



Unleash The Boundless Sky

Equipped with GPS mapping, autonomous flight, and seamless data integration, this drone is the ideal solution to address health risks, and make data-driven decisions.

Monitoring The - Ambient Air

Air pollution is a global problem that has serious negative impacts on human health and the environment. In order to mitigate the effects of air pollution, it is important to have accurate and timely information on air quality.

Traditional ground-based air quality monitoring systems have limitations in terms of coverage and flexibility.



Features - Prana Quad

This drone is equipped with essential features tailored for efficient and reliable operation. It utilizes a dedicated drone controller for seamless communication and precise maneuvering. These capabilities make it a practical and versatile choice for both recreational and professional use.





Heat Maps

Colour-coded maps highlighting pollution hotspots.

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Data Report

Tailored reports , Graph and comparison chart of the recorded data.



Custom Data Tailored reports based on user needs.



Smart Controller

The Smart Drone Controller is an advanced environmental monitoring tool designed for real-time air quality assessment.

Equipped with a high-resolution display and dual-antenna connectivity, it enables seamless control and data visualization from airborne sensors.





Air Quality Sensors PM1 , PM2.5 & PM10 , SO2 , NO2 , CO, O3, H2S ,Temperature and Humidity

Air Inlet Collect air samples during flight

> **Thermal Camera** 2048 × 1152 pixels Camera resloution

Approx. 720g (Excluding drone shell)

300×300x253mm (Including GNSS antenna)

Techincal Specification

Parameter	Sensor Type	Range	Resolution	Accuracy
PM10, PM2.5 & PM1	90° Light Scattering	0 to 1000µg/m³	1 μg/m³	0-150 μg/m³ is for ±5% & for 150 μg/m³ onwards is ±10%
Temperature	Digital Sensor	-40 to 70 °C	0.1°C	±0.5°C
Humidity	Digital Sensor	0 to 100% RH	0.1% RH	±0.3% RH
Nitrogen Dioxide (NO2)	Electrochemical	0.001 to 9.999ppm	0.001ppm	±3%
Carbon Monoxide (CO)	Electrochemical	0.01 to 99.99ppm	0.01ppm	±3%
Sulfur Dioxide (SO2)	Electrochemical	0.001 to 9.999ppm	0.001ppm	±3%
Ozone (O₃)	Electrochemical	0.001 to 9.999ppm	0.001ppm	±3%
Hydrogen Sulfide (H2S)	Electrochemical	0.001 to 9.999ppm	0.001ppm	±3%

Product Specification

Flight Control System	Mcontroller® V7 Cross-Modal Flight Control System
Processor	STM32H743
Core	32Bit ARM Cortex — M7
Operating frequency	480MHZ
Flash	2MB
RAM	1MB
MicroSD	≤256G
LED	x8

Flight Control Expansion Board

UWB positioning	Yes
Wi-Fi data transmission module	Mlink-esp
Remote control receiver	R8FM
Uart	×2
PWM	x8
GPIO	×4
Power interface	x2

😹 Laser Ranging and Optical Flow Positioning

Laser ranging	Yes
Optical flow positioning	Yes

GNSS and Camera

GNSS	UM982 high-precision GNSS module
GNSS working mode	GPS/BDS/GLONASS
Wi-Fi Integrated module for image and data transmission	Mlink-video Relay version
Camera Resolution	2048 × 1152 pixels
Camera Working Voltage	7.4V — 11.1V

Motor and Battery

Motor	Brushless Motor
Battery	3S Li-ion Battery
Capacity	5000mAh
Charging Time	Approx. 58 mins (80W Charger)
Hot Plug	Yes

Hireless Communication

Remote control method	Remote Control/ Mobile Phone (Android/iOS)/PC (ROS)
Remote Control	T8S
RC Control Distance	1km (Open and undisturbed)
Ground Station App	Prana Air UAV App (Android)
Mlink-esp Control Distance	50m (Open and undisturbed)
Mlink-video Relay version Control Distance	1km (Open and undisturbed)
ROS Communication	Yes

Drone Flight Parameters

Takeoff Weight	Approx. 720g
Max Payload	300g
Max Flight Time	20mins
Max Flight Altitude	120m
Limited height	The maximum height limit is less than the maximum laser ranging value in the current environment
Landing Alarm Voltage	9V (Customizable not less than 9V)
Pos-Hold Flight	Yes
Alt-Hold Flight	Yes
19 Working Conditions	

Vorking Conditions

Working Voltage	9V - 12.6V
Working Temperature	-10°C — 40°C

$\overline{\underline{l}}$ Dimension, Weight and Color

Dimension	300×300x253mm (Including GNSS antenna)
Propeller	5 inches
Weight	Approx. 720g (Excluding drone shell)

Let's do something amazing together

Begin your journey to a healthier life with our tailored air quality monitoring solutions.





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