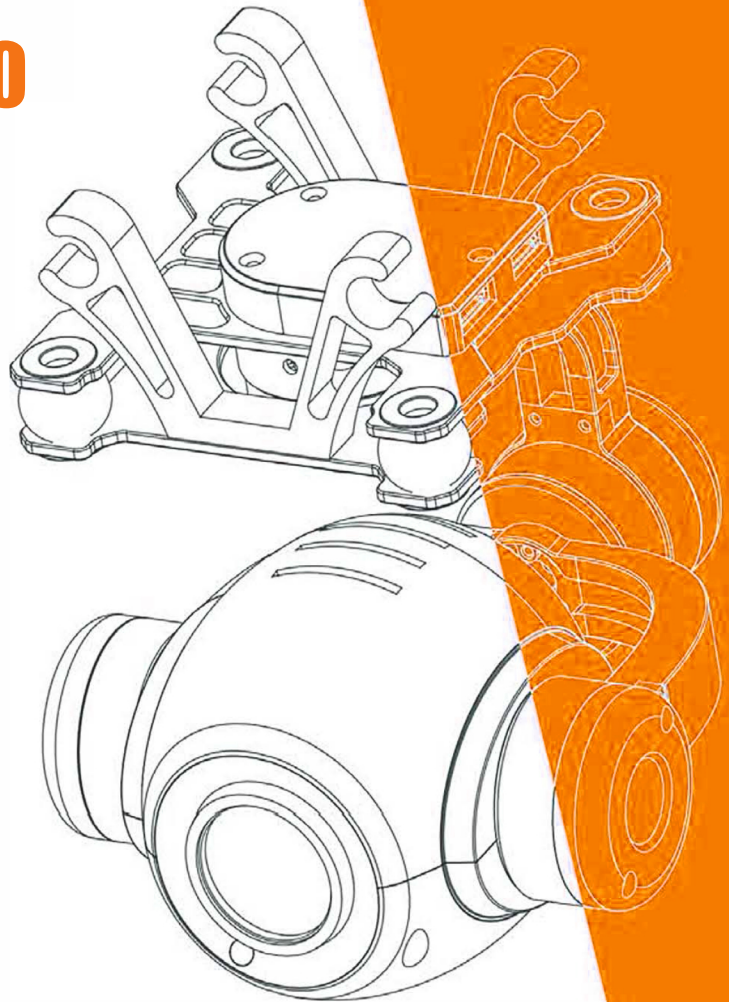


FOXTECH SEEKER-10

USER MANUAL



Integrated with 10X Zoom HD Camera
Intended for Search and Rescue Missions

WARNING AND DISCLAIMER

Make sure not to adjust the gimbal or change its mechanical structure by yourself. Be sure to install the camera to gimbal before powering on and installing the gimbal onto the aircraft.

Please do not add other peripherals for the camera (Filter, Hood, etc.), so as to avoid the gimbal performance degradation or internal line road damage.

When flying with Rescue-2 gimbal, please make sure your vehicle master flight control system work in the safest state. We strongly recommend that removing the propellers on the aircraft while setting up PTZ. Use non-power battery powered gimbal and keep children away from the preset flight region.

Our company can not control the user's specific use, installation, assembly, modification (including the use of non-specified parts), and improper use. Direct or indirect damage or injury that caused by the above, our company will not be liable for any loss and liability.

THINGS TO REMEMBER

Aerial photography with a 10x zoom gimbal camera is supposed to be fun and there's a lot to learn. If you're having a difficult time, take a break and do some research. Don't be afraid to ask for help in Facebook groups, RC related forums, or send us a message directly. If you're new to the use of gimbal it can be trying and at times frustrating. Other flyers' advice can be your best source to ensuring your operation over the gimbal is as good as it can be.

For those of you whom are not new to flying with a professional gimbal...remember you were once and any help you can give others is always appreciated. We see you guys out on the forums and Facebook groups offering your knowledge to others that don't have as much. Much respect! Thanks for the input.

BRIEF INTRODUCTION

Features:

- All in One Design with Built-in 10x zoom HD camera.
- Use BaseCam SimpleBGC 32-bit controller Encoder.
- Compact structure yet easy to install.
- One Key Lock, Shoot and Return to Center.
- 1035 Wide Range Lens.
- Less Effect of Temperature Drift.
- Support HDMI Transmission.
- Able to Work under Extremely Cold/Hot Environment (-30°C ~ +40°C).

Rescue-2 is the 2nd generation of Rescue 10x zoom gimbal. One key lock, shoot and return to center. More stable, better camera lens, and less effect of temperature drift. Perfectly integrated with the HD camera and Basecam SimpleBGC encoder, the Rescue-2 utilizes world-leading stabilization technology to automatically stabilize your camera in flight.

It is specially designed for search and rescue missions. This is another tool that can be added to your arsenal of equipment to aid you in those times when someone may be in imminent danger or distress. The general field of search and rescue has many different sub-fields typically determined by the type of terrain the search is conducted over, including mountain rescue, ground search and rescue, urban search and rescue, combat search and rescue, and air-sea search and rescue.

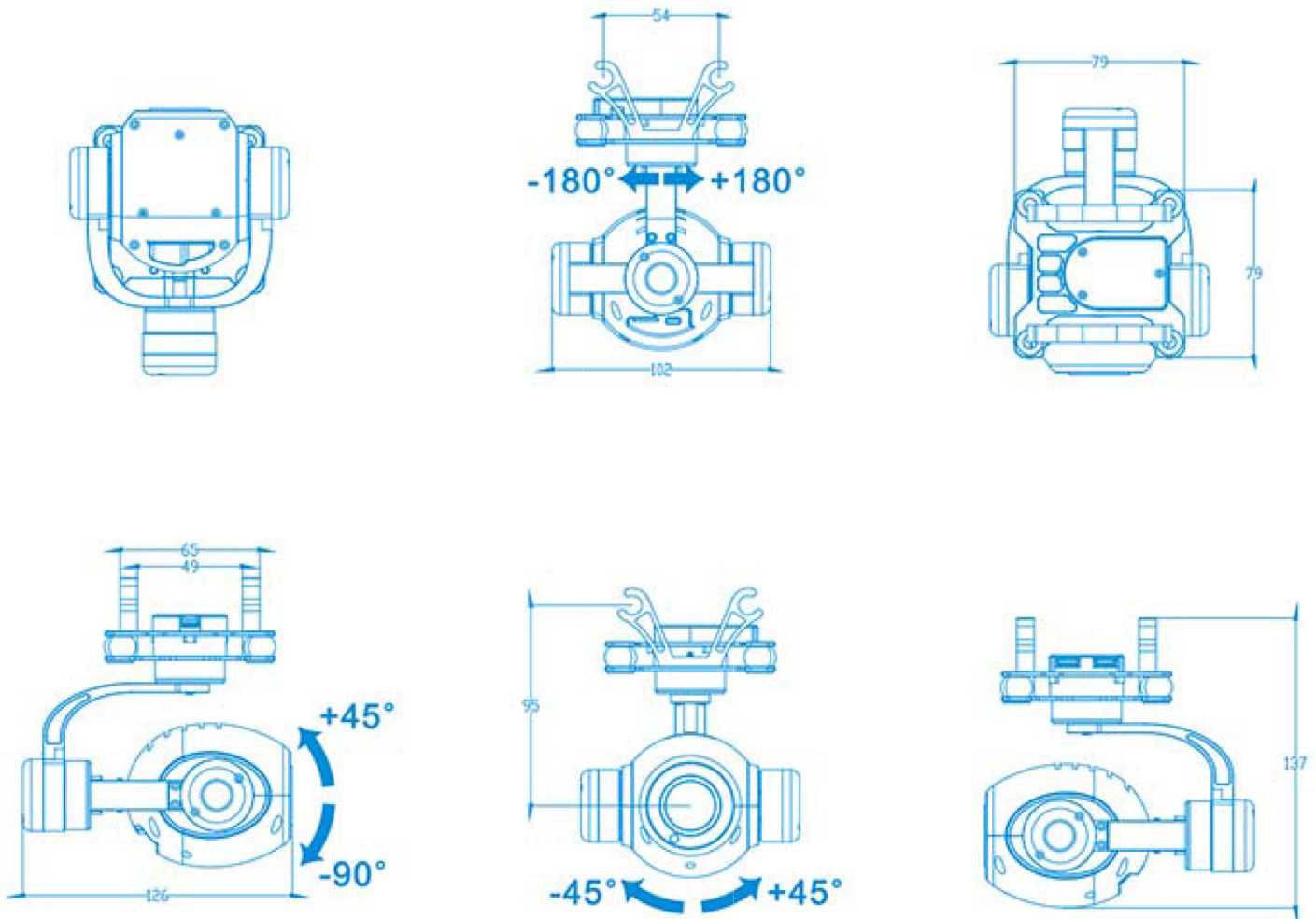
Rescue-2 is a very versatile tool that can be applied to the vast majority of search and rescue missions due to its size, convenience, and quick deploy time. Using this 10x zoom gimbal will give you a stable eye in the sky that can be controlled via drone pilot or a secondary individual allowing for an overhead view that can cover a large amount of ground quickly and effectively. The 10x zoom function will allow you to remain at a distance yet zoom closely in on anything that requires your attention. The combined use of video transmitters and receivers will give you a live view back at the mission base and allow for coordinating crews in real time giving an effective means for obtaining the best possible outcome.

Use the aviation material, Basecam SimpleBGC encoder, 1035 wide range lens and many more... The Rescue-2 is able to make the difficult balance between agility and image quality.

GENERAL SPECIFICATIONS

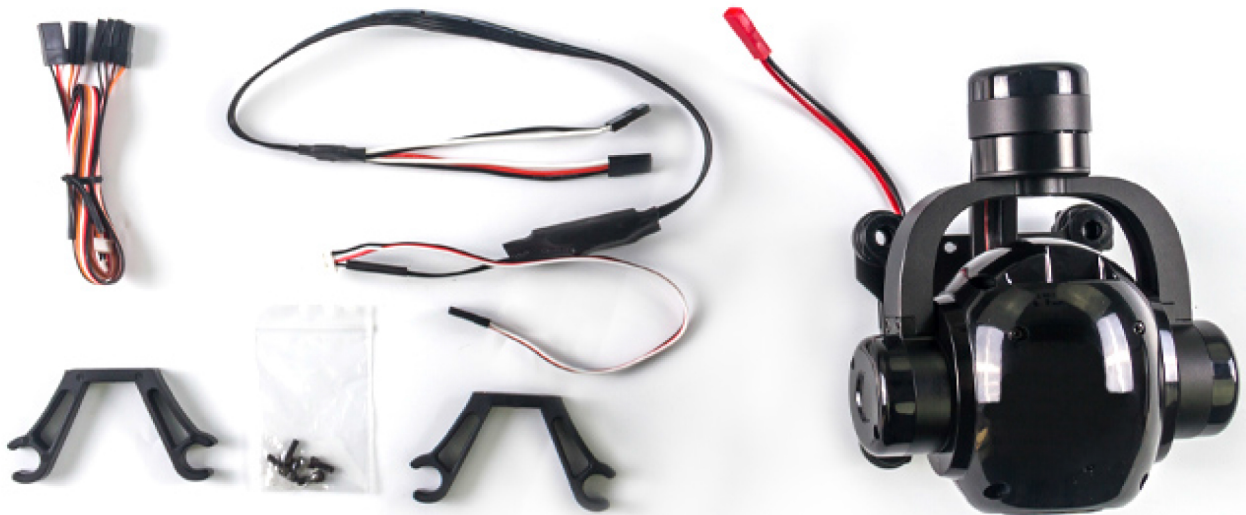
ITEM	MIN.	STANDARD	MAX.
Input Voltage	10.2V	12.6V	18.5V
Static Current	90mA	110mA	250mA
Dynamic Current	0.18A	0.45A	2.2A
5V Output Voltage	4.5V	5V	5.2V
5V Output Current	100mA	500mA	1A
Static Attitude Tracking Accuracy	±0.01°		±0.03°
Motion Attitude Tracking Accuracy	±0.05°		±0.5°
Pitching Angle	+45° ~ -90°		
Rolling Angle	+45° ~ -45°		
Heading Angle	+180° ~ -180°		
Operation Temperature	-30°C ~ +40°C		
Effective Pixel	2304(H) x 1536(V)		
Dynamic Range	110dB		
Optical Zoom	10X, f=4.9 to 49mm		
Minimum Focus Distance	1.5m		
Level Range of Observation	53.2°(Near Focus) - 5.65°(Far Focus)		
Vertical Range of Observation	39.8°(Near Focus) - 4.2°(Far Focus)		
Scanning	Line by Line		
Video Output	720P HDMI		
Support Modes	1080P 30fps Storage		
	HDMI 720P 50/60fps		
Frame Rate	60fps		
Signal-to-Noise Ratio (S/N)	48 dB		
Lowest Light Sensitivity	Color 0.05lux@F1.6		
Back Light Compensation	Back Light Compensation / Strong Light Suppression		
Day / Night Conversion	Color Mode Only		
Auto Gain	Auto		
White Balance	Auto		
Electronic shutter	Auto		
External Control	UART (2400, 4800, 9600, 38400,57600bps)		
Commnuication Protocol	Pelco-D, Hitachi, Visca, FC		
Remote Control	Infrared / Remote Zoom / Menu		
Focus	Auto / Manual / One-shot autofocus		
Focus Speed	2 Seconds		
Lens Initializing	Built-in		
User Presets	20		
Image Flip	Mirro/Flip		
External Interface	D-type HDMI, 6P terminal blocks		
Weight	410g		

GIMBAL ROTATION

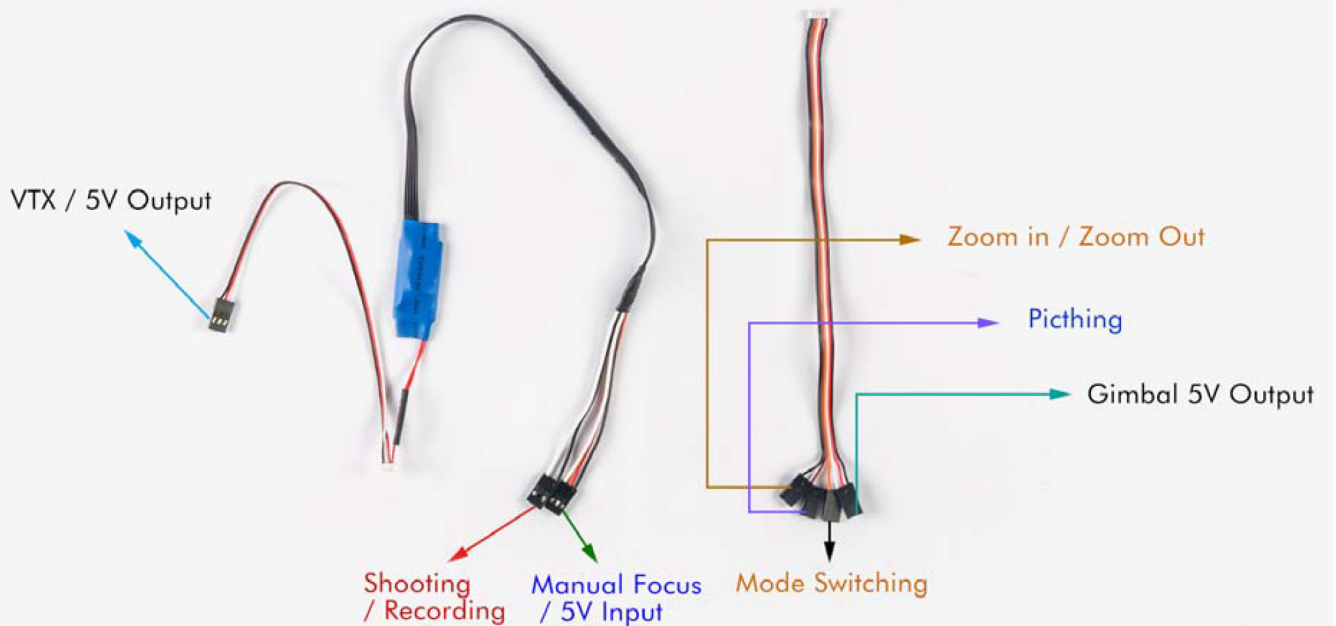


The Rescue-2 gimbal has integrated with a 10x zoom optical HD camera, please do not change to other camera by yourself in case of incompatibility. For any damage to the camera or gimbal, please contact FPV Model.

PACKING LIST



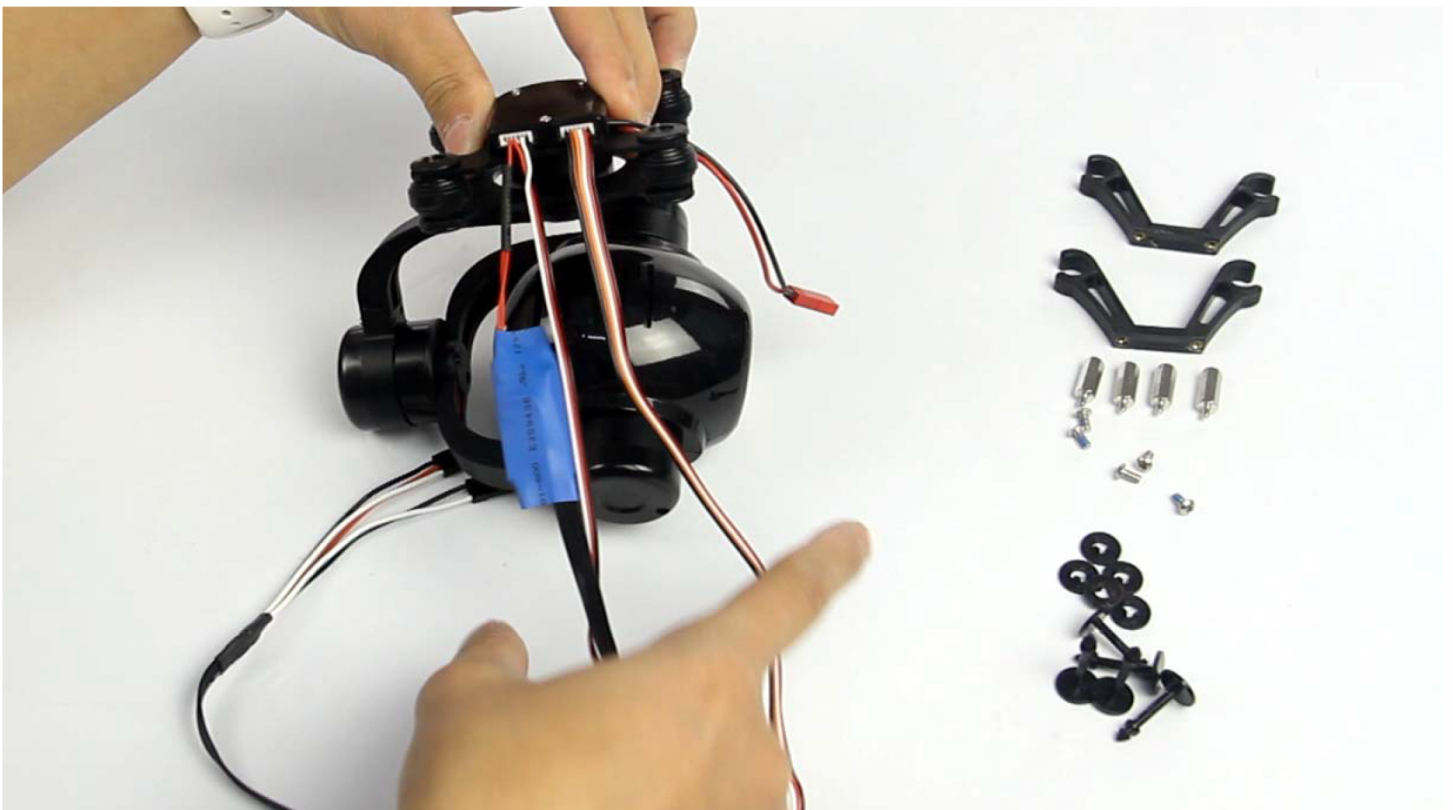
CABLE DEFINITION



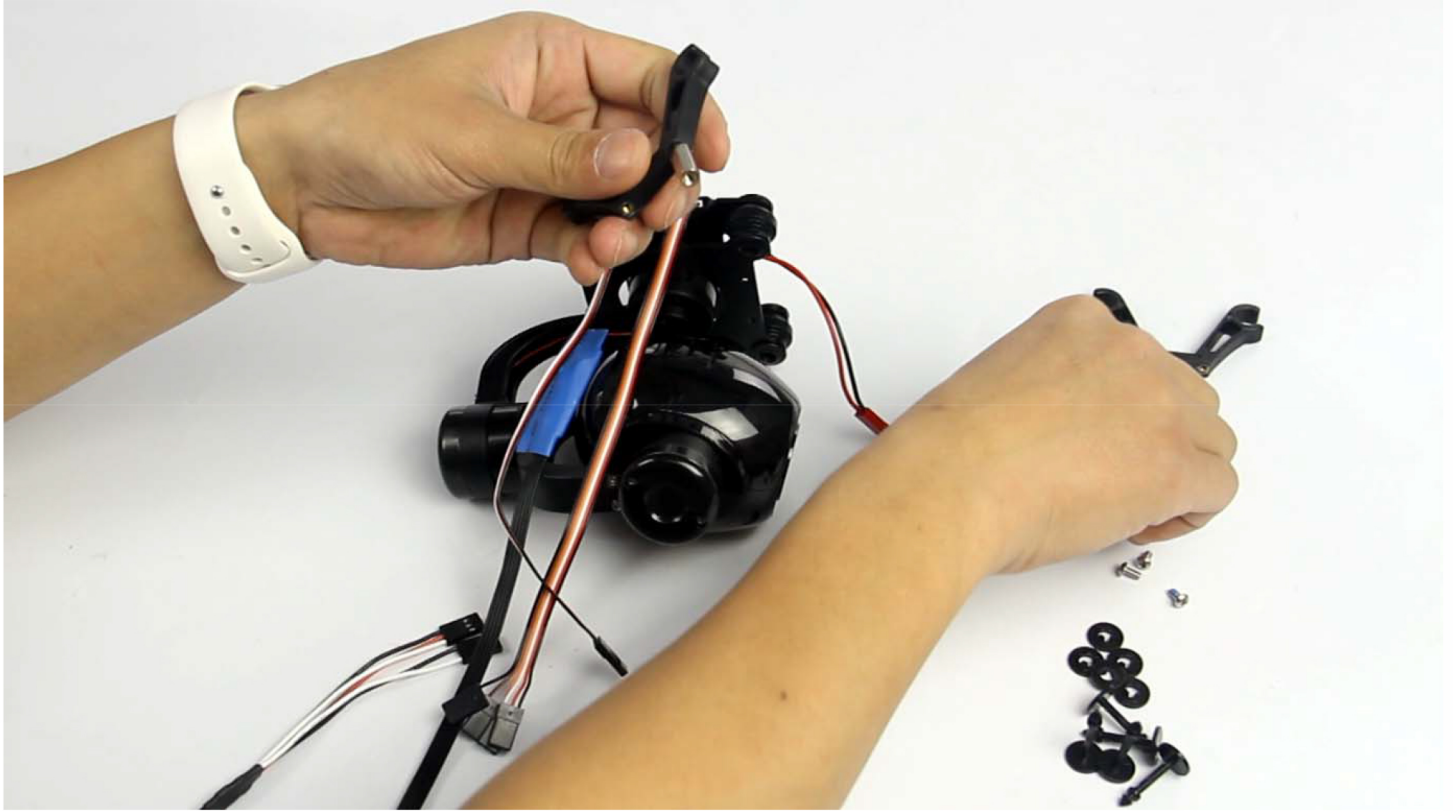
INSTALLATION



Step 1: Insert the control cable to the right port of gimbal for functions of mode switching, zooming, pitching and 5V output.



Step 2: Insert another control cable to VTX port on the left for functions of recording and manual focus.



Step 3: Install the Rack Mounts and then mount to your multirotor or fixed wing.

USE GUIDE



1: Turn on the radio before powering on the gimbal.



2. Turn the right stick to left or right, the camera will turn left or right accordingly.



3. Turn the left sticker to left or right, the camera will up or down accordingly.



4. Turn the level to switch the 3 modes of Following, Locking and One key return.



5. Turn the right sticker up or down for manually focus.



6. Turn the left sticker up or down for zooming in or out.



7. Turn the right level to switch the modes of shooting & recording.