01 June 2026

MEMORANDUM FOR 97 CONF

FROM: 97 OSSS/OSK

SUBJECT: Skydio X10D Drone procurement

1. The 97th OSS OSK/JAI shop would like to procure a new sUAS platform to update the current system we are operation in support of Airdrop Missions here at Altus AFB. This new sUAS platform will greatly increase mission capabilities and update our fleet from an aging platform that is no longer supported by the manufacture.

Specifications

- Weight: Under 4.75 lbs (depending on the battery/module configuration)
- Dimensions (Folded): 13.8" x 6.5" x 4.7"
- Dimensions (Unfolded): 31.1" x 25.6" x 5.7"
- Deployment Time: Under 40 seconds
- Environmental Protection: IP55 certified against dust and water ingress
- Operating Temperature: -4°F to +113°F (-20°C to +45°C)
- Max Flight Time: 40 minutes of flight time
- Max Hover Time: 35 minutes of hover time
- Max Flight Speed: 45 mph
- Max Wind Resistance: 28.6 mph (43 km/h) gust handling
- Max Service Ceiling: 15,000 feet (4.57 km)
- Telephoto Camera: 48 MP CMOS (1/2" Sensor), f/2.2, with a 190 mm equivalent focal length
- Narrow Camera: 64 MP CMOS (1/1.7" Sensor), f/1.8, with a 46 mm equivalent focal length
- Wide Camera: 50 MP CMOS (1/1.7" Sensor), f/1.95, with a 20 mm equivalent focal length
- Radiometric Thermal: Teledyne FLIR Boson+ (Uncooled VOx Microbolometer) featuring 640x512 resolution and <30 mK thermal sensitivity
- Illumination: Available visible/IR light modules and a 1000-lumen flashlight capability
- Processor: Integrated onboard NVIDIA Jetson Orin GPU
- Navigation Cameras: Six custom 32 MP cameras providing true 360-degree obstacle avoidance
- Contested Environments: Visual Inertial Odometry (VIO) for robust navigation in GNSS-denied/spoofed conditions

- Night Operations: "NightSense" capability for autonomous obstacle avoidance in zero-light scenarios using visible or IR illumination
- Encryption: AES-256 Wi-Fi encryption
- Operational Range: 6.2 miles (10 km) via Connect MH to 7.5 miles (12 km) via Connect SL
- Radios / Multiband: Supports dynamically switching channels to mitigate electronic warfare and communications jamming
- Compliance Standards: Blue UAS Cleared List, RAS-A compliance, and open MAVLINK protocol support

4. Questions regarding this memorandum should be directed towards [redacted], at DSN [redacted], commercial [redacted], or email at [redacted].

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