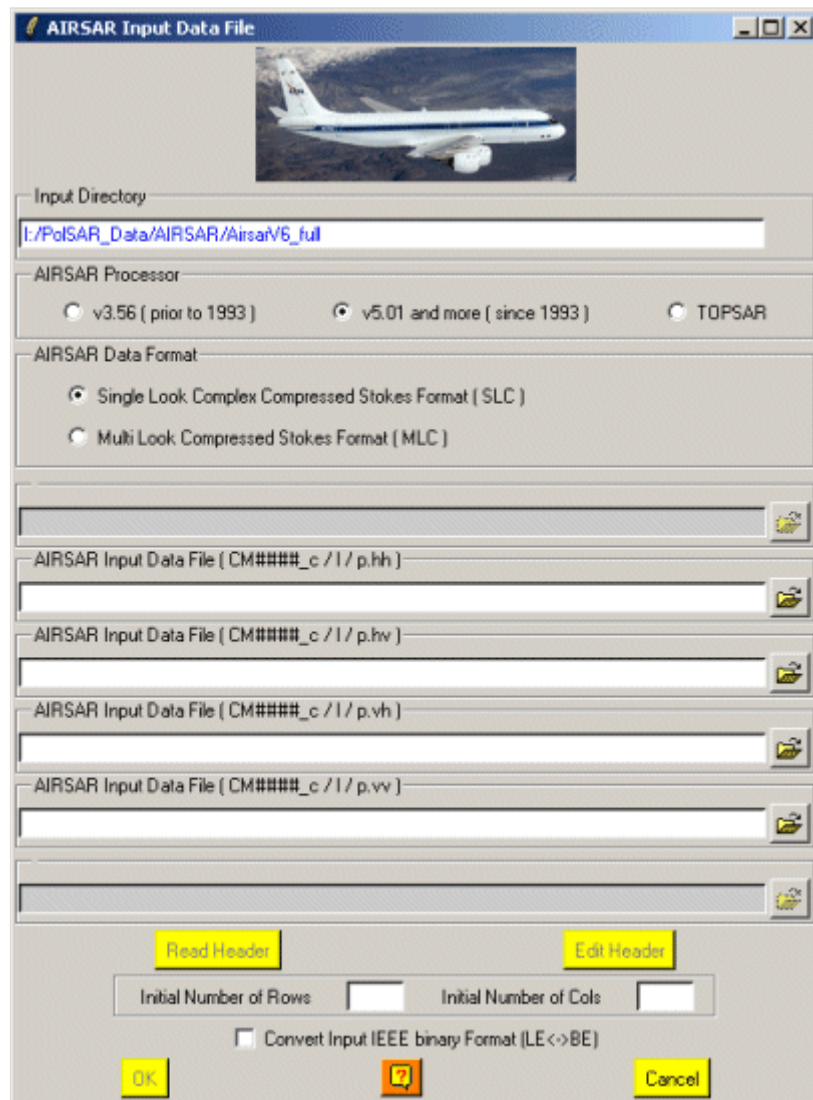


## AIRSAR Input Data File



The screenshot shows the 'AIRSAR Input Data File' dialog box. It features a title bar with standard window controls. Below the title bar is a small image of an aircraft. The main area contains several sections: 'Input Directory' with a text field showing 'I:/PolSAR\_Data/AIRSAR/AirsarV6\_full'; 'AIRSAR Processor' with three radio buttons ('v3.56 (prior to 1993)', 'v5.01 and more (since 1993)', and 'TOPSAR'); 'AIRSAR Data Format' with two radio buttons ('Single Look Complex Compressed Stokes Format (SLC)' and 'Multi Look Compressed Stokes Format (MLC)'); and five 'AIRSAR Input Data File' sections, each with a text field and a browse button. At the bottom, there are 'Read Header' and 'Edit Header' buttons, two input fields for 'Initial Number of Rows' and 'Initial Number of Cols', a checkbox for 'Convert Input IEEE binary Format (LE<>BE)', and 'OK', 'Cancel', and a help button.

### Description:

This program sets and configures the main characteristics of the Input Data Files in order to convert polarimetric data sets encoded using the **AIRSAR** specific data format to PolSARpro compatible binary data.

### Comments:

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

## Input/Output Arguments:

<b>Input Directory</b>	Indicates the location of the considered <b>Main Directory (MD)</b> containing the AIRSAR data file to be converted.
<b>Processor</b>	Correspond to the AIRSAR Processor version
<b>Data Format</b>	<p>Correspond to the input AIRSAR data format.</p> <p>The denomination <b>SLC</b> stands for Single Look Complex (Sinclair [S2] matrix) and <b>MLC</b> stands for Multi Look Complex (Stokes matrix).</p> <p>By ticking the appropriate box, users may indicate PolSARpro to toggle between these two binary data formats before converting the polarimetric data files.</p>
<b>AIRSAR Input Data File</b>	Corresponds to the four polarimetric input AIRSAR format data files to be processed.
<b>CM####_c/l/p.xy</b>	The <b>CM</b> indicates that the data are SCATTERING MATRIX COMPRESSED = compressed single look polarimetric data. A four-digit output product number that is unique for each scene follows <b>CM</b> . The denomination <b>c/l/p</b> stands for the frequency band and <b>xy</b> for the polarimetric channel (hh, hv, vh or vv)

## Read/Edit Header:

<b>Read Header</b>	<p>Input Stokes data files may, or not, contain a header block describing some of the polarimetric data characteristics and particularly the number of rows and columns.</p> <ul style="list-style-type: none"><li>• If the input file contains a header, the <b>Initial Number of Rows and Columns</b> will be automatically initialised.</li><li>• If the input file does not contain a header, users have to provide the considered image <b>Initial Number of Rows and Columns</b>.</li></ul>
<b>Edit Header</b>	If the input file contains a header, users have the possibility to edit the different header of the input data file.

---