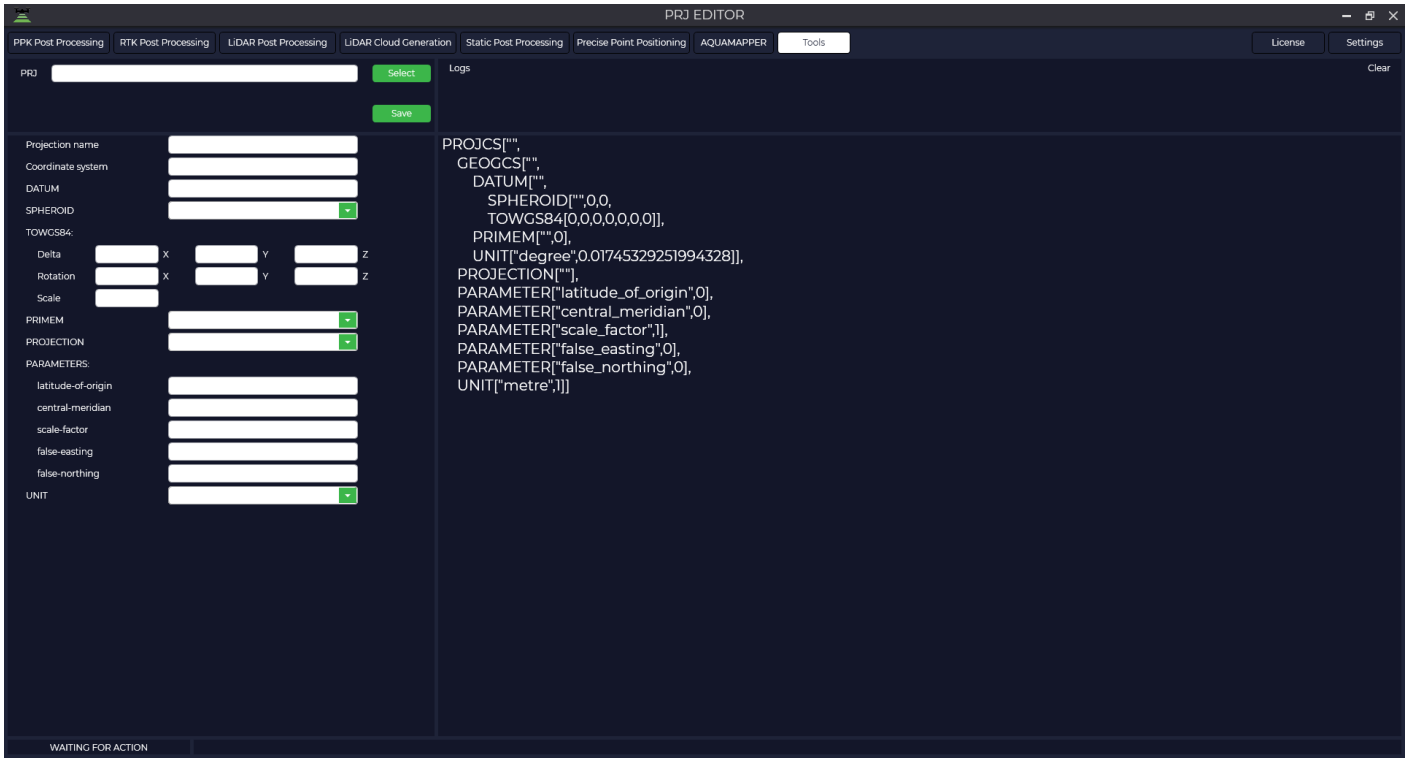
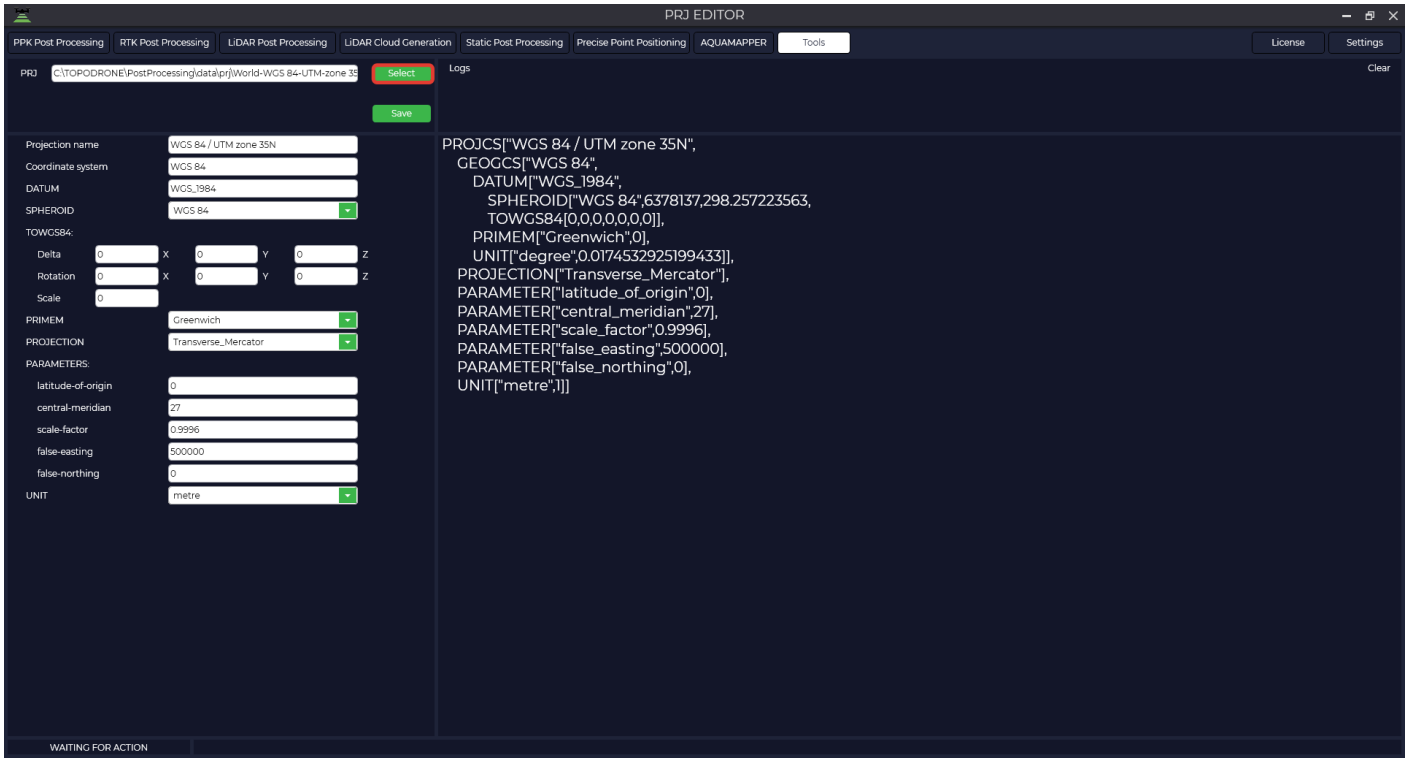
PRJ editor

PRJ Editor is a tool that allows you to edit the coordinate system knowing the transition parameters. In order to use it you need to select "PRJ Editor" in the Tools panel.



> Currently, a small amount of photogrammetry and laser scanning software supports affine transformations, so this tool does not support affine transformations in the same way.

In the window that opens, click the "Select" button and select the *.prj file you want to edit.

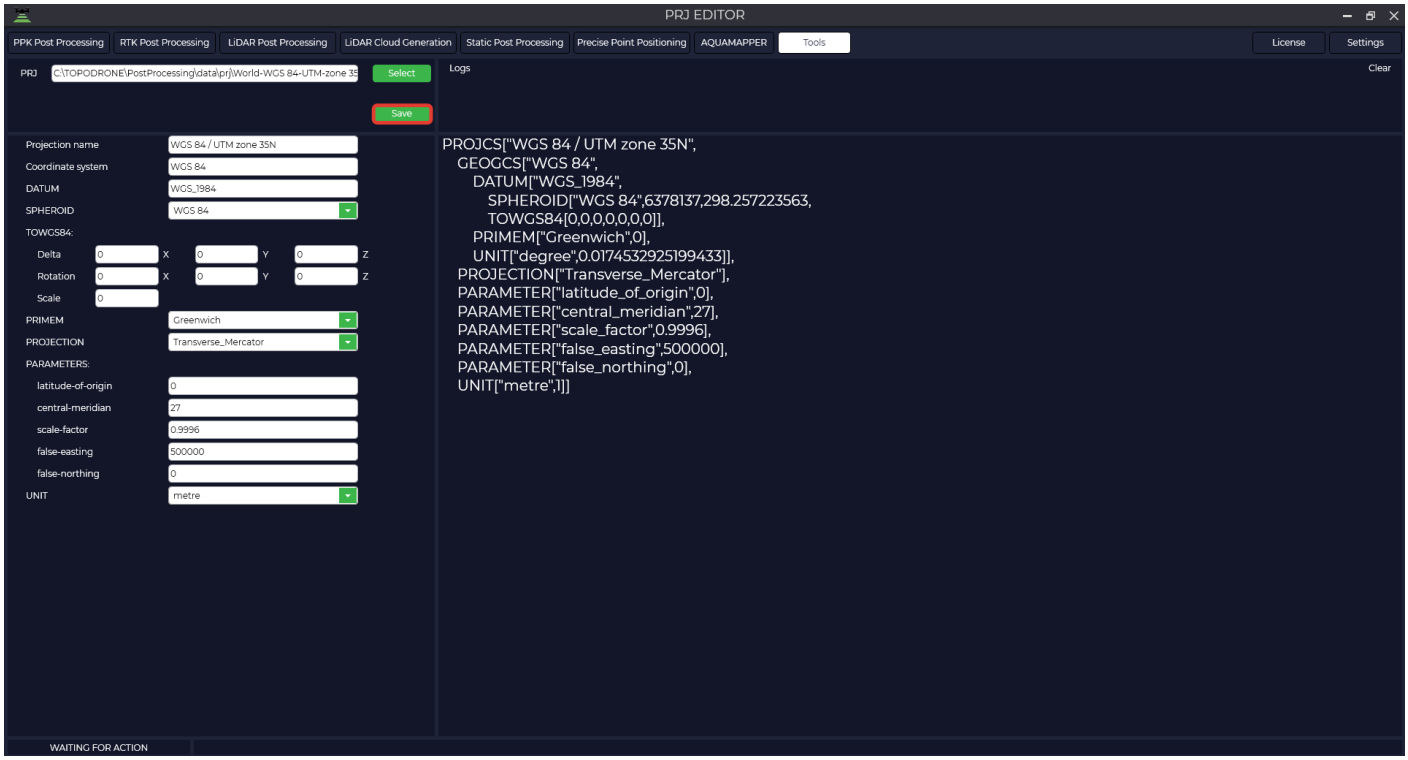


The table provides a description of the parameters

Projection name	WGS 84 / UTM zone 35N	Projection name
Coordinate system	WGS_1984	Name of coordinate system
DATUM	WGS_1984	Datum name
SPHEROID	WGS 84",6378137,298.257223563	Name of ellipsoid
TOWGS84		7 parameters of transition to WGS84
Delta	0,0,0	Displacement of the intermediate geocentric coordinate along the X, Y, Z axes. It is specified in meters, and the translation direction is indicated by the value sign.
Rotation	0,0,0	The amount of rotation about the X, Y, Z axes that applies to intermediate geocentric coordinates. It is specified in angular seconds, and the direction of translation is indicated by the sign of the value.

Scale	0	A scaling factor that applies to intermediate geocentric coordinates. The value is given in parts per million and is the difference between the actual scaling factor and one. For example, a scale parameter value of -2.5 gives an actual scale factor of 0.9999985. That is, the actual scale factor used is obtained by multiplying the parameter value by 1.0x10-06 and adding the result (algebraically) to 1.0.
PRIMEM	"Greenwich",0	Zero meridian, indicating the offset between the zero meridian of the declared coordinate system and the Greenwich coordinate system.
UNIT	"degree",0.01745329251994328	The unit of measure of SC (degrees).
PROJECTION	Transverse_Mercator	Projection type
PARAMETERS		
Latitude of origin	0	Initial latitude
Central meridian	27	Central meridian
Scale factory	0.9996	Scale factor
False easting	500000	Shift east
False northing	0	Shift north
UNIT	metre	Projection unit

Make all necessary changes to the parameters, click the "Save" button, specify the path to save and the file name.



The resulting file is shown below.

```
PROJCS["WGS 84 / UTM zone 35N",
    GEOGCS["WGS 84",
        DATUM["WGS_1984",
            SPHEROID["WGS 84",6378137,298.257223563,
            TOWGS84[0,0,0,0,0,0,0]],
        PRIMEM["Greenwich",0,
        UNIT["degree",0.0174532925199433,
    PROJECTION["Transverse_Mercator"],
    PARAMETER["latitude_of_origin",0],
    PARAMETER["central_meridian",27],
    PARAMETER["scale_factor",0.9996],
    PARAMETER["false_easting",500000],
    PARAMETER["false_northing",0],
    UNIT["metre",1]]
```

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