

1. Prerequisites for Deployment

- MATLAB Compiler

Verify the MATLAB Compiler Runtime (MCR) is installed and ensure you have installed version 8.1 (R2013a).

You can choose and download the Windows 64-bit version of the MCR for R2013a (MCR_R2013a_win64_installer.exe) from the MathWorks Web site by navigating to:

<http://www.mathworks.com/products/compiler/mcr/index.html>

After you download it, run the MCR Installer (MCR_R2013a_win64_installer.exe).

NOTE: You will need administrator rights to run MCRInstaller.

- You need to have a .zip file with the same name as the name of the folder where your .DAT files are (the name of the star), so that the program can properly function.
Example: Your .DAT files are in folder "NSVS781878", inside this folder there should be a "NSVS781878.zip" file as well as all your .DAT files, and you should pick the folder "NSVS781878" when the program prompts you to choose the folder where your .DAT files are.

2. How does SpectraView 2.0 do? does SpectraView 2.0 work:

- 1) This program creates .PNG and .EPS files from the data, provided in your .DAT files
- 2) The Phase is set to 8 hours
- 3) The individual period of observation for each .DAT file is set to 15 minutes
- 4) The program creates .PNG and .EPS files with a figure, where:
 - (Ox) represents the Phase [0,1]
 - (Oy) represents the Velocity [-400,400]
- 5) No additional contrast is applied in the resulting figure.

3. How does SpectraView 2.0 work?

- 1) Extract the file "SpectraView2.zip" to a directory of your choice
- 2) Run the file "SpectraView2.exe", which can be found in both subfolders of the folder, where you extracted the file "SpectraView.zip"
- 3) The program will prompt you to select the directory, where all your .DAT files are located
- 4) You will then be asked to choose a contrast coefficient, ranging from 0.1 to 0.9 (0.5 by default), which is responsible for the amount of the non-essential data that is OK to be left out of the final figure, which in return allows the program to finish it's task sooner.

NOTE: The higher the contrast coefficient is, the longer the program needs to work to finish the job. Contrast coefficient of 0.5 is optimal. Anything higher than that may cause your computer to need more than a day to complete the task and anything lower than that may cause a loss of essential data in the final figure.

5) You will then be asked to choose a shadow coefficient, ranging from 0.01 to 0.99 (0.35 by default), which is responsible for the amount of “shadowing” the data thus making some important aspects of the figure more visible when needed.

6) Then SpectraView 2.0 starts to process the .DAT files, showing you the current progress of task with the loading window and the current figure with all the processed data.

7) When the program completes the task, your .PNG and .EPS files will be created in the same directory where your .DAT files are located and the file names of the .PNG and .EPS files will be displayed in a window as well as the directory they are created in.

NOTE: If the files already exist in this directory, they will be overwritten.