



**Bat UAS: A multi-mission, persistent and affordable** family of unmanned air vehicles that can be configured for tactical missions such as communications relay, signals intelligence, maritime surveillance, counter IED, PsyOps and small weapons delivery.

**The HIRTH 2-stroke 15.8 hp EFI engine**, made with carbon pistons and port fuel injection combined with a 5-bladed **low acoustic propeller** provide significant improvements in reliability and quality. Heavy Fuel Engine (HFE) available.

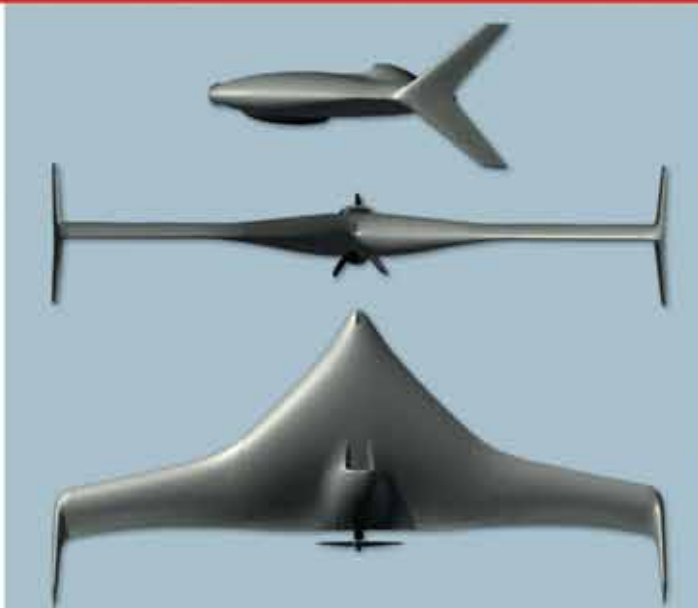
**Modular payloads, LRUs and interchangeable outboard wing sections** allow the UAS Mission Commander to mix and match payloads and wings to meet ever changing mission requirements.

**Blended body design** provides high payload volume. Advanced construction techniques and proven Off-The-Shelf (OTS) avionic components allow for a reliable system operation in most extreme environments.

**Runway independent and fully autonomous**, the Bat UAS launches from a pneumatic/hydraulic rail launcher (the same one used by Shadow), and recovery options include the primary net or optional landing gear.

**Scalable Ground Control Systems** from ruggedized laptops to a 5-ton One System GCS (OSGCS).

**Multiple air vehicles** can be operated simultaneously from a single IP-based, STANAG-compliant GCS that feeds multiple imagery workstations or the PDA/laptop-equipped warfighter. Sensor data from any Bat air vehicle can be routed to remote video displays, including HART terminals.



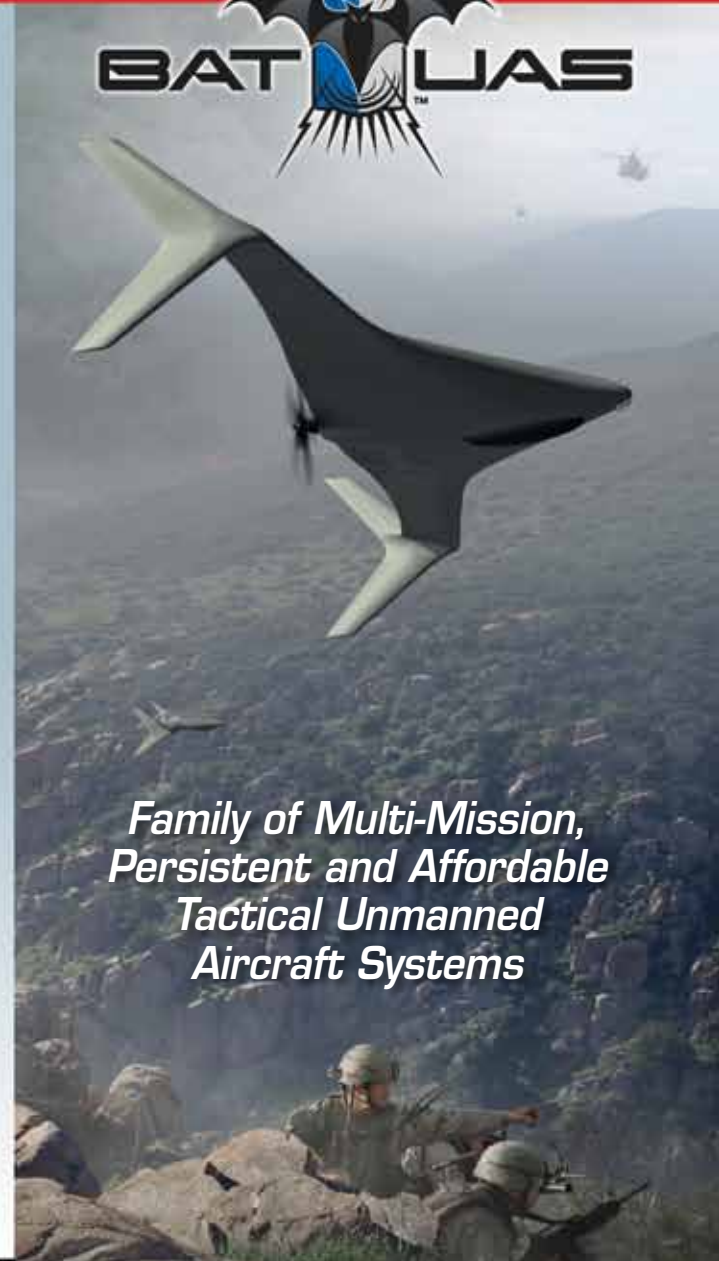
### Bat-12 Specifications

Payload and Comms .....	Up to 75 lbs (34 kg)
Wingspan .....	12 ft (3.6 m)
Length .....	6.3 ft (1.9 m)
Max Gross Takeoff Weight .....	220 lbs (99.8 kg)
Max Altitude .....	20,000 ft MSL (6.1 km)
Max Speed (Level Flight) .....	89 ktas
Loiter Speed .....	63 ktas
Electrical Power .....	Up to 750 watts

### Performance with a Typical 50 lb Payload

Endurance .....	Up to 14 hrs
Range .....	970 nm

### Runway Independent Launch and Recovery



*Family of Multi-Mission,  
Persistent and Affordable  
Tactical Unmanned  
Aircraft Systems*



Family of Tactical Unmanned Aircraft Systems



**Scalable GCS Options**

*Laptop*



*One System GCS (OSGCS)*



**Bat UAS Key Features**

- Group 3 STUAS
- Fully Autonomous
- Up to 14 Hour Endurance with 50 lbs of Payload
- Modular Multi-Mission Payloads:
  - ISR: EO, IR, SAR
  - SIGINT
  - Communications Relay
  - PsyOps
  - Weapons (Lethal and Non-Lethal)
- Modular Line Replaceable Units (LRUs)
  - Payloads, Fuel Tanks, Engines
  - Avionics, Outboard Wing Sections
- Embedded Antennas in Winglets
- Transponder and Position Lights
- One Hour Setup/30 Minute Teardown
- STANAG Compliant
- HART Compatible
- Reliable HIRTH S1212 EFI Engine
  - HFE or Gas



*HIRTH 15.8 hp  
EFI Engine*



*Typical ISR Payload:  
COBALT 190, 2 SARs  
and Data Links*

**Runway Independent  
Seamless Integration with Shadow Launcher**



**Autonomous Net Recovery**

