Lead'Air Inc.

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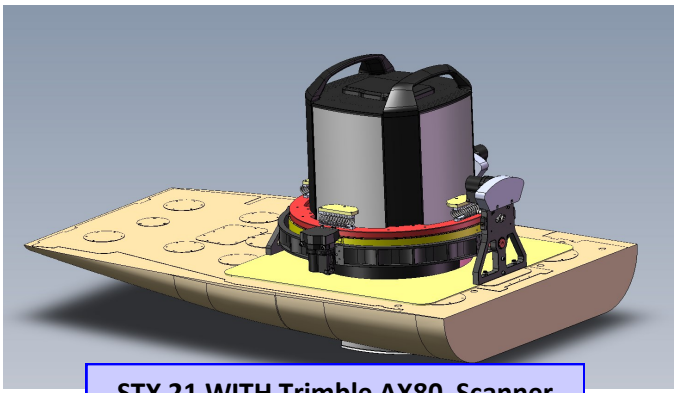
SteadyTrack STX 21 Mount

The STX is a series of stabilized aerial survey mounts which were initially developed for the large and heavy payload of the Track'Air Midas Camera Systems. Its modular design allows the STX mount to be produced in any size; a new 21 inch version has been developed to accommodate large scanners such as the IQ1560 or the Trimble AX80 shown below.

STX 21 WITH RIEGL IQ 1560

Contrary to other mount designs, the STX open circular gimbal allows the sensor system to be fixed into the mount so as to be as low as possible above the airplane hole. As the center of rotation is also located as low as possible, the scanner can take full advantage of the +/-10 degrees full range of correction in pitch and roll and +/-25 degrees of drift correction.



STX 21 WITH Trimble AX80 Scanner

The STX is currently produced in 10, 17, 19 and 21 inches and can be manufactured on demand in any size, even larger sizes, as long as it fits within the width of the airplane.

The STX21 mount is essentially mechanical, there are no electronics, gyro's or IMU's attached. The electronics necessary for the operation of the mount is contained in a separate housing called the STX controller. The STX controller must be connected to an IMU, like an Applanix or a Novatel. The controller uses the IMU attitude output data to level the mount in real time. Note that this mount will only work if your sensor system uses an IMU and if the IMU data can be sent to the STX controller.

If required the STX controller can be expanded at will by adding a number of modules such as the Track'Air Flight Management module, an Applanix AP IMU module, a Riegl Lidar control module, etc.