MINDS-i DRONES CURRICULUM

Unmanned
Aerial
Vehicles

MINDS-i STEM INTEGRATED ROBOTICS: **UAV DRONE GIMBAL RIG**

The MINDS-i Drone Gimbal Rig is designed to give you the ability to pilot the MINDS-i UAV in a safe and controlled environment. This allows you to introduce flight controls and best practices to anyone regardless of skill level or age.

With the Gimbal Rig's 3-axis system you have the full motion capabilities of the UAV at your fingertips. The MINDS-i Gimbal Rig is an excellent fit in a classroom, trade show or convention.

Flying Drones: The programmable UAVs (Unmanned Aerial Vehicles) elicit a "wow" reaction while teaching programming, electrical engineering, mechanical engineering, and aerodynamics. Contain the action indoors or outdoors with the MINDS-i UAV Drone Gimbal Rig.

Gyro-Accelerometer: Stabilizes the drone autonomously in calm and windy conditions while also responding to the pilot's commands.

Remote Telemetry: Sends and receives real-time data between the UAV and computer for monitoring vital data, including GPS location, orientation, battery voltage and amperage draw.
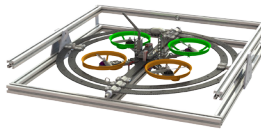
GPS & Compass | Telemetry | Dashboard | Easy Storage | Drone Module | RC Control

MINDS-i

MCK-DRGY-001

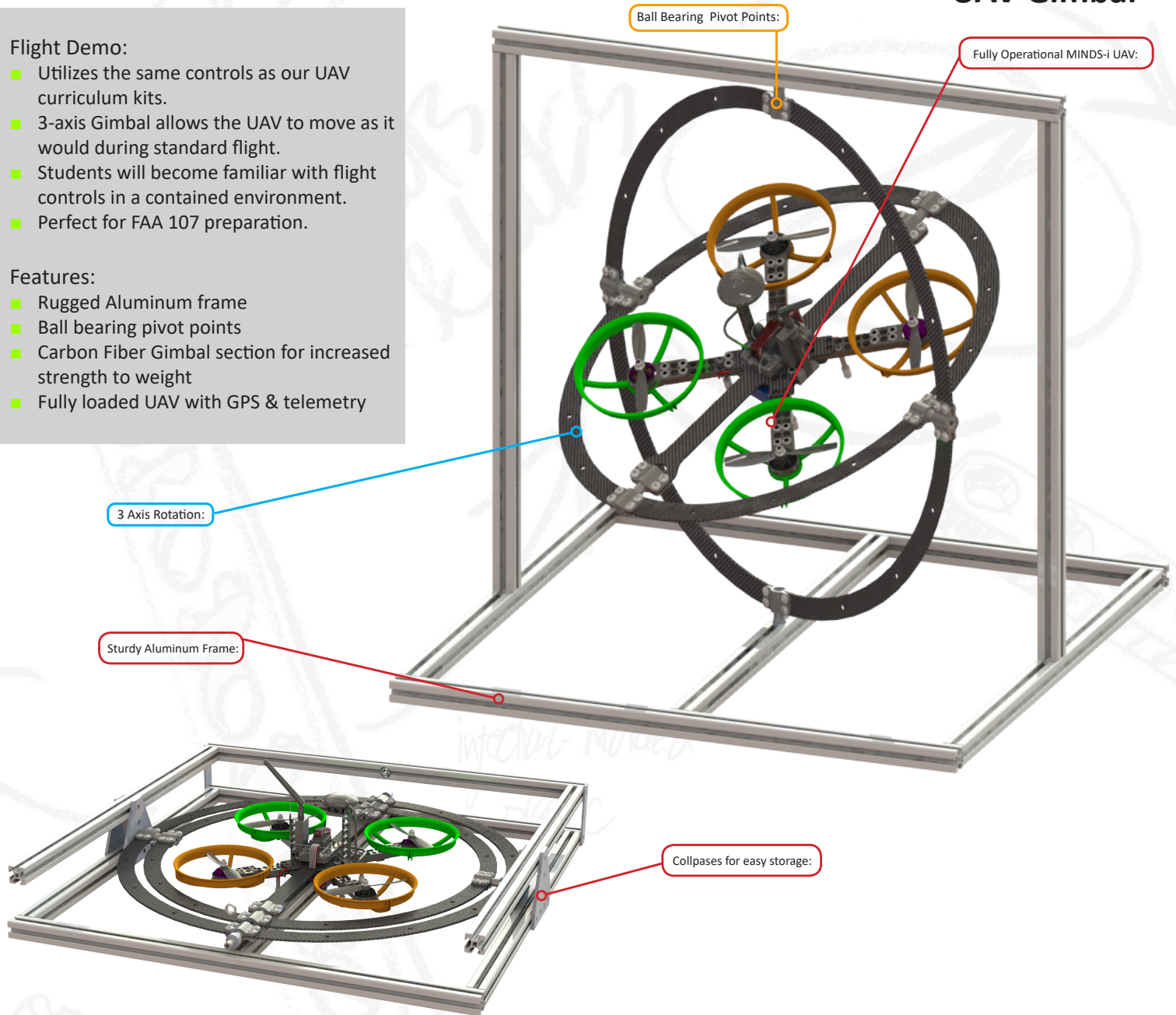# UAV Gimbal

Ball Bearing Pivot Points:

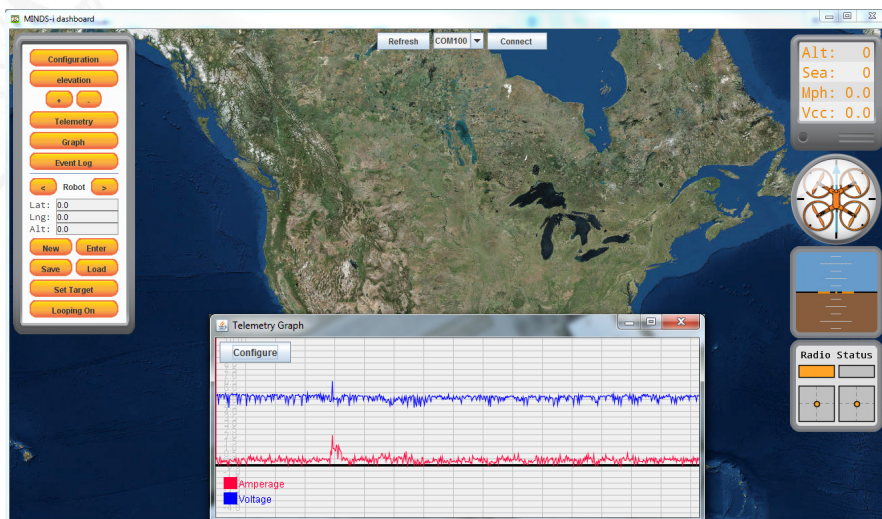Fully Operational MINDS-i UAV:

Flight Demo:
- Utilizes the same controls as our UAV curriculum kits.
- 3-axis Gimbal allows the UAV to move as it would during standard flight.
- Students will become familiar with flight controls in a contained environment.
- Perfect for FAA 107 preparation.

Features:
- Rugged Aluminum frame
- Ball bearing pivot points
- Carbon Fiber Gimbal section for increased strength to weight
- Fully loaded UAV with GPS & telemetry

3 Axis Rotation:

Sturdy Aluminum Frame:

Collpases for easy storage:

Connect to the MINDS-i Dashboard to view flight data and telemetry live

- Open Source Software
- Easy to use Graphical Interface
- Drag and Drop Installation (w/Radio Driver)
- Save and Load GPS Paths
- Live Location Tracking
- Wireless Adjustment of Settings
- Capable of Navigating to 100 Waypoints
- Customizable Graphs
    - Latitude, longitude, Yaw/Direction, Pitch, Roll, Ground Speed, Voltage, Amperage and Altitude
- Full Telemetry Logging
- Inclinometer Gauges
- Windows 10, OS X & Linux Ready