



NINJA

LIGHTWEIGHT SCOUT

Images are for representational purposes only

About

NINJA UAV is ideaForge's lightest Drone, built for security, surveillance and mapping applications. With Swappable payloads, NINJA delivers success to your missions, either day or night

Carbon Fiber frame for max thrust-weight ratio

Easy to remove battery

VTOL Capable Quadcopter Design

Swappable 5X Optical Zoom HD Day Camera, Thermal, and Mapping Payloads

Over **60X Faster** Surveillance time

Over **3.75X More Linear Coverage** When compared to boots on ground

Up to **2 km** Operational Range

Up to **25 min** Flight Time

Swappable Payloads

- 5x HD Optical Zoom
- Thermal Surveillance Payload
- 15MP Mapping Payload

Built for all terrain Surveillance

Payload

Even with its sub-2kg weight, NINJA UAV enjoys maximum versatility with its swappable payloads, ensuring that you can surveil locations in the day or night, and even map out unfamiliar terrain without needing multiple drones.



Daylight payload

1280 x 720 pixels with 5x optical zoom



Thermal payload

320 x 240 pixels



Mapping payload

15MP for mapping operations



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 NINJA 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

We have an illustrious history of working with India's defence and homeland security forces and meeting their most demanding requirements. NINJA Prime UAV is a product of this experience and our bleeding-edge technology

Aerial Vehicle (AV) Characteristics

UAV Weight with battery and max. payload	<2 kg
UAV Size with Propeller	<80 cm x 80 cm
Range of live transmission (LOS)	2 km (un-obstructed & interference free)
Typical Cruise Speed	7 m/s
Functional Temperature Range	0°C to +40°C (No Certification)
Endurance (up to 1000 m AMSL Take-off)	20-25 minutes with payload (up to 1000 m AMSL Take-off)
Deployment Time	<10 minutes
Wind Resistance	Upto 10m/s (36kmph or ~20knots)

Communication link Characteristics

Frequency Band	5GHz
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Payload Characteristics

Day Surveillance	Daylight HD 1280 X 720 px with 5x optical zoom video payload
Night Surveillance	Thermal 320 X 240 px video payload
Mapping Payload	Photogrammetry RX0 payload, fixed mount (Optional)
Payload Replacement Time	<5 minutes
Payload Control (in flight)	Pan: 360° continuous Tilt: 90° (Only with surveillance payload)
Target Detection Slant Range (Human Size Target)	Daylight: Minimum 400 m Thermal: Minimum 200 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



Available mission area of over 12 sqkm



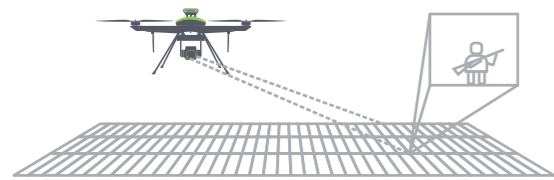
Built with over a decade of experience



Man-portable & lightweight



Designed to operate between 0°C to 40°C



5x Optical Zoom

Target Detection at over 400 meter slant range with HD 5x Optical Zoom payload



VTOL Capable

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



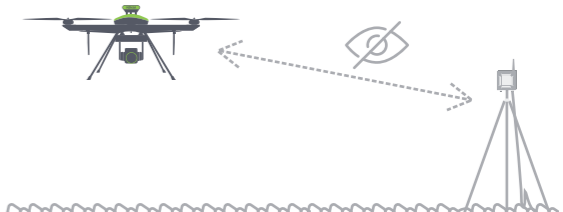
Waypoint Based Navigation

Ensures NINJA UAV does the heavy lifting while you focus on outcomes



Less than 10 minute deployment time

User-friendly assembly to conduct surveillance operations faster



Encrypted Communication

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



Manual Mode

Take control whenever needed

Every Single Time

Applications

NINJA UAV delivers mission success across a variety of use cases



Performer



Anti Terror

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



Disaster Management

Track criminal activity and boost conservation efforts



Mapping

Generate detailed maps of unknown terrain



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

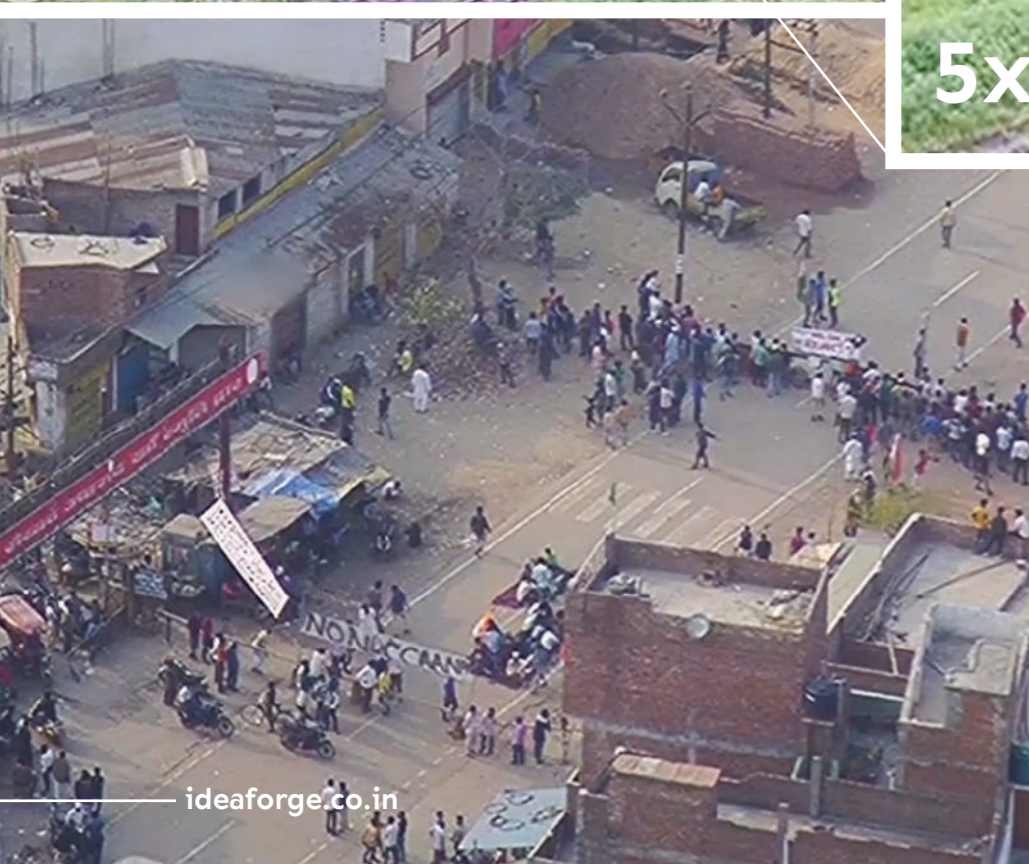
Real-world Outputs

NINJA UAV is built to deliver class-leading outputs that help you make informed decisions

Boost Operation



Thermal



Daylight



Mapping

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