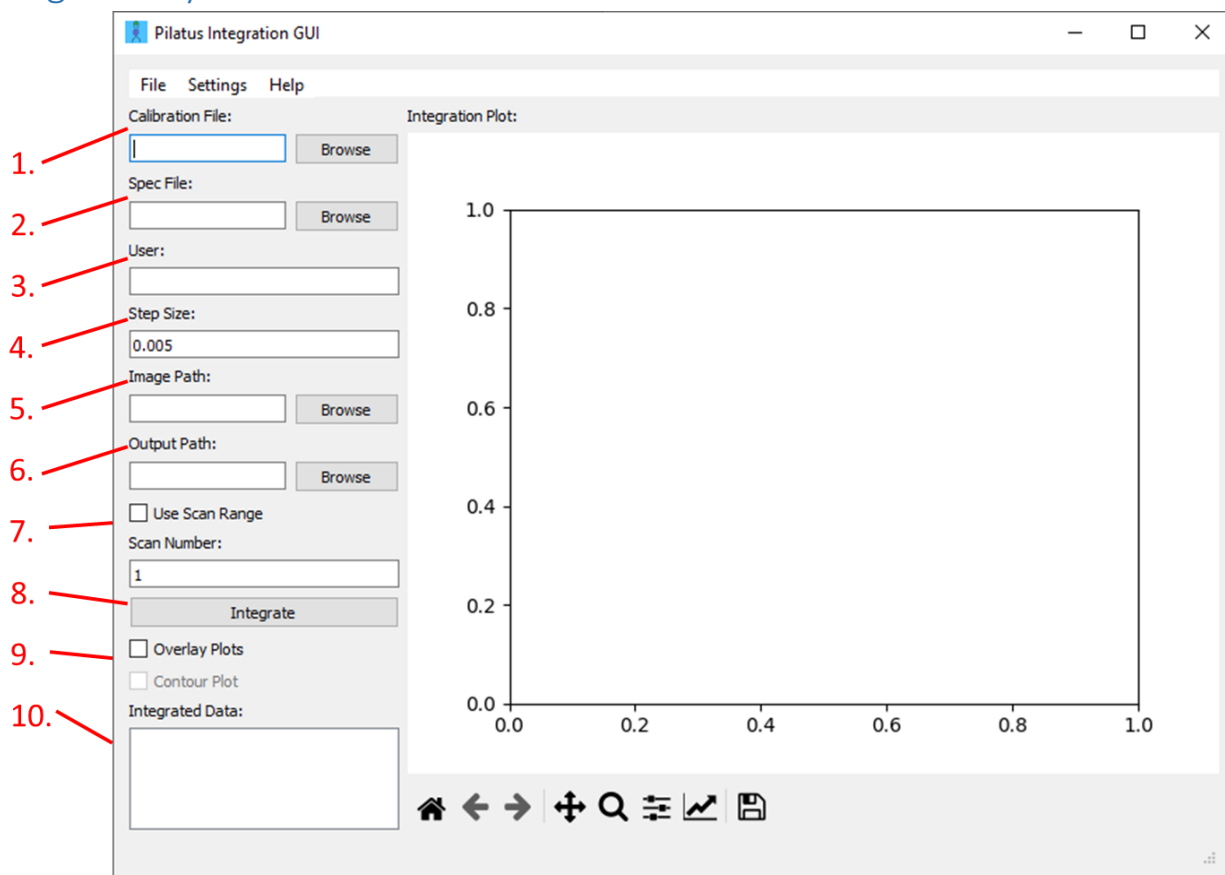# Pilatus Integration GUI

Program Layout:

1.   Field for selecting calibration file (.cal) to use for integration
2.   Field for selecting spec file (no extension)
3.   User name (automatically determined from spec file)
4.   Step size in 2-theta for binning of integrated data
5.   Path where Pilatus images can be found
6.   Path for saving integrated data (.xye format), defaults to the path for the spec
7.   Scan number within the spec file to integrate, the toggle button changes between single scans and a specified scan range suitable for *in situ* or *operando* data
8.   Integrate button, this begins the integration of the specified scan file
9.   Selection to overlay multiple data plots or to display as a contour plot (only if more than 4 plots are selected)
10.   List of available data for plotting, newly integrated data is automatically added to this list, if "overlay plots" or "contour plot" is selected, multiple items can be selected for display
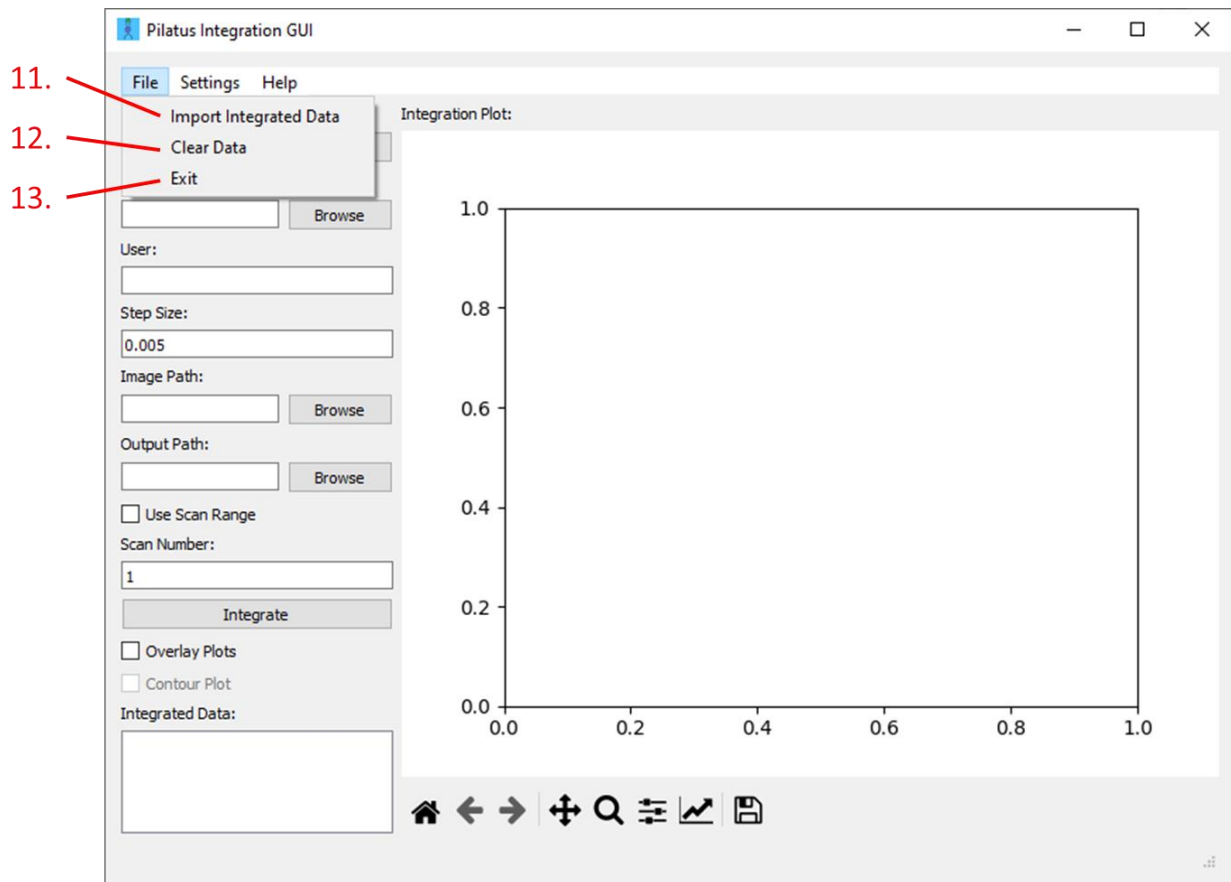
11. Import already integrated data (.xye format) to add to the list of "Integrated Data", multiple files can be imported at once
12. Will clear all data from the "Integrated Data" list but leave all other options ("calibration file", etc.) intact
13. Closes the program
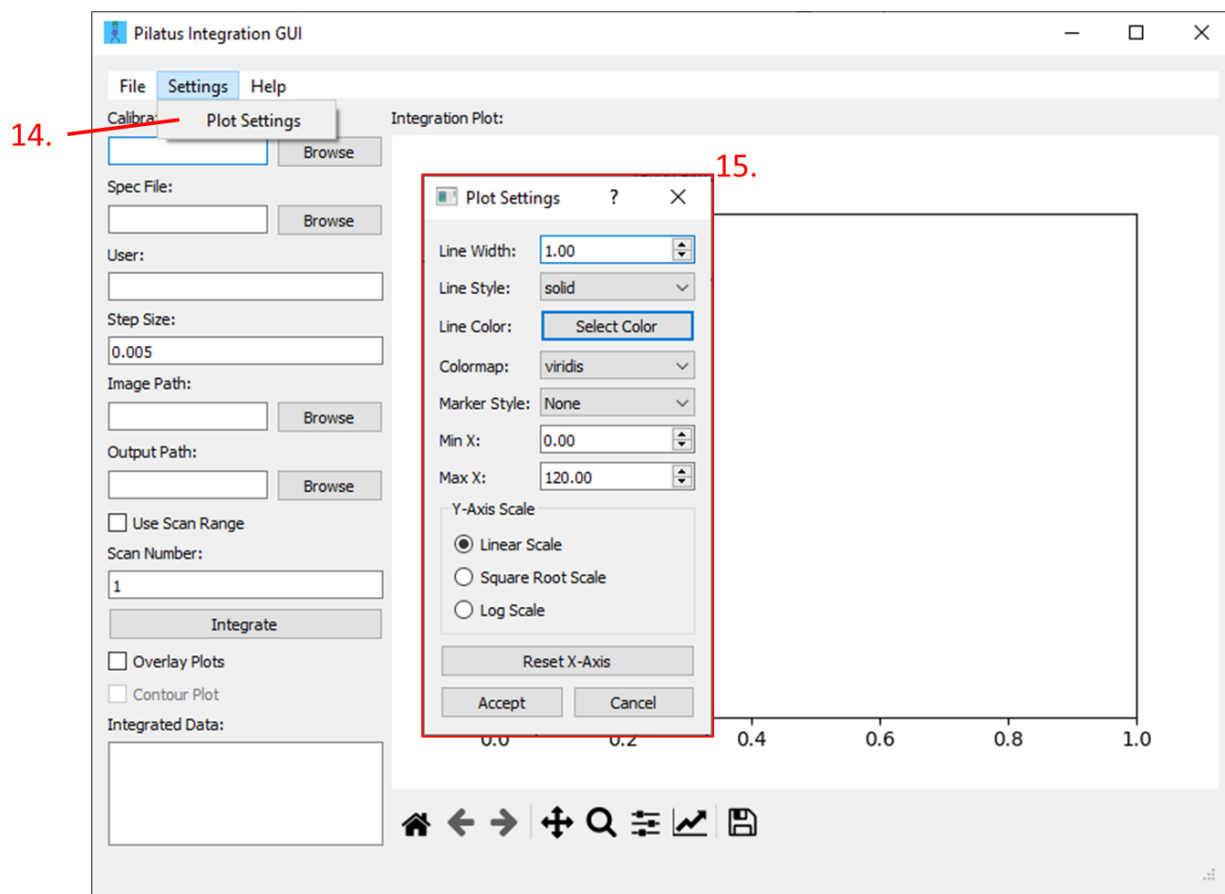
14. Opens the Plot Settings dialog box (15.)
15. Allows changes to the basic plot settings, including line width, line style, line color, color map (for contour plots), marker style for line plots, min and max 2-theta values, and options for scaling of the y-axis. Choosing "Accept" will accept and apply these changes.