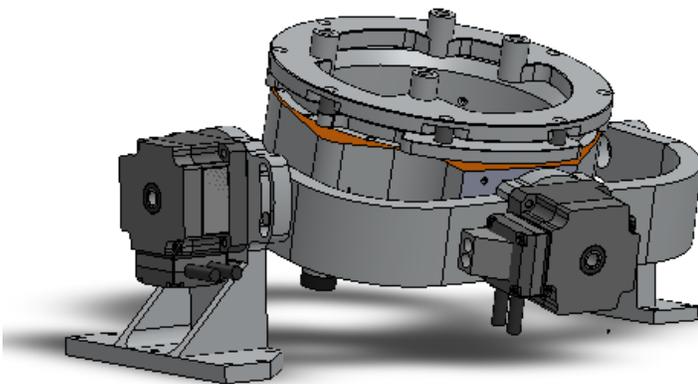




Small Mount Solutions - Unique Concepts

STX-120 SINGLE SENSOR MOUNT



Lead'Air's newest innovation is a small mount with enormous capabilities. The small form STX-120 mount is designed to be mounted on helicopter, fixed wing or UAV aircraft. The mount positions for the system are necessarily customizable because the world of aerial image capture has had a significant shift in acquisition platforms in recent years. With a size small enough to fit virtually any helicopter, fixed wing or professional UAV aircraft, this robust mount is also capable of being flown without the need of a sensor operator, making the unit truly versatile for numerous applications.

Innovative Design Features

Lead'Air's Rapid Change mounting rings allows the user to change sensors in the field. Four screws removes the sensor along with it's mounting ring.

Additional rings are available for various sensors.

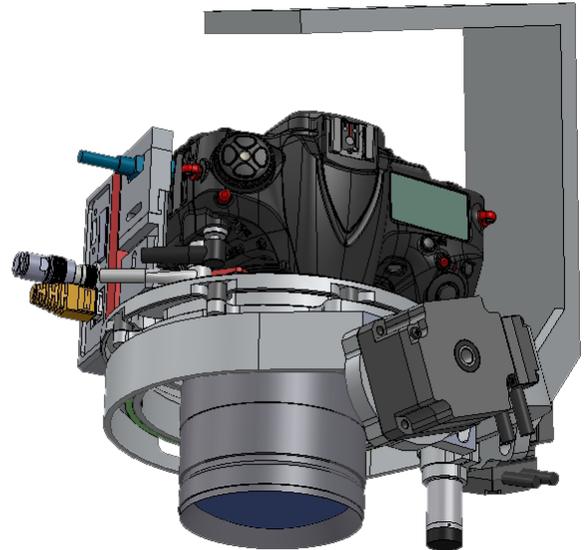


Small Mount Solutions - Unique Concepts

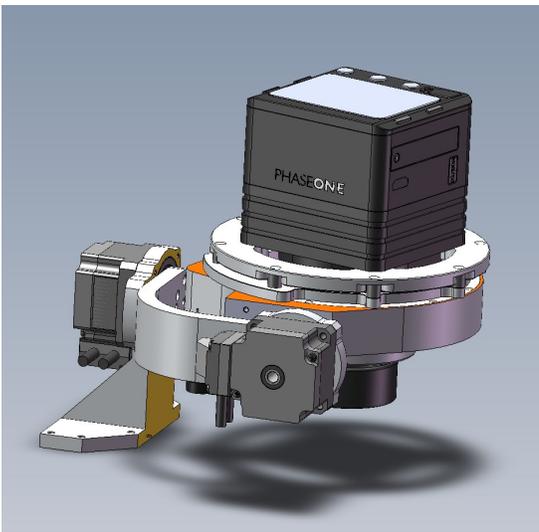
Fully Stabilized with IMU Data

STX-120 fully stabilized system compensates for roll, pitch and yaw using streaming data from an IMU assuring proper nadir or oblique alignment of the sensor at all times during the flight.

Designed by Lead'Air's in-house engineering and built in our manufacturing facility provides our assurance that this mount meets our own rigorous standards for proper aviation safety.



Multiple Mounting Configurations



The mount is self-calibrated within seconds and can be installed in any of four directions. It can be installed to best fit the shape and layout of any aircraft, whether this is along, against, or even perpendicular to the direction of flight. As a result, relocating the mount to other aircraft is easy.

Several mount apparatus are available depending on the platform type.

STX-120



Small Mount Solutions - Unique Concepts

The NEW Micro STX Controller contains all the electronics necessary for the operation of the mount in flight. The controller must be connected to an IMU, like an Applanix, Novatel or other compatible device.

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.



Micro STX Controller

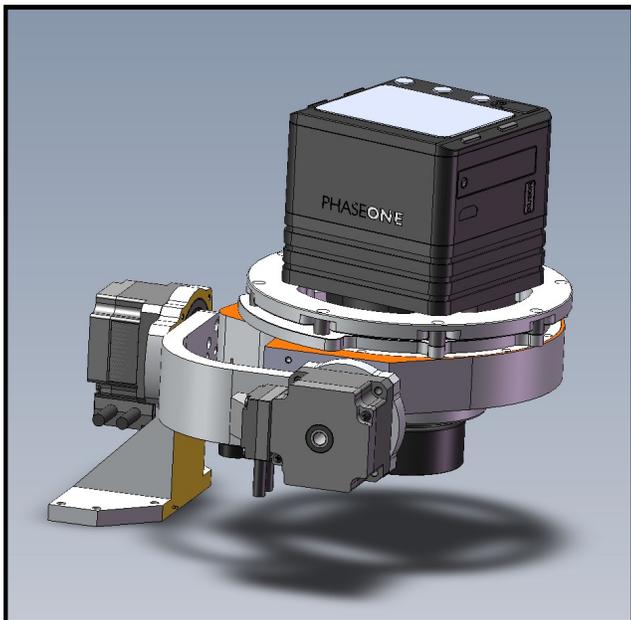
With a size of only 5" x 5" x 3.5" the controller can conveniently be positioned in any aircraft.

The mount can be configured so that it is limited to a lesser degree of if it is viewing the fuselage or confronted with an obstacle such as the side of a narrow hole. For example, of the 14° of available pitch, the mount can be limited to 8° to prevent touching the obstacle.



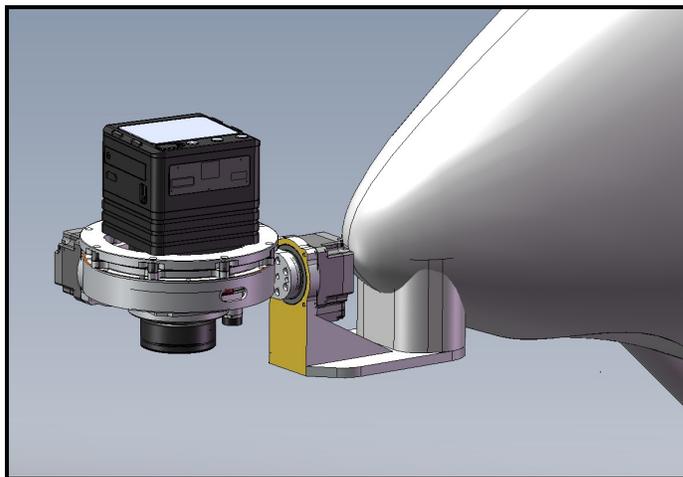
Small Mount Solutions - Unique Concepts

Phase One Compatibility



The **STX-120** is fully compatible with Phase One's iXU-R lightweight cameras.

Phase One iXU-R cameras are designed specifically for the purposes of providing a metric quality camera for the aerial photography industry. The iXU-R camera offers flexibility for users with a need for medium format photography from a helicopter or light aircraft.



The **STX-120** has been customized specifically for the iXU-R providing a lightweight package complete with a fully stabilized mount and entirely controlled by our X-Track FMS software (*optional*).



The adaptable mounting apparatus allows the system to be installed on various types of helicopters, UAV's, as well as fixed wing aircraft.



Small Mount Solutions - Unique Concepts

STX-120 System Specifications

TECHNICAL SPECIFICATIONS (GENERAL)

Power requirements	24-28 Volts at 12-13 Amp
Size	211mm W x 153mm L x 76mm H 8.3" W x 6" L x 3" H
Sensor	Single DSLR, medium format or LiDAR
Altitude	Max 13000 feet
Operation temperature	32-140 Fahrenheit (0-60 Celsius)
Shock/vibration	Pneumatic shock absorbers
IMU (optional)	Integrated Applanix AP20 IMU

FULLY STABILIZED MOUNT

Drift correction	Automatic ; Motorized +/- 29°
Pitch/roll leveling	Automatic ; Motorized +/- 9°/ +/- 11°
Camera angle	Fixed angle (customizable)
Shock/vibration	Pneumatic shock absorbers

Aircraft Options Large UAV's, helicopter or fixed wing aircraft

WEIGHT and BALANCE (may vary with individual system configurations)

STX-120 Mount (with a DSLR Camera and IMU)	+/- 9.7 lbs (3.6 kg)
UTrack Controller	between 1 and 3 lbs (0.4 to 1.3 kg)
.....	depending on model

STX-120



