

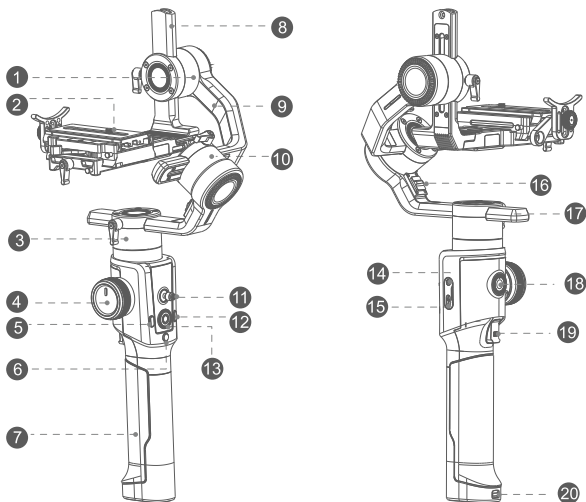
**MOZA AIR2**

User Manual

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## MOZA AIR 2 Overview

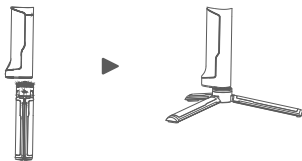


- |  |                 |                               |                       |
|--|-----------------|-------------------------------|-----------------------|
| 1 Tilt Motor                             | 6 Power Button  | 11 Joystick                   | 16 Roll Motor Lock    |
| 2 Mechanical Memory Quick Release System | 7 Battery Hatch | 12 Fn Button                  | 17 Pan Arm            |
| 3 Pan Motor                              | 8 Tilt Arm      | 13 Dial                       | 18 3/8 Extension Port |
| 4 Wheel                                  | 9 Roll Arm      | 14 DC Input Port              | 19 Smart Trigger      |
| 5 M Button                               | 10 Roll Motor   | 15 Tune/Firmware Upgrade Port | 20 Battery Hatch Lock |

## AIR 2 Installation

### Attaching the Tripod

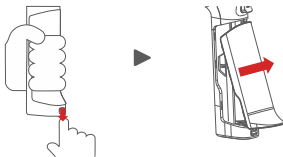
2 screw holes are equipped at the bottom of grip: 1/4" for mini tripod and 3/8" for large accessories like slider and big tripod. Screw the mini tripod, then expand as shown below.



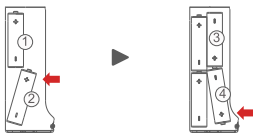
### Installing Batteries

**⚠ Note:** Please pay attention to the battery poles for fear of short circuit.

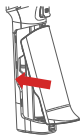
a. Hold the battery hatch slightly, push the lock downward, slide the hatch as shown below and then release the lock.



b. Insert the batteries one by one as shown.

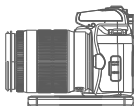


c. Cover the battery hatch.

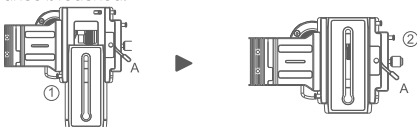


## Mounting the Camera

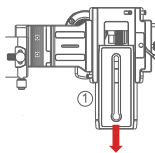
The Air 2 quick release plate is equipped with 2 screws, select an appropriate one according to the camera type. There is no limit to the installing direction of the quick release plate. When mounting the camera, make sure the lens slightly extends beyond the quick release plate in order to reserve extra room for lens support and rod adaptor



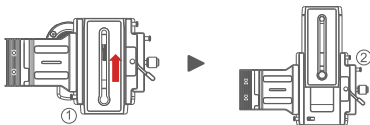
- After mounting the camera onto the quick release plate, loosen the lever A, then slide the quick release plate onto the baseplate. The quick release plate can be installed from both back and forth.
- Please make sure the safety lock 1 and 2 will eject once each, and a rough back and forth balance is reached.



- Press the safety lock 1, the quick release plate will be removed in the direction shown below.



- Press the safety lock 1, slide the plate as shown below, then press the lock 2 when the plate is moved to the end. The quick release plate will be removed in the reverse direction.



**⚠ Note:** It is recommended to use the lens support for the best effect.

## Connecting Camera Control Cable

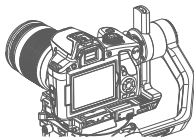
4 different control cables are stored in the tool box

- M3C-Mini cable: For cameras with Mini port like Canon 5D3, etc
- M3C-Micro cable: For cameras with Micro port like Canon 5D4, etc
- MCSC-Remote cable: For Panasonic cameras with 3.5mm port like GH3, GH4, etc
- MCSC-Multi cable: For Sony cameras with Multi port like A7s II, A7 III, etc

Connect the control cable to the CAM CTRL port on the Air 2 gimbal, and then the other end to the control port on the camera. The camera icon will be displayed on the OLED screen. Then parameters adjusting, video recording or photo taking, and follow focus can be directly operated on the gimbal.

### **⚠** Note:

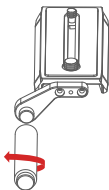
- For details of different cameras and lenses, please refer to the page 9.
- If USB control is not supported, please choose your camera type manually.



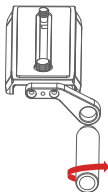
## Installing the Support Rod

Please install the rod before using the follow focus.

Take out the rod adaptor, M3x10 screws, Allen wrench first. Fix the adaptor on the front or back of the quick release plate with M3x10 screws, then revolve the support rod into the adaptor.



When installed at the left side, please match the stud of the rod adaptor and the screw hole of the support rod, then tighten the support rod counterclockwise.



When installed at the right side, please match the screw hole of the rod adaptor and the stud of the support rod, then tighten the support rod clockwise.

**⚠** Note: Please install the support rod and rod adaptor according to the position shown above for fear of falling off.

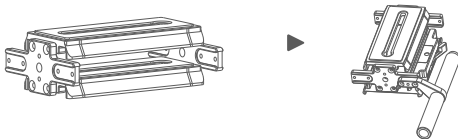
### **Mounting the Riser Plates**

The riser plates need to be used in the follow cases:

- a. The camera is too short to balance the tilt axis
- b. The lens is too short to install the follow focus
- c. The follow focus needs to be installed for zoom

**⚠ Note:** If the rod adaptor has been installed before mounting the riser plates, please remove the adaptor first.

Fix the riser plates in the screw holes on both ends of the quick release plate, then fix the other quick release plate onto the riser plates in the same way.



There are also screw holes on the riser plates for installing the rod adaptor.

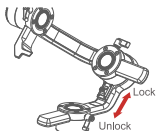
## Balance Adjustment

**⚠ Note:** In order to make the adjustment easier, please refer to the balance check function of Air 2 on page 18.

### Lock the Roll Axis

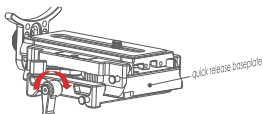
Move the roll motor lock to the lock end, rotate the roll arm to the position shown below, then the roll arm will automatically lock.

**⚠ Note:** If the roll arm locks in the position overlapping the pan arm, please unlock the roll motor first)



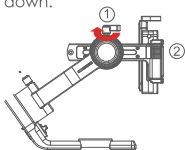
### Balancing the Camera

- Mount the camera onto the Air 2, release hands to check if the camera is top or bottom heavy.
- If the camera is bottom heavy, loosen the knob to slide the quick release baseplate forwards until the lens points forward.
- If the camera is top heavy, loosen the knob to slide the quick release baseplate backwards until the lens points forward.
- Tighten the knob.



### Balancing the Tilt Axis

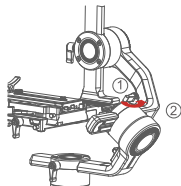
- Rotate the camera so that the lens is pointing upward, release hands to check the direction in which the camera swings.
- Loosen the knob 1 on the tilt motor to slide the tilt arm 2 until the camera stays still without tilting it up or down.
- Tighten the knob 1.





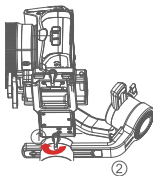
### **Balancing the Roll Axis**

- Move the roll motor lock switch to the unlock end.
- Release hands to observe the direction in which the roll axis swings.
- Loosen the roll axis knob 1 to slide the roll arm 2 until the roll arm 2 stays still.
- Tighten the knob 1.



### **Balancing the Pan Axis**

- Grab the Air 2 horizontally, make the pan arm level. Release hands to check the direction in which the camera swings.
- Loosen the knob 1 on the pan motor. Move the pan arm 2 leftwards or rightwards until it keeps level.
- Tighten the knob 1.



**⚠ Note:** If the balance of the pan axis is not adjusted properly, the pan axis may become hot, and the inception mode cannot be used properly.

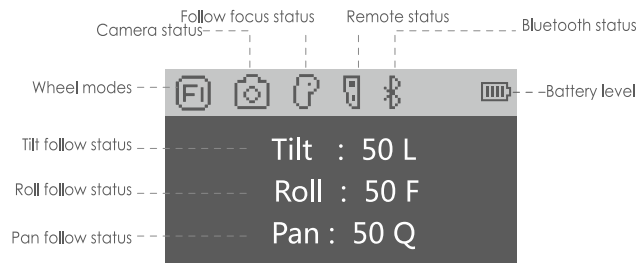
## Buttons and OLED Display

### Button Functions:

State	Press	Power button	Fn button	Smart Trigger	M button	Wheel	Joystick Button
Main interface	1x	Start/stop recording	Sport gear mode	—	Switch wheel modes	Control the function chosen by	Enter/exit pan follow
	2x	Photo	Inception mode	Re-center	—		Enter/exit roll follow
	3x	—	—	Selfie	—		Enter/exit tilt follow
	3s	On/off	Auto tune	—	—	—	
	hold	—	—	All lock	—	M button	—

State	Press	Dial top button	Down button	Left button	Right button	Menu button	Dial
Main interface	1x	Enter/exit TV adjustment	Enter/exit AV adjustment	Enter/exit ISO adjustment	Enter/exit preview	Enter the menu	follow speed
	Press 3s	—	—	—	—	Sleep/wake up	—
Camera set	1x	Enter/exit TV adjustment	Enter/exit AV adjustment	Enter/exit ISO adjustment	Enter/exit preview	Enter the menu	Set camera parameters
Main interface	1x	Option-up	Option-down	Return to previous	Next/enter/select	Exit the menu	Switch/adjust
Power-off	Upgrade mode	Center button + power button					

### OLED Icons Introduction:



### Follow statue note:

Number: follow speed    L: lock    F: Follow    Q: Sport gear mode

**!** Note: Device icons will not be displayed if they are not connected to the gimbal.

## Power on/off. Sleep. Wake up

Long press the power button for 3 seconds until the main interface status is displayed on the screen to power on, long press for 3 seconds again to power off.

**⚠ Note:** Don't release the power button until the main interface is displayed on the screen, otherwise the Air 2 will not work properly.

In the power-on state, long press the menu button for 3s to enter the sleep mode. The motors stops working, but the OLED screen continues to display the status. Press the button again for 3s to wake up the Air 2.

## Camera Setting and Control

**⚠ Note:** Please refer to the page 4 to connect the gimbal and camera first with camera control cables. MOZA Air 2 supports the parameter adjustment and auto-identification of cameras with USB control. For those cameras do not support USB control, such as Panasonic GH3/GH4/GH5, please select the camera type manually.

### Air 2 camera compatibility list:

Camera			Air 2			Functions						
Brand	Model	Operation	Operation	Cable	supply	Shutter	Record	AV	TV	ISO	EV	LV
Canon	1DX	—	Select 'Canon-USB' control mode Menu>Cameraset>Select>Canon-USB	M3C-Mini	—	OK	OK	OK	OK	OK	OK	OK
	5D2					OK	OK	OK	OK	OK	OK	
	5D3					OK	OK	OK	OK	OK	OK	
	6D					OK	OK	OK	OK	OK	OK	
	6D2			OK		OK	OK	OK	OK	OK		
	80D			OK		OK	OK	OK	OK	OK		
	5D4			OK		OK	OK	OK	OK	OK		
	5Ds			OK		OK	OK	OK	OK	OK		
Sony	RX10 II	Set the USB mode to 'PC-Control'	Select 'Sony-USB' control mode Menu>Cameraset>Select>Sony-USB	M3C-Micro	OK	—	OK	—	OK	OK	OK	OK
	RX10 III					OK	—	OK	OK	OK		
	RX100M4					OK	—	OK	OK	OK		
	A5100					OK	OK	OK	OK	OK		
	A6300					OK	OK	OK	OK	OK		
	A6500					OK	OK	OK	OK	OK		
	A7S			—		OK	OK	OK	OK	OK		
	A7S II			OK		OK	OK	OK	OK			
	A7R			—		OK	OK	OK	OK	OK		
	A7R II			OK		OK	OK	OK	OK			
	A7			—		OK	OK	OK	OK	OK		
	A7 II			OK		OK	OK	OK	OK			
Sony	Idem	—	Select 'Sony-Multi' control mode Menu>Cameraset>Select>Sony-Multi	MCSC-Multi	—	OK	OK	—	—	—	—	
Panasonic	GH3	—	Select 'Panas-2.5mm' control mode Menu>Camera set>Select>Panas-2.5mm	MCSC-Remote	—	OK	OK	—	—	—	—	—
	GH4					OK	OK	—	—	—		
	GH5					OK	OK	—	—	—		
	GH5S					OK	OK	—	—	—		
	G7					OK	OK	—	—	—		
	G85					OK	OK	—	—	—		
	G9					OK	OK	—	—	—		

**⚠ Note:** The camera types and functions supported by the Air 2 will be continuously updated. Please visit [www.gudsen.com](http://www.gudsen.com) or contact the tech support for the latest list.

- Start/Stop: Press power button once
- Shoot photos: Press power button twice
- Adjust shutter: Press the up button of the dial (TV)
- Adjust aperture: Press the down button of the dial (AV)
- Adjust ISO: Press the left button of the dial (ISO)



When adjusting camera parameters, press the corresponding button and the screen will display the value, then turn the dial to adjust the value. After the adjustment is completed, press the corresponding button again to turn off the adjustment of camera parameters.

- Turn on/ off preview: press the right button of the dial to turn on or off live preview.

**⚠ Note:** Only when start camera settings can turn the dial adjust parameters. Under the default state, turn the dial would adjust the follow speed. Please refer to page 11 to get more follow modes information. Some cameras with sensor, like Sony A7S2 will shut down the screen and switch to viewfinder for preview, if there is obstruction before the viewfinder. Set preview setting to screen

### **Smart Wheel Working Modes**

The smart wheel of Air 2 has 4 working modes. press the M button to switch the modes. The icon of the smart wheel mode changes correspondingly as below:

- F1** Focus channel 1, control follow focus
- F2** Focus channel 2, control follow focus
- FE** Electronic Focus channel. If your camera and lenses support electronic follow focus, you can use the channel to control electronic focus function.
- R** Roll axis control. Control the roll axis of Air 2

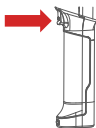
**⚠ Note**

1. If connecting only one follow focus, both F1 and F2 channels can control the follow focus. When connecting two follow focus, then the two channels control the follow focus respectively.
2. To use the electronic focus function, please refer to [www.gudsen.com](http://www.gudsen.com), the camera function support list.

### Use the smart trigger to re-center, take selfie and etc.

The Air 2 smart trigger has the following three operations to quickly control the movement of the Air 2.

- Double press: Re-center. Make the gimbal quickly return to the starting position
- Triple press: Selfie. Air 2 turns the lens towards the user
- Hold: Enter the all lock mode. Release the button, the gimbal returns to the default follow mode.



**⚠ Note:** When re-center and selfie, please do not rotate the handgrip, otherwise the final position will be deviated.

### Switch Follow Modes

Each axis of Air 2 has follow function, and the follow functions of each axis can be independently controlled.

No.	Tilt	Roll	Pan	Note
1	Lock	Lock	Lock	All lock
2	Lock	Lock	Follow	Pan follow
3	Lock	Follow	Lock	Roll follow (FPV)
4	Lock	Follow	Follow	Pan-Roll follow
5	Follow	Lock	Lock	Tilt follow
6	Follow	Lock	Follow	Pan-Tilt follow
7	Follow	Follow	Lock	Roll-Tilt follow
8	Follow	Follow	Follow	All follow

- Turning on/off the pan motor follow: press the joystick button
- Turning on/off the roll motor follow: Double-press the joystick button
- Turning on/off the follow of the Tilt motor: Triple-press the joystick button

Adjust the follow speed of each axis: Under the default status, turn the dial and the follow speed values of the axes on the screen will change.

Quickly enter full lock: When press and hold the smart trigger, the follow mode of each axis will become 'L' (locked mode). When release the smart trigger, the gimbal returns to original mode.

Sport gear mode: Press the Fn key, the pan motor enters the sport gear mode. The letter after 'Pan' changes to 'Q', and other axes remain unchanged. Press the Fn key again to exit the mode, and the pan motor returns to the original follow mode.

## Use the Fn button to enter the Inception Mode and auto tuning

The Fn button is a special function button that allows you to quickly access various special functions.

- Press: Turn on/off the sport gear mode. Under the mode, the pan motor steers quickly.
- Double-press: Enter/exit the Inception Mode. When using the Inception Mode, point the handle to the subject, then turn the joystick to the left or right to shoot a 360° rotation. The speed of the Inception Mode can be adjusted, please refer to page 15
- Long press: To automatically tune the parameters. Under this condition, the Air 2 should be installed on a tripod, and place it on a horizontal and stable desk. Air 2 will check the axis load one by one and automatically tune the power of the motor to make it in optimal state.

## Menu Description

### Marks description and operation

- If there is a '>' mark on the right side of the selected item, press the dial right button for the next menu.
- If the selected item has a '[' and contains a number, rotate the dial to adjust the value.
- If the selected item has a ')' and contains an option, press the right button to switch among options.



Note:

1. If there is a '\*' on the right side of one item, the current list is the final option. Press up/down button to select an item, then press right button to move the '\*' to the selected item and launch it.
2. If the selected item and other items in the menu list don't have any marks, press the dial right button to start the option once. '?' is displayed during the process, 'OK' is displayed after the process is completed, and 'ERR' is displayed if the option fails.

L1	L2	L3	L4	L5	Note			
Camera Set>	Select>	Shutter cable	—		Shutter Control			
		Canon-USB	—		Canon USB Control			
		Sony-Multi	—		Sony Multi Control			
		Sony-USB	—		Sony USB Control			
		Panas-2.5mm	—		Panasonic Remote Control			
		Panas-USB	—		Panasonic USB Control			
		Nikon-USB	—		Nikon USB Control			
		Fuji-USB	—		Fuji USB Control			
	BMD-LANC	—		BMD Remote Control				
	Parameter>	Aperture[ ]	—		Adjust Aperture			
		Shutter[ ]	—		Adjust Shutter			
		ISO[ ]	—		Adjust ISO			
EV[ ]		—		Adjust Exposure Compensation				
Gimbal Set>	Motor>	Switch( )	—		Turn on/off The Motor			
		Power>	Autotune	—		Start Auto Tune		
			Level>	Ultra light			Set the motor parameters to ultra light	
				Light			Set the motor parameters to light	
				Medium			Set the motor parameters to medium	
				Heavy			Set the motor parameters to heavy	
				Ultra heavy			Set the motor parameters to ultra heavy	
			Custom>	Tilt[ ]			Set the power of the tilt motor	
				Roll[ ]			Set the power of the roll motor	
				Pan[ ]			Set the power of the pan motor	
			Filter	Tilt[ ]			Set the filtering parameters of the tilt motor	
				Roll[ ]			Set the filtering parameters of the roll motor	
				Pan[ ]			Set the filtering parameters of the pan motor	
			Follow>	Switch>	Tilt( )			Turn on/off the follow of tilt motor
					Roll( )			Turn on/off the follow of roll motor
					Pan( )			Turn on/off the follow of pan motor
		Speed>		Tilt[ ]			Sets the follow speed of the tilt motor	
				Roll[ ]			Sets the follow speed of the roll motor	
				Pan[ ]			Sets the follow speed of the pan motor	
		Dead angle>		Tilt[ ]			Set the dead angle of the tilt motor	
				Roll[ ]			Set the dead angle of the roll motor	
				Pan[ ]			Set the dead angle of the pan motor	
		Manual pos>	Tilt( )	—		Turn on the manual positioning of the tilt motor		
Roll( )	—			Turn on the manual positioning of the roll motor				
Pan( )	—			Turn on the manual positioning of the pan motor				

L1	L2	L3	L4	L5	Note
Gimbal Set>	Operations>	Joystick> (Set functions of the joystick)	Function>	Left-Right ( )	Set the left and right functions
				Up-Down ( )	Set the up and down functions
			Sensitivity>	Left-Right ( )	Set the left and right sensitivity
				Up-Down ( )	Set the up and down sensitivity
			Habits> (Set the directions)	Left-Right ( )	+: forward ; - reverse
				Up-Down ( )	+: forward ; - reverse
		Wheel> (Set functions of the smartwheel)	Function>	Focus-1	Control the follow focus 1
				Focus-2	Control the follow focus 2
				Focus-E	Control the electronic follow focus
				Roll	Control the roll axis
			Sensi[]	——	Set the sensitivity of the smartwheel
		Habits()	——	+: forward ; -: reverse	
		Trigger>	Hold> (Press and hold the smart trigger)	None	non-functlional button
				All lock	Enter all lock mode
				Quick follow	Enter sport gear mode
				FPV	Enter FPV mode
				+ P&Y follow	Turn on tilt and pan follow
				+ P follow	Turn on tilt follow
				+ R follow	Turn on roll follow
				+ Y follow	Turn on pan follow
			Once> (Single Press the Smart Trigger)	None	non-functlional button
				Re-center	Re-cent
				selfie	Take the selfie
				Shutter	Take photos
	Twice> (Double Press the Smart Trigger)			None	non-functlional button
	Re-center			Re-cent	
	Triple >		selfie	Take the selfie	
		None	non-functlional button		
		Re-center	Re-cent		
	selfie	Take the selfie			
	Dial	Habits()	——	Set the directions (+: forward ; -: reverse)	
	Calibration>	Offset>	Tilt[]	——	Offset of Tilt Axis
			Roll[]	——	Offset of Roll Axis
			Pan[]	——	Offset of Pan Axis
		Balance chk>	back ---- front	——	Balance test results of front and back positions of camera
			down ---- up	——	Balance test results of tilt axis
			left ---- right	——	Balance test results of roll axis
		Gyro	——	Gyroscope calibration	
		Acc	——	Accelerometer calibration	



L1	L2	L3	L4	L5	Note
Advanced>	iFocus Set>	Turn off	—	—	Turn off Follow Focus
		Turn on	—	—	Turn on Follow Focus
		Set point A	—	—	Set start point of follow focus
		Set point B	—	—	Set end point of follow focus
	Inception>	Speed[]	—	—	Set the rotation speed of Inception Mode
		Smooth[]	—	—	SetSmoothness of Inception Mode
	AHR5 coeff[]	—	—	—	set attitude parameters
Tripod mode()	—	—	—	Turn on/off Tripod Mode	
Configuration>	Config 1>	Save	—	—	Save to Configuration 1
		Load	—	—	Load Configuration 1
	Config 2>	Save	—	—	Save to Configuration 2
		Load	—	—	Load Configuration 2
	Config 3>	Save	—	—	Save to Configuration 3
		Load	—	—	Load Configuration 3
Set default	—	—	—	Restore Default Configuration	
About>	—	—	—	—	Firmware Version

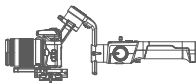
## Tips

### Operation Modes

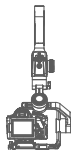
There are three operation modes for the MOZA Air 2



Vertical mode



Flashlight mode



Underslung mode

**⚠** Note: Rotate the handgrip around the roll motor to 180 degrees above the camera.

## Calibration and Firmware Upgrade

### Gyroscope Calibration

- Make sure the motors are turned off before calibration. Long press the menu button, or enter the menu and select motor > turn off to turn off the gimbal.
- Place the Air 2 on a stable desktop and keep it stationary.
- Enter the menu, select calibrate > Gyro cali, and press the right dial to calibrate the gimbal.
- Wait about 5 seconds, when the '?' changes to 'OK', the calibration is completed.

Offset	>
Balance chk	>
Gyro	?
Acc	

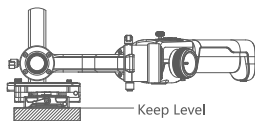


Offset	>
Balance chk	>
Gyro	OK
Acc	

**⚠ Note:** Gyroscope calibration is only required if the gimbal drifts (if the gimbal moves by itself without input from the joystick) 2. If the 'ERR' prompt appears after calibration, the calibration fails, please try again.

### Accelerometer Calibration

- Make sure the motors are turned off before calibration. Long press the menu button, or enter the menu and select motor > turn off to turn off the gimbal.
- Place the gimbal horizontally and keep it stationary



- Enter the menu, select calibrate > Acc cali, and press the right dial to enter calibration.
- Wait about 5 seconds, when the '?' changes to 'OK', the calibration is completed.

Offset	>
Balance chk	>
Gyro	
Acc	?



Offset	>
Balance chk	>
Gyro	
Acc	OK

**⚠ Note:** Accelerometer calibration is only required if the camera is not kept level. In case of emergency shooting, the camera can be adjusted to a horizontal state by balance fine-tuning. Please refer to page 18 for details. If the 'ERR' prompt appears after calibration, the calibration fails, please try again.

## **Balance Check**

The Air 2 can check the balance status of each axis by itself and guide the user to adjust correctly.

- Attach a tripod to Air 2 and place it on a horizontal tabletop.
- Enter the menu, select **calibrate > Balance chk**, and the Air 2 begins to check the balance adjustment.

**⚠ Note:** The gimbal cannot be checked for balance when motors are powered off, and 'ERR' will be prompted on the screen. Please long press the menu button, turn on the gimbal and try again.



**back--\*--front:** If the \* is close to back, the camera's position is backward and needs to be adjusted forward; If the \* is close to front, the camera's position is forward and needs to be adjusted backward. Please refer to page 6.

**down--\*--up:** If the \* is close to down, the tilt arm's position is too low and needs to be adjusted upwards. If the \* is close to up, the tilt arm's position is too high and needs to be adjusted downward. Please refer to page 7.

**left--\*--right:** If the \* is close to the left, the roll arm's position is too left and needs to be adjusted to the right. If the \* is close to right, the roll arm's position is too right and needs to be adjusted to the left. Please refer to page 7.

**⚠ Note:**

- After the test results are displayed on the screen, long press the menu button to turn off the gimbal, and then adjust each axis, then press the menu button return to wake up the gimbal
- The balance of the pan axis can't be checked right now. Please adjust it according to the operation instruction on page 7.

## **Offset**

In case of emergency shooting, the camera can be adjusted to a horizontal state by offset.

- a. Turn on the gimbal and the camera level, check the offset of the tilt and pan axis.
- b. Enter the menu, select **calibrate > offset**, select an axis that is not horizontal, and then turn the dial to adjust the fine adjustment value of the axis until the camera is completely level.

Offset	>	▶	Tilt	[50]
Balance chk	>		Roll	[50]
Gyro			Pan	[50]
Acc				

**⚠ Note:**

1. The offset can only adjust the angle of each axis within the range of about  $\pm 5^\circ$ . If there is too much offset, the camera cannot be completely leveled.
2. Offset is only a temporary solution. After shooting, accelerometer calibration is still needed.
3. The parameters of offset will not be saved and will become invalid after restart.

### **Firmware Upgrade**

Upgrade via computer:

- a. Turn off the gimbal.
- b. Long press the joystick, then press the power button with your other hand until the prompt "Boot Mode" appears on the screen.
- c. Connect the gimbal to the computer with a USB Type-C cable.
- d. The software will automatically identify the device and load the firmware. Press the "Upgrade" button and wait for about 10s.
- e. During the upgrade process, 'upgrading' will be displayed on the gimbal screen, and 'upgrade success' will be displayed on the screen after the upgrade is completed. After the upgrade completes, unplug the USB cable and restart Air2.

Upgrade Via App:

- a. Turn off the gimbal.
- b. Long press the joystick, then press the power button with your other hand until the prompt "Boot Mode" appears on the screen.
- c. Start App, press Bluetooth to search for Air 2 device and connect.
- d. The App will automatically enter the firmware upgrade interface, please wait for the firmware download to complete, press the 'upgrade' button and wait for about 5 minutes.
- e. During the upgrade process, 'upgrading' will be displayed on the gimbal screen, and 'upgrade success' will be displayed on the screen after the upgrade is completed, and then air 2 can be restarted.

## Specifications

Air 2	
Payload Range	0.3kg~4.2kg
Dimension	230*240*470 mm
Tilt Camera Tray Dimension	110 mm
Roll Camera Tray Dimension	100 mm
Pan Mechanical Endpoint Range	360°
Roll Mechanical Endpoint Range	360°
Tilt Mechanical Endpoint Range	+180°~-95°
Battery Type	INR18650D250
Battery Capacity	2500 mAh
Working Voltage	15.2V
Static Current	150mA
Communication	BLUETOOTH 4.0 BLE
	2.4G
	USB
Camera Control Port	Mini USB 5V 1A
Dummy Battery Port	DC2.0mm 7.8V 1A
Accessory Power Supply Port	DC5.5mm 12V 2A
External Power Supply Port	DC5.5mm 14.8V 3A
Temperature	0~-50 C