



THE AURORA SKATE® IS A **RAPIDLY DEPLOYABLE, LIGHTWEIGHT SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)** CAPABLE OF **LONG ENDURANCE** ON QUIET ELECTRIC POWER FOR AUTONOMOUS OPERATION IN URBAN OR AUSTERE ENVIRONMENTS.



CAPABILITIES

- Designed to provide organic ISR to the smallest ground unit
- Back-packable UAS, with a vehicle weight of 2lbs (system 6lbs) and a stored volume that easily fits in a small rucksack. Its modular design enables quick assembly and fast repair.
- Designed to minimize system and airframe cost, with the goal of enabling a "disposable" UAS, reducing the risk to users recovering the vehicle.
- VTOL capability enables launch and recovery from courtyards, confined spaces, and vehicles.
- Payload pods are hot-swappable in mere seconds, allowing the operator to tailor the Skate® system to changing mission needs.





SPECIFICATIONS

- Range: 3 km, with standard omnidirectional antenna
5 km, with optional directional antenna
- Endurance: 60 minutes; 90 minutes with extended endurance kit
- Speed: Hover to 50 knots (20 knot cruise)
- Operating Altitude: 400 ft AGL (typical); 13,000 ft MSL max operating altitude
- Wing span: 24 inches (0.61 m)
- Length: 19 inches (0.48 m)
- Vehicle Weight: 2 lbs (0.9 kg), including payload and battery pods
- System Weight: 6 lbs (2.7 kg), including two aircraft, GCS, and spares in custom case
- Payload Capacity: 0.5 lbs (0.2 kg). Payloads are hot-swappable in seconds.
- Communications: Digital Data Link (DDL), video and data with AES128/AES256 encryption. DDL operates at either 1.8 GHz or 2.4 GHz, with other frequencies available.
- GCS: Lightweight, modular ground control station with integrated video display and hand controller
- Launch Method: Hand-toss or vertical takeoff. No dedicated launch or recovery equipment.
- Operating Modes: Fully autonomous, waypoint navigation.
Stabilized, "fly-the-camera" control.
- Product Status: Skate® Digital System; available for delivery in March 2012.



GCS Hand Controller with FLIR Imagery



GCS Hand Controller w/EO Camera Imagery

PAYLOADS

- EO Payload Pod (standard with all Skate® systems)
 - Three aperture, full-motion video (FMV) color video cameras.
 - Can be configured for up to six apertures.
- IR Payload Pod
 - Twin aperture, EO/IR payload pod
 - FLIR Tau 320 or Tau 640 LWIR cameras
- High Definition (HD) Video Payload Pod (1080p HD video; SD video; stills)
- Upcoming Payload Pod Options:
 - EO/IR Payload Pod with Laser Illumination
 - Chemical Taggant Deployment Pod
 - Custom Tailored Payload Pods



Skate® Payload Pod

www.aurora.aero

For more information on Skate®
703-369-3633
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