

ATTACHMENT 1 RMAX SPECIFICATIONS

Basic Dimensions

Blade Span 10.22 feet
Vehicle Length 9.02 feet (11.91 feet including main rotor and tail rotor)
Vehicle Height 4 feet
Total Vehicle Weight (lbs) 187 lbs including camera system
Maximum Payload Weight 20 lbs addition to camera system
Available Payload Power (voltage & amps) 14V x 3.3A
Maximum Fuel Capacity 3.5Gal
Maximum Takeoff Weight 207 lbs

Performance

Airspeed cruise Under 46 mph
Airspeed top 46 mph
Maximum Altitude 3000 feet (with 187 lbs weight) ---- Sea Level
Operational Altitude 400 feet from
Flight Endurance 100 min
Climb Performance ft/min (Unknown)

Ground Support Equipment

Lap-top computer
Flight control box
Radio box & antennas
Manual control transmitter
UPS
Image monitor & DVD recorder

Communications

Data Link Frequency 225-380Mhz
Video Link Frequency 4.4 – 4.94Ghz
Manual control 72Mhz FM (PCM)
Navigation Kinematics differential GPS
Range from ground station 3 Miles

Mission planning and operation

Programmable Autonomous Flight
Manual flight by the flight control box
Manual takeoff and landing by the manual control transmitter
Waypoints re-task able during flight.

Power Plant

Type: Water cooled 2 cycle, opposed twin
Displacement Cubic inches 15 cubic inches
Maximum Engine Speed RPM 6400rpm
Horsepower 21Ps
Fuel - Gasoline Oil Mix, (Yamaha injector oil; 50:1)