



**INVITATION FOR BIDS**  
**OFFICE OF PROCUREMENT & CONTRACTS**

**1. INSTRUCTIONS FOR BIDDERS**

- a. Sealed bids will be received in the Office of Procurement & Contracts, Mississippi State University, for the purchase of the items listed herein.
- b. All bids must be received in the Office of Procurement & Contracts on or before the bid opening time and date listed herein. Delivery of bids must be during normal working hours, 8:00 a.m. to 5:00 p.m. CST, except on weekends and holidays when no delivery is possible.
- c. Bidders shall submit their bids either electronically, in Bully Buy, or in a sealed envelope. Bids CANNOT be emailed
  - a. Sealed bids should include the bid number on the face of the envelope as well as the bidders' name and address. Bids should be mailed to : 405 Garrard Road E, Starkville, MS 39759.
- d. All questions regarding this bid should be directed to the Office of Procurement & Contracts at 662-325-2550.

**2. TERMS AND CONDITIONS**

- a. All bids should be bid "FOB Destination"
- b. Bidders must comply with all rules, regulations, and statutes relating to purchasing in the State of Mississippi, in addition to the requirements on this form. General Bid Terms and Conditions can be found here:  
[https://www.procurement.msstate.edu/procurement/bids/Bid\\_General\\_Terms\\_May\\_2019\\_V2.pdf](https://www.procurement.msstate.edu/procurement/bids/Bid_General_Terms_May_2019_V2.pdf)
- c. Any contract resulting from this Invitation for Bid shall be in substantial compliance with Mississippi State University's Standard Contract Addendum:  
<https://www.procurement.msstate.edu/contracts/standardaddendum.pdf>

**Bid Number: MSU2025042**

**Opening Date: February 25, 2026 at 2:00 p.m.**

**Description: Alliance for Systems Safety of UAS through Research Excellence (ASSURE)**

Vendor Name: \_\_\_\_\_

Vendor Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Days the Offer is Firm: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Item	Quantity	Description	Unit Price	Total Price
1	7	Unmanned aircraft system bundle per specifications		

The Mississippi State University **Alliance for Systems Safety of UAS through Research Excellence (ASSURE)** requests bids for a small, unmanned aircraft system (sUAS) solution for public safety training. The sUAS platform should have characteristics pertinent for disaster response, aerial inspection and surveillance, survey, and incident reconstruction, for use in first responder educational scenarios and settings, where the security of captured data, flight data, and communications must be assured.

The system being sought should include these main functions, but not limited to: obstacle avoidance, autonomous capability, GPS-denied navigation, motion prediction capable and thermal and visible camera system. System must also be NDAA compliant.

The quantity requirements are:

Seven (7) each Soten UAS vehicle/platform w/ one (1) Taiten Smart Controller, four (4) extra batteries (5 total), multi charger, additional set of propellers, one (1) case, one (1) Samo Payload. Vehicle must include: (a) NDAA compliance, (b) Ground control, (c)

Optical and thermal camera combination. Includes software maintenance and customer support and limited warranty.

Systems/Bundles to be bid: 7

The system shall meet or exceed the additional following requirements:

**AIRCRAFT**

- Dimensions (unfolded, FLYING): 25.1" x 22.1" x 5.7" (including propellers)
- Dimensions (Folded, no battery): 14.3" x 6.4" (propellers removed)
- Weight (with battery): 3.8 lbs. (including standard camera battery)
- Flight Time: 25 minutes (w/standard camera at 18 mph airspeed)
- Max Flight Speed (Sea Level, No Wind): 33.5 mph
- Operational Temperature Range: 14°F to 104°F
- Multiple Pilot Operations: Control can be transferred in-flight between up to 3 controllers  
(all continuously receive video and telemetry)
- Obstacle Avoidance Sensors: Vision system (front, top, bottom)  
Infrared (top, bottom)
- Command and Control Radio and Frequency: ACSL proprietary radio  
2.412-2.477 GHz
- Ingress Protection: IP43 (with camera, gimbal and battery)
- Remote ID: Bluetooth
- GNSS, GEOSS: GPS + QZSS (Quasi-Zenith Satellite MICHIBIKI) + SLAS/SBAS

**CONTROLLER (SMART)**

- Dimensions: 10.6" x 6.5" x 2.7"
- Weight: 3.2 lbs.
- Wireless Connectivity: Wi-Fi
- Operating Frequencies: 2.4 GHz + 5.8 GHz bands
- Max Range: 6+ miles
- Screen: 7", 1200 x 1920 Resolution
- IP Rating: IP54
- Radio: ACSL Fides-Link

**CAMERA SYSTEM (COMBINATION)**

FLIR Hadron 640R Combo (SAMO Payload)

- Dimension: W 78mm x H 87mm x D 81mm (3.1" x 3.4" x 3.2")
- Weight: 7.8 oz
- Operating Temperature: -10°C to 50°C\* (14°F to 122°F\*)

Optical Camera

- Resolution: 64 MP
- Sensor Size: ½ inch
- Shutter: Electronic

- Field of View: H67°, V53°, D79°
- Equivalent Focal Length: 26 mm
- Aperture: F2.3
- Resolution: 640 x 512

#### Thermal Camera

- Resolution: 640 x 512
- Field of View: H32°, V26°, D40°
- Equivalent Focal Length: 55 mm
- Aperture: F1.0
- IR Color modes: White hot, Black hot, Rainbow, RainHC, Ironbow, Lava, Arctic, Glowbow, Graded Fire, Hottest

#### Digital Formats

- Still Images: JPEG, DNG, Both
- Video Codecs: MOV/MP4, H.264/H.265
- Media: microSD

#### Gimbal & Enclosure

- Controllable Ranges: ±90° Pan, -90° - +10° Tilt, ±45° Roll,
- Ingress Protection: IP44

#### **SYSTEM SECURITY**

- Wireless Encryption: AES-256 encryption of wireless flight logs.

#### **HARDWARE SUPPORT**

- Must include: (a) one-year Limited Warranty.

#### **Available Equipment:**

ASSURE has the following equipment available for trade-in towards value of the purchase. If applicable, please include the trade-in value and subtract from the cost of the new platform when calculating the total purchase price.

- Six (6) each: Teledyne Flir Siras, Vue TV32 payload, Remote Controller w/ built in screen, portable battery charger, battery sets.