



**AT-802U: A Versatile Aerial Platform
for Counterinsurgency Flight Operations**



FLEXIBLE AIR POWER ADVANTAGE

The Air Tractor AT-802U LongSword is a versatile, rugged, and dependable aerial platform that brings a multitude of Joint Capabilities to the fight:

- Precision Force Application
- Persistent and Pervasive Battlespace Awareness
- Real-Time Intelligence for Command & Control
- Net-centric Wireless Intelligence Transmission
- Pilot-Saving Protection
- Training-Focused Force Support
- Small Logistics Footprint

Particularly well-suited for force application and battlespace awareness roles in asymmetrical warfare theatres of operation, the AT-802U is both economical and effective. Like a truck, the aircraft is utilitarian in nature, tough and powerful, and configurable to simply get the job done. The LongSword is highly maneuverable and able to deliver weapons with a high degree of accuracy.

Commanders will find that cloud cover and extreme environmental conditions are not a deterrent to intelligence, surveillance, & reconnaissance or strike missions. The AT-802U can fly near nap-of-the-earth profiles in extreme heat and dust conditions or loiter at high altitude with oxygen and massive fuel reserves for a find, fix, and finish capability that is second to none.



AT-802U LongSword: Versatile, rugged, and dependable.



The AT-802U is designed to be maneuverable with a full payload.





FORCE APPLICATION

The armored AT-802U brings firepower in close where it is needed and at the best speed for maximum effect. Capable of employing a large arsenal of weaponry, the aircraft has been built to employ dual 12.7 mm GAU-19/A three-barrel Gatling guns, dual M260 rocket launchers, and 500 lb Mk-82 bombs on nine wing and fuselage hard points (expandable to 15 hard points). The AT-802U is also configurable to carry more advanced weapon systems, including the Lockheed Martin Hellfire II, DAGR laser guided rockets, and Sniper XR surveillance and targeting pod systems.

Communication is vital in close air support missions. The AT-802U is equipped with the Wulfsberg Flexcomm tactical modular multi-band airborne FM/AM radio communications system. This enables the pilot to maintain complete radio communication with practically any radio system utilized by ground units.

Flying where others would not dare, the AT-802U protects aircrews with specially designed cockpit and engine armor, ballistic glass, and self sealing fuel tanks. It is also equipped with the AAR-47/ALE-47 countermeasures suite for defense against IR missile threats.

BATTLESPACE AWARENESS

The AT-802U performs exceptionally well in an intelligence, surveillance, and reconnaissance role at low and medium altitudes. An infrared camera and turret system combined with a secure video downlink allows commanders to see the battle space in real time. The downlink system is ROVER downlink compatible and allows transmission of live video feed to other aircraft, air operations centers, or joint terminal attack controllers on the ground.

The pilot in the AT-802U high-visibility cockpit commands a level of battlespace situational awareness that unmanned aircraft, with “soda straw” sensor views, simply cannot match. Ample fuselage and wing space for antenna and radio installation make it an ideal communications node platform for instant command and control with ground forces or other air assets.

Massive fuel tanks and the very efficient Pratt & Whitney PT6A-67F turbine engine enables exceptionally long mission durations. The cockpit-forward payload area is configurable for a mission-extending auxiliary fuel tank. Additionally, drop tanks can be added to wing/fuselage hard points to enable loiter times of more than ten hours.



The AT-802U, equipped with the 12.7 mm GAU-19/A three-barrel Gatling gun. The LongSword is easily configurable to carry a wide variety of weapon systems.

The AT-802U can employ dual 12.7 mm GAU-19/A Gatling guns, dual M260 rocket launchers, and 500 lb. (226 kg) Mk-82 bombs on nine wing and fuselage hard points. The LongSword is also configurable to carry more advanced weapon systems.



ECONOMICAL MAINTENANCE, REPAIR, AND OPERATIONS

Military acquisition professionals are moving toward aerial platforms that are more cost-effective, increasingly capable, and rapidly deployable. Pressure to reduce operating costs while maximizing reliability, availability, and maintainability, makes it plain to see why the AT-802U LongSword is gaining unprecedented attention in this emerging counterinsurgency operations environment.

A capable military aircraft is only half of the solution to the needs of counterinsurgency operations. An effective military force knows that training makes the difference when lives and victory are at stake. Configured with a tandem seat cockpit and dual controls, the AT-802U is ideal for flight and weapons training to develop tactics, techniques, and procedures.

A simple rugged design, reliable flight systems, robust electrical system, minimal ground support equipment, and the proven Pratt & Whitney PT6A-67F turbine engine give the AT-802U maximum performance at a very low operation cost.

STANDARD AT-802U FEATURES:

- Ballistic glass and cockpit/engine armor
- Self-sealing fuel tanks & emergency fuel tank shut-off
- AMSAFE Inflatable Restraint system integrated with a 5-point harness and crash-worthy seat design
- Crash-worthy airframe
- Oxygen system and air conditioner
- Large and reconfigurable fuel system
- Rough strip low drag landing gear
- High dust environment air induction system
- Configurable weapons control system

Tough, spring steel landing gear is FAA certificated to land at a maximum gross weight of 16,000 lbs., (7,257 kg) allowing the AT-802U to land with a full load of ordnance or fuel.



The AT-802U is designed and built for simple maintenance and requires minimal ground support equipment.

Ballistic glass and panels provide protection from small arms fire.



Crew members each have flight control and instrument systems.





The AAR-47/ALE-47 countermeasures suite is the warfighter's choice for defense against missile threats.



The AT-802U crew is protected by ballistic cockpit armor, crash-worthy seat and Am Safe inflatable restraints. The instrument panel is easily tailored to user needs and is NVG compatible.



The rugged construction and low altitude maneuverability of the AT-802 has been proven in South American narcotics eradication operations since 2002.



The AT-802U comes from a 50-year lineage of the world's leading agricultural and firefighting aircraft.



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