



# The G-1 MKII

## Unmanned Autonomous Aircraft for Wide Range of Functions

- Fully Autonomous (no pilot needed)
- Superior Endurance - 10-20+ hrs. flight time, based on payload
- Long Range - 1200 miles, based on payload
- 4X Sensor/Autopilot Redundancy
- Gas/Electric Hybrid Propulsion



The **Vayu G-1** features triple redundant GPS modules, "Octo-Chute" capabilities, optional parachute systems, dual airspeed sensors, heated batteries, and a heated pitot tube. With dual heading systems using GNSS differential and compass heading, ADS-B In for real-time air traffic data, and triple redundant data links through 4G LTE, 2.4GHz radios, and a low latency Satcom modem, the G-1 ensures seamless communication and precise navigation. Additionally, its engine auto starts, and restart capabilities provide continuous operation, making the G-1 UAV the ultimate choice for safety and performance in all missions.

The G-1 is configured with eight electric motors for takeoff and landing, with a gasoline engine for forward fixed wing flight. Transition between electric and gasoline engine is seamless.

The G-1 features a fully customizable cargo bay with a payload delivery capacity of 24.2 lbs. With up to 20+ hours of flight time, a pilot can establish advanced control settings and fail-safe specific to mission conditions.

### STANDARD SPECIFICATIONS

This data is based on maximum payload of 24 lbs. (11 kg).

**Construction** Carbon Fiber and Fiberglass Composite

**Range** 1200 Miles / 1931 Kilometers

**Flight Time** 20 hrs (Fixed-Wing)

**MAX Speed (Fixed-Wing)** 67 mph (108 kph)

**Ceiling Altitude** 13,500 ft MSL (4,115m)

**Max Takeoff Weight** 70 lbs (31.7 kg)

**Payload Capacity** >24 lbs (>11 kg)

**Dry Takeoff Weight** 45 lbs (20.5 kg)

**Overall Dimensions** Span: 12 ft (3.7 m) / Length: 7 ft (2.13 m)

**Engine Generator Output** 250w (500w intermittent)

**Engine Fuel Grade** 98 Octane Sunoco ACX 1:50 oil premix

**VTOL Battery** 13,000mAh lithium-ion solid state batteries 12s /50v

**Datalink/Telemetry** 2.4GHz, 4G/LTE, and Satcom

**RC Link** US:915MHz/EU:868MHz

### MISSION SETS AND CAPABILITIES

- ISTAR (Intelligence, Surveillance, Target Acquisition, Reconnaissance)
- IVA (Immediate Visual Assessment)
- Battle Space Awareness
- ATAK/WaRTAK Repeater
- Emergency Cell Network
- Close Air Support
- Convoy Support
- Perimeter Security
- Medical Supply Delivery
- Resupply / Delivery
- Post Attack Runway Assessment
- RTK Capable
- Search and Rescue
- Offshore Operations
- Ship to Ship Delivery
- Tactical Networks (e.g., DTC, Harris, MPU5, Trellisware)
- BACN (Battlefield Airborne Comm Node)
- Target Acquisition / Kill Chain
- Anti-Poaching
- Wildfire Spotting/Aerial Firefighting

Cage Code: 7DHU8

Unique Entity Identifier: LN7GDGL4FMQ5

DUNS: 079515940

### MORE VAYU UAVS

US1-MKII



The Mitigator



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