

SR500 Helicopter UAV Specifications

Item	Specification
Length	3.35m, 132"
Width	610 mm, 24"
Height	1.17m, 46"
Main Rotor (M/R) Diameter	3.3m, 130"
Tail Rotor (M/R) Diameter	558 mm, 22"
Transmission	Steel Gears in oil bath
Tail Rotor	Twin belt driven
Dry Weight	58 kg, 128 lbs.
Fuel Capacity	Standard: 2 gallons Optional: up to 8 gallons
Engine	HIRTH F33 ES, 28hp, fuel injection, electric start
Generator (standard)	800 W, 24 V alternator
Climb Rate	122 mpm, 400 fpm
Maximum Speed	Up to 60 kph
Endurance:	Up to 8 hours (depending on fuel tank configuration and payload)
Maximum Payload	50 kg, 110 lbs. (depending on options, altitude, fuel load)
Telemetry	Many options available, including up to 65 K range with live video feed
Operating Ceiling	2,400 m, 8,000 ft
Camera Platform	Pan and tilt with gyro stabilization available – two camera capacity available – control through ground station
Cameras	Numerous options available, including day video, low light and infrared. Zoom available to 20x
Flight Control Software	Fully autonomous flight with auto-takeoff and landing, unlimited number of programmable waypoints, "point and click" waypoints on map overlay, joystick control (See Flight Controller Specifications Below)
Ground Control Software	Included with system and provides command and control and sensor data on screen with audible warning system
Ground Station	Options include standard laptop, ruggedized laptop or self-contained ground station in hardened case.
Weather Resistance	Unit can be weatherized to fly in moderate rain

Rotomotion Flight Control System Specifications

Item	Condition	Specification
Number of Waypoints	Default RAM Size	Unlimited
Waypoint Parameters		Altitude, Latitude, Longitude, Hold Time, Pirouetting
Waypoint Transition Parameters		Velocity, Heading follow point
Waypoint Accuracy	Light Winds Good GPS Reception	3 m diameter
Altitude Hold Accuracy	Light Wind Good GPS Reception	+/- .5 m
Flight Modes		Manual, Manual on Specific Control, Waypoint, Velocity, Command

Specifications are subject to change