Sniffer4D V2 Mul	ti-gas Detection & Mapping System - Components & Specs (2022.0	5.11)
Component Name	Functionalities & Specs	Remarks
Sniffer4D V2 Base Unit	<ul> <li>Ultra compact &amp; lightweight structural design: 158x103x88mm, 400~500g depending on the sensing module selection (drone integration kits not included).</li> <li>Anti EMI aluminium air-tight gas chamber with internal vibration reduction mechanism.</li> <li>Active air intake with approx. 5L/min flow rate when subject to zero additional resistance.</li> <li>Support 5VDC 2.5A Max (USB Type-C), or 7~32VDC 2A Max (XT30) power input.</li> <li>Support ultra-low power consumption "Dormant Mode", in which the most crucial sensing components still remain working when Sniffer4D V2 is not powered. "Dormant Mode" helps Sniffer4D V2 achieve negligible warm-up time after powering up. Energy storage component &lt;1.11Wh with auto charging, charging time &lt;60 min, lasts for &gt;40 days per charge.</li> <li>1GHz ARM CPU and 512MB RAM.</li> <li>6 LEDs indicating Sniffer4D V2's working status: sensor assembly, GNSS, SD card, LTE, drone communication, and external device.</li> <li>8 Built-in LTE connectivity with no external antenna. Support global 4G, 3G, EDGE, and GPRS network. A micro SIM card needs to be provided by the user.</li> <li>Real-time encrypted data transmission (1Hz) with data retrieval algorithm.</li> <li>Encrypted data output port (USB Type-C), allowing data transmission in user-specified communication channels (e.g. a private LTE network).</li> <li>Plaintext data output port (USB Type-C), enabling easy communication with other devices (e.g. a flight controller).</li> <li>Built-in high-precision Global Navigation Satellite System (GNSS) with not external antenna. Supports GPS, GLONASS, Galileo, and Beidou.</li> <li>Front &amp; rear high-brightness RGB warning LEDs with solid or blinking options. The LEDs can be configured to automatically vary their color according to the gas/PM concentrations.</li> <li>Swarm supported. One or multiple Sniffer4Ds can communicated with one or multiple PCs.</li> <li>Fully support DJI Payload SDK (PSDK) V2 (a M300 RTK or M210 series integration kit needs to be selected, see below). The u</li></ul>	• APN may also needs to be set after inserting the Micro SIM card into Sniffer4D V2.
Sniffer4D Mapper Data Visualization & Analysis Software	<ul> <li>Display real-time working status of Sniffer4D, including device name, GNSS satellite number, relative altitude, volume of data to be retrieved.</li> <li>Control Sniffer4D V2's high-brightness warning LEDs, gas sampling module, and other functionalities.</li> <li>Retrieve unreceived data during communication breakdown.</li> <li>Display real-time measurement values and their time series graphs.</li> <li>Generate real-time 2D grid gas/PM concentration heat map.</li> <li>Generate real-time 3D point cloud gas/PM concentration heat map.</li> <li>Generate real-time drone camera view and save geo-tagged screenshots ("Video Streaming Service" needs to be selected).</li> <li>Estimate Fuel Sulfur Content (FSC) using proprietary inversion algorithm.</li> <li>Support loading multiple historical data files into the software for post analysis.</li> <li>Support loading an orthophoto (GeoTiff, WGS84) and displaying it under the concentration heat maps.</li> <li>Support loading geo-tagged photos and showing their locations in the concentration heat map.</li> <li>Support automatic PDF mission report generation.</li> <li>Support avorting mission files as a CSV datasheet.</li> <li>Track and display multiple Sniffer4Ds simultaneously.</li> <li>Display the detailed working status of internally-mounted sensing modules inside the Sniffer4D. The user can calibrate the sensitivity (slope) and zero point (intercept) of each module.</li> <li>Output decoded Sniffer4D data (json) using UDP.</li> <li>Unlimited software installations and automatic software updates.</li> </ul>	• Require 64- bit Windows 10 OS.
Selectable Internally- mounted Modules  Up to 8 internal modules can be installed inside a Sniffer4D V2 base unit. Choose the modules that fit your application.  Inhalable Particulate Matter (PM2.5&10) Sensing Module	<ul> <li>Detection method: laser scattering/light scattering;</li> <li>Sense PM1.0 (particle size 0.3~1um), PM2.5 (particle size 0.3~2.5um), and PM10 (particle size 0.3~10um);</li> <li>Particle counting effectiveness: 50% @ 0.3um, 98% @&gt; 0.5um;</li> <li>Range: 0~1500ug/m3;</li> <li>Detection limit: 1ug/m3;</li> <li>Repeatability: &lt;2% FS;</li> <li>Theoretical Resolution: 1ug/m3;</li> </ul>	• For general environmental monitoring.

-	High-resolution O3+NO2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Sensitive to both O3 and NO2, but unable to identify individual concentrations;</li> <li>Range: 0~11ppm;</li> <li>Detection limit: 5ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;45s (0~1ppm);</li> <li>Theoretical resolution: &lt;1ppb;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 10s;</li> <li>Sensitivity drift: -20~-40%/year (in laboratory environment);</li> <li>Zero drift: 0~20ppb/year (in laboratory environment);</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~40°C;</li> <li>Operating humidity: 15-85%RH.</li> </ul>	For general environmental monitoring.     Individual O3 concentration is calculated using:     O3=(O3+NO2)     -NO2
	High-resolution NO2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~11ppm;</li> <li>Detection limit: 5ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;60s (0~2ppm);</li> <li>Theoretical resolution: &lt;1.1ppb;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 10s;</li> <li>Sensitivity drift: -20~-40%/year (in laboratory environment);</li> <li>Zero drift: 0~20ppb/year (in laboratory environment);</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~40°C;</li> <li>Operating humidity: 15-85%RH.</li> </ul>	• For general environmental monitoring, HAZMAT response, and ship fuel sulfur content monitoring.
	High-resolution CO Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~11ppm;</li> <li>Detection limit: 4ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;20s (0~10ppm);</li> <li>Theoretical resolution: &lt;0.6ppb;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 10s;</li> <li>Sensitivity drift: &lt;10%/year (in laboratory environment);</li> <li>Zero drift: &lt;±100ppb/year (in laboratory environment);</li> <li>Est. service life: &gt;36months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For general environmental monitoring and HAZMAT response.
	High-resolution SO2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~15ppm;</li> <li>Detection limit: 5ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;40s (0~2ppm);</li> <li>Theoretical resolution: &lt;0.8ppb;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 15s;</li> <li>Sensitivity drift: &lt;±15%/year (in laboratory environment);</li> <li>Zero drift: &lt;±20ppb/year (in laboratory environment);</li> <li>Est. service life: &gt;36months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For general environmental monitoring and HAZMAT response.

-	Wide-range Volatile Organic Compounds (VOCs) Sensing Module	<ul> <li>Detection method: photoionization detection (PID);</li> <li>Target gases: volatile organic compounds (VOCs) with ionization potential energies &lt;10.6eV;</li> <li>Range: 0~50ppm (isobutylene);</li> <li>Detection limit: 1ppb;</li> <li>Repeatability: &lt;4% FS;</li> <li>Response time (t90): &lt;3 seconds (diffusion mode);</li> <li>Theoretical resolution: 3.8 ppb;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Humidity has almost no effect on the measurement in 0~75%RH;</li> <li>Warm-up time froma cold start: about 5min;</li> <li>Estimated service life: 5000 working hours;</li> <li>Operating temperature: -40~55°C;</li> <li>Operating humidity: 0-95%RH;</li> <li>The default target gas is isobutylene. To measure other types of VOC, users need to adjust the sensitivity correction factor of the module.</li> </ul>	• For general environmental monitoring, oil & gas leak detection, and HAZMAT response.
	Wide-range H2S Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~90ppm;</li> <li>Detection limit: 20ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;55s (0~2ppm);</li> <li>Theoretical resolution: &lt;3.7ppb;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 15s;</li> <li>Sensitivity drift: &lt;20%/year (in laboratory environment);</li> <li>Zero drift: &lt;±100ppb/year (in laboratory environment);</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For general environmental monitoring, oil & gas leak detection, and HAZMAT response.
	Wide-range CxHy/CH4/LEL Sensing Module	<ul> <li>Detection method: non-dispersive infrared (NDIR);</li> <li>Target gases: hydrocarbons (flammable gases);</li> <li>Range: 0~5%VOL (0~100%LEL) methane, or 0~2%VOL propane;</li> <li>Detection limit: 0.01%;</li> <li>Repeatability: &lt;2%FS;</li> <li>Accuracy: ±10%;</li> <li>Response time (t90): &lt;30s;</li> <li>Theoretical resolution: 0.01%/100ppm;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Warm-up time from a cold start: about 45s;</li> <li>Zero drift: &lt;±0.05% VOL/month;</li> <li>Estimated service life: &gt;5 years;</li> <li>Operating temperature: -20~50°C;</li> <li>Operating humidity: 0~95%RH;</li> <li>The default target gas is methane (CH4). To measure other types of hydrocarbon, users need to adjust the sensitivity correction factor of the module.</li> </ul>	• For general environmental monitoring, oil & gas leak detection, and HAZMAT response.
	Wide-range CO2 Sensing Module	<ul> <li>Detection method: non-dispersive infrared (NDIR);</li> <li>Range: 0~5%VOL;</li> <li>Detection limit: 0.01%;</li> <li>Repeatability: &lt;2%FS;</li> <li>Accuracy: ±10%;</li> <li>Response time (t90): &lt;30s;</li> <li>Theoretical resolution: 0.01%/100ppm;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Warm-up time from a cold start: about 45s;</li> <li>Zero drift: &lt;±0.05% VOL/month;</li> <li>Estimated service life: &gt;5 years;</li> <li>Operating temperature: -20~50°C;</li> <li>Operating humidity: 0~95%RH.</li> </ul>	• For HAZMAT response.

Wide-range NH3 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~100ppm;</li> <li>Detection limit: 5ppm;</li> <li>Repeatability: &lt;5%FS;</li> <li>Overall response time (t90): &lt;150s (0~50ppm);</li> <li>Theoretical resolution: &lt;0.2ppm;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 30s;</li> <li>Sensitivity drift: &lt;3%/year (in laboratory environment);</li> <li>Zero drift: &lt;±2ppm/year (in laboratory environment);</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For HAZMAT response.
Wide-range HCl Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~100ppm;</li> <li>Detection limit: 1ppm;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;200s (0~25ppm);</li> <li>Theoretical resolution: &lt;15ppb;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 30s;</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For HAZMAT response.
Wide-range O2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~50%;</li> <li>Detection limit: 0.5%;</li> <li>Overall response time (t90): &lt;15s (20.9%~0);</li> <li>Theoretical resolution: &lt;0.1%;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Warm-up time from a cold start: about 60s;</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~55°C;</li> <li>Operating humidity: 5-95%RH;</li> <li>Operating pressure: 80~120kPa.</li> </ul>	• For HAZMAT response.
Wide-range SO2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~100ppm;</li> <li>Detection limit: 50ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;40s (0~2ppm);</li> <li>Theoretical resolution: &lt;8ppb;</li> <li>On-chip proprietary environmental and individual difference compensation algorithms, enabling better data quality in wide temperature and humidity ranges;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 10s;</li> <li>Sensitivity drift: &lt;±15%/year (in laboratory environment);</li> <li>Zero drift: &lt;±20ppb/year (in laboratory environment);</li> <li>Est. service life: &gt;36months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For HAZMAT response, and ship fuel sulfur content monitoring.
Wide-range H2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~5000ppm;</li> <li>Detection limit: 17ppm;</li> <li>Repeatability: &lt;5%FS;</li> <li>Overall response time (t90): &lt;55s (0~400ppm);</li> <li>Theoretical resolution: &lt;0.7ppm;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 30s;</li> <li>Zero drift: &lt;±10ppm/year (in laboratory environment);</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	
CI2 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~20ppm;</li> <li>Detection limit: 0.5ppm;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;60s (0~10ppm);</li> <li>Theoretical resolution: &lt;10ppb;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 30s;</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -20~50°C;</li> <li>Operating humidity: 15-90%RH.</li> </ul>	• For HAZMAT response.

	Wide-range PH3 Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~2000ppm;</li> <li>Detection limit: 20ppm;</li> <li>Repeatability: &lt;5%FS;</li> <li>Overall response time (t90): &lt;30s (0~800ppm);</li> <li>Theoretical resolution: &lt;0.15ppm;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 30s;</li> <li>Sensitivity drift: &lt;4%/year (in laboratory environment);</li> <li>Zero drift: &lt;1.5ppm/year (in laboratory environment);</li> <li>Est. service life: &gt;24months;</li> <li>Operating temperature: -20~50°C;</li> <li>Operating humidity: 20-90%RH.</li> </ul>	
	Wide-range CO Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~1000ppm;</li> <li>Detection limit: 70ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;20s (0~10ppm);</li> <li>Theoretical resolution: &lt;0.6ppb;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 5s;</li> <li>Est. service life: 36 months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH</li> </ul>	
	NO Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~11ppm;</li> <li>Detection limit: 5ppb;</li> <li>Repeatability: &lt;4%FS;</li> <li>Overall response time (t90): &lt;60s (0~2ppm);</li> <li>Theoreticalresolution: &lt;1.1ppb;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 5s;</li> <li>Est. service life: 24 months;</li> <li>Operating temperature: -30~40°C;</li> <li>Operating humidity: 15-85%RH</li> </ul>	
	Wide-range HCN Sensing Module	<ul> <li>Detection method: electrochemistry;</li> <li>Range: 0~100ppm;</li> <li>Detection limit: 50ppb;</li> <li>Repeatability: &lt;5%FS;</li> <li>Overall response time (t90): &lt;120s (0~30ppm);</li> <li>Theoretical resolution: &lt;0.05ppm;</li> <li>On-chip proprietary individual difference compensation algorithms;</li> <li>Support "Dormant Mode", warm-up time from a cold start: &lt; 30s;</li> <li>Est. service life: &gt;12months;</li> <li>Operating temperature: -30~50°C;</li> <li>Operating humidity: 15-90%RH</li> </ul>	
	OU Sensing Module	<ul> <li>Detection method: Electrochemistry;</li> <li>Range: 0~10ppm;</li> <li>Detection limit: 0.1ppm;</li> <li>Repeatability: &lt;5%FS;</li> <li>Overall response time (t90): &lt;30s (0~10ppm);</li> <li>Theoretical resolution: 0.01ppm;</li> <li>Est. service life: 36 months;</li> <li>Operating temperature: 0~25°C;</li> <li>Operating humidity: 30-70%RH</li> </ul>	
Optional Externally- mounted Modules Installed outside Sniffer4D V2 base	Gas Sampling Module	<ul> <li>Connect to Sniffer4D V2's "Sampler" port.</li> <li>Start or manually stop gas sampling via DJI Pilot App or Sniffer4D Mapper.</li> <li>Monitor air pressure inside the sampling bag and stop automatically when the bag is full.</li> <li>Quick release mount for DJI M300RTK or M210. Can also be platform agnostic.</li> <li>Include 1x1L sampling bag. Also adaptable to bags with different capacities.</li> </ul>	
unit.	Ultrasonic Wind Speed & Direction Sensing Module	<ul> <li>Connect to Sniffer4D V2's "Ext. Istm." port.</li> <li>No moving parts.</li> <li>Wind speed range &amp; resolution: 0-50m/s, 0.1m/s.</li> <li>Wind speed accuracy: ±0.1m/s (0-10m/s), ±1% (11-30m/s), ±2% (31-50m/s).</li> <li>Wind direction range &amp; resolution: 0-360°, 1.0°.</li> <li>Wind direction accuracy: ±1.0°.</li> <li>Built-in algorithms for compensating translational motion, attitude, and rotational motion, enabling wind measurement while in motion*.</li> </ul>	*Currently support DJI M210 & M300 RTK

	TDLAS Methane Detection Sensing Module	• Range: 0~15000ppm;	*Currently support DJI M300 RTK
	Nuclear Radiation Sensing Module	<ul> <li>Detection method: Energy Compensation-based Geiger-Müller Counter;</li> <li>Range: 0.1μSv/h ~ 8.3mSv/h;</li> <li>Theoretical resolution: 0.01μSv/h;</li> <li>Single accumulation range: 0.01μSv ~ 16000μSv;</li> <li>Sensitivity: 1.2μGy/h (60Co radiation source);</li> <li>Energy range: 30KeV ~ 3MeV;</li> <li>Power consumption: 0.2W;</li> <li>Warm-up time: about 20s;</li> <li>Detection limit: about 0.1μSv;</li> <li>Operating temperature: -40°C~60°C;</li> <li>Estimated service life: 8.3×10^8μSv (10^9 pulses);</li> <li>Size: 140x120x40mm;</li> <li>Weight: 86.7g (net weight, bracket not included);</li> <li>Installation: Mounted underneath the drone cabin. Connect to Sniffer4D V2 through "Ext. Istm." port and USB Type-C cable for both power supply and data transmission.</li> </ul>	Available 2020 Q4 (est.)
	Ultraviolet Spectrophotome try Ozone Sensing Module	Connect to Sniffer4D V2's "Ext. Istm." port.	Available 2020 Q4 (est.)
	External GNSS Module	<ul> <li>Connect to Sniffer4D V2 via a USB Type-C cable.</li> <li>Can be used in scenarios where Sniffer4D V2's built-in GNSS module does not have good reception, for example, when the Sniffer4D V2 is placed upside down.</li> </ul>	
Data Connection Services	Data Connection Service	<ul> <li>Provide real-time internet data transmission between Sniffer4D V2 and Sniffer4D Mapper software.</li> <li>Encrypted data transmission.</li> </ul>	
	Video Streaming Service	<ul> <li>Stream live camera view (720p/1080p) remotely to Sniffer4D Mapper.</li> <li>Confirmed compatibility with DJI M210 series, M300 RTK, and M600 series. May also be compatible with other drone platforms.</li> </ul>	
	Plaintext Data Forwarding Service	• Forward the decoded real-time measurement data (json) from the Sniffer4D V2 to a user-specified IP address using TCP/UDP.	Available 2020 Q4 (est.)
Drone Integration Kits	DJI M300 RTK Integration Kit	<ul> <li>Quickly mount a Sniffer4D V2 onto a DJI M300 RTK aircraft.</li> <li>Material: high-strength aluminium alloy.</li> <li>When the Sniffer4D V2 is powered by a DJI SkyPort, the user can view the real-time readings and control the Sniffer4D V2 via DJI Pilot App running on the DJI remote controller.</li> <li>The Sniffer4D V2 can be powered alternatively by the OSDK port in the aircraft using the OSDK power adapter that comes with the kit.</li> </ul>	
	DJI Mavic 2 Series Integration Kit	<ul> <li>Compatible with Mavic 2 Enterprise / Enterprise Dual / Enterprise Dual Advanced / Pro / Zoom.</li> <li>Material: high-performance nylon.</li> <li>The Sniffer4D V2 is powered by Mavic 2's battery.</li> <li>Max flight time 16 mins.</li> </ul>	
	DJI M210/M210 RTK Integration Kit	<ul> <li>Quickly mount a Sniffer4D V2 onto a DJI M210/M210 RTK (V1 or V2) aircraft.</li> <li>Material: high-strength aluminium alloy.</li> <li>When the Sniffer4D V2 is powered by a DJI SkyPort, the user can view the real-time readings and control the Sniffer4D V2 via DJI Pilot App running on the DJI remote controller.</li> <li>The Sniffer4D V2 can be powered alternatively by the XT30 port in the aircraft.</li> </ul>	
	DJI M600 Pro Integration Kit	<ul> <li>Quickly mount a Sniffer4D V2 onto a DJI M600/M600 Pro aircraft.</li> <li>Material: high-strength carbon fiber.</li> <li>The Sniffer4D V2 is powered by the XT30 port in the aircraft. The kit includes a XT30 splitter cable so that powering other equipment (e.g. the Z3 camera) is not affected.</li> </ul>	
After-sales Supports & Services	1-year Warranty for Non-human Damages	For non-human damages, all repair costs are covered by Soarability during the standard 1-year warranty period.	

	Remote Training & Technical Support	<ul> <li>During warranty period, remote training &amp; technical support are provided via phone and video conferencing.</li> <li>Face-to-face training &amp; support can be arranged (additional cost may occur).</li> </ul>	
	Advanced Calibration Service	<ul> <li>The user follows the guidelines provided by Soarability's support engineer to obtain datasets from reference instruments and Sniffer4D V2.</li> <li>Soarability computes the new calibration parameters for the device and guide the user to write the parameters into Sniffer4D V2.</li> </ul>	
	Warranty Extension	<ul> <li>Extend the default warranty for 1-2 more years. Policies need to be made case by case.</li> <li>In principle, warranty extension needs to be purchased together with the product.</li> </ul>	
	Paid Repairing Service	• For man-made damages, you could send the broken product back to the manufacturer for paid repair, or ask the manufacturer to send out a technical to repair the product onsite.	
Product Customiza- tion	Base Unit Top Surface Logo Customization	<ul> <li>Customize laser-engraved logo on the top surface of Sniffer4D V2.</li> <li>Details about the manufacturer and the product (laser-engraved on the bottom of Sniffer4D V2) may not be able to be modified due to compliance requirements.</li> </ul>	
	Software Logo Customization	<ul> <li>Customized logo at the bottom right corner of Sniffer4D Mapper.</li> <li>Customized name for Sniffer4D mapper.</li> <li>Customized icon for Sniffer4D mapper.</li> </ul>	
	Deep Customization	<ul> <li>Customized internally mounted or externally mounted modules.</li> <li>Customized software functionalities.</li> <li>Customized appearance &amp; structural design.</li> </ul>	