

- Rapidly Deployable
- 1-Hour Endurance
- Multiple Payloads

*Back-Packable
Electric UAV System*

EVOLUTION



BAI's Evolution back-packable UAV system is highly portable, rapidly deployed and easily operated by a team of two with no special training. Advanced system autonomy enables "hands-off" operation of the system from take-off through recovery. The 6.5-pound (*with Lithium battery*) Evolution aircraft operates unobtrusively at an altitude of 300 feet to enable acquisition of overhead daylight, lowlight or IR imagery from a range of 10 km.

Evolution systems may be configured to meet each customer's unique needs by selecting from available aircraft, sensors and ground equipment, all of which are currently in production and available for prompt delivery.

Air Vehicle Components

- Durable Modular Composite Air Vehicle
Simple "Snap-Together" Assembly and Disassembly
- Quiet and Reliable Electric Propulsion
- 4-Channel UHF Uplink Receiver and Antenna
- 4-Channel Microwave (Video + Telemetry) Transmitter and Antenna
Demonstrated 10+ Kilometer Line-of-Sight Range
- Onboard Video Switching System
Ground Selection of Forward or Side-Looking Nose Sensor
- Advanced Miniature GPS Navigation Autopilot
Fully-Autonomous "Hands-Off" Operation from Take-Off to Recovery
- Lightweight Waterproof Transportation Case

*Lightweight
Transportation Case*



Back-Packable Electric UAV System

EVOLUTION



Ground Communication System



Remote Video Terminal

Available Payloads

- Dual Daylight Color TV Nose
- Dual Low-Light TV Nose
- Infrared (IR) Imager Nose
- Chemical-Biological Agent Detector and Collector Nose

Ground Communications Systems

- Command/Communications Subsystem Case
- Hi-Gain Video and Telemetry Receiver with Directional Antenna
- Color LCD Video Goggle Display
- 1-Watt UHF Uplink Transmitter
- Rugged Laptop Computer
Advanced Moving Map Mission Planning Software
- Remote Video Terminal
Hi-Gain Receiver, Antenna and Video Goggle for Remote Viewing

Field Support Kit

- With Repair Material, Maintenance Tools, Bungee Launchers, System Transportation Case

System Features

- Fast System Assembly and Deployment (under 15 minutes from "Cold Start")
- Fully Autonomous Flight: Minimal "Man-in-the-Loop" Operation
- Fast System Break-Down (under 2 minutes from Landing to Pack-Up)
- Fully-Interchangeable Factory-Built Components
- Open-Source Primary Lithium Battery Packs



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