

SKY-C2 Processing, Exploitation & Dissemination (PED) System

Contact Information

Skyward, Ltd.

5717 Huberville Ave., Ste. 300, Dayton, OH 45431
www.skywardltd.com

POC: Chris Rowley
 Director, UAS & Geospatial Solutions
crowley@skywardltd.com

Work: 937-361-3262 Ext. 110
Cell: 937-361-3262

System Concept Image



System Description

- End-to-end system architecture with VTOL/Hybrid sUAS aircraft (7 hour duration), active RF position reporting devices (F-STAR), EO/IR 3-axis gimbal sensor ball, military-grade communications for data transfer, and a full ground station with fused/layered geospatial Common Operating Picture (COP)
- Initially designed to enable real-time forest wildfire management Command & Control (C2) and support disaster response, but applicable to many other applications
- TRL 4-5 (simulated environment testing underway); TRL 6 by end of summer

Benefits

- Enables real-time observation of fire and fire-operations area
- Enables active firefighter tracking within a C2 COP fused with layers of GIS data (i.e., .shp, .KML/KMZ, imagery, maps)
- Data transmission over ~20-30 miles for up to 7 hours
- Rapid recovery/re-launch of aircraft from nearly any location
- Mobile, quick set-up/tear-down, small footprint
- 80% cost savings over other complete PED systems
- Modular, scalable, integrating with current firefighting apps
- Seeking additional funding for spiral development of F-STAR & new fire tracking and reporting capabilities

Airspace Management	<input type="checkbox"/>	Command & Control	<input checked="" type="checkbox"/>	Comms	<input type="checkbox"/>	Power & Energy Storage	<input type="checkbox"/>	Propulsion	<input type="checkbox"/>	Sensors & Awareness	<input checked="" type="checkbox"/>	Other (Tracking)	<input checked="" type="checkbox"/>
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