

UAS Video Challenge

26 October 2011

Given an area of interest, find what does not belong and track it with

- Autonomous mitigation of false alarms
- Tracking of targets in complex terrain
- ‘Surge’ capability for real threats

Challenge Specifics

- Main event will span over 3 days and will be held in late October with additional couple of days for dry run.
- Go fly day to be setup for a few days every month until the main event in October to facilitate test runs.
- Progressive Competition with 3 levels of difficulty
- Only single vehicle allowed
- Weight to be limited to 200lbs.
- Both video and IR sensing allowed.
- No restriction on team size.

Challenge Metrics

- Cost
- Performance (Reliability and Repeatability)
- GPS location of target to be identified
- Number of times the system has to be reset
- Time spent ON and OFF screen

Information to be provided by Organizers

- Endurance requirements of the UAV
- Sample scenario videos (by January)
- Airspace dimensions
- FAA Frequency specifications
- Test bed for pure algorithm capabilities
- Organizing Committee

Information to be provided by participants

- Vehicle specifications: How many/much times flown.