# Statement of Need

## Specification- Document | Salient Characteristics

### Tactical sUAS Package

**Objective** –. Needing a high quality Tactical UAS Package to simulate different scenarios during Point Defense Assessment while also providing high quality ISR for overwatch of assessments.

**Place of Delivery –** Building 42, 57330 Mustang Drive, McConnell AFB, KS 67221.

**Electrical/Power Requirements –** 120V

**<u>Product Requirements</u>**

**Salient Characteristics:**

**Line Item 1: sUAS**

1. NDAA-compliant Unmanned Aerial System (sUAS)
    a. Flight time: With about 40 minutes flight time (35 min hover) / Max speed of 45 mph
    b. Deployment time: Under 40 seconds hand launch
    c. IP rating with at least IP54 Resistant to dust and water
    d. Operating temperatures: at least -4 to 113 degrees Fahrenheit
    e. Obstacle avoidance True 360
2. Utilizes a high-resolution, modular triple-camera system for advanced reconnaissance and threat detection. That is use of telephote camera, narrow camera, and radiometric thermal
3. Radio configuration is built to operate in highly contested RF and GNSS-denied environments, operating on multiple different frequencies (1.6 GHz – 2.5 GHz)
4. Controller: with at least 6.6" touch screen (120Hz refresh, 2340x1080 resolution, 1750 nits peak brightness). Controller battery has at least 9600mAh capacity (approx. 5 hours of operation). **NOTE:** Evaluation will be on overall controller capability, and not all controller characteristics must be met simultaneously.