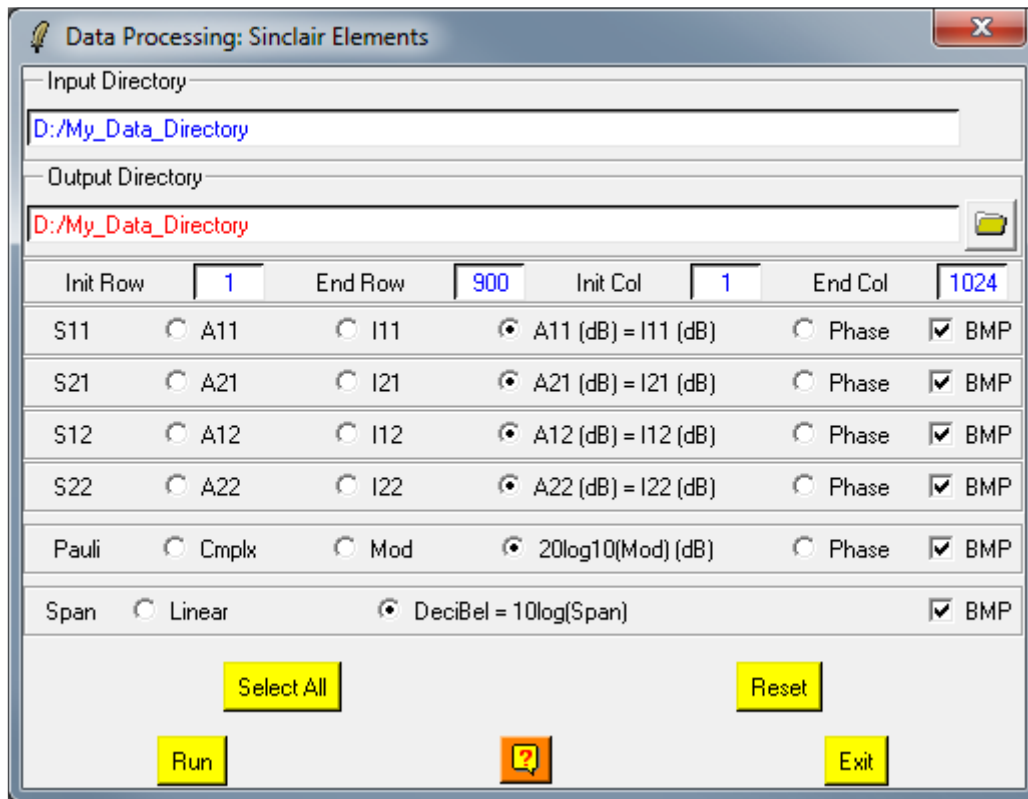


## Sinclair Elements Processing



**Data Processing: Sinclair Elements**

Input Directory:

Output Directory:

Init Row:  End Row:  Init Col:  End Col:

S11	<input type="radio"/> A11	<input type="radio"/> I11	<input checked="" type="radio"/> A11 (dB) = I11 (dB)	<input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
S21	<input type="radio"/> A21	<input type="radio"/> I21	<input checked="" type="radio"/> A21 (dB) = I21 (dB)	<input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
S12	<input type="radio"/> A12	<input type="radio"/> I12	<input checked="" type="radio"/> A12 (dB) = I12 (dB)	<input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
S22	<input type="radio"/> A22	<input type="radio"/> I22	<input checked="" type="radio"/> A22 (dB) = I22 (dB)	<input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
Pauli	<input type="radio"/> Cmplx	<input type="radio"/> Mod	<input checked="" type="radio"/> 20log10(Mod) (dB)	<input type="radio"/> Phase	<input checked="" type="checkbox"/> BMP
Span	<input type="radio"/> Linear	<input checked="" type="radio"/> DeciBel = 10log(Span)			<input checked="" type="checkbox"/> BMP

Buttons: **Select All**, **Run**, **Reset**, **Exit**

### Description:

Creates binary files corresponding to the modulus and argument of the (2x2) complex Sinclair [S2] raw binary data.  
An option may be set to simultaneously create the corresponding bitmap image files.

### Comments:

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

### Input/Output Arguments:

**Input Directory** Indicates the complete location of the considered **MainDirectory (MD)** containing the (2x2) complex Sinclair [S2] raw binary data to be processed.

**Output Directory** Indicates the location of the processed data output directory.  
The default value is set automatically to the **MainDirectory (MD)**.

## 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.

## Selection of the Channels to be Processed:

Several channels may be processed at a time. The selection of the BMP options enables the creation of output bmp files.

Users may choose between four types of output binary data :

- **Aij** : Linear representation of the considered complex element amplitude.  
Output file name : Aij.bin (.bmp)
  - **Iij** : Linear representation of the considered complex element intensity.  
Output file name : Iij.bin (.bmp)
  - **Aij (dB) = Iij (dB)** : Element amplitude in dB =  $10\log_{10}(Iij) = 20\log_{10}(Aij)$ . Output file name : Iij\_dB.bin (.bmp)
  - **Phase** : Argument of the considered complex element. Output file name : Sij pha.bin (.bmp)
- 
- **Span** : correspond to the sum of the four intensities, may also be processed (linear and dB) using this program.
-