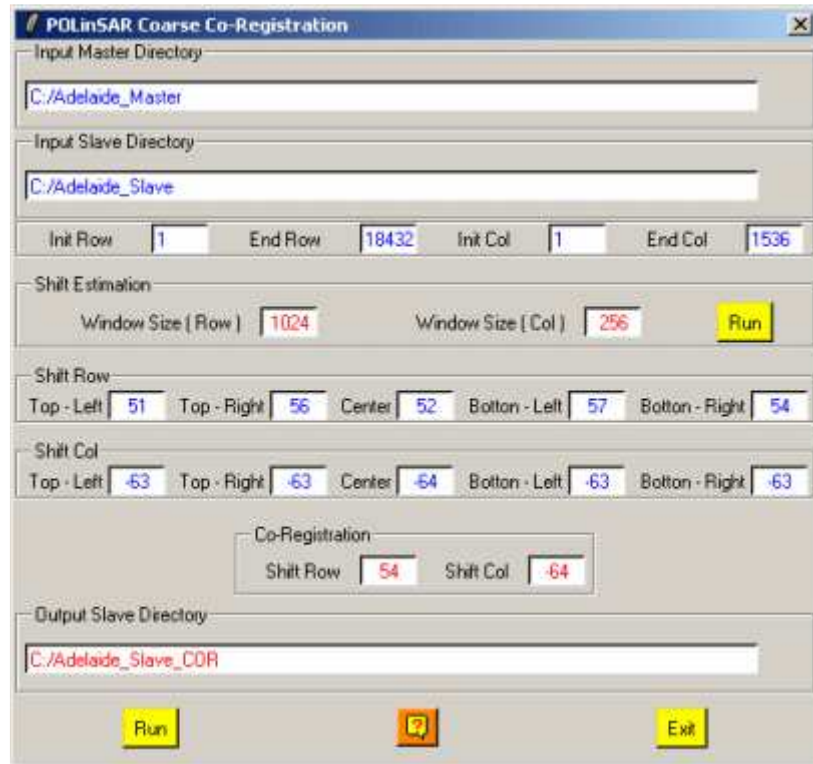


## Coarse Coregistration



The screenshot shows the 'POLinSAR Coarse Co-Registration' window. It contains the following fields and controls:

- Input Master Directory:** C:/Adelaide\_Master
- Input Slave Directory:** C:/Adelaide\_Slave
- Init Row:** 1, **End Row:** 18432, **Init Col:** 1, **End Col:** 1536
- Shift Estimation:**
  - Window Size (Row):** 1024 (red)
  - Window Size (Col):** 256 (red)
  - Run** button
- Shift Row:**
  - Top - Left:** 51
  - Top - Right:** 56
  - Center:** 52
  - Bottom - Left:** 57
  - Bottom - Right:** 54
- Shift Col:**
  - Top - Left:** -63
  - Top - Right:** -63
  - Center:** -64
  - Bottom - Left:** -63
  - Bottom - Right:** -63
- Co-Registration:**
  - Shift Row:** 54 (red)
  - Shift Col:** -64 (red)
- Output Slave Directory:** C:/Adelaide\_Slave\_COR
- Run** button, **Help** icon, and **Exit** button at the bottom.

### Description:

This function applies a spectral analysis to estimate the shift, in rows and cols, between the **2 x (2x2)** complex Sinclair [S2] raw binary data elements. The Coarse Interferometric Coregistration is based on amplitude correlation, using five patches over the image (Top-Left, Bottom-Left, Center, Top-Right, Bottom-Right). This function then applies the coarse coregistration on the (2x2) complex Slave Sinclair [S2] raw binary data elements.

### Comments:

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

### Input/Output Arguments:

<b>Input Master Directory</b>	Indicates the location of the considered <b>Master Main Directory (M-MD)</b> containing the polarimetric data sets to be processed.
<b>Input Slave Directory</b>	Indicates the location of the considered <b>Slave Main Directory (S-MD)</b> containing the polarimetric data sets to be processed.

## 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.

## Shift Estimation:

**Window Size Row** Users have to set the size of the analysis window along the **Row direction** used to compute the shift estimation.

The default value is set to **1024**.

**Window Size Col** Users have to set the size of the analysis window along the **Col direction** used to compute the shift estimation.

The default value is set to **256**.

## Shift Row / Shift Col:

Display the results of the shift estimation over the five patches used during the spectral analysis

## Co-Registration:

**Shift Row** Users have to set the value of the shift along the **Row direction** that will be used during the coarse coregistration procedure.  
The default value is set to the mean value between the estimated values over the five patches.

**Shift Col** Users have to set the value of the shift along the **Col direction** that will be used during the coarse coregistration procedure.  
The default value is set to the mean value between the estimated values over the five patches.

## Input/Output Arguments:

**Output Slave Directory** Indicates the location of the processed data output directory.  
The default value is set automatically to :  
**Slave-MD\_COR (S-MD\_COR)**.

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