



# The US-1

## Unmanned Aerial Surveillance and Awareness Aircraft

- Fully Autonomous (no pilot needed)
- Weather Resilient (heavy rain/high winds)
- Endurance - 2 hour flight time
- Long Range - 7 miles based on payload
- Universal Mounting System
  - Little Training Required



Vayu's US-1 features best-in-class technological proficiency expected from a high-end, high-performance drone. This unmanned aircraft is built to provide a multitude of real-world solutions like situational awareness and aerial recon.

Carrying a standard payload of 6lbs, the US-1 offers up to 75 minutes of flight time. With a lighter payload the US-1 offers up to two hours of flight time. Fast charging Lithium-Ion power cells provide the structural integrity of the airframe, allowing for unparalleled energy density and longer flight time.

The efficient design of the US-1 allows for endless mission specific adaptations to be mounted under the center of the four arms.

### STANDARD SPECIFICATIONS

This data is based on maximum payload of 6 lbs. (2.72 kg).

<b>Construction</b>	Encased 96 Li-ion Batteries
<b>Maximum Air Speed</b>	48mph (77 kph)
<b>Maximum Range</b>	29 miles (46.7 km)
<b>Unladen Weight</b>	18.5 lbs (8.4 kg)
<b>Flight Time / No Payload</b>	Up to 2 Hours
<b>Flight Time / With Max. Payload</b>	Up to 75 Minutes
<b>Maximum Density Altitude</b>	8,200 ft
<b>Operating Temps</b>	32°F to 122°F (0°C to 50°C)
<b>Payload Capacity</b>	>6.2 lbs (2.8 kg)
<b>Overall Dimensions</b>	26" x 26" x 16"
<b>128 AES Encrypted Data Link</b>	Frequency Band: 2.4Ghz Power Output: 1 Watt

### MISSION SETS AND CAPABILITIES

- ISTAR (Intelligence, Surveillance, Target Acquisition, Reconnaissance)
- IVA (Immediate Visual Assessment)
- Battle Space Awareness
- ATAK/WaRTAK Repeater
- Convoy Support-Short/Long Haul
- Medical Supply Delivery
- Food/Resupply Delivery
- Post Attack Runway Assessment
- Close Air Support
- RTK Capable
- Search and Rescue
- Target Acquisition
- Structure Inspection
- Tactical Networks (MPU5, Trellisware, or Harris)
- Combat Comm Node
- Perimeter Security
- Surveying
- Ship to Ship Delivery
- Anti-Poaching
- Agriculture Monitoring

Cage Code: 7DHU8  
 Unique Entity Identifier: LN7GDGL4FMQ5  
 DUNS: 079515940

### MORE VAYU UAV's



**NOTE::** Specifications, data and information are subject to change without notice. Consult factory for any customization requests.



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