




MISTRAL
... Partners in Real Time

MISTRAL
XHERPA 

Rugged, All-weather Heavy Payload Logistics Drone

OVERVIEW

Mistral Xherpa™ is a rugged, all-weather heavy payload logistics Drone designed to operate in harsh environment and at very high altitudes. Mistral Xherpa can be deployed for tactical operations at altitudes from 5000 to 20000 feet, making it ideal for windy mountainous terrains with high snowfall.

One of the most critical challenges of the Indian Army across northern and eastern borders is the transportation of essential goods like fuel, ammunition, food, and medical kits from Base depots to the forward posts at very high altitudes. In many situations, transporting a 50kg cargo may take up a full day. This situation is compounded further during harsh weather conditions. The Mistral Xherpa can efficiently manage these daily logistics by easing transportation of these essential goods, saving time and reducing the risk to human lives.



HIGHLIGHTS



High payload lifting capacity



Superior flight stability and endurance



Autonomous operation



Highly optimised drone architecture



Designed to operate in high altitude



Easy to deploy and use

SPECIFICATIONS

- ▶ Payload of up to 50 kg
- ▶ Operational altitude of up to 20,000 Feet above MSL
- ▶ Range up to 20km (modular set-up and line of sight)
- ▶ Flight time of 20 - 25 min
- ▶ Cruise at 50 - 60 Kmph (max speed 80Kmph)
- ▶ Manual & autonomous operational modes
- ▶ MTOW (Max. Take-off weight): 250 kg
- ▶ Number of motors: 4-8, 22 Kw
- ▶ Battery: Li-Ion Battery, 50.4V, 12 Kwh
- ▶ Charge time: Approx. 60 min
- ▶ Operating temperature: -20°C to 35°C

MISTRAL XHERPA ADVANTAGES

- ▶ Payload capacity of up to 50kg
- ▶ Operates at up to 20,000 ft altitude
- ▶ Manual and fully autonomous logistics delivery
- ▶ Quick, accurate and efficient payload deliveries
- ▶ Designed for harsh weather conditions
- ▶ Minimises risk to lives in conflict and bad weather conditions



GROUND CONTROL STATION

Ground Control Station of Xherpa is a heavy-duty computer built inside a rugged flight case, running GCS software and all necessary video and telemetry data links. GCS is available in large single or dual displays and can either be placed on the ground, on a portable table, or with integrated foldable legs. Portable GCS units in HOTAS (Hands on Throttle and Stick) layout is also offered on request.



ABOUT MISTRAL

Mistral is a technology Design and Systems Engineering company providing end-to-end solutions for product design and application deployment. Mistral is focused in three business domains: Product Engineering Services, Aerospace and Defense & Homeland Security. Mistral's Homeland Security domain offers a variety of security and surveillance solutions such as Command and Control Centres, Mobile C4ISR, Drone Detection and Neutralizing Systems, Video Analytics, Tactical Communication Systems & Traffic Management Systems that are designed for the use of Special Forces, Police and Para-Military for Emergency Response Management, Disaster Management and Border Surveillance.

Mistral's Homeland Security solutions enable governments to upgrade and modernize their set-up and systems, with the latest technologies and equipment. These solutions provide the information in real time, enabling quick and rapid decision making.

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