



# The US-1

## Unmanned Aerial Surveillance and Awareness Aircraft

- Fully Autonomous (no pilot needed)
- Weather Resilient (rain/high winds)
- Endurance ~ 2 hour flight time
- Long Range ~ 4 miles based on radio
- Universal Payload Mounting System
  - Little Training Required



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

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 a 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 Radio Range</b>             | 4 miles (6.43 km)                              |
| <b>Maximum Distance</b>                | 37 miles (59.54 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>256 AES Encrypted Data Link</b>     | Frequency Band: 2.4Ghz<br>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
- 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 UAVs



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



3753 Plaza Drive  
 Ann Arbor, Michigan 48108  
[www.vayuaerospace.com](http://www.vayuaerospace.com)

