

# AT-802U

Surveillance | Precision Strike | Dirt Strip Utility







**The 802U can loiter quietly more than 10 hours while carrying more than a ton of weapons. It commands a level of situational awareness that unmanned aircraft, with “soda straw” sensor views, simply cannot match.**

## **Surveillance**

Air Tractor has created a surveillance platform that delivers more capability for less money than anything else in the world. The AT-802U combines an 8,000-pound (3,629 kg) payload and 10-hour ISR mission capability with the flexibility and responsiveness of a manned weapon system – for a fraction of the cost of unmanned aerial vehicle systems.

The cavernous internal space of the 802U permits adding virtually any missionized EO/IR, SIGINT or SAR payload. An optional retractable L3 Wescam MX-15Di sensor targeting pod and ROVER video downlink lets ground commanders, other aircraft and forward air controllers see the battle space in real time.

When equipped with state-of-the-art sensors, real time encrypted video downlink, SatCom, and encrypted software defined voice and data radios, the 802U is a cost-effective communications gateway for instant command and control.





# The 802U puts more precision ordnance on target – and does it more cost effectively.

## Precision Strike

The 802U can deliver an impressive payload to the fight. With 11 hard points on the wings and fuselage, the 802U has the flexibility to employ a large arsenal of weaponry.

The aircraft's speed and maneuverability exceeds that of most helicopters, UAVs and cargo aircraft. There's no need to fly supersonic to hot zones when the 802U can be overhead providing quiet surveillance and the deterrent of over 2,900 rounds of .50 cal, four Hellfire missiles, sixteen DAGR laser guided rockets, and two 250 lb. laser-guided bombs.

## Survivability

Air Tractor builds aircraft that help pilots walk away from high-energy ground impacts. The aircraft's legendary survivability is backed up by more than 50 years of aerial spraying and forest firefighting and almost a decade of South American counter-drug operations.

The aircrew safety emphasis is evident from the sturdy steel tube airframe and cockpit structure, AmSafe Inflatable Restraint System airbags, and spring steel landing gear.

In combat, the 802U protects aircrews with robust cockpit and engine armor. Fuel tanks and lines are self-sealing. Ballistic glass windshields and side windows have defeated bullets during counter-drug operations.



**The 802U is tough, powerful, cost-efficient and rapidly deployable. It has multi-mission capability and is built to work in rugged environments.**

### **Dirt Strip Utility**

Many aircraft can launch Hellfire missiles and drop laser guided bombs. But most jets and UAVs require large paved runways, and attack helicopters require hordes of maintainers.

The fight is out there, in the mountains and desert, far away from pavement and policemen. That's why the 802U is built to live and work out there with forward operators, flying off dirt strips with minimal support.

Operating from unimproved airstrips and dirt roads, the 802U can carry out forward arming and refueling point missions to provide unparalleled direct support and overwatch for ground troops. It can deliver fuel and supplies to remote forces.

### **Multi-Mission Capability**

Whether providing air support for a remote border outpost, or surveillance for a convoy, the 802U delivers impressive performance – at a very low operation cost. With an average of 450 flight hours per year, the operations cost for the AT-802 is under \$400 per flight hour.

With its tandem seat cockpit and dual controls, the AT-802U also makes an ideal training aircraft for flight and weapons training to develop weapons tactics, techniques and procedures.



## Specifications

|   |   |
|---|---|
| <b>ENGINE TYPE</b>  | Pratt & Whitney PT6A-67F                    |
| <b>ENGINE TAKEOFF SHP – UNINSTALLED</b>                         | 1,600 @ 40.3° C, 1,700 rpm                  |
| <b>ENGINE MAXIMUM CONTINUOUS SHAFT HORSEPOWER – UNINSTALLED</b> | 1,600 @ 27.5° C, 1,700 rpm                  |
| <b>PROPELLER</b>  | 118 in (300 cm) diameter, aluminum Hartzell |
| <b>PROPELLER GROUND CLEARANCE</b>                               | 39 in (0.99 m)                              |
| <b>GROSS WEIGHT – LANDING &amp; TAKEOFF</b>                     | 16,000 lbs (7,257 kg)                       |
| <b>EMPTY WEIGHT, WITH ARMOR, NO WEAPONS</b>                     | 7,836 lbs (3,703 kg)                        |
| <b>USEFUL LOAD WITH BALLISTIC ARMOR</b>                         | 8,164 lbs (4,000 kg)                        |
| <b>FUEL CAPACITY – WINGS</b>                                    | 380 US gal (1,438 L)                        |
| <b>AUXILIARY FUEL CAPACITY – FUSELAGE</b>                       | 360 US gal (1,363 L)                        |
| <b>WINGSPAN</b>   | 59.2 ft (18.04 m)                           |
| <b>WING AREA</b>  | 401 ft <sup>2</sup> (37.25 m <sup>2</sup> ) |
| <b>MAIN WHEEL SIZE</b>  | 32.0 in (81.28 cm)                          |

## Performance

|   |                     |                     |
|---|---------------------|---------------------|
| MAXIMUM SPEED, NO WEAPONS,<br>AT 10,000 FT (3,048 M)                              | 213 knots (394 kph) |                     |
| PATROLLING SPEED AT<br>10,000 FT; 71 US GAL PER HOUR<br>(3,048 M; 268 L PER HOUR) | 180 knots (333 kph) |                     |
| STALL SPEED, FLAPS DOWN,<br>AT MAX GROSS WEIGHT                                   | 91 knots (169 kph)  |                     |
| STALL SPEED, AT 12,500 LBS (5,670 KG)   | 70 knots (130 kph)  |                     |
| RANGE WITH AUXILIARY FUSELAGE FUEL,<br>ECONOMY CRUISE AT 8,000 FT (2,438 M)       | 1,303 nm (2,414 km) |                     |
| LANDING RUN   | 1,200 ft (366 m)    |                     |
| GROSS WEIGHT  | TAKEOFF ROLL        | RATE OF CLIMB       |
| FULL FUEL LOAD, 10,000 LBS (4,500 KG)   | 680 ft (207 m)      | 3,000 fpm (914 mpm) |
| SURVEILLANCE LOAD, 12,500 LBS (5,700 KG)  | 1,100 ft (335 m)    | 2,200 fpm (670 mpm) |
| SURVEILLANCE & WEAPONS LOAD,<br>14,500 LBS (6,600 KG)                             | 1,400 ft (426 m)    | 1,700 fpm (518 mpm) |

## Standard Features

Ballistic glass and cockpit/engine armor • Self-sealing fuel tanks and emergency fuel tank shut-off • AMSAFE Inflatable Restraint system integrated with a 5-point harness • Air conditioner • Large and reconfigurable fuel system • Rough strip, off-airfield landing gear • High dust environment air induction system



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