

SPIRIT PLATFORM SPECIFICATIONS

HARDWARE

AIRFRAME DESIGN	Coaxial Unmanned Aerial Vehicle
MATERIALS	Polycarbonates, composites, aluminum
HEIGHT	12.0 inches (305 mm)
CORE DIAMETER	4.2 inches (106 mm)
TIP-TO-TIP SPAN	25.5 inches (648 mm)

PERFORMANCE

MAX TAKEOFF WEIGHT	13.5 lbs. (6.1 kg)
CORE WEIGHT	Core Vehicle (no battery or payload) 4.1 lbs. (1.8 kg)
MAX PAYLOAD	Maximum available payload: 6.5 lbs. (3.0 kg) Supports dual payloads (top and bottom)
DRIVE SYSTEM	Direct drive with 2x brushless motors
POWER	12S 44.4 volts Lithium-ion
ENDURANCE	ONE BATTERY: 38 min. w/ no payload 16 min. w/ max payload DUAL BATTERY: 58 min. w/ no payload 32 min. w/ max payload
MAX ALTITUDE	14,600 feet above MSL (5,000 m) demonstrated
MAX SPEED	Manual: >60 mph (100 kph, 27 m/s) Auto (Recommended): 40 mph (65 kph, 18 m/s)
ENVIRONMENTAL	IP56 OPERATING TEMP: -40 to 130F (-40 to 54C) WIND RESISTANCE: CLASS 8 (40mph+)

COMMAND & CONTROL (C2)

AUTOPILOT	Pixhawk Cube. NDAA-compliant, Blue sUAS approved MAVLink compatible Commercial specifications standard, Domestic & MIL-spec Other autopilots and encrypted communications standards available
GPS	GPS, GLONASS, BEIDUO + RTK support
GROUND CONTROL STATION	Manual mode 2-stick control, autonomous navigation w/integrated HD touchscreen LCD (Herelink, UXV Navigator Tab3, Auterion SkyNav)
C2	Alternative options include ruggedized Windows PCs, Android, iOS, RFD900x, DoodleLabs, Microhard, Silvus, Persistent Systems & custom applications
AIRBORNE VIDEO INPUTS	Dual HDMI inputs support simultaneous use of two airborne sensors

