



SR20 Helicopter UAV Specifications

Item	Specification
Length	1540 mm, 61"
Width	355 mm, 14"
Height	570 mm, 22"
Main Rotor (M/R) Diameter	1900 mm, 75"
Tail Rotor (M/R) Diameter	285 mm, 11"
Transmission	Two Stage Belt Drive
Tail Rotor	Shaft Drive
Dry Weight	7.5 kg, 16.5 lbs.
Engine	1800W electric Motor (60V)
Energy Capacity	8Ah battery system (1 battery set composed of 2 batteries), or 16Ah battery system (2 battery sets composed of 4 batteries)
Climb Rate	122 mpm, 400 fpm (AFCS regulated)
Maximum Speed	11 mps, 36 fps [40 kph, 25 mph] (AFCS regulated)
Endurance:	<u>With 1 battery set:</u> 25 min. hover / 35 min. with forward flight (min. 25% forward flight) <u>With 2 battery sets:</u> 50 min. hover / 65 min. with forward flight (min. 25% forward flight)
Payload	5½ kg, 12½ lbs Gross Maximum 3½ kg, 8 lbs with 1 Battery Set 1½ kg, 3½ lbs with 2 Battery Sets
Telemetry	802.11-based, 800m, 875yards, LOS range Long range options available up to 4K range
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
Safety Controller	2.4 GHz DSM2, 800yards, LOS range

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