

Custom Configured EP-3000 Lightweight Fixed-wing sUAS



The EP-3000 is a tough, survivable, fixed-wing sensor platform designed for missions covering long loiter times. Emphasis has been placed on stability, ruggedness and payload capacity. Principal applications include: precision agriculture services, public utilities applications, emergency response, and search and rescue missions. The EP-3000 is a custom designed aircraft that can be tailored to user requirements.

General Specifications:

- Launcher (LA-3000) take-off and skid or net recovery
- Loiter time – greater than 1 hour
- On board data recording and/or data down link
- Light weight EPS with fiberglass skin - Kevlar® available
- Easily removable wings/Sensor Pod
- Folding Propeller / high efficiency electric out-runner motor
- GPS/Multi way point navigation
- Modularized components for easy assembly/disassembly/repair
- EO/IR/NIR sensor options
- Electric/LiPo power system
- Polystyrene foam core and fiberglass wings
- 8 foot (2.4 meter) wingspan
- 10 pounds dry / 2.5 pound payload
- Large payload bay – 360 cubic inches (6"x12"x10" HxWxL)
- Woven Carbon Fiber tail boom

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System Details

The SelectTech EP-3000 base design is highly configurable/mission specific and very durable, resulting in an airframe well-suited for tough industrial or agricultural applications. Below is a list of current system configurations. Other customer specified options are available.

Power Plant

*Motor: Himax® 3528-1000 or Customer specified
ESC: Castle 75 Amp
Battery: 14.8 Volt / 6000 MAh 4S1P / Power Pole® connections*

Autopilot

*Option 1 – Pixhawk by 3-D Robotics
Option 2 – Customer specified*

Radio

*Option 1 - Spectrum DX-8 / 8 channels with telemetry
Option 2 – Spectrum DX-6 / 6 channels with telemetry
Option 3 – Customer specified*

Ground Station configuration

- *Standard Lap-top computer with telemetry*
- *Ruggedized Laptop computer with telemetry*
- *Android tablet with telemetry*
- *Other – Customer specified*

Construction

- *Standard carbon fiber, fiber glass / Kydex®*
- *Kevlar® and carbon fiber components available*

Sensors and Gimbal Integration Options

- *Electro Optical - Customer specified*
- *Infrared or NIR – Customer specified*
- *FLIR Tau Infrared – Customer specified*
- *Other Sensors – Customer specified*

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

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