

ST-D180H25

Long Endurance Unmanned Aircraft System

Operationally proven Group 2 or Group 3 (NATO: Class 1 - Small) UAS with unmatched endurance and Modular Open Systems Approach (MOSA) design in an extremely small package

ST-D180H25 UAS MAIN FEATURES





UK Office Sydney House, 62 Lancaster Way, Ely, Cambridgeshire, UK. +44 (0) 20-7723-6337 MENA Office 701 Thuraya Tower 1, Dubai Internet City, Dubai, UAE. +971 4 367 0351



ST-D180H25 UAS SPECIFICATIONS

	AIRCRAFT SPE				
Wingspan		3.3 m / 10.8 ft			
МТОW	Group 2: 2	Group 2: 25 kg / 55 lbs, Group 3: 28 kg / 62 lbs			
Endurance	Group 2: 2 with T180	Group 2: 25.5 hours with T140L and 19 hours estimated with T180			
	Group 3: 2 with T180	Group 3: 25.5 hours with T140L and 19 hours estimated with T180			
Range	180 km /	180 km / 112 mi			
Cruise speed	47-49 kno	47-49 knots			
Max level speed	62.2 knot	62.2 knots			
Ceiling	4000 m /	4000 m / 13000 ft AMSL			
Max takeoff altitude	2000 m /	2000 m / 6500 ft AMSL			
Operational temperature	-30 °C to ·	-30 °C to +50 °C / -22 °F to +122 °F			
Navigation	GPS and r	GPS and magnetometer (for GPS-denied environments)			
Anti-icing measures	Heated pi	Heated pitot tube			
Weather limitations	Rain <5 m	Rain <5 mm/hour / 0.2 inches/hour, 40 knot sustained winds			
Detectability	Inaudiable	Inaudiable at 1km / 0.62 mi			
Transponder	Mode 5 M	ark XIIB or ADS-B			
	PROPULSIO	N SYSTEM			
Engine type	28cc EFI r	28cc EFI module; proprietary low noise mufler			
Engine power	1.5 kw				
Temperature control	Automatio	Automatically controlled via mechanical flap			
Fuel type	Unleaded	Unleaded gasoline or C10			
Generator system	150W onb	150W onboard generator system			
	DATA LINK SPE	CIFICATIONS			
Datalink manufacturer		MO with mesh			
Frequency		UHF, L, C, or S band, customizable			
Link Rate		Up to 20 mbps			
Output power	Up to 10 V	•			
Encryption	AES 256				
	PAYLOAD CAMER	A COMPARISON			
	T95	T140L	T140Z	T180M	
	195	THUE	11402	1100101	
EO HD sensor with 30x optical zoom ratio + 4x digital zoom	×	\checkmark	×	×	
EO Full HD sensor with 30x optical	×	×	~	×	
zoom ratio + 4x digital zoom EO Full HD sensor with 20x optical	~	×	×	×	
zoom ratio + 4x digital zoom 4K EO sensor with 20x optical zoom	~	^	^	^	
ratio + 4x digital zoom	×	×	×	\checkmark	
MWIR sensor with 15x optical zoom ratio + 4x digital zoom	×	×	×	\checkmark	
LWIR sensor with 5x optical zoom + 4x zoom	×	×	~	×	
LWIR sensor with 4x optical zoom	\checkmark	\checkmark	×	×	
Up to 15 km / 9.32 mi Laser Range Finder	×	×	×	\checkmark	
Weight	570 g (1.25 lbs)	1.27 kg (2.80 lbs)	1.40 kg (3.09 lbs)	3.25 kg (lbs)	
	SYSTEM SPEC				
Autopilot					
Autopilot Ground Control Station		loud Cap Technolog		display	
Ground Control Station	Portable in rugged case with laptop and additional display				
Tracking antenna Takeoff	Fully auto	Tracking high gain directional and omnidirectional antennas Fully autonomus pneumatic catapult with 11kJ or 16kJ launch energy			
Landing		Computer assisted parachute recovery; airbag			
Crew size					
	2 System fits in 7 or fewer cases, Weight < 450 kg / 1,000 lbs				
Mobility		s in 7 or fewer cases	. Weight < 450 kg / 1	1.000 lbs	

COMPATIBLE WITH PAYLOAD CAMERA SYSTEMS OF CHOICE



PAYLOAD CAMERA OPTIONS
HD, full HD or 4k resolution for EO
MWIR or LWIR 640x512p for IR
Onboard processing and recording
Moving map software
Automatic target tracking
Moving target indicator
High precision geolocation
Onboard H.265 and H.264 encoder
electronic stabilization
Laser range finder: <1.5 m / 5 ft accuracy
Laser pointer: 830 nm class IIIB, 50 mW

SYSTEM FOOTPRINT

3 aircraft, 1 launcher, 1 tracking antenna, 1 GCS



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