

SATPRO_Calibration

Calibration

When starting the SATPRO, an X and Y axis calibration process begins. The XLRS_SATPRO app can be opened beforehand, but do not open the TCP port if the SATPRO is stopped. The COM or UDP ports allow the port to open even if the SATPRO is stopped. UDP is flexible and fast; if you have an Ethernet connection, do not use the COM port.

If the XLRS_SATPRO application is active and communicating with the SATPRO during the initial moments, you will be able to monitor the calibration process.

Y-Axis Calibration:

- The Y-axis calibration involves moving the arm downward to -46° until the lower limit sensor of the SATPRO is detected. It will then return to the 0° rest position.
- The sensors can be seen on the graph as gray circles when at rest and green when active or detecting.

X-Axis Calibration:

- The X-axis calibration involves moving the SATPRO horizontally in a clockwise direction until the center X sensor, which indicates the 0° position, is detected.
- 0° means that the SATPRO should be mechanically facing north. At this point, adjust the SATPRO base to manually point north and then secure the tripod anchor.

The calibration is monitored on the screen and will indicate whether it is successful (OK) or if there is a calibration

error. During calibration, the SATPRO will not execute any telemetry position commands and should not receive any manual position commands (DX or DY).

You can manually trigger the calibration of the X or Y axis at any time using the buttons on the main form. Note that calibrating during a mission may cause you to lose radio coverage.

Recalibration:

- The X-axis recalibrates to 0° each time it detects the center X sensor.
- The Y-axis recalibrates to approximately -46° each time it detects the lower limit sensor.

After the initial startup and calibration, further recalibration should not be necessary.