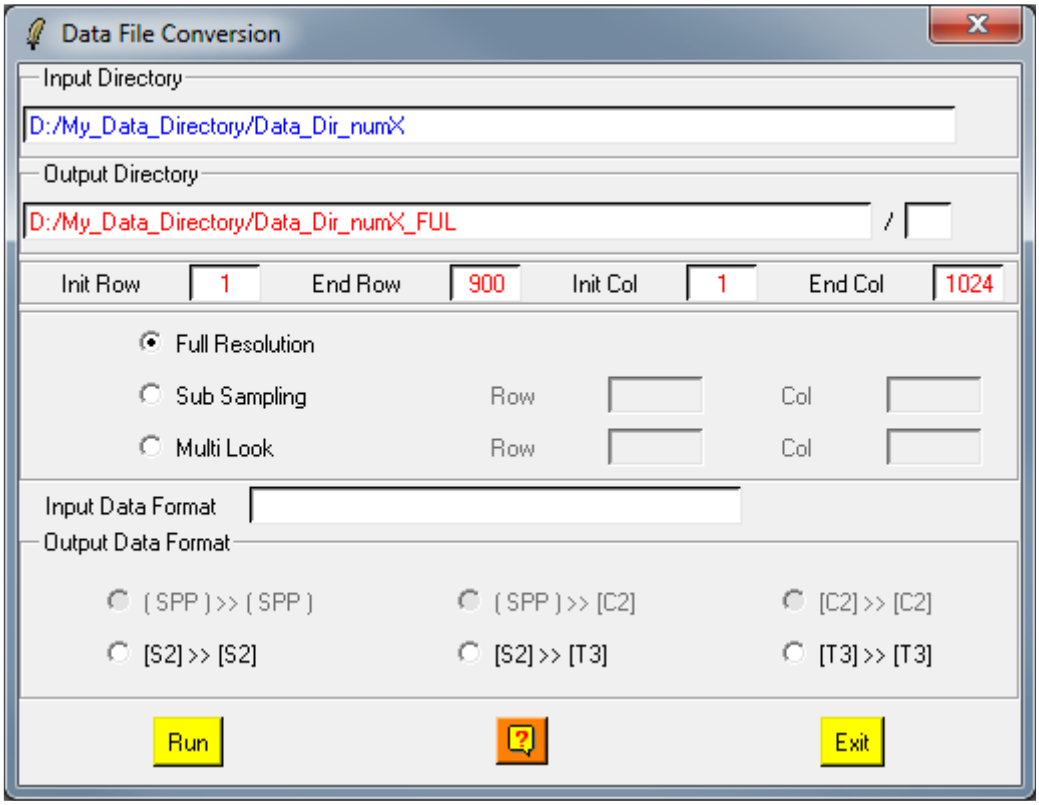
Data Convert



Description:

This Application is used to convert raw binary data from a standard polarimetrix format (**(Sxx, Sxy), [S2], [T3], [C2]**) to another one.
It is possible to extract the full image or a sub-part of it, and to apply or not a sub-sampling or multilooking operation.

Comments:

Parameters written in Red can be modified directly by the user from the keyboard.

Input/Output Arguments:

Input Directory	Indicates the location of the considered **Main Directory (MD)** containing the data files to be converted.
Output Directory	Indicates the location of the converted data output directory.

Output Image Number of Rows/Columns:

The output image numbers of rows and columns are initialised to the input data set

dimensions.
Users wishing to process a sub-part of the initial image can modify the **Init** and **End** values of the converted images rows and columns.
Note: init and end values have to remain within the range defined by the input image dimensions.

Processing Parameters:

Full Resolution This corresponds to a one-to-one conversion without applying any data averaging.
The extracted raw binary data has the same size than the source raw binary data.

Sub Sampling This selection offers the possibility to perform a sub-sampling operation during the conversion of the polarimetric data files.

Multi Look This selection offers the possibility to perform an incoherent multilooking operation during the conversion of the polarimetric data files.

Output Data Format:

According to the input data format, indicated in the widget, different compatible output data formats are proposed according the following table:

Processing Input Data Format	Full Resolution Sub Sampling	Multi Look
(2x2) Sinclair matrix [S2]	[S2], [T3	[T3]
(3x3) Coherency matrix [T3]	[T3]	[T3]
Dual Polarimetric Elements (Sxx, Sxy)	(Sxx, Sxy), [C2]	[C2]
(2x2) Covariance matrix [C2]	[C2]	[C2]

By ticking the appropriate box, users may indicate PolSARpro to toggle between these binary data formats before converting the polarimetric data files.

Note: In order to have a complete descrition of the different polarimetric standard data formats compatible, open the help file *Standard Data Format* in the PolSARpro Main Menu