

# Coyote UAS

## Block A2

The Coyote was developed as an expendable unmanned aircraft system (UAS) deployed from an A-size sonobuoy tube. It will perform intelligence, surveillance, and reconnaissance (ISR) missions while the host aircraft remains in safe airspace. This concept is required by multiple services for reasons ranging from improved surveillance imagery, improved targeting capability, near real-time damage assessment and reduced threat to manned aircraft. The Coyote is low cost, and is being developed and tested with a specific view to saving lives, reducing operational costs, and providing tactical surveillance data.



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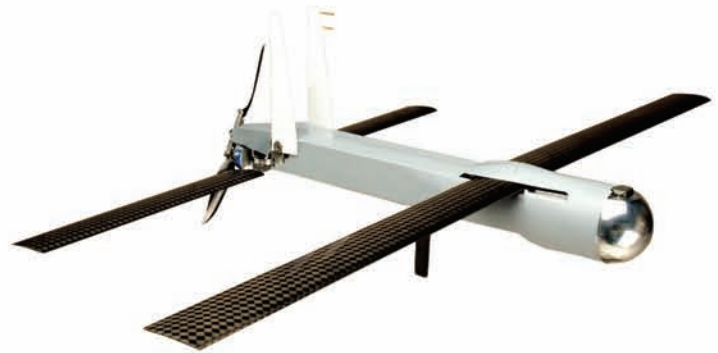
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### SPECIFICATIONS

Air Vehicle Wet Weight – Standard Payload	5.9 kg (13 lb)	Video Transmitter	2 Watt (Optional 5W), S-Band FM Video TX with Optional 19.2 Kbps Data Carrier
Air Vehicle Maximum Take-off Weight	6.4 kg (14 lb)	Video Transmission Frequency Range	S-Band or L-Band
Mission Endurance	1.5 Hours *	Video System Range	37 km (20 nm), LOS *
Mission Airspeed	111-139 kph (60-75 knots)	Payload Capacity	2.27 kg (5 lb)
Dash Airspeed	157 kph (85 knots)	Onboard Power	14V, 50Wh Avionics Payload Power
Max. Endurance Airspeed	102 kph (55 knots)	Motor	Brushless Electric
Stall Airspeed	70 kph (38 knots)	Propulsion	13x12 Foldable Propeller
VNE Airspeed	240 kph (130 knots) *	Shipping Container Size	A-Size Sonobuoy Tube 12.7 cm OD x 92 cm L (5 in OD x 36 in L)
Navigation	DGPS / GPS, DGPS / GPS / INS	Wingspan	1.47 m (58 in)
Nominal Mission Altitude	150-365 m (500-1,200 ft) AGL	Fuselage Length	0.79 m (31 in)
Service Ceiling	6,096 m (20,000 ft) MSL *	Tail Height	30.5 cm (12 in)
Launch	Standard A-Size Sonobuoy Tube	Fuselage Diameter	11.5 cm (4.5 in)
Recovery	Expendable		
Payload (EO)	Color, 10x Optical Zoom, 640x480 Pixel Resolution, FoV: 5° - 46°		
Payload (IR)	Dual Polarity, 2x Digital Zoom, 320x240 Pixel Resolution, Uncooled Microbolometer (7.5-13.5 $\mu$ m), FoV: 36°		
Command and Control Radio (C2)	Up to 2 Watt, Military or ISM Band Radio Modem, Narrow and Wideband Operation Modes Available		
Command and Control Radio Range	37 km (20 nm), LOS *		



\* Estimate based on current system performance.

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