amosRojo

amosAerospace

Specifications
Payloads
Applications

SPECIFICATIONS - ROJO

Material	Carbon Fiber
Shipping Dimension	1300mm*530mm*470mm
Wingspan	2500mm
Length	1260mm
Max. Flying Height	4800m
Max. Cruising Speed	26m/s@12.5g
Frame Weight	3.2kg
Self Weight(No Payload, No Battery)	6.2kg
Max. Take-off Weight	13.5kg(0-3000m)
Suggested Payload	1.2kg
Battery	6S 25000mAh Lipo Battery x2

PAYLOADS - KEY FEATURES

DUAL CAMERA 30X

- OBJECT TRACKING
- LASER NIGHT VISION
- 1080P SUPPORT @ 50 FPS
- ±0.008° 3-AXIS GIMBAL STABILIZATION

MAPPING CAMERA

- EFFECTIVE MEGAPIXEL 24.3MP/20 MP
- HDMI AND USB 2.0 SUPPORT WITH IMAGE STABILIZATION
- BODY ONLY WEIGHT - 105G

MULTISPECTRAL CAMERA

- WI-FI CONFIGURATION
- GPS SUPPORT
- LIGHTWEIGHT @ 72G
- RESOLUTION - 1280P×960P

APPLICATIONS

- Delivery for medicinal and other supplies
- Search and Rescue
- Target Monitoring

APPLICATIONS

## Delivery of Medicinal and other related supply

Medicinal delivery using drones can significantly improve access to essential medicines, especially in emergency situations where speed is critical. Drones equipped with medical payloads can be used to deliver vaccines, medications, and blood products to areas that are otherwise difficult to reach.

In 2020, during the COVID-19 pandemic, the Indian government used drones to deliver medical supplies, including PPE kits and testing kits, to remote areas.

APPLICATIONS
Search & Rescue
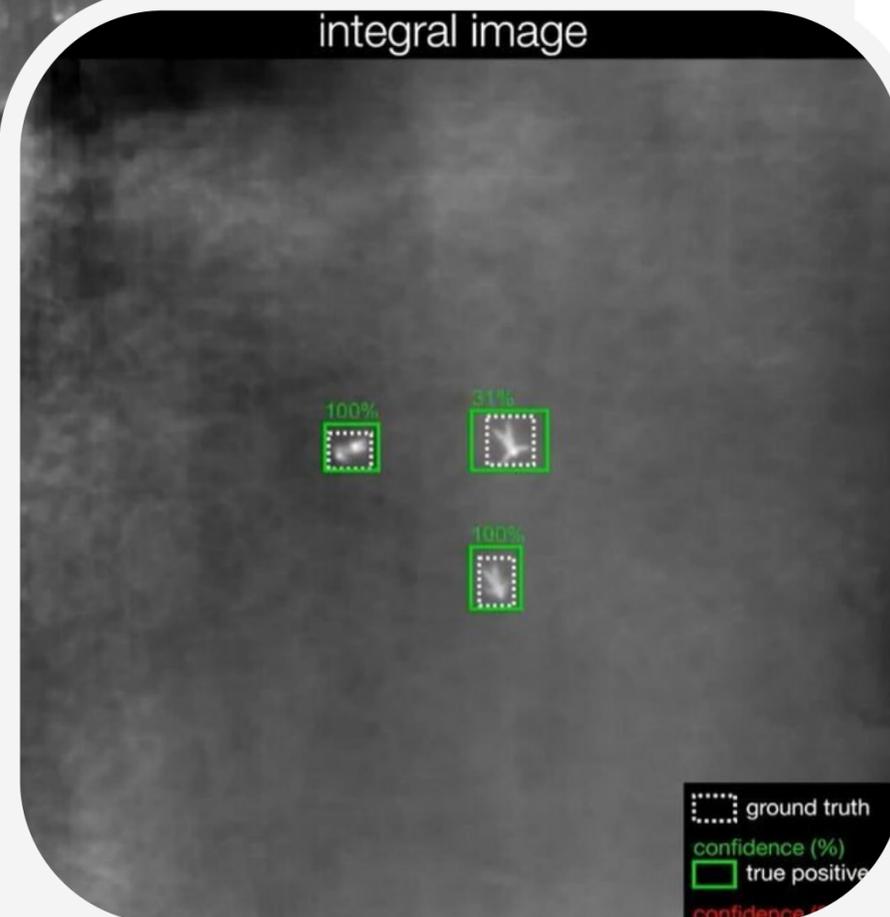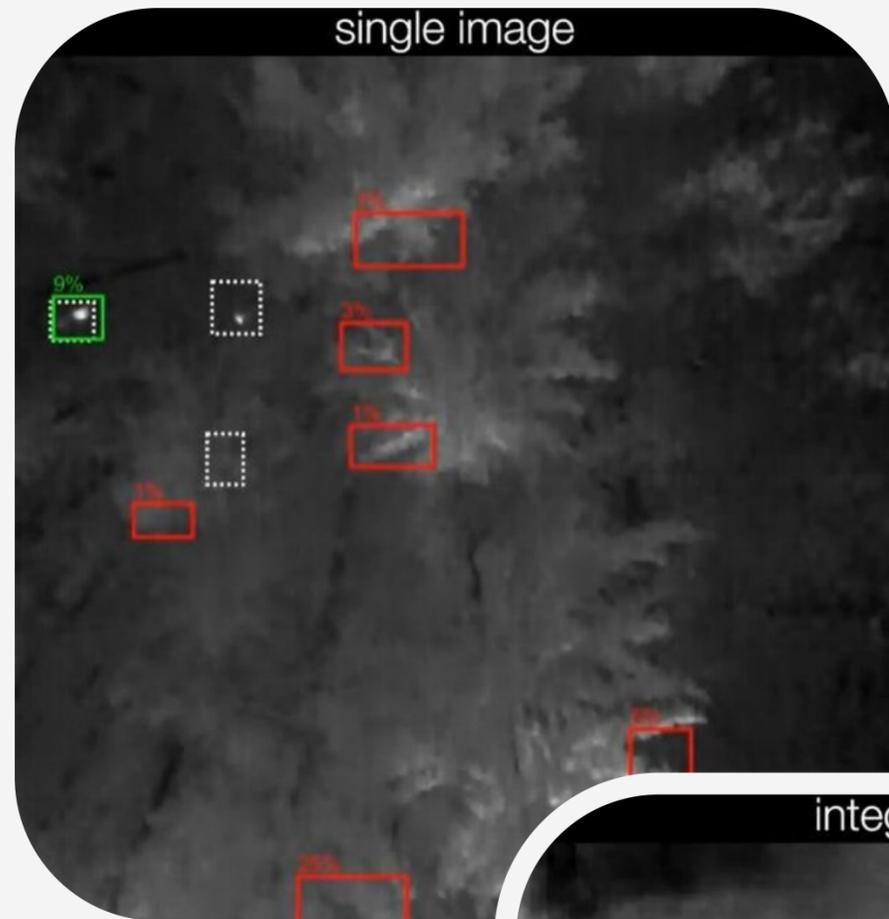
The use of drones for Search-and-Rescue (SAR) operations can significantly improve the speed and effectiveness of rescue efforts, particularly in areas that are difficult or dangerous to access. SAR drones can provide real-time data, imagery, and video that can help locate missing persons or victims of natural disasters.

After Hurricane Harvey in 2017, drones equipped with sensors and cameras were used to assess the damage and locate survivors, covering large areas quickly and providing crucial data to rescue teams.

Target monitoring by drones is a relatively new application of drone technology that involves using drones to monitor and track specific targets, such as individuals or vehicles. This technology has been adopted by law enforcement and military organizations to enhance their surveillance capabilities and to support missions that require real-time situational awareness.

Target Monitoring

The use of drones for law enforcement purposes is expected to increase by 20.5% from 2020 to 2027.
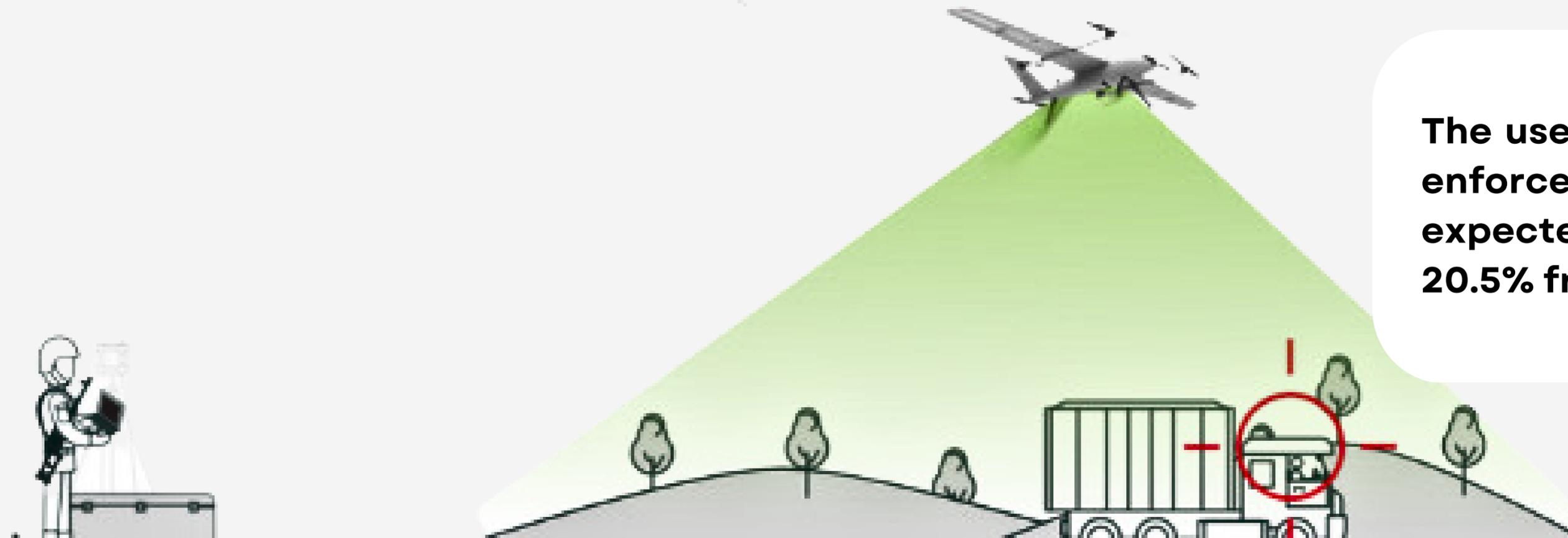
GROUND CONTROL SYSTEM

Ground control systems are a critical component of operating drones. These systems allow a drone operator to communicate with and control the drone, as well as monitor its flight path and status. Ground control systems typically consist of a control interface, a communication link between the operator and the drone, and software that allows the operator to program the drone's flight path and behavior.

Here are some devices for Ground Control Systems:

PANASONIC TOUGHPAD

SAMSUNG TABLET

PANASONIC TOUGHBOOK

GETAC RUGGED WORKSTATION

HERELINK TRANSMISSION SYSTEM

GROUND CONTROL SOFTWARE

Ground control software for drones, also known as drone management software, is a crucial component for the safe and efficient operation of drones. This software is used to plan, control, and monitor drone flights, as well as to process and analyze data collected by the drones.
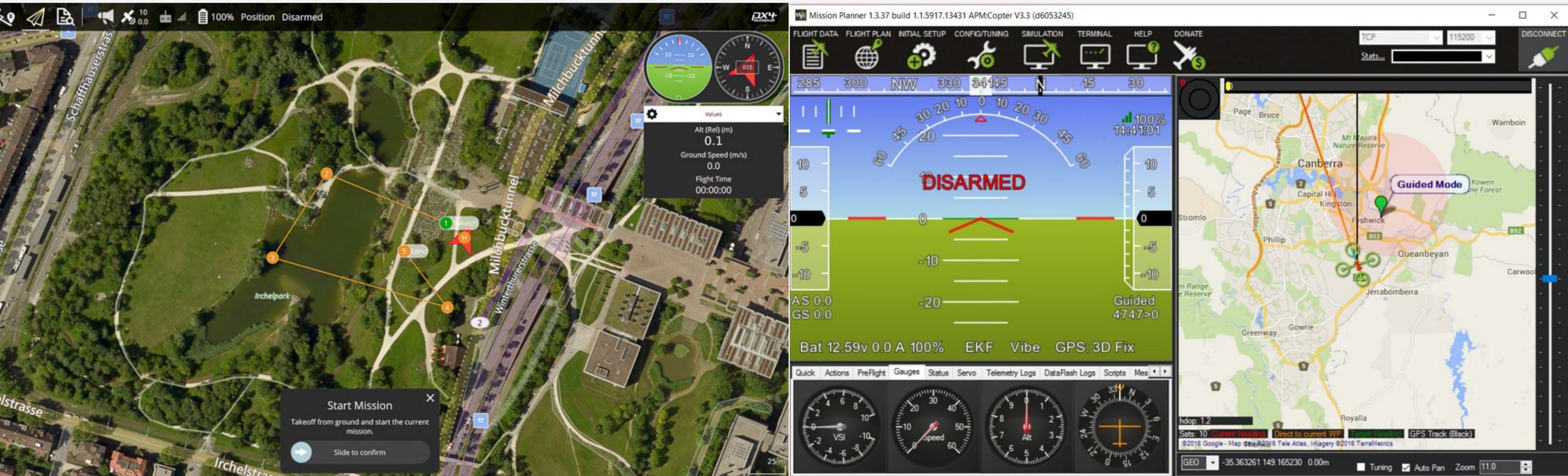
ARTIFICIAL INTELLIGENCE

The use of AI in drones has a wide range of applications, including agriculture, construction, search and rescue, and surveillance. By enabling drones to operate autonomously and perform complex tasks, AI technology is helping to transform the way we use drones and unlocking new possibilities for their use.

WITH AI INTEGRATION

WITHOUT AI INTEGRATION

TETHER UNIT

- A drone tether unit is a device that allows a drone to be connected to a ground-based power source and communication system via a tether cable.

- In addition to providing power, the tether cable also allows for real-time communication between the drone and the ground station, enabling operators to control the drone and receive telemetry data and video feeds in real time.

- Tethered drones are often used in applications where longer flight times and uninterrupted communication are critical, such as surveillance, security, and emergency response.

TRAINING

- To use a drone to its full potential, one must know how to operate it properly, and that's where **Integrated Drone Training Academy** comes in, AMOS's drone training wing specialising in providing comprehensive training on drone operation and engineering.

- At IDTA, we believe that the future of aviation lies in unmanned aerial vehicles, and we are committed to empowering individuals and organizations to harness the full potential of drone technology.

- We offer **7 courses** including -

1. Drone Flying
2. Drone Engineering
3. Drone Technician
4. Drone Journalism
5. Drone Business
6. Drone GIS
7. Drone AI

Integrated Drone Training Academy

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PROJECTS COMPLETED

TETHERED DRONE INTEGRATION ON A TANK

WINDMILL INSPECTION

SWARM DRONE DEMONSTRATION

MAPPING OF SAACH PASS FOR DEVELOPMENT OF A ROPEWAY

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