



Advanced day–night surveillance UAV with AI-enabled autonomous threat recognition engineered for persistent intelligence, silent overwatch, and rapid tactical response in all terrain.

## Features:

- Long Endurance UAV suitable for light infantry, special-ops, perimeter surveillance, for quick and easy field deployment.
- Advanced EO/IR sensor suite — crystal-clear imaging suitable for bright daylight to pitch-dark night.
- Real-time AI-powered threat detection & classification — automatically identifies suspicious activity, moving targets, and perimeter intrusions.
- Autonomous mission — capable of extended flight operations with minimal operator intervention.
- Rapid deployment & silent stealth operation — quick launch and low-noise flight profile for discreet surveillance.
- Ability to operate in EW contested environment - RF Jamming & GPS-Denied navigation (Optional).

### **NEXTLEAP AERONAUTICS PRIVATE LIMITED**

F-86 Hangar, Vinyas Building, ITI Ltd, Dooravani Nagar, Krishnarajpuram,  
Bengaluru - 560016

+91 8970704042 | +91 9741958454 | +91 9632107061

contact@nextleap-aeronautics.com

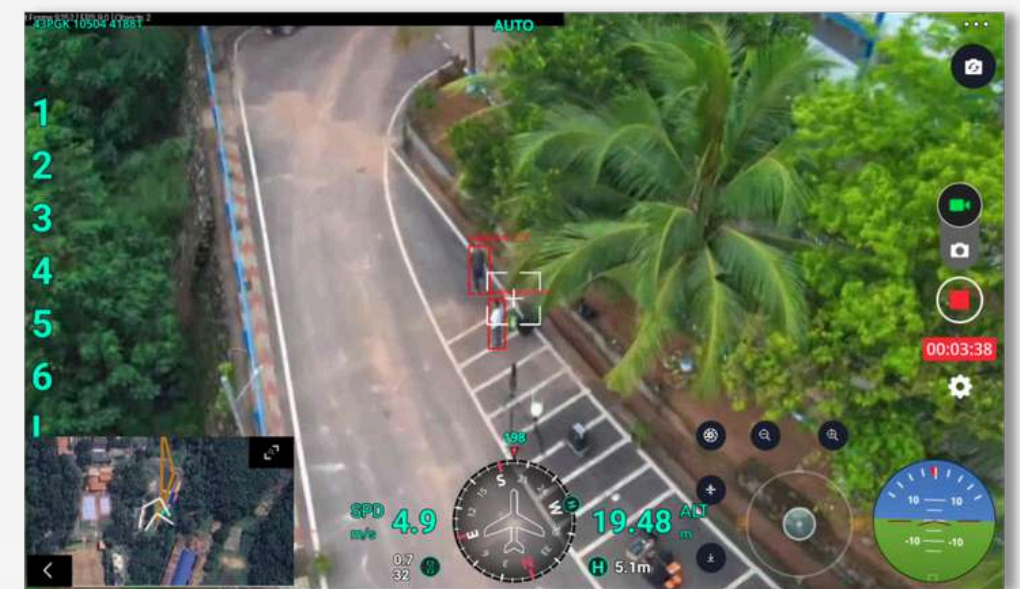
[www.nextleap-aeronautics.com](http://www.nextleap-aeronautics.com)

**PROUDLY  
DESIGNED &  
MADE IN INDIA**



## Specifications:

Max. Take-off Weight	3.5kg
Max. Flight Time	55 mins
Max. Operating Altitude	4000m AMSL
Max. Speed	16 m/s
Communication Range	upto 10km LOS
Wind Resistance	upto 18 knots
Battery Type & Voltage	Li-ion 22.2V
Battery Capacity	16000 mAh
Payload Options	Day & Thermal Camera



HORIZON GCS Software App



XCONTROL Remote Controller

### NEXTLEAP AERONAUTICS PRIVATE LIMITED

F-86 Hangar, Vinyas Building, ITI Ltd, Dooravani Nagar, Krishnarajpuram,  
Bengaluru - 560016

+91 8970704042 | +91 9741958454 | +91 9632107061

contact@nextleap-aeronautics.com

[www.nextleap-aeronautics.com](http://www.nextleap-aeronautics.com)

**PROUDLY  
DESIGNED &  
MADE IN INDIA**

### 24/7 FULLY AUTOMATED PERIMETER SURVEILLANCE



India's **first all-weather autonomous UAV docking station** – delivering fully automated 24/7 perimeter security and surveillance with zero human intervention.

Total Weight	105kg
Dimensions	1675 x 885 x 735mm (L x W x H)
Input Voltage	100-240V AC, 50/60 Hz
Inbuilt Charger	18 to 26.1V Charger, 60 minutes charger
HVAC System	Compressor based Air Conditioning
Battery Backup for Dock	upto 6hrs (Inverter & Lead Acid Battery)
In-built Sensors	Wind speed, Rainfall, Ambient Temperature, Water immersion, Temperature & Humidity sensor
Lightening Protection	EN/IEC 61643-11 & 61643-21 Compliant
Communication to Ground Control Center	Fiber-optic, Ethernet with NxtQube Argos Software

**NEXTLEAP AERONAUTICS PRIVATE LIMITED**

F-86 Hangar, Vinyas Building, ITI Ltd, Dooravani Nagar, Krishnarajpuram,  
Bengaluru - 560016

+91 8970704042 | +91 9741958454 | +91 9632107061

contact@nextleap-aeronautics.com

[www.nextleap-aeronautics.com](http://www.nextleap-aeronautics.com)

**PROUDLY  
DESIGNED &  
MADE IN INDIA**

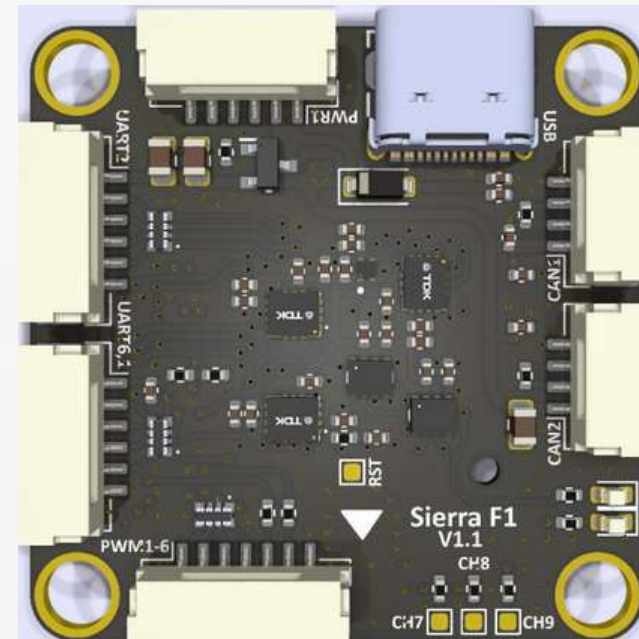
Powered by electronics **Made in India** from flight controller, GNSS module, RF Communication system, GCS Remote controller, BLDC motors & propellers.

**“Staying true to the Atma-Nirbhar Bharat Initiative”**



### Sierra TruNav Pro GNSS Module

Supports IRNSS, onboard RM3100 compass & DPS310 Barometer



### Sierra F1 Mini Flight Controller

Powered by Cortex®-M7 core, triple redundant TDK ICM42688-P IMUs & dual DPS368 barometers



### NextLeap XCONTROL GCS

Advanced Ground control station remote controller with Android 9 inch tablet & 10km RF Data + video telemetry system



### Lightweight BLDC Motor

High performance, lightweight IP45 rated BLDC motors & propellers manufactured in India

## Compatible Day and Thermal Camera Payloads



ControParas Micro 300



Nextvision DragonEye2



Gremsy Lynx  
NDA compliant



Topotek DHU662

### NEXTLEAP AERONAUTICS PRIVATE LIMITED

F-86 Hangar, Vinyas Building, ITI Ltd, Dooravani Nagar, Krishnarajpuram,  
Bengaluru - 560016

+91 8970704042 | +91 9741958454 | +91 9632107061

contact@nextleap-aeronautics.com

www.nextleap-aeronautics.com

**PROUDLY  
DESIGNED &  
MADE IN INDIA**