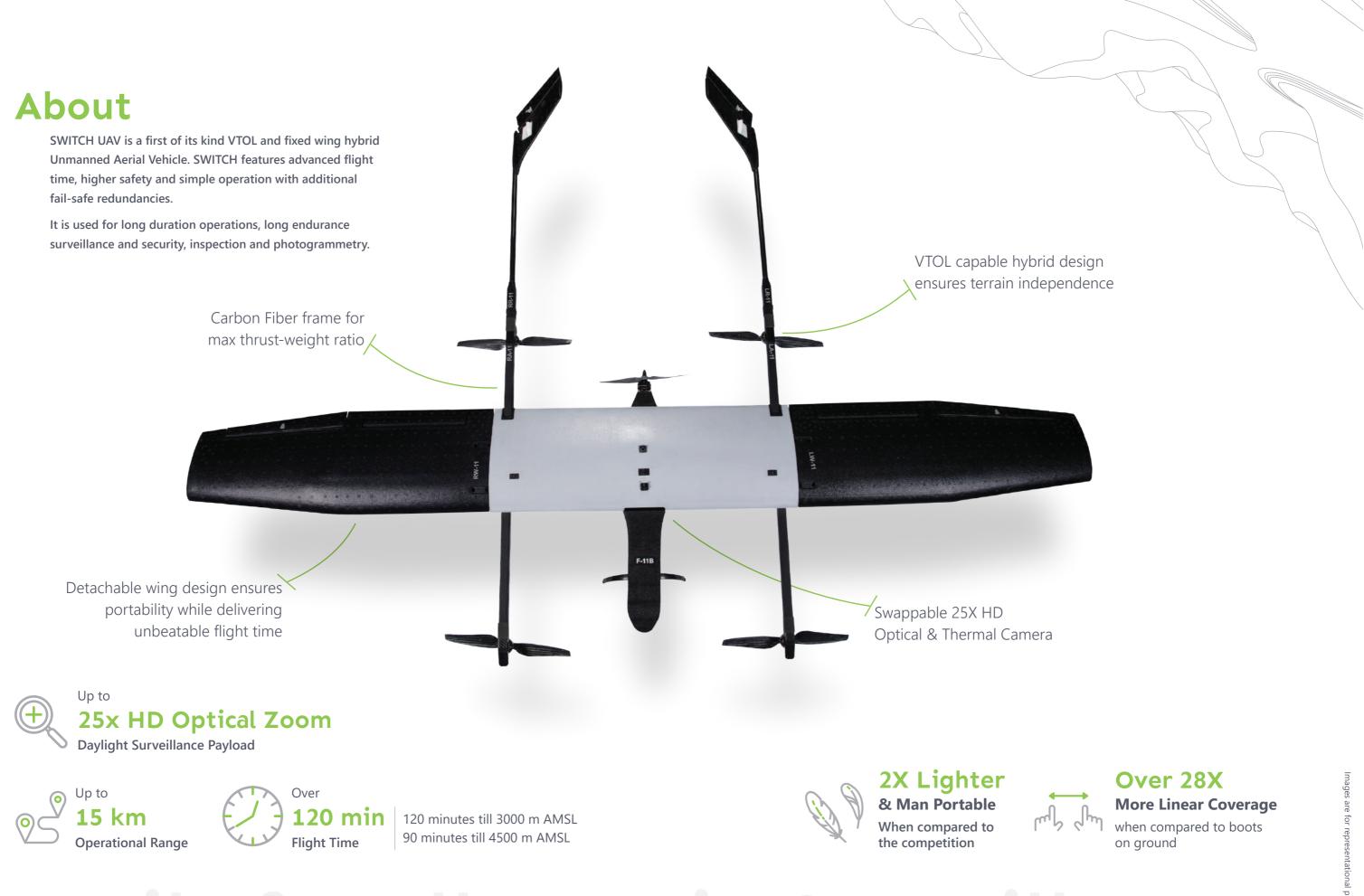


STALL TERRAIN DOMINATOR

Images are for representational purposes only



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Payload

(+)

Whether day or night, SWITCH UAV's advanced combined day & night payload will get you the critical on-ground situational awareness that you need

Real-time HD Surveillance

25x Optical Zoom

GCS-Only Storage for Maximum Security



Ground **Control Station**

ideaForge's state-of-the-art GCS enables fully autonomous flight with utmost privacy and provides a host of safety features.

- (Terrain Avoidance to keep your SWITCH UAV safe
- (Easy take-off and landing ensures you concentrate on outcomes
- (>) Waypoint based navigation for ease of flying
- > Live Display of Flight Parameters to keep you updated every step of the way
- Encrypted Communication for highest privacy
- Capability to Integrate with User Provided Maps
- Annotation of points of interest
- Sail-safe Features for Communication Loss, Low Battery, High Winds, **Temperature Range Violation**

Tech Specs

India is a vast and diverse country. Frigid mountainous regions, hot deserts, humid plains, marine environment and wetlands with torrential rains, the country has regions that represent every weather pattern and terrain conditions. Proudly Made in India, SWITCH UAV has been built to withstand these demanding conditions and deliver stellar performance.

Aerial Vehicle (AV) Characteristics	-7.4
UAV Weight with battery and max. payload	<7 Kg
UAV Size with Propeller	<2.6 m x 1.8 m
Range of live transmission (LOS)	15 km (un-obstructed & interference free)
Typical Cruise Speed	13 m/s
Functional Temperature Range	-15°C to 55°C (Third Party Lab Certified)
Dust & Drizzle Resistance	IP53 rating (Third Party Lab Certified)
Deployment Time	<15 minutes
Navigation Lights	Switchable (from GCS)
Communication link Characteristics	
Frequency Band	2.4GHz or 5GHz (depending on application)
Payload Characteristics	
Day Surveillance	Daylight HD 1280 X 720 px with 25x optical zoom video payload
Night Surveillance	Thermal 640 X 480 px video payload
Payload Replacement Time	<5 minutes
Payload Control (in flight)	Pan: 360° continuous Tilt: 90°
Target Detection Slant Range (Human Size Target)	Daylight: Minimum 1000 m Thermal: Minimum 500 m
Ground Control Station (GCS) Software	Features
Мар	Capability of working with some publicly available open-source maps.
	Application has the capability to download maps automatically after
	specifying location GPS co-ordinates
	2D Maps: Capability to import custom maps
	3D Maps: Capability to integrate SRTM and DTED based elevation data
Terrain Avoidance	Detects and avoids natural terrain by using elevation data (where available
Free Hand Annotation	Capability to annotate areas of interest on the map screen

Warranty - 12 months or 500 flights whichever is earlier





Features



Best in Class Area Coverage Mission Area of over **700 Square Kilometers** available from each takeoff point



DGQA Qualified Designed for DGCA standard



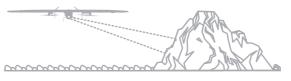
Robust Build Quality Switch UAV's airframe is built for over **500 surveillance missions**



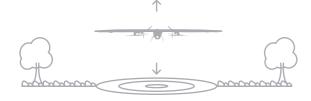
Man-portable Up to 100% lighter than other drones in its class



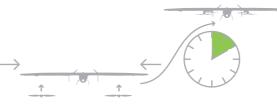
Manual Mode Take control when needed



Target Detection at Over 1 km SLR With HD 25x Optical Zoom payload



VTOL Capable Get unmatched **terrain independence** without the need for traditional runways or launching infrastructure



Less than 10 min Deployment Time User-friendly assembly to conduct surveillance operations faster



Waypoint Based Navigation Ensures Switch UAV does the heavy lifting while you focus on outcomes



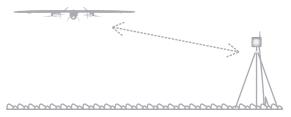


Certified to operate between -15°C to +55°C Operate with confidence in diverse climates



IP53 Certified

Ensuring mission success even in tough conditions



Encrypted Communication

Secured communication between the GCS and UAV with all videos streamed & stored on the operator's system



Applications

SWITCH UAV is rigorously tested to deliver success across the entire spectrum of security and surveillance missions



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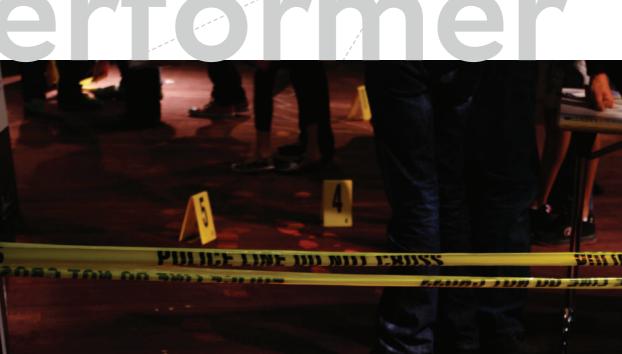
Forest & Wildlife Track criminal activity and boost conservation efforts

Disaster Management

Gain real-time knowledge of the situation and plan search and rescue operations effectively

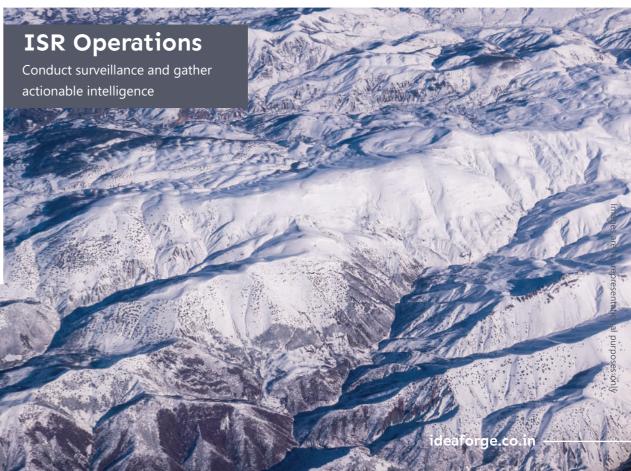


Border Security Conduct reconnaissance missions and track illegal activities without risking lives



Crime Control Enhance law enforcement with remote situation assessment and crime scene analysis

ISR Operations Conduct surveillance and gather actionable intelligence



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Real-world Outputs

SWITCH UAV is the force multiplier that saves lives

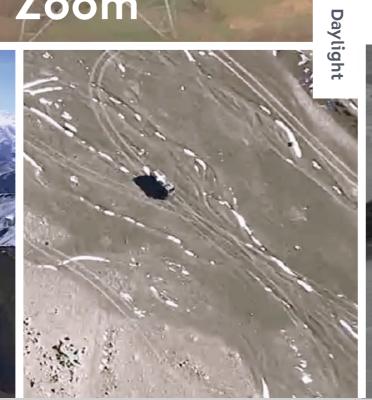
Boost Operation







Thermal



-15°C

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