



BRIGHAM YOUNG UNIVERSITY
AUVSI CAPSTONE TEAM (TEAM 45)

Field Flight Checklist v2.0

ID	Rev.	Date	Description	Author	Checked By
PF-002	0.1	5-30-2019	Initial creation	Ryan Anderson	[Checked by]

1 Purpose

The purpose of this artifact is to keep an up-to-date, standard protocol for safe, efficient, professional competition performance. It is important that all test flights are run systematically, and according to the procedures and timelines outlined in this document.

2 Checklist

Day Before

- ☐ Follow the ‘Day Before’ items on the Preflight Checklist
- ☐ Obtain the generator

Pre-preparation Time: *20 minutes*

- ☐ Place targets at gps locations and orientations specified according to a Target Planning document (specific to flight location)
- ☐ Train human image classifiers
- ☐ Account for magnetic deviation at location
- ☐ Set up inter-op server
- ☐ Set up judges server

Official Preparation Time: *15 minutes*

- ☐ Follow Preflight Checklist
- ☐ Set up Groundstation
- ☐ Set up Support Groundstation (to run rosservice calls as needed)
- ☐ Set up Imaging Groundstations (including human image classifiers)

Pre-Mission Brief: *5 minutes*

- ☐ Provide a summary of planned tasks
- ☐ Provide a summary of assigned roles

- ☐ Provide other relevant information to the judges
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Execute Mission: <40 minutes

NOTE: full points are obtained by completing the mission entirely in the air in 20 minutes. All time afterwards results in penalties.

FLIGHT: <30 minutes

- ☐ Takeoff
- ☐ Fly Waypoints
- ☐ Drop UGV
- ☐ Fly Lawnmower Path
- ☐ Capture, Stream, Classify, and Submit Images
- ☐ Land

GROUND: <10 minutes

- ☐ Stream, Classify, and Submit Images
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Post-Mission Clean Up: 10 minutes

- ☐ Shutdown Groundstations
- ☐ Gather targets
- ☐ Follow the post-flight items of the Preflight Checklist
- ☐ Clean up UAS equipment

Post-Competition Procedure

- ☐ Scorers report subscores to Scoring Manager
- ☐ Scoring Manager extrapolates full-mission score and reports to the team