



MISSISSIPPI STATE
UNIVERSITY™

INVITATION FOR BIDS

OFFICE OF PROCUREMENT SERVICES

1. INSTRUCTIONS FOR BIDDERS

- a. Sealed bids will be received in the Office of Procurement Services, Mississippi State University, for the purchase of the items listed herein.
- b. All bids must be received in the Office of Procurement Services 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 Services 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
- c. Any contract resulting from this Invitation for Bid shall be in substantial compliance with Mississippi State University's Standard Contract Addendum:
<https://www.contracts.msstate.edu/resources/standard-forms>

Bid Number: MSU2026091

Opening Date: Monday August 10, 2026 at 2:00 p.m.

Description: Unmanned Aircraft Systems

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	8	Package 1 see below specifications		
2	4	Package 2 see below specifications		

The Mississippi State University **Alliance for Systems Safety of UAS through Research Excellence (ASSURE) /ASSURED Safe** requests bids for a small, unmanned aircraft system (sUAS) solution to aid first responder and public safety training. The sUAS platform should have characteristics that support emergency and disaster response, aerial inspection, observation, surveying, and mapping and modeling to supplement first responder education and training 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 with dual optical and thermal camera system.

The purchaser seeks two versions or packages of the system, 1) from the DCMA Blue UAS Cleared list and 2) that is NDAA compliant.

QUANTITY REQUIREMENT

Package 1 – Eight (8) Defense or Blue UAS Cleared platforms, each including one (1) enterprise controller, three (3) batteries plus two (2) extra (5 total), two (2) wall adapters, one (1) dual charger, one (1) set additional propellers, one (1) Pro case.

Additional items to be included per platform: one (1) NightSense with IR attachment.

System must also include: (a) Software, (b) Ground control, (c) two (2) 256 GB SD Cards (pre-installed) (d) software maintenance, customer support and limited warranty.

Package 2 – Four (4) NDAA compliant platforms, each including one (1) enterprise controller, three (3) batteries plus two (2) extra (5 total), two (2) wall adapters, one (1) dual charger, one (1) set additional propellers, one (1) Pro case.

Additional items to be included per platform: one (1) NightSense with IR attachment, one (1) speaker and one (1) spotlight.

System must also include: (a) Software, (b) Ground control, (c) two (2) 256 GB SD Cards (pre-installed) (d) software maintenance, customer support and limited warranty.

Total Systems to be bid: 12

OVERALL SPECIFICATIONS

Aircraft

- Dimensions (unfolded, FLYING): 31.1" x 25.6" x 5.7" / 79.0 cm x 65.0 cm x 14.5 CM
- Dimensions (Folded, no battery): 13.8" x 6.5" x 4.7" / 35.05 cm x 16.51 cm x 11.94 cm
- Weight (with battery): 4.65 lbs. / 2.11 kg
- Flight Time: 40 minutes
- Max Flight Speed (Sea Level, No Wind): 45mph / 20 m/s
- Max Wind Speed Resistance: At or under 28 mph / 12.8 m/s
- Max Service Ceiling (Above Sea Level): 15,000' / 4,572m density altitude
- Operational Temperature Range: -4°F to 113°F / -20°C to +45°C

Controller

- Dimensions: 10.5" x 5" x 3" / 26.67 cm x 12.70 cm x 7.62 cm
- Weight: 2.5 lbs. / 1135 grams
- Applications: Wired Links:
- Operating Frequencies: Connect 5G: 600MHz-4400MHz
- Max Range: 7.5 miles / 12km
- Screen: 6.6" Dynamic AMOLED touchscreen, 2340 x 1080 pixel Resolution

Primary camera system (Telephoto/Wide/ Narrow)

- Color Sensor Type: 0.5" 48MP CMOS / 1" 50.3MP CMOS
- Color Lens Focal Length: 35 mm (190 mm equivalent) / 8 mm (20 mm equivalent)

- Color Video Resolution: 3840 x 2880 / 3840 x 2880
- Color Photo Format: JPEG, RJPEG
- Color Still Resolution: 8000 x 6000 / 8192 x 6144 / 9248 x 6944
- Pitch Controllable Range: $\pm 140^\circ$ pitch, $\pm 90^\circ$ yaw, $+75^\circ$ to -230° roll

Thermal camera system

- Thermal Imager: Flir Boson+ Uncooled VOx Microbolometer
- Focal Length: 13.6 mm (60 mm equivalent)
- Thermal Sensitivity: <30mK NEDT
- Video Resolution: 640 x 512
- Photo Size: 640 x 512
- Phot Format: JPEG, RJPEG
- Temperature Measurement Range: -40°F to 302°F / -40°C to 150°C
- Palette: White hot, black hot, ironbow, rainbow

Vision systems/navigation cameras

- Configuration: 6x cameras in trinocular configuration top and bottom
- Sensor: Samsung 1/2.8" 32MP color CMOS
- Diagonal View: 200°
- Obstacle Sensing Range: 65' 7.4" / 20 meters
- Environment Coverage: True 360°

Software

- Main Processor: NVIDIA Jetson Orin SoC / Qualcomm QRB5165 SoC
- Camera Configuration: 6x cameras in trinocular configuration top and bottom
- Obstacle Avoidance Coverage: 65' 7.4" / 20 meters

System security

- Wireless Encryption: AES-128
- Firmware: AES-256 encrypted, signed, & verified
- Controls: Ability to provision and deprovision device
- Infrastructure: Key provisioning burned in at time of manufacture

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