

Kestrel-T

DTI's UAV Test Platform

Specifications

Wingspan	105 in
Wing Area	1832 sq in
Wing Chord	17.45 in
Wing Aspect Ratio	6.017
Tail Configuration	Conventional
Horizontal Tail Span	37.875 in
Horizontal Tail Area	350 sq in
Vertical Tail Span	12 in
Vertical Tail Area	129 sq in
Fuselage Length	76 in
Fuselage Width and Height (Max)	6.6 in wide x 11 in high
Overall Height	33 in
Engine Type	RCS 180 -30cc Two-Cycle IC w/CDI
Propeller Type	Bambula 20 in dia. x 8 in pitch
Landing Gear	Tricycle
Servos	High Torque, Metal Gear, Ball Bearing

Capacities

Empty Weight	28.00lbs
Gross Weight	40.0 lbs max
Fuel Capacity	100 fluid oz
Payload Capacity	Max. 12 lbs

Performance

Stall Speed	20 kts
Operational Speed	30 - 60 kt
Normal Cruise	50 - 55 kts
Vne	80 kts
Range, maximum	80 nm
Endurance, maxim	3 hrs & 20 min, no reserve
Altitude Range	Up to 2500 ft
Launch and Recovery	Rise-Off-Ground (ROG), RC via Pilot

Avionics

Autopilot	Piccolo v2.0.4
Ground Station	Piccolo v2.0.4 Operator Interface
Communications	900 MHz UHF



The **Kestrel-T** is a small Unmanned Aircraft System or Remotely Controlled Aircraft (RC) that is currently used to test and validate military sensor packages and system software and hardware components such as ADS-B and ATC Mode C Transponder and Altitude Encoder.

It has a useful load of 12 lbs and can carry side mounted or pod mounted payloads (cameras).

The aircraft can be sold with 72 MHZ RC Receiver and either a Cloudcap Autopilot or a Geneva Flight Tek Autopilot.

Several control station options exist featuring **OpenUMI**. This will allow the aircraft to function as a **STANAG** or **JAUS** vehicle.



Time Aloft - Up to 3 hrs. 20 mins. depending on selected power plant.
Range - Dependent on Data Link selected. Several options are available.
Fuel - Automotive fuel and light oil mix.
Crew Size - 2 to 4 people depending on mission and sensor suite

The **Kestrel-T** has been certified by the **FAA**

Complete mobile Ground Control Stations available for remote site flight support.

Custom avionics installs available.

RC versions available.

Please call to discuss your requirements, pricing and delivery.



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