



SWITCH

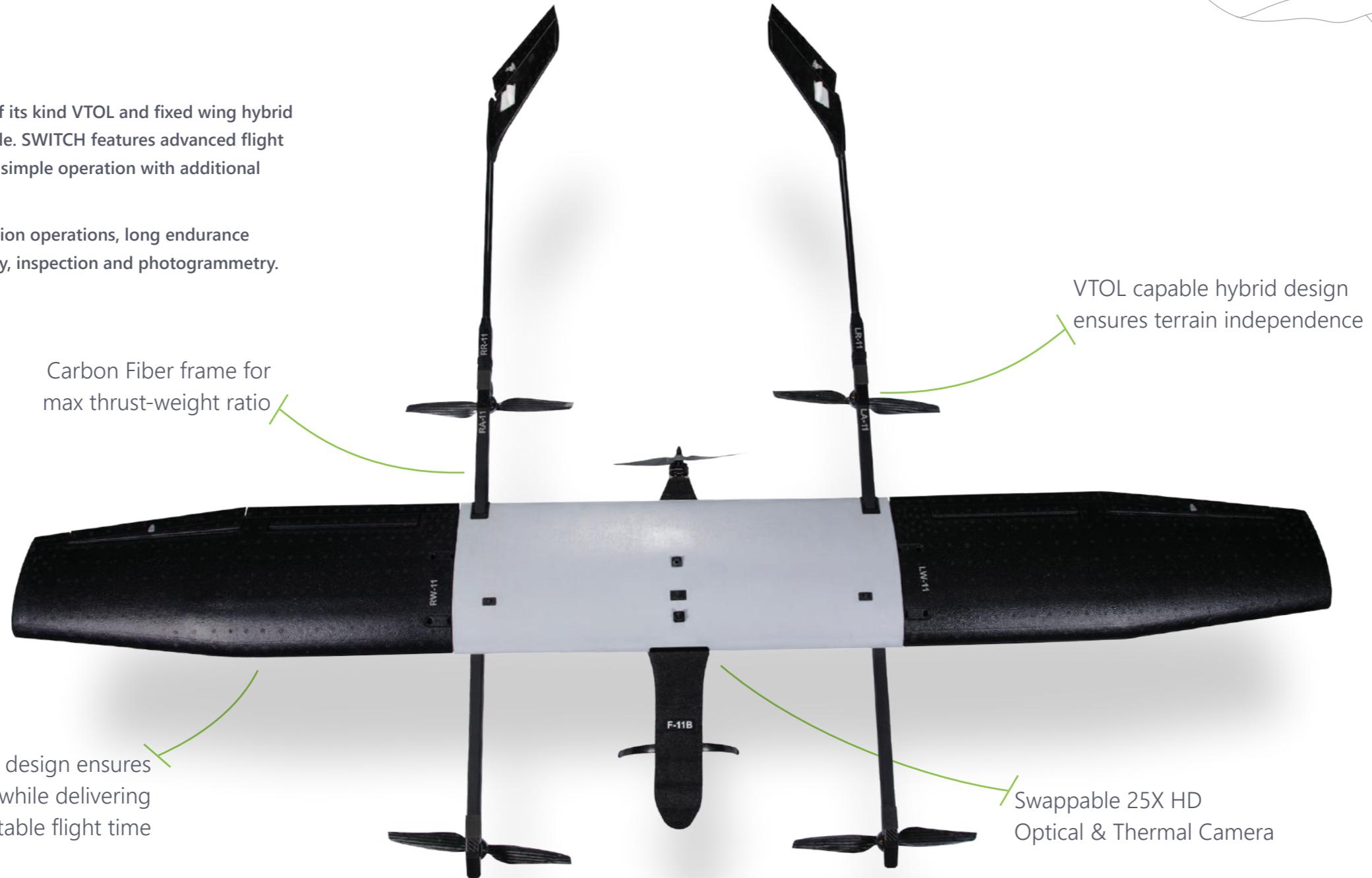
ALL TERRAIN DOMINATOR

Images are for representational purposes only

About

SWITCH UAV is a first of its kind VTOL and fixed wing hybrid Unmanned Aerial Vehicle. SWITCH features advanced flight time, higher safety and simple operation with additional fail-safe redundancies.

It is used for long duration operations, long endurance surveillance and security, inspection and photogrammetry.



Up to
25x HD Optical Zoom

Daylight Surveillance Payload



Up to
15 km
Operational Range



Over
120 min
Flight Time

120 minutes till 3000 m AMSL
90 minutes till 4500 m AMSL



2X Lighter
& Man Portable
When compared to
the competition



Over 28X
More Linear Coverage
when compared to boots
on ground

Built for all terrain Surveillance

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

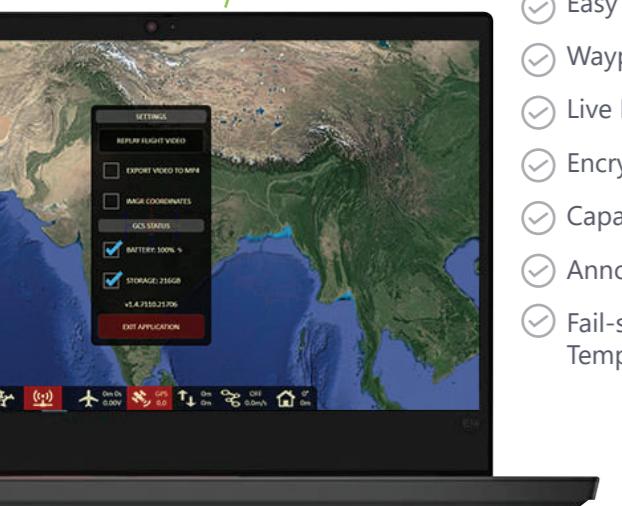


GCS-Only Storage for Maximum Security



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
- ✓ Fail-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

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)
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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

Map	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.

Consistent & Reliable Performance

Features



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



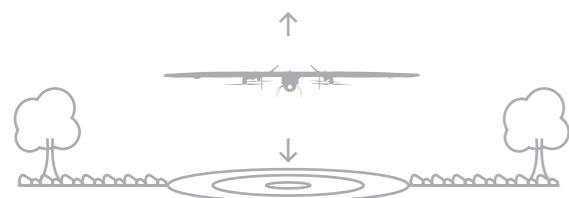
DGQA Qualified
Designed for DGCA standard



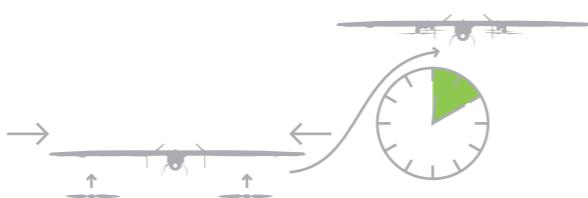
Robust Build Quality
Switch UAV's airframe is built for over
500 surveillance missions



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



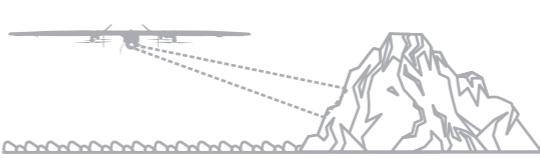
VTOL Capable
Get unmatched **terrain independence** without
the need for traditional runways or launching
infrastructure



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



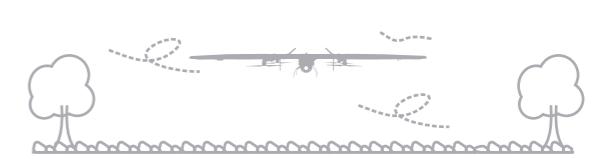
Manual Mode
Take control when needed



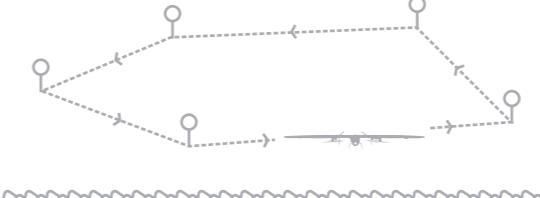
Target Detection at Over 1 km SLR
With HD 25x Optical Zoom payload



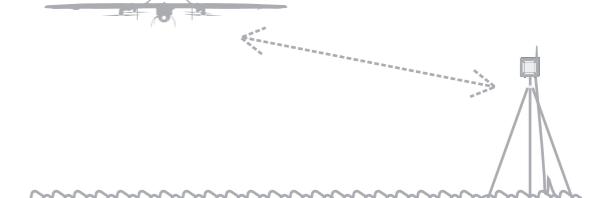
**Certified to operate between
-15°C to +55°C**
Operate with confidence in diverse climates



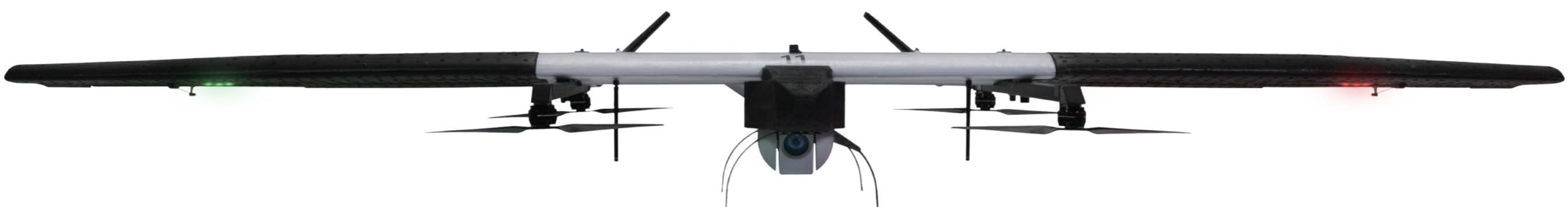
IP53 Certified
Ensuring mission success even in tough conditions



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



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



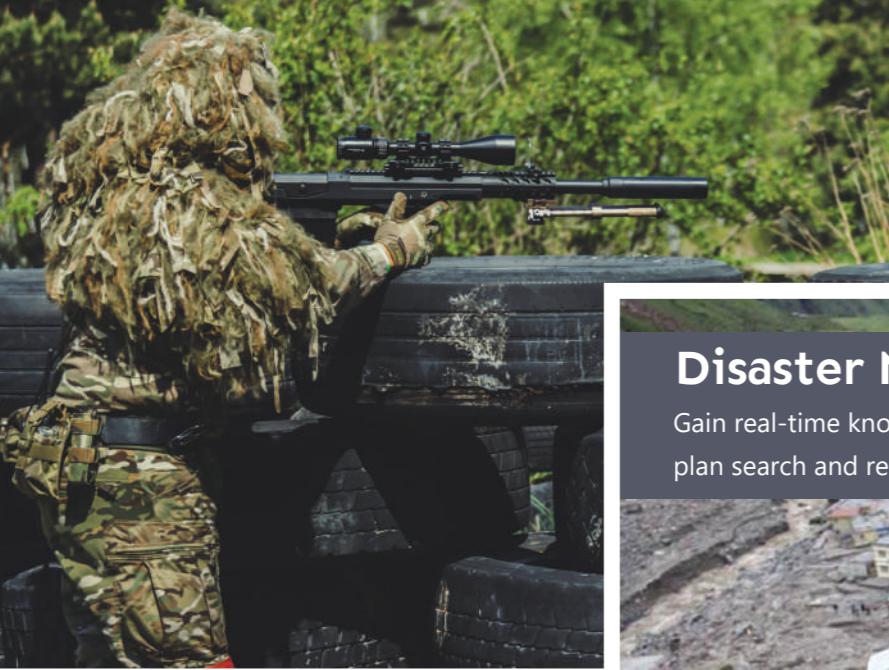
Every Single Time

Applications

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

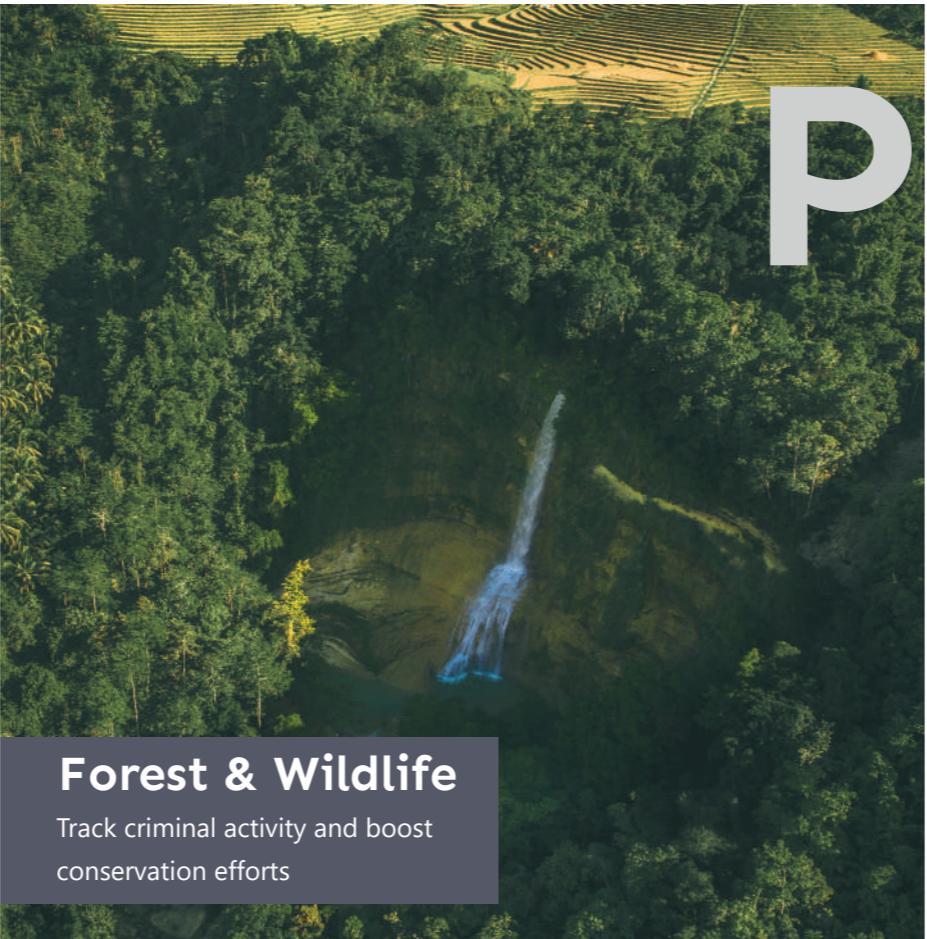
Anti Terror

Detect threats and identify risk-prone areas from a remote location



Forest & Wildlife

Track criminal activity and boost conservation efforts



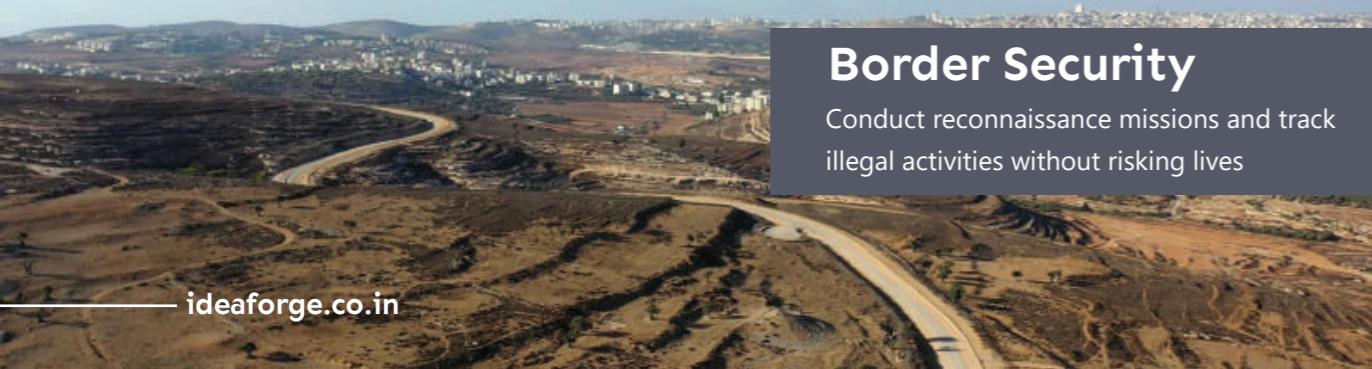
Disaster Management

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



Border Security

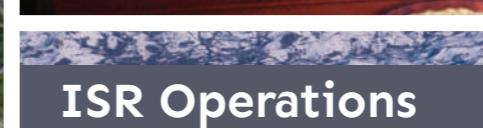
Conduct reconnaissance missions and track illegal activities without risking lives



Performer

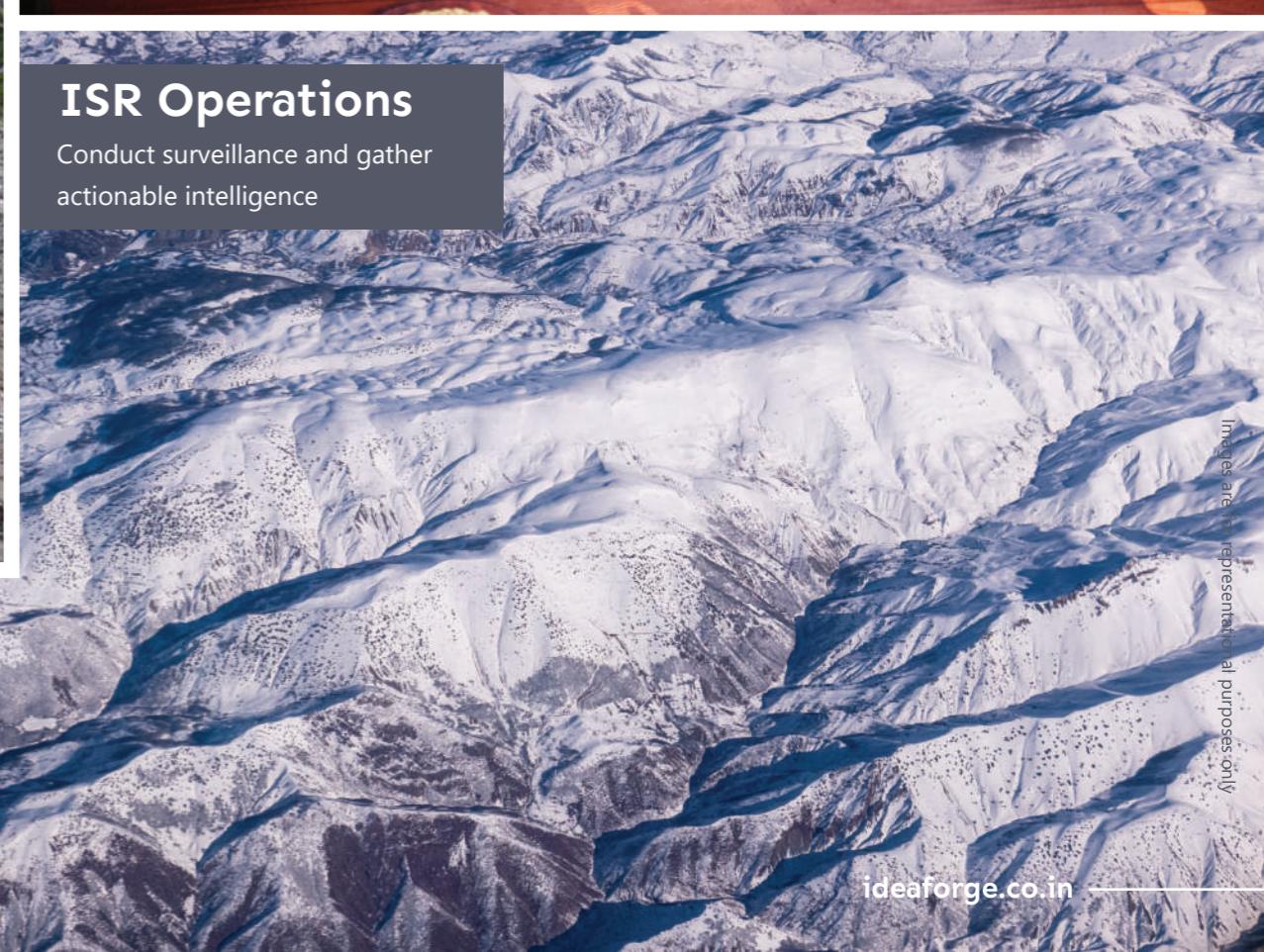
Crime Control

Enhance law enforcement with remote situation assessment and crime scene analysis



ISR Operations

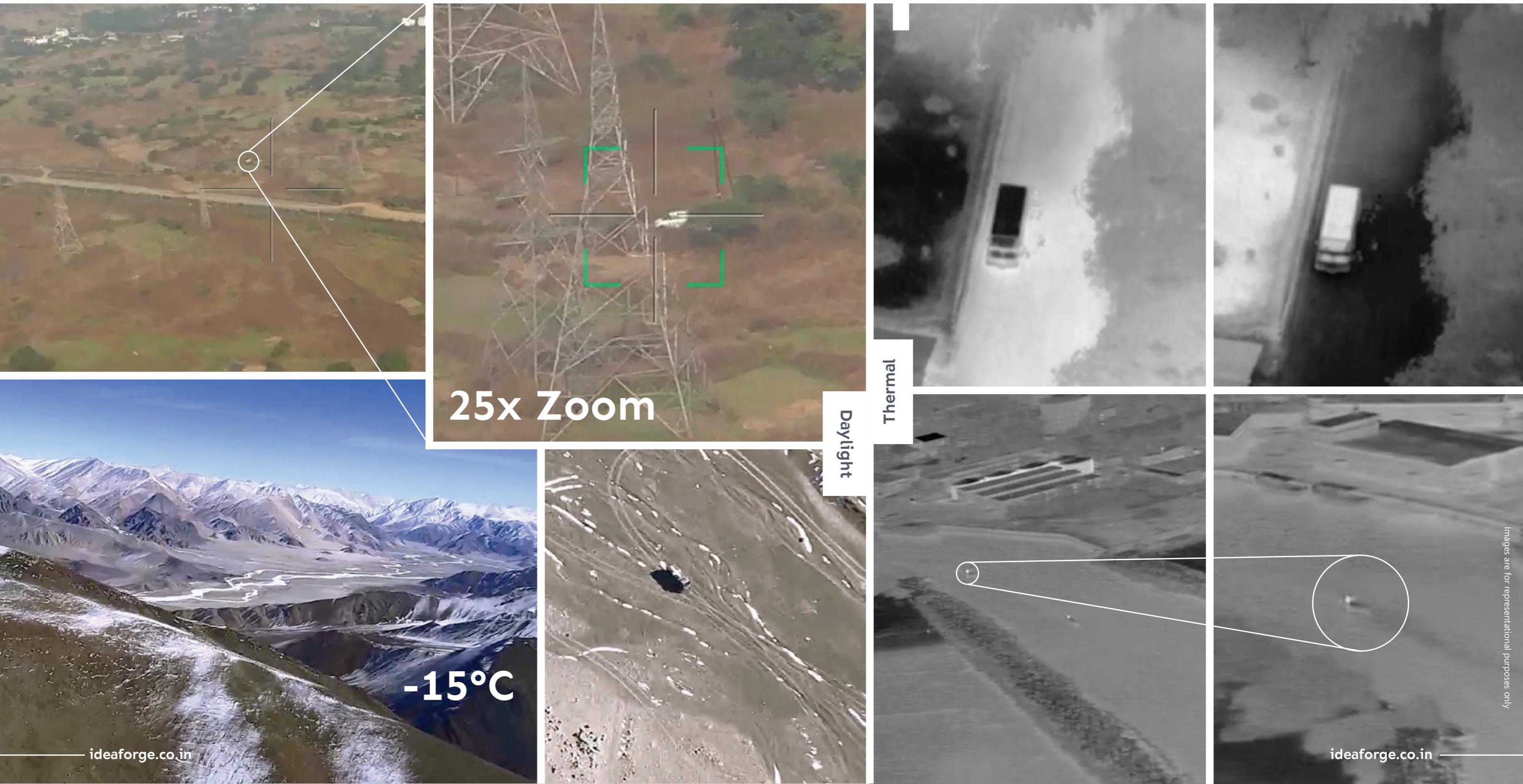
Conduct surveillance and gather actionable intelligence



Real-world Outputs

SWITCH UAV is the force multiplier
that saves lives

Boost Operation



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