





Kestrel-T UAS Specifications

Specifications	
Wingspan	105.125 in
Wing Area	1839 sq in
Wing Chord	17.5 in
Wing Aspect Ratio	6.007
Tail Configuration	Conventional
Horizontal Tail Span	38.0 in
Horizontal Tail Area	361 sq in
Vertical Tail Span	12 in
Vertical Tail Area	129 sq in
Fuselage Length	78.75 in, including spinner
Fuselage Width and Height (Max)	6.6 in wide x 11 in high
Overall Height	33 in, ground to top of vertical stabilizer
Engine Type	RCS 180 - 30cc Two-Cycle IC w/CDI
TBO	250 hours
Propeller Type	Bambula 20 in dia. x 8 in pitch
Landing Gear	Tricycle
Servos	High Torque, Metal Gear, Ball Bearing
Capacities	
Empty Weight	29.625lbs
Gross Weight	40.0 lbs max
Fuel Capacity	100 fluid oz
Payload Capacity	Maximum 10.375 lbs
Performance	
Stall Speed	20 kts
Operational Speed	30 – 60 kt
Normal Cruise	50 – 55 kts
Vne	80 kts
Range, maximum	Approximately 165 nm
Endurance, maximum	3 hours & 20 minutes, no reserve
Altitude Range	Up to 2500 feet
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