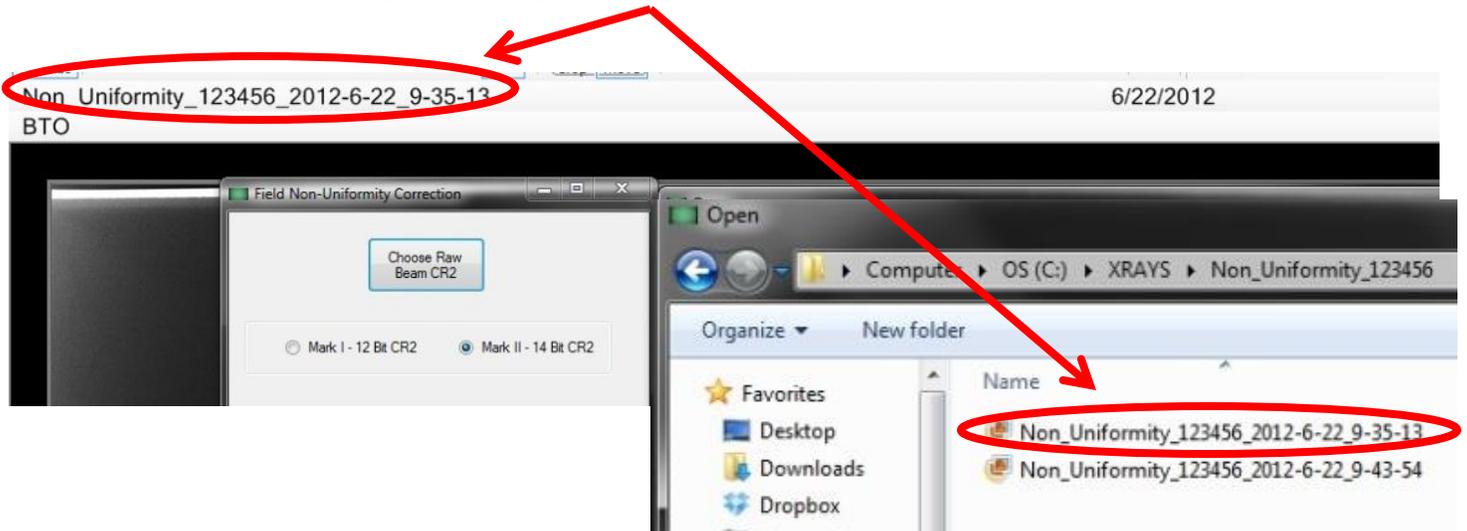
The program will default to the “XRAYs” folder on the “C” drive of the computer so it might be necessary to navigate through the network to the correct “XRAYs” folder depending on how the network is configured



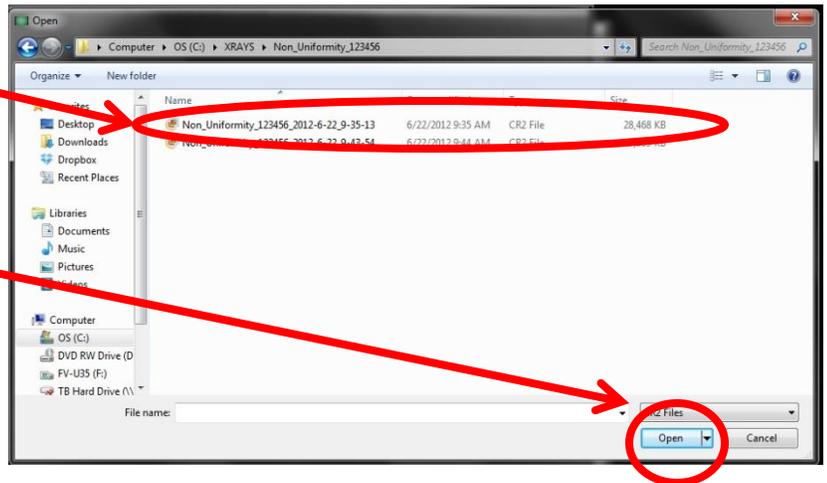
Once the correct “XRAYs” folder is located, a single click on “Date modified” at the top of the window will reorganize the patient folder so the most recent modified will be on top, this the folder where the flat field X-Ray was taken should be on top or close below, double click on the folder to find the correct file



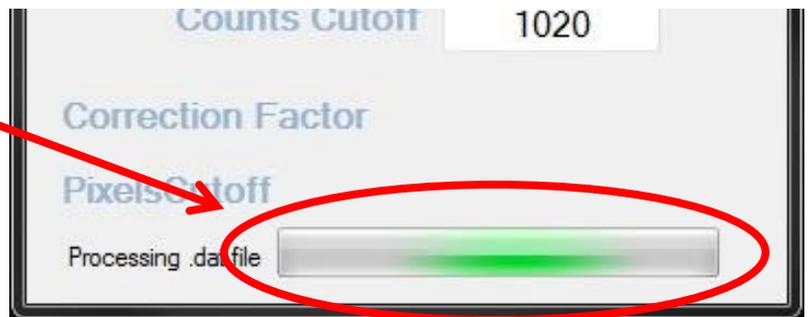
Locate the correct file by matching the name that was recorded earlier



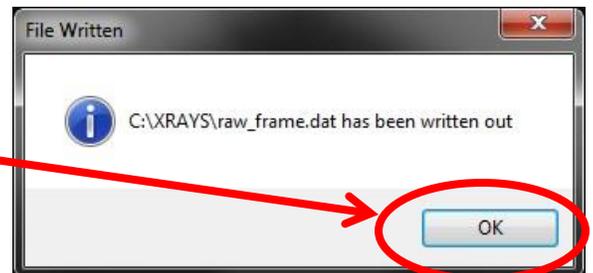
Either double click on the file or single click on the file and click on the “Open” button to run the program



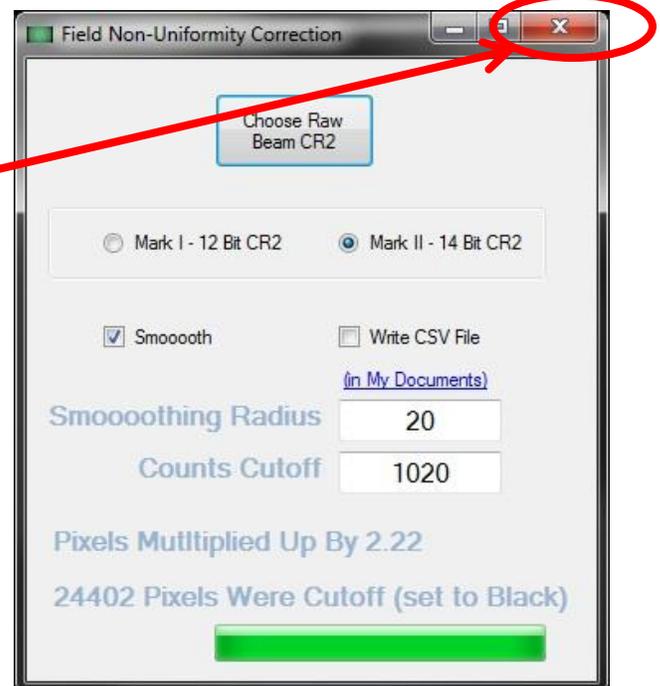
A progress bar at the bottom of the program window will indicate that the program is running



A message box will pop up when the program is complete, click “OK” to close this message



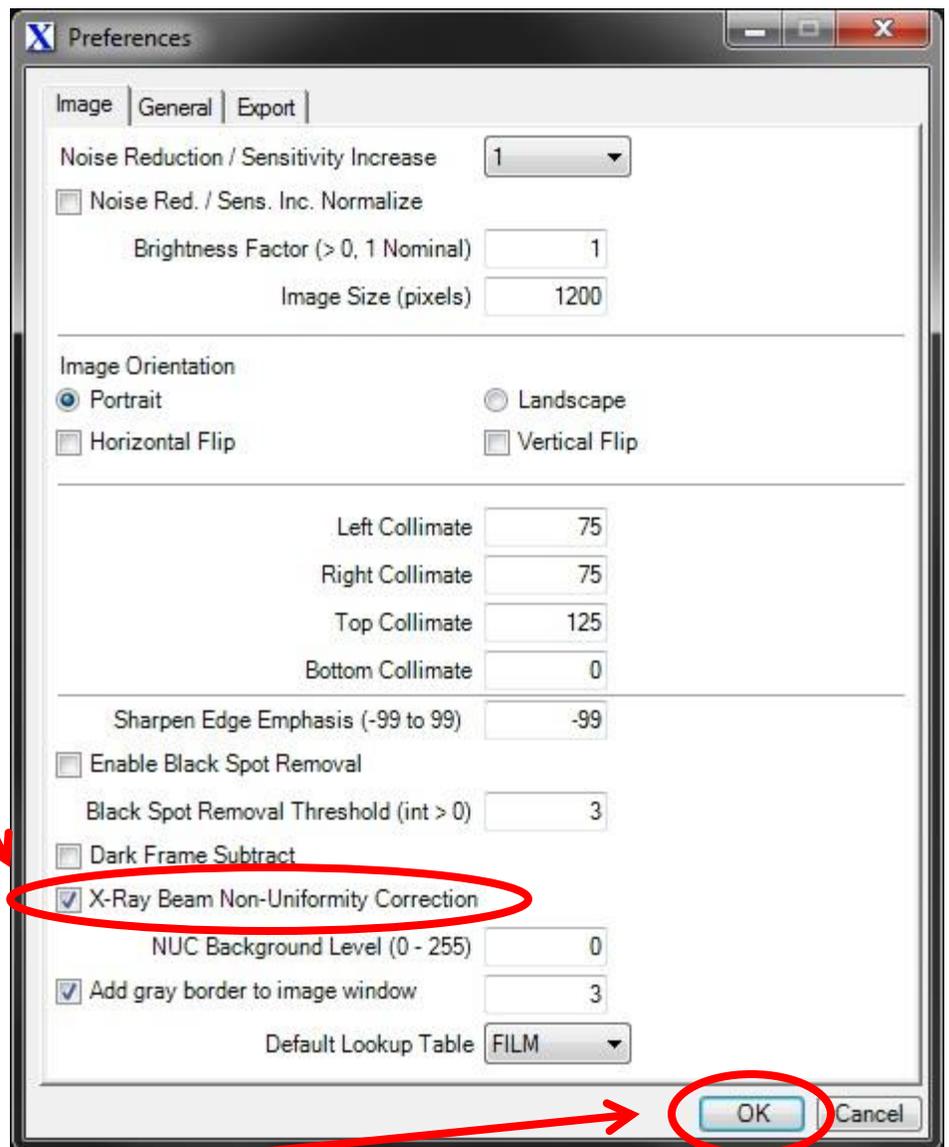
When the program is complete and the “raw_frame.dat” has been written the program can be closed by clicking on the “X” in the top right hand corner of the window



On the word toolbar at the top of the A2D2 window click on “Preferences” to open the preferences window



Click on the box next to “X-Ray Beam Non-Uniformity Correction” to apply this correction to X-Rays as they are opened



Click on “OK” to close the preferences window