IDR Research And Development Pvt. Ltd.

ABOUT IDR

IDR Research & Development Pvt Ltd is a deep tech company in the aerospace sector aiming to redefine the concept of military surveillance by means of Nano Drone Technology. We are enabling carbon-free, smart, nano size aerial solutions with inherent capability to ensure speed, negligible visual & acoustic signatures, ease of operations, and precise navigation bringing new dimensions to military surveillance during operations. Our Electric Vertical Takeoff & Landing (eVTOL) Nano drones and their ecosystem provide end-to-end surveillance solution for forces during counter insurgency, counter terrorist and mechanized operations in all types of terrain.

BUSINESS DEVELOPMENT PARTNER
MAXIMA DEFENCE SOLUTION

Col. Pradeep Sharma, SM (Retd)

Col. Manish Sengar (Retd)

CORE TEAM

Mayank Pratap Singh
Founder & CEO

Ankur Yadav
Co-Founder & COO

Vyom Rajan Singh
Co- Founder & CTO

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Empowering Indian Armed Forces with Cutting-edge Indigenous

NANO UAV TECHNOLOGY

IDR DOOT MK-1

The First Responder

IDR Research And Development Pvt. Ltd.

FOR NATION, ONLY FOR NATION

— राष्ट्र के लिए, सिर्फ राष्ट्र के लिए —

CAPABILITIES

- Personal Nano-sized UAV system
- Launch within 10 seconds
- Live HD feed in multiple screens
- Non Line of sight operability
- Swappable battery options
- All terrain operability
- Less visual & acoustic signature
- Encrypted communication link
- Rapid fast charging for emergency ops
- Easily transportable (less than 2 kg)
- Build to operate in small spaces, compact dense areas, jungle & mountain areas

TECHNICAL SPECIFICATIONS

- Compact Size
  155 x 125 x 55 mm
- Ultra Light Weight
  Under 350 gms
- Endurance
  Upto 25 minutes
- Live Video Feed
  Range (LOS): 1.5 KM
  Range (NLOS): 200 Meters
- AGL
  Upto 750 m
- Non GPS Flying
  Close Combat Ops, Urban Warfare
- Less Visual & Acoustic Signature
  Less Than 10 dB At 70 m Height
- Cruise Speed
  Max 80 KMPH
- Navigation
  Autonomous, Compatible With Defence Series Map
- Fail Safe Features
  RTH On Communication Failure & Low Battery

WHAT MAKES **IDR Doot MK-1** DIFFERENT

DESIGN

Indigenously Designed and developed nano UAV. The modular design ensures a lightweight and compact build, enabling operation in diverse weather and terrain conditions.

AVIONICS

Incorporated with compact, nano-sized, high-precision sensors and electronics to achieve optimal performance. The electronic circuit is fully shielded & protected, ensuring a seamless & interference-free communication.

DEP (Distributed Electric Propulsion)

Distributed Electric Propulsion with two point failure & maximum safety. SIC based high voltage propulsion system for maximum efficiency

BATTERY

Specially designed batteries to operate at maximum efficiency in negative ambient temperature from -10° C to 50° C