

EH-4 Vertical Take-off and Landing (VTOL) sUAS System



The EH-4 system is a tough, survivable VTOL sensor platform designed for aggressive industrial, public service and agricultural applications. Emphasis has been placed on stability and ruggedness. Principal applications include: precision agriculture services, public utilities applications, emergency response, search and rescue and rough industrial environment applications. The flexible EH-4 VTOL system can be reconfigured to meet specific sensor and mission needs.

General Specifications

- Custom designed and manufactured in the United States
- Fiber reinforced G-10 composite construction and impact resistant Kydex®
- Spare components that can be quickly field fitted / repaired
- Maximum gross weight with battery: 4.9 Lbs.
- Dimensions: 28 inch fuselage span
- Operating Range (RF and COA dependent)
- Rated speed: 35 mph
- Altitude ceiling: 500 feet AGL (COA Dependent)
- Lithium polymer battery pack (varies with mission requirements)
- 35 amp American-made electronic speed controls (ESC)
- Loiter time dependent on payload weight and battery size
- Flight time: 20 minutes with 5 minutes reserve
- Multiple control systems/ground stations available
- Programmable fail-safe: Low Battery, Loss of Signal, Loss of GPS
- Custom HUD and Video ground stations available

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System Details

The SelectTech EH-4 VTOL base design is highly configurable/mission specific and very durable resulting in an airframe well-suited for tough industrial, public service or agricultural applications. Below is a general list of current system configurations. Other options are available.

Power Plant

*Motor: Hacker A3-52S-UAV or customer specified
ESC: Castle 35 Amp Quad System
Battery: 14.8 Volt / 5100 mAh 4S1P / Power Pole® connections*

Autopilot

*Option 1 – Pixhawk by 3-D Robotics
Option 3 – customer specified*

Radio

*Option 1 - Spectrum DX-8 / 8 channel with telemetry down-link
Option 2 – Spectrum DX-6 / 6 channel with telemetry down-link
Option 3 – customer specified*

Ground Station

- *Standard lap-top computer with telemetry*
- *Ruggedized lap-top computer with telemetry*
- *Android tablet computer with telemetry*
- *Other – customer specified*

Construction

- *Standard: G10 fiberglass composite / Kydex®*

Sensors and Gimbal

- *Electro Optical – Garmin VIRB®*
- *Infrared – FLIR Tau™*
- *Senterra® NDVI*
- *Other Sensors – customer specified*

For additional information, or a systems quotation, please contact us at: info@sgamf.com

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