

SAPPHIRE VTOL UAS

RELIABLE. COST-EFFECTIVE. LARGE PAYLOAD CAPACITY.



Launch and recover anywhere



Small operational footprint



Open payload architecture



Fully autonomous from takeoff to landing



FW PERFORMANCE

ENDURANCE ~12 HOURS

CEILING ~15,000 FT DA

CRUISE SPEED 50 KTS

DASH SPEED 75 KTS

RANGE (UNRESTRICTED C2) 250 NM

PROPULSION 7.5 HP EFI ENGINE
W/ 500 WATT STARTER/ALTERNATOR

VTOL PERFORMANCE

HOVER ENDURANCE 3 MIN

HOVER CEILING ~6000FT DA

IN FLIGHT VTOL BATTERY CHARGING

DIMENSIONS

LENGTH 7.75FT 2.4M

WINGSPAN 16.5FT 5.0M

HEIGHT 1.6FT 0.5M

WEIGHTS

EMPTY AIRCRAFT WEIGHT 80LBS 36KG

MAX TAKEOFF WEIGHT 130LBS 59KG

MAX PAYLOAD WEIGHT 20LBS 9KG

MAX FUEL WEIGHT 30LBS 13.5KG

AVIONICS

SPEKTREWORKS VTOL AVIONICS STACK