amosPandaPro

amosAerospace

Specifications
Payloads
Applications

SPECIFICATIONS - PandaPro

RANGE	4 km
FLIGHT TIME	<=25 minutes
UAV Wheelbase	800 mm
WEIGHT (INCLUDING BATTERY AND PAYLOAD)	<6KG
MAX LAUNCH ALTITUDE (MEAN SEA LEVEL)	3000 M
TYPICAL CRUISE SPEED	12 M/S
MINIMUM FUNCTIONAL TEMPERATURE	-2/-3 DEGREES
DEPLOYMENT TIME	<5 MIN
PACKING & STORAGE	BACKPACK (HARDCASE & SOFTCASE)
WIND RESISTANCE	20-25 KM/HR

PAYLOADS - KEY FEATURES

DUAL CAMERA 30X

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

4K ZOOM CAMERA

- 3.5X OPTICAL ZOOM
- TARGET TRACKING FUNCTION
- SUPPORTS GPS INFORMATION RECORDING
- 1080P SUPPORT @ 50 FPS

THERMAL CAMERA

- 10X OPTICAL ZOOM
- FAST-FOCUSING FUNCTION
- ONE KEY RETURN FUNCTION
- CAN WORK IN CONDITIONS RANGING FROM -10°C TO 45°C

MULTISPECTRAL CAMERA

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

APPLICATION

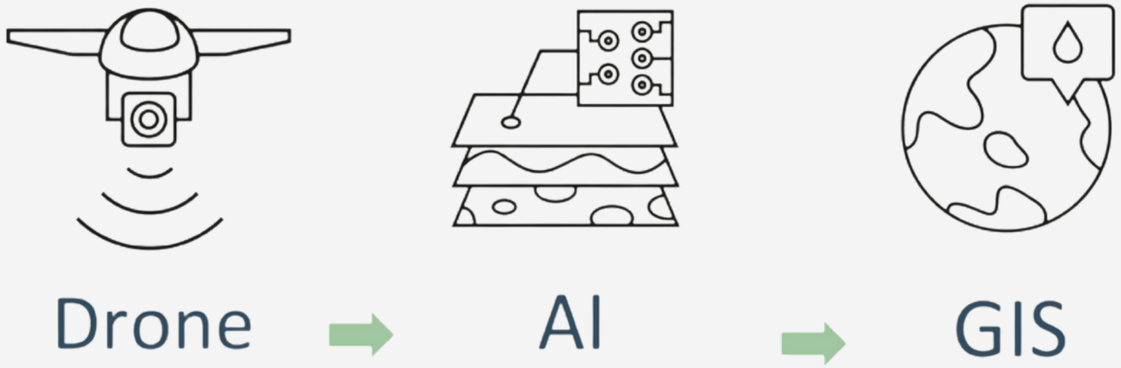
- Crowd Monitoring
- GIS Mapping
- Recreational Purposes
- Defence Surveillance

APPLICATIONS

Crowd Monitoring

Crowd monitoring by drones can be helpful in various settings, including public events, protests, and disasters. It can help authorities to identify potential security threats, monitor crowd behaviour, and respond quickly to emergencies. Drones can also monitor social distancing and mask-wearing compliance during pandemics.

According to a report by MarketsandMarkets, the global market for drone surveillance is expected to grow from $5.8 billion in 2020 to $11.9 billion by 2025, at a CAGR of 15.5%.



APPLICATIONS

GIS Mapping

Drones are increasingly being used for GIS (Geographic Information System) mapping. GIS mapping involves collecting and analyzing geographic data to create maps, 3D models, and other visualizations that can be used for a variety of purposes, including urban planning, land management, and disaster response.

In a study conducted by the University of California, Berkeley, researchers found that drones could map forest canopy structures with an accuracy of up to 98%.

APPLICATIONS

Recreational Purposes

Drones are increasingly popular for recreational purposes, offering individuals and hobbyists a fun and unique way to capture aerial footage, explore new places, and enjoy the thrill of flying. Overall, drones offer a fun and exciting way to explore the world from a unique perspective, and they can provide a new level of enjoyment to outdoor activities

According to the Federal Aviation Administration (FAA) in the United States, there were over 1.7 million registered recreational drones in the country as of December 2020.

APPLICATIONS

Defence Surveillance

Drones are being used for defence surveillance and reconnaissance purposes, offering military forces and security agencies a powerful tool for gathering intelligence and monitoring areas of interest. Drones for defence surveillance provide aerial coverage of large areas quickly and efficiently without putting personnel at risk.

The US military is one of the largest users of drones for defence surveillance and reconnaissance purposes. Other countries, such as China, Russia, and Israel, also have significant drone capabilities

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

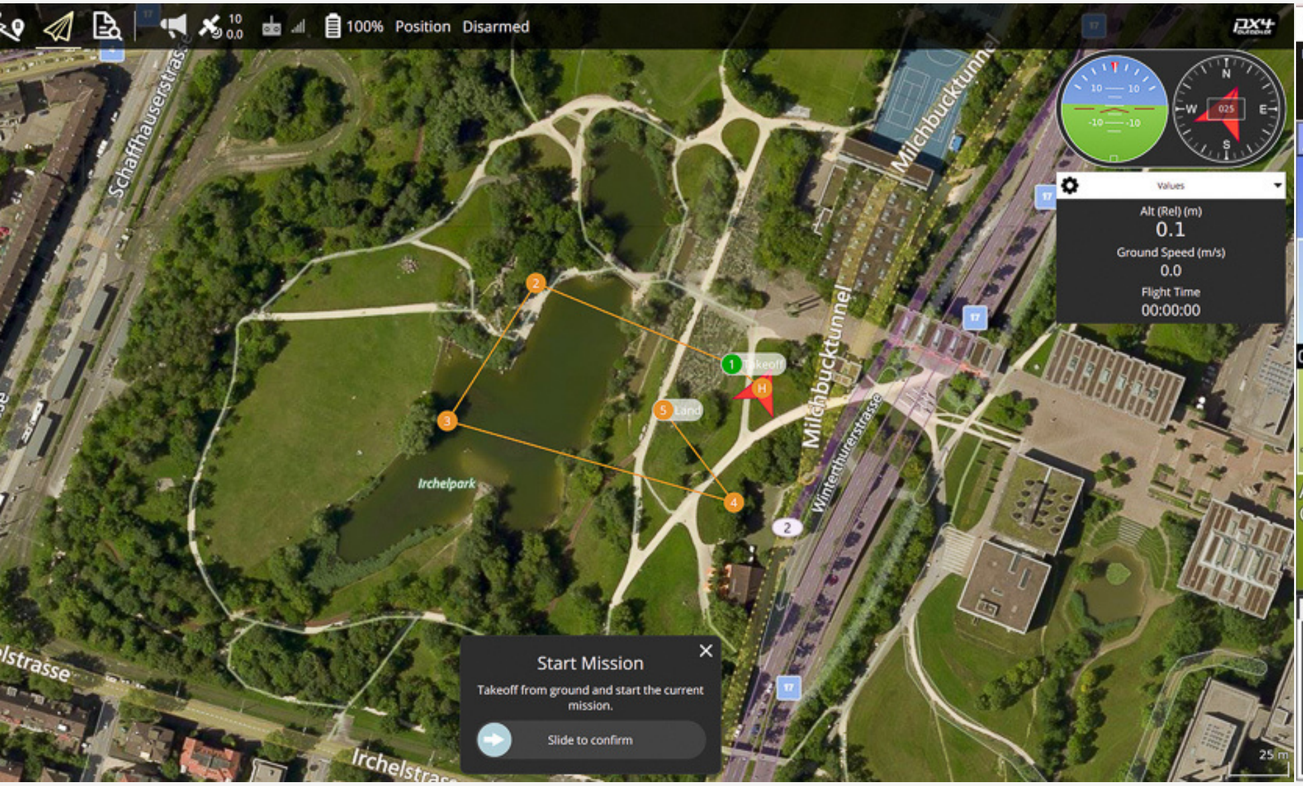
PANASONIC TOUGHBOOK

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.

WITHOUT AI INTEGRATION

WITH 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

www.idta.in

PROJECTS COMPLETED

TETHERED DRONE INTEGRATION ON A TANK

WINDMILL INSPECTION

SWARM DRONE DEMONSTRATION

MAPPING OF SAACH PASS FOR DEVELOPMENT OF A ROPEWAY

OUR CLIENTELE

STENUM ASIA

RENEW POWER

SYSTRA

ALCHEMIST AVIATION

GREENKO

INDIAN AIR FORCE

MINISTRY OF HOME AFFAIRS

GRENE ROBOTICS

INDIAN ARMY

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