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The NightHawk is a long endurance, low-observable (low acoustic and thermal signatures) multi-mission platform designed for manned and unmanned operations. Its advanced aerodynamic design, high efficiency turbo-diesel engine and carbon fiber construction enable a range of up to 5000 NM at cruise or approximately 60 hours of endurance while loitering with a payload of 500 pounds operating as a UAV. The NightHawk provides over 135 ft³ of internal space for payload and cargo. Designed to be rapidly deployable via a C-17, its outer wing panels can be removed in less than 30 minutes by two individuals with no special tools. There are 2 hardpoints (designed to carry 450 lb. loads) on the wing which can be used to carry external sensors or auxiliary fuel. The NightHawk is currently TRL 8 as a manned aircraft and is TRL 3 as a UAS.

Base Specifications (Manned)	
Wingspan	57' 4" (17' without outer wing panels)
Weight	Max gross weight - 4500 pounds, empty 2350 pounds
Height	11', 2"
Length	29'
Engine (primary)	SAFRAN SMA SR305-260E, 260 HP
Engine (backup)	PBS TJ-100 turbojet, 300 pounds thrust, stored w/in fuselage tail cone
Fuels	JP-8, Jet A, A1
Fuel tanks	118 gal wing tank
Aux fuel tanks	Two 30 gallon externally mounted wing tanks
Max cruise speed	165 knots
Loiter speed	85-93 knots (~4 gal/hr)
Takeoff and landing distance	1500 ft (no wind at 3900 pounds and without flaps, secondary engine or hybrid turbo diesel)
Range	>3000NM with two 30 gal external wing tanks
Endurance	25 hours loiter time (40+ hours w/external aux tanks)

Hardpoints	Two designed to carry 450-pound loads each. One per wing for external sensors or auxiliary fuel (currently 30 gallons each tank), etc.
Ceiling	> 26k ' MSL, (expecting 30k')
Sensor payload	18 ft ³ primary sensor bay plus four locations throughout aircraft for concealed or enclosed equipment.
Cabin configuration	Manned ISR configuration – three stations: pilot, copilot/sensor operator and 2 nd sensor operator. Utility configuration - 1 crew and space for 4 pax or > 1000 pounds of cargo (~110 ft ³)

UAV Configuration	
MTOW	4500 pounds (with operating limitations)
Internal fuel capacity	250 gal total (118 gal wing tank, 132 gal internal aux tank)
Range	5000+ NM @ 130 knots
Endurance	>60 hours loiter time
Payload	>400 pounds with full load of fuel and 160 ft ³ of concealed/internal space

Note – Specifications will vary by configuration, intended use, sensor options and mission parameters.

