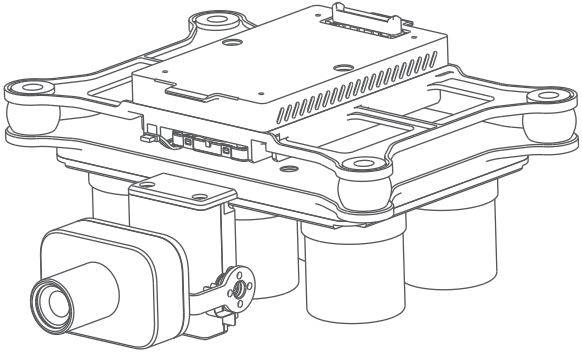
www.gdu-tech.com

GAS DETECTOR

USER MANUAL

V1.0



If you have any questions about this document , please contact GDU after-sales center (+86 400-040-0266).

Index

Disclaimer

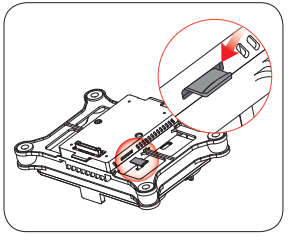
Thank you for using the products. To guarantee a quality user experience and your legal rights and safety, please carefully read this statement before using the product. Please adhere to the user guide while using the product. Improper use may cause harm to yourself and others or damage the product or other objects. Once you use the product, it means you have read and accepted the contents of this statement. GDU-Tech Co., Ltd is not responsible for any damage caused by improper use (including but not limited to: changing the product structure, dismantling the product, causing a short circuit, over heating, damage, etc.)

Product features

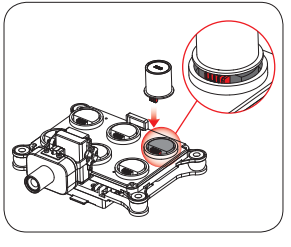
This product adopted a high-precision gas sensor mounted on the aircraft. The sensor system has an automatic identification function that can detect a variety of gases and can detect the environment through the first person view camera. The user can watch the real-time picture on their mobile device. Applicable to air quality testing, environmental monitoring, routine inspection of toxic and harmful gases, etc.

Product installation

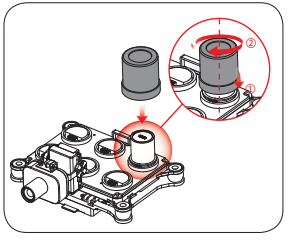
1) Please insert the Micro SD card.



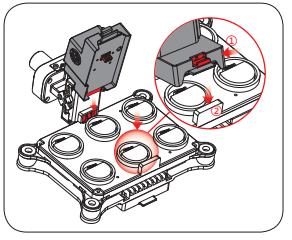
2) Please install the sub module sensor.



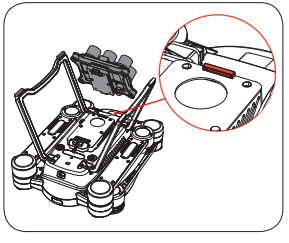
3) Please install the sensor cover.



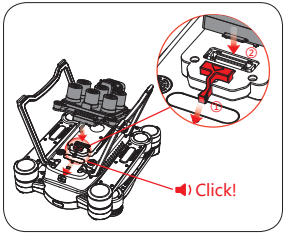
4) Please install the other sensor.



5) Please insert the buckle on the front of the gas detector into the fastening plate.



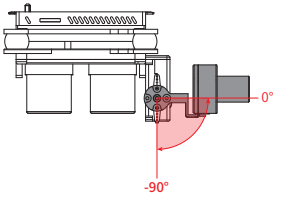
6) Please pull back the latch to secure the gas detector.



★ Before mounting the gas detector, please turn off aircraft power.
★ Do not move the aircraft when the gimbal is running self diagnostics.
★ Please insert/remove the SD card when the aircraft power is off.

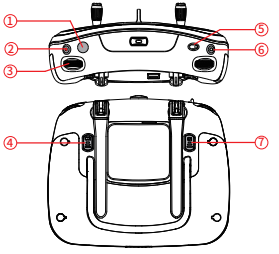
Active range

The first person view camera' pitch angle ranges from -90° to 0° .



Supported functions

Taking the remote control as an example, the first person view camera is used to take pictures and video through the camera button and the video button; the right dial controls the megaphone pitch, which is convenient for adjusting the camera shooting angle range.



1. Gimbal Reset Button
2. Record Buttion
3. Gimbal Pitch Dial
4. Customizable Button C2
5. Flight Mode Switch
6. Shutter Button
7. Customizable Button C1

App control

Download & Installation

Please scan the QR code below to install the App .Use this product through the App.

★ App requires systems with iOS8.0 or above or Android 5.0 or above.

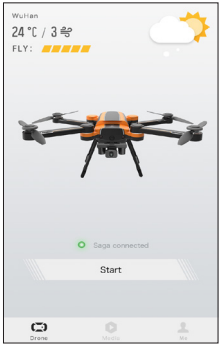
Connect to App

Use the USB cable to connect the controller to your mobile device. Turn on the controller and aircraft and start the App.

Connect the Remote ▶ Connect the Mobile Device ▶ Power on Remote ▶ Power on Aircraft ▶ Launch App

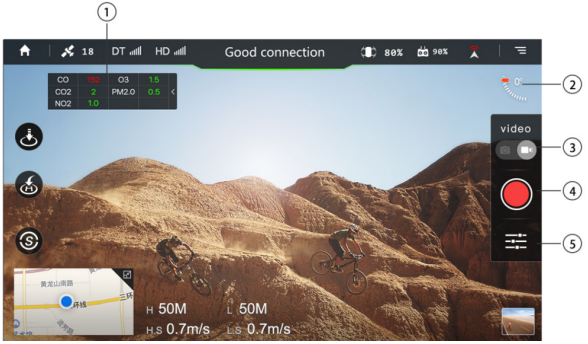
Start Up Interface

Run the App and enter the main menu. When the connection is normal, the interface will show the start up screen.



Camera Interface

Press “start” to enter camera interface.



① **Gas and concentration values**
Display the current gas and concentration values

② **Display pan/tilt angle**
Display current pan/tilt angle.

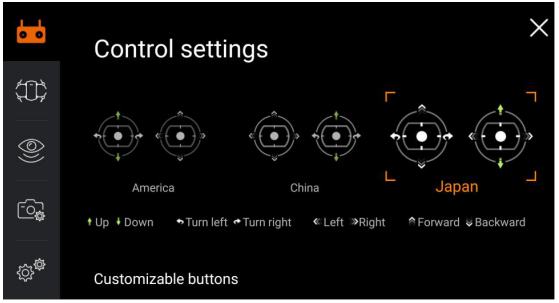
③ **Switch picture taking / video recording**
Click to switch between current picture taking/video recording mode.

④ **Picture taking/video recording button**
/ Display current functions: picture taking/video recording.

⑤ **Camera settings**
Click to control gimbal pitch

Camera Settings

Press the settings icon in the top right corner. You can choose between America, China and Japan in the settings interface.



★ The App interface and functions will be continuously updated. Specific details are dependent on the latest version.

Media files

The photos and videos are stored on the SD card. You can access the files through a card reader.

Maintenance

•Keep the modules from contacting with organic solvents (including silica gel and other adhesives), paints, chemicals, oils and high-concentration gases.
•The module can’ t be not completely encapsulated with resin material, nor can it be immersed in an oxygen-free environment, otherwise it will damage the performance of the sensor.
•The module is forbidden to be stored and used in high concentration alkaline gas for a long time.
•Do not apply the module to systems which threaten personal safety.
•Do not place the module in a high concentration of organic gas for a long time.

•The module electrochemical component life is 2 years (in the air).
•Please contact GDU If you need to detect other types or concentrations of gas.

Safety Instructions

• People under the age of 18 are not allowed to use this product.
• Do not place the product within the reach range of children.
• When using this product together with GDU aircrafts, please strictly follow the flight and use safety instructions of GDU aircraft.
• Unauthorized disassembly or modification of the product is prohibited.
• When using this product for gas detection, please ensure that you are not in the range of harmful gases or have already taken adequate protection measures.
• Handle the gas detector carefully. Keep the device out of the reach of children.
• Avoid subjecting the device to severe mechanical stress. The gas detector is equipped with high-quality electronic units and is therefore very sensitivie to impacts, shocks, etc. because it can be damaged by them.
• If you have questions which remain unanswered by these operating instructions, contact our technical support service or other technical personnel.

Technical Data

Gas detector	
Detectable gases	NO2, CO, SO2, O3, PM2.5, Temperature and Humidity, etc.
	Supports interchangeable detection sensor sub modules
	Maximum number of sub modules: 6

Detectable gas concentration values	NO2 range 0-20ppm concentration 0.1ppm
	CO range 0-1000ppm concentration 1ppm
	SO2 range 0-20ppm concentration 0.1ppm
	O3 range 0-20ppm concentration 0.1ppm
	H2S range 0-100ppm concentration 1ppm
	CH4 range 0-100%LEL concentration 1%
	PM2.5 range 0-1000ug/m^3, accuracy±15%
	Humidity: range 0-100%RH accuracy ±3%RH Temperature: Range -40-125℃ Accuracy ±0.3℃
Camera specifications	Sensor: 1/2.7 inch CMOS
	Field of view: horizontal: 94° vertical: 48.8°
	Photo and video resolution: 1920×1080
	Pitch control angle: -90°～ 0°
Dimensions	162mm×148mm×77mm
Weight	415g (maximum weight)
Appropriate environment	Operating temperature: -20℃～ 50℃ Storage temperature: -40℃～ 60℃ Operating humidity: 15% ～ 90% RH (no condensation)

*** Information is subject to change without notice.**