

## UAV Flight Testing Services

Toyon supports UAV flight testing of 3<sup>rd</sup> party algorithms, software, and hardware for government agencies, other contractors, and universities.

We provide UAVs, a mobile lab with LAN connection to the UAVs and Ground Control Station (GCS), military restricted airspace (no COA or SAC-EC required), supporting hardware, and personnel.

Customers can link to our UAVs over TCP/IP to control the UAVs and/or receive live digital video from the UAVs.

## Mobile Laboratory Features

- Climate-controlled space for several customer laptops, desktops, and monitors
- Wireless ad-hoc mesh LAN connecting all UAVs, “target” vehicles, and ground sites up to several miles from base station
- GPS clock synchronization for precise time reference across all systems
- Simultaneous flight of up to three UAVs
- Fully digital UAV video system supporting MJPEG and H.264 formats
- Dedicated Linux server for storage of all flight data
- Direct UAV control using customer’s software, with no operator approval
- Support for UAV control using waypoints, roll commands, and gimbal pointing commands
- Ability to add small payloads to UAVs



Inside the UAV Flight Testing Mobile Laboratory



View of Mobile Laboratory from a UAV during a recent flight test