



SKYWARD-X

ST-D150H20



**20 Hours, Uninterrupted
Patrol Borders with unmatched endurance.**

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SKYWARD-X ST-D150H20

The most versatile aerial platform Dedicated for border surveillance and critical infrastructure.



5 Minutes Assembly

The quickest assembly time in the market From the transport case to a ready for takeoff in less than 5 minutes No tools required



Identify People & Vehicle

The high resolution camera systems provide users with incredible zoom capability used to accurately identify people, objects and vehicles.



Payload

Spacious internal payload bay offers unique flexibility in choosing payloads. The aircraft can be equipped with an array of sensors.



Hybrid Propulsion

Developed in-house gasoline electric AirHybrid propulsion systems offers outstanding fuel consumption and power levels. The only in the market with auto starter, booster and generator.



High Quality Surveillance Camera

Equipped with state of the art high quality mapping camera, Skyward offers unparalleled image quality.



Ultra Modular

Leading in the modularity. All components are field replacable/repairable.

Falcon Camera

The Falcon camera is one of the main parts of the control system, which must be adapted to the size of the UAV.

Technical characteristics EO-IR stabilized Camera :

- Zoom on FULL HD = Optical 10x + Digital 16x = Total 160x
- EO camera resolution 1920 x 1080 pixel
- IR thermal resolution 640 x 512 px
- Stabilisation 2 axes mechanical + 2 axes electronic + software stabilization
- YAW/ROLL FOR 360° +

A special fastening system enables damping of vibrations caused by engine operation.



PAYLOAD CAMERA COMPARISON				
	T95	T140L	T140Z	T180M
EO HD sensor with 30x optical zoom ratio + 4x digital zoom	✗	✓	✗	✗
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	✗	✗	✗	✓
MWIR sensor with 15x optical zoom ratio + 4x digital zoom	✗	✗	✗	✓
LWIR sensor with 5x optical zoom + 4x zoom	✗	✗	✓	✗
LWIR sensor with 4x optical zoom	✓	✓	✗	✗
Up to 15 km / 9.32 mi Laser Range Finder	✗	✗	✗	✓
Weight	570 g (1.25 lbs)	1.27 kg (2.80 lbs)	1.40 kg (3.09 lbs)	3.25 kg (lbs)

150 km Video Link

Is a long-range, point-to-point, point-to-multipoint broadband video and data transmission module, and range can reach up to 150 km.

Video link together with the antennas form a reliable connection between the UAV and the GCS by transmitting the video signal



TECHNICAL SPECIFICATIONS



PHYSICAL	
RTF dimension:	Wingspan – 3880 mm Length – 2650 mm Height – 1032 mm
Case dimensions:	1800 mm x 990 mm x 540 mm
Maximum payload and fuel combined:	12 kg
MTOW:	32 kg
PERFORMANCE	
Flight endurance:	Up to 20h
Operating temperature:	-10°C do +55°C (14°F to +131°F)
Cruise speed:	21 – 25 m/s (40-49 knots) 75 km/h - 90 km/h
Flight ceiling:	3500 m AMSL
Environmental protection:	Precipitation up to 2 mm/h
Range :	1800 Km Range
FEATURES	
Propulsion:	AirHybrid gasoline-electric propulsion system
Takeoff:	Grass, hardened road, launcher, auto takeoff
Landing:	On grass, hardened road, auto landing, emergency parachute
Assembly:	Under 5 minutes, no tools required