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GUDSEN
INVENTED FOR VIDEO
Gudsen Technology Co., Ltd
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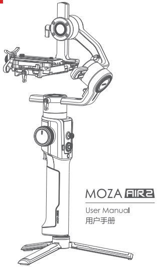
封4



MOZA AIR2

User Manual
用户手册

封1

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产品保修卡

用户资料

产品型号	MOZA Air 2
购买日期	
姓　　名	
电　　话	
地　　址	

经销商信息（签章）

产品保修条例

保修期

自购机日起，云台主体保修12个月；云台电机、电池保修3个月。设备外壳、说明书、USB线材、包装等不在"一年免费保修服务"范围内，您可以选择有偿服务。

七日内免费退货

自购机日起7日内，根据国家最新三包规定，您可以选择退货（按票面金额一次性退清货款）、换货（更换同型号同规格的产品）或修理。

八至十五日免费换货或修理

自购机日起第8日至第15日内，主机出现性能故障，并经特约维修中心检测，确认非人为损坏的本身质量问题，您可以选择换货(更换同型号、同规格产品)或修理；但是更换的范围，只限于产品主机，其他配件无质量问题，不能更换；购买者在以下条件下不享受免费保修服务，您可以选择有偿服务。

1. 超过三包有效期的 ；
2. 无三包凭证及有效发货票的，但能够证明该产品在三包有效期内的除外 ；
3. 包修凭证上的型号与修理产品型号不符或者涂改的 ；
4. 非本公司特约维修人员拆动造成损坏的 ；
5. 因不可抗拒力造成损坏的 ；
6. 未按产品使用说明书要求使用、维护、保养而造成损坏的。

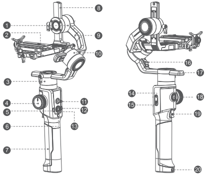
封3

封2

尺寸：100*142（做负公差-1）

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

MOZA AIR 2 Overview

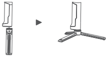


① Tilt Motor
② Mechanical Memory Quick Release System
③ Pan Motor
④ Wheel
⑤ M Button
⑥ Power Button
⑦ Battery Hatch
⑧ Tilt Arm
⑨ Roll Arm
⑩ Roll Motor
⑪ Joystick
⑫ Fn Button
⑬ Dial
⑭ DC Input Port
⑮ Tune/Firmware Upgrade Port
⑯ Roll Motor Lock
⑰ Pan Arm
⑱ 3/8 Extension Port
⑲ Smart Trigger
⑳ Battery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

AIR 2 Installation

Attaching the Tripod

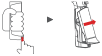
2 screw holes are equipped at the bottom of grip: 1/4" for mini tripod and 3/8" for large accessories like slider and big tripod. Screw the mini tripod, then expand as shown below.



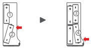
Installing Batteries

⚠ 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.



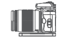
b. Insert the batteries one by one as shown.



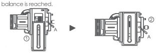
c. Cover the battery hatch.

Mounting the Camera

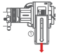
The Air 2 quick release plate is equipped with 2 screws, select an appropriate one according to the camera type. There is no limit to the instaling direction of the quick release plate. When mounting the camera, make sure the lens slightly extends beyond the quick release plate in order to reserve extra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



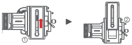
- After mounting the camera onto the quick release plate, loosen the lever A, then slide the quick release plate onto the baseplate.The quick release plate can be installed from both back and forth.
- Please make sure the safety lock 1 and 2 will eject once each, and a rough back and forth balance is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

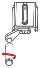
a. M3C-Mini cable: For cameras with Mini port like Canon 5D3, etc
b. M3C-Micro cable: For cameras with Micro port like Canon 5D4, etc
c. MCSC-Remote cable: For Panasonic cameras with 2.5mm port like GH3, GH4, etc
d. MCSC-Multi cable: For Sony cameras with Multi port like A7sⅡ, A7Ⅲ, etc
e. MCSC-Multi/C cable: For Sony cameras with Multi port and USB power supply like A7sⅡ, A7Ⅲ, 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.

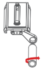
⚠ Note:
1. For details of different cameras and lenses, please refer to the page 9.
2. If USB control is not supported, please choose your camera type manually.

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 adapter 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 adapter and the stud of the support rod, then tighten the support rod clockwise.

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

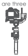
L1	L2	L3	L4	L5	Note
Gimbal Set>	Operations>	Joystick> (Set functions of the joystick	Function>	Left-Right ()	Set the left and right functions
				Up-Down ()	Set the up and down functions
			Sensitivity>	Left-Right ()	Set the left and right sensitivity
				Up-Down ()	Set the up and down sensitivity
			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
			Sens[]	——	Set the sensitivity of the smartwheel
			Habits()	——	+: forward ; -: reverse
		Trigger>	Hold> [Press and hold the smart trigger)	None	non-fucntional 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-fucntional button
				Re-center	Re-cent
				selfie	Take the selfie
				Shutter	Take photos
				Focus	——
			Twice> (Double Press the Smart Trigger)	None	non-fucntional button
				Re-center	Re-cent
				selfie	Take the selfie
			Triple >	None	non-fucntional 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>	Focus 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
	AHRS 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
Language	English	——			——
	Chinese	——			——
About>	——	——			Firmware Version

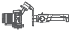
Tips

Operation Modes

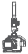
There are three operation modes for the MOZA Air 2



Vertical mode



Flashlight mode



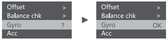
Underslung mode

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

Calibration and Firmware Upgrade

Gyroscope Calibration

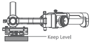
a. Make sure the motors are turned off before calibration. Long press the menu button, or enter the menu and select motor > turn off to turn off the gimbal.
b. Place the Air 2 on a stable desktop and keep it stationary.
c. Enter the menu, select calibrate > Gyro cali, and press the right dial to calibrate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



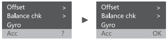
⚠ Note: Gyroscope calibration is only required if the gimbal drifts (if the gimbal moves by itself without input from the joystick) 2. If the 'ERR' prompt appears after calibration, the calibration fails, please try again.

Accelerometer Calibration

a. 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.
b. Place the gimbal horizontally and keep it stationary



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



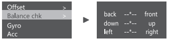
⚠ Note: Accelerometer calibration is only required if the camera is not kept level. In case of emergency shooting, the camera can be adjusted to a horizontal state by balance fine-tuning. Please refer to page18 for details. If the'ERR' prompt appears after calibration, the calibration fails, please try again.

Balance Check

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

a. Attach a tripod to Air 2 and place it on a horizontal tabletop.
b. 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 page6.
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 page7.
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 page7.

⚠ Note:
1.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
2.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.

Mounting the Riser Plates

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

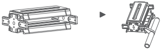
a. The camera is too short to balance the tilt axis

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.

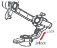
Balance Adjustment

⚠ 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)



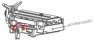
Balancing the Camera

a. Mount the camera onto the Air 2, release hands to check if the camera is top or bottom heavy.

b. If the camera is bottom heavy, loosen the knob to slide the quick release baseplate forwards until the lens points forward.

c. If the camera is top heavy, loosen the knob to slide the quick release baseplate backwards until the lens points forward.

d. Tighten the knob.

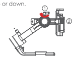


Balancing the Tilt Axis

a. Rotate the camera so that the lens is pointing upward, release hands to check the direction in which the camera swings.

b. 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.

c. Tighten the knob 1.



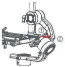
Balancing the Roll Axis

a. Move the roll motor lock switch to the unlock end.

b. Release hands to observe the direction in which the roll axis swings.

c. Loosen the roll axis knob 1 to slide the roll arm 2 until the roll arm 2 stays still.

d. Tighten the knob 1.

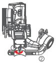


Balancing the Pan Axis

a. Grab the Air 2 horizontally, make the pan arm level. Release hands to check the direction in which the camera swings.

b. Loosen the knob 1 on the pan motor. Move the pan arm 2 leftwards or rightwards until it keeps level.

c. 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.

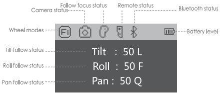
Buttons and OLED Display

Button Functions:

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

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
	3x	——	——	——	——	Language	——
	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:



Tilt : 50 L

Roll : 50 F

Pan : 50 Q

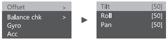
Follow statue note:

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.

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 kept level.



Offset >

Balance chk >

Gyro

Acc

▶

Tilt [50]

Roll [50]

Pan [50]

⚠ Note：

1.The offset can only adjust the angle of each axis within the range of about ±5°. 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 another 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 another 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 Votage	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℃

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:

⚠ Note: The camera types and functions supported by the Air 2 will be continuously updated. Please visit www.gudsen.com or contact the tech support for the latest list.(If the camera has a Type-C USB port, user needs to buy an additional Micro to Type-C adapter.)

MOZA Air 2 Camera Compatibility List

Air 2 Firmware Version : V.4.13

Brand	Model	Cable	AV	TV	LV	ISO	Focus	Shutter	Record	Power Supply
Canon	1DX	M3C-Mini	OK	OK	OK	OK	OK	OK	OK	
	5D2	M3C-Mini	OK	OK	OK	OK	OK	OK	OK	
	5D3	M3C-Mini	OK	OK	OK	OK	OK	OK	OK	
	5D4	M3C-Micro	OK	OK	OK	OK	OK	OK	OK	
	6D2	M3C-Mini	OK	OK	OK	OK	OK	OK	OK	
	77D	M3C-Mini	OK	OK	OK	OK	OK	OK	OK	
Sony	RX10 Ⅱ	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	RX10 Ⅲ	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	

MOZA Air 2 Camera Compatibility List

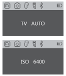
Air 2 Firmware Version : V.4.13

Brand	Model	Cable	AV	TV	LV	ISO	Focus	Shutter	Record	Power Supply
Sony	RX100M4	M3C-Micro	OK	OK		OK	NOK	NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	A5100	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	A6300	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi				NOK		OK	OK	
	A6500	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	A7S	M3C-Micro	OK	OK		OK		NOK	OK	
		MCSC-Multi	NOK			NOK		OK	OK	
	A7S Ⅱ	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	A7R	M3C-Micro	OK	OK		OK		NOK	OK	
		MCSC-Multi	NOK			NOK		OK	OK	
	A7R Ⅱ	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	A7 Ⅱ	M3C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
	A7 Ⅲ	M10C-Micro	OK	OK		OK		NOK	OK	OK
		MCSC-Multi/C	NOK			NOK		OK	OK	OK
		MCSC-Multi	NOK			NOK		OK	OK	
Nikon	D800	M3C-Micro	OK	OK	OK	OK	OK	OK	OK	
	D850	M3C-Micro	OK	OK	OK	OK	OK	OK	OK	
	Z6	M3C-Micro+Micro to Type-C adapter	OK	OK	OK	OK	OK	OK	OK	
	Z7	M3C-Micro+Micro to Type-C adapter	OK	OK	OK	OK	OK	OK	OK	
Panasonic	GH3	MCSC-Remote	NOK					OK	OK	
	GH4	MCSC-Remote						OK	OK	
	GH5	MCSC-Remote						OK	OK	

Notes :

- 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 12 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, 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 folow
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 16
- 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 powe 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.