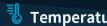
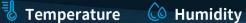
Sniffer4D V2

Ultrasonic Wind Speed & Direction Sensing Module

Real-time Aerial Meteorology Monitoring

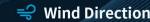






Atmospheric Pressure





Typical Applications

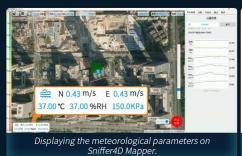
With the most lightweight and all-in-one meteorological sensor, our Sniffer4D V2 Ultrasonic Wind Speed & Direction Sensing Module can be easily installed on DJI M300 RTK/M210 RTK and monitor the meteorological parameters (temperature, humidity, atmospheric pressure, wind speed and wind direction) in real-time. Integrated with Sniffer4D V2, the system can precisely acquire the meteorological information by calculating the back-and-forth time difference of the ultrasonic waves in 3D dimension.

Our Ultrasonic Wind Speed & Direction Sensing Module allows the Sniffer4D system to simultaneously monitor the target gases and the meteorological parameters in applications like Ambient Air Monitoring, Meteorological Monitoring, HAZMAT Response, providing intuitive & insightful information for decision-makers.

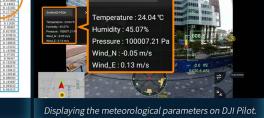


Real-time Data Transmission

Sniffer4D V2 supports transmitting real-time data from our Ultrasonic Wind Speed & Direction Sensing Module. After being processed by our proprietary algorithms, the meteorological parameters will be shown in DJI Pilot App & Sniffer4D Mapper. In this case, the system is rather user-friendly since our data provides real-time reference and does not require post-processing work. Meanwhile, all the data will be automatically stored in Sniffer4D V2's onboard SD card for after-mission analysis.







Sniffer4D-PSDk

Exporting mission files as a CSV datasheet.

Built-in Motion Compensation Algorithms

Sniffer4D V2 Ultrasonic Wind Speed & Direction Sensing Module supports 3-axis wind speed measurement. Its built-in algorithms for translational motion compensation, attitude compensation, and rotational motion compensation allow real-time wind speed & direction outputting for the northeaster, achieving accurate meteorological measurements while the drone is in motion.







Seamless Integration with DJI M300 RTK/M210RTK

Sniffer4D V2 Ultrasonic Wind Speed & Direction Sensing Module itself is lightweight with no moving parts, the system has no limitation on start-up wind speed and does not require any adjustments. Besides, it supports seamless Integration with DJI M300 RTK/M210 RTK, Plug & Play using an XT30 cable or a Type-C cable, greatly reducing the preparation time before flights.







Module + DJI M210 RTK

Connecting to XT30 cable and Type-C cable

Sniffer4D V2 Ultrasonic Wind Speed & Direction Sensing Module + DJI M300 RTK

Technical Parameters

Measurement Method	Ult	trasonic Wave	Wind Direction Measurement	Range	0-360°	Humidity Measurement	Range	0~100%RH
Connection		g USB Type-C cable to 'port of Sniffer4D V2		Accuracy	±1.0°		Resolution	0.1%
Power Supply	9-36V DC in	put through XT30 port		Precision	1.0°		Accuracy	±3%
Wind Speed Measurement	Accuracy	±0.1m/s (0-10m/s) ±1% (11-30m/s) ±2% (31-50m/s)	Temperature Measurement	Range	-40~85°C	Atmospheric Pressure Measurement	Range	33~110kPa
				Resolution	0.1℃		Resolution	0.1kPa
	Range	0-50m/s						
	Resolution	0.1m/s		Accuracy	±2.0°C		Accuracy	±1.0kPa

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