www.ijarp.com ISSN 2456-9992 Page: 01-02

International Journal Advanced Research Publications

Review Article

Volume: 02
Issue: 11

MULTI UTILITY HYBRID ROBO DRONE "AKM-ULTRA"

***Dr. Ashish Mahana**

Article Received: 12 October 2026, Article Revised: 01 November 2026, Published on: 20 November 2026

***Corresponding Author: Dr. Ashish Mahana**

Doi: https://doi-doi.org/101555/ijarp.5675

Features-

- The Drone can be use in Sky, Land and Water.
- World's 1st propeller interchange system for longer endurance.
- Hybrid Power system - Solar and Battery.
- Smart load management system for longer battery life
- Suitable for Military Operation.
- Customize as per requirement of user

Everybody knows how drones are useful in current situation, in every field uses of Drones increasing. For Army its now very essential . without latest drones our army cannot survive. We can take example of ongoing war of USA and IRAN. Every country knows the power of Iranian drone so now every country focusing on developing drone with latest technology.

So I have decided to work on this project and I have designed a prototype of a latest Drone. Generally drones are files in sky but this drone can fly in sky move on land and land on water too. It has double propelling system 4nos of bigger blades and 4 nos of smaller blade. we can choose bigger blade option for carry load and smaller blade option for normal operation.

So that we can save battery power and drone can fly for long time. This system 1st in world. Also it work in 2 mode.. Solar cell and battery pack . This hybrid system can charge the battery in day time even in the timing of flying so that the drone can endurance for long time. Due to smart dual propelling interchange system the motor can run more hour without heating or damage.

I have designed it for ground operation too It has four robotic wheels so that it can easily roll on any road or ice too. it can be useful for land mine detection and defusing purpose also

after certain customize. It can be use for handling suspected goods and taking throw in safe zone without any casualty. It also Supply arm and ammunition, food, medicine & water to solider.

It can also easily land and takeoff from water surface too and can be customize for utilized in any water operation.





