

Custom Configured EP-2000 Lightweight Fixed-wing sUAS



The EP-2000 is a tough, survivable, fixed-wing sensor platform designed for missions covering longer loiter times. Emphasis has been placed on stability and ruggedness. Principal applications include: precision agriculture services, public utilities applications, and emergency response, and search and rescue missions. The EP-2000 is a custom designed aircraft that can be specifically built to user requirements.

General Specifications:

- Hand launched and skid or net recovery
- + 1 Hour flight time
- Interchangeable sensor packages
- On board data recording and/or data down link
- Light weight ETP with fiberglass/Kevlar® skin (carbon fiber available)
- Easily removable wings/Sensor Pod
- Folding Propeller / high efficiency electric out-runner motor
- GPS/Multi way point navigation
- Ease of assembly/disassembly
- Can be configured fully automatous
- EO/IR/NIR sensor options
- Electric/Lip power system
- PS foam core and fiberglass wings
- 6 foot (2 meter) wing Span
- 5.8 pounds (expect 6.5 pounds with typical camera)
- ABS Fuselage Wing interface
- Molded-in landing skids
- Carbon fiber main spars
- Woven Carbon Fiber tail boom

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System Details

The SelectTech EP-2000 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 3522 or customer specified

ESC: Castel 50 Amp

Battery: 14.8 Volt / 5100 MAh 4S1P / Power Pole® connections

Autopilot

Option 1 – APM2 by 3-D Robotics

Option 2 – Pixhawk by 3-D Robotics

Option 3 – customer specified

Radio

Option 1 - Spectrum DX-8 / 8 channels with telemetry down link

Option 2 – Tactic TTX-650

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 fiber glass / ABS*
- *Kevlar® and carbon fiber available*

Sensors and Gimbal Options

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

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

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