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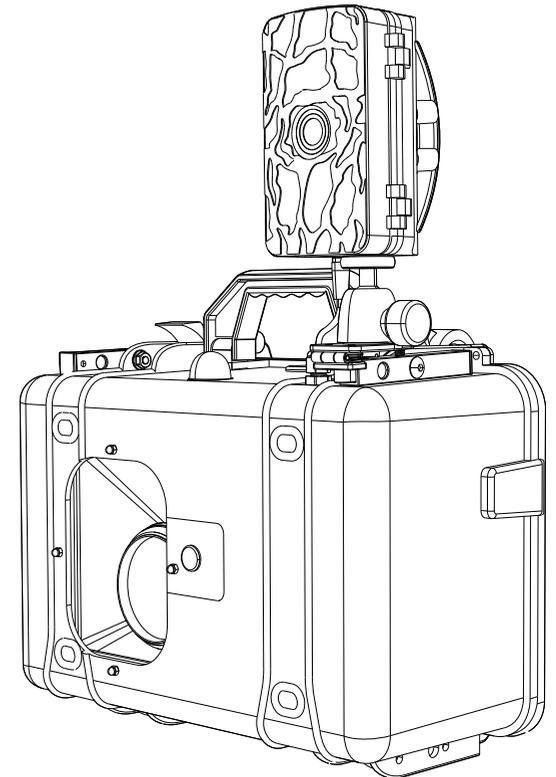


## Smart Camera Box Sony Version

Dedicated section for Sony cameras.



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## Chapter 1 The Setting of Sony digital camera

### 1. Sony camera compatibility

A1, A7SIII, A7RIV, A7RIII, A9, A9II, A7MIV, A7MIII, FX30

### 2. Instructions and illustrations diagram of Sony model data cable

Model	Shutter release cable
A1, A7S III, A7R IV A9, A9 II, A7M IV, FX30	S2  3.5mm

### 3. Battery converter list of Sony main model

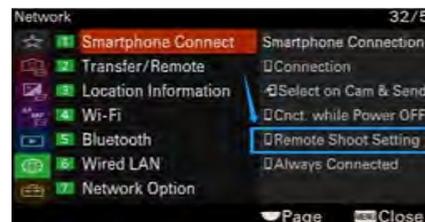
Camera model	Battery converter model
A1, A7S III, A7R IV A9, A9 II, A7M IV, A7M III, FX30	U/BC-Z100

Using the digital camera's own battery may not ensure long-term power supply. Using the Smart camera box power supply can meet the endurance requirements. The camera battery converter standard with one.

Note: When installing the battery converter on a Sony camera, you need to remove the digital camera battery compartment cover, and please keep it safe.

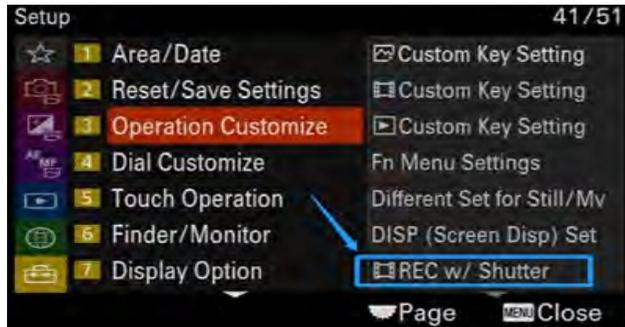
### 4. Setting the purpose of saving static images.

Here take the A1 as an example.



## 5. Button setting of camera video recording

To switch from the video button mode to the shutter button mode for video recording. Here we take the A1 as an example.



## 6. Power saving settings and wake-up time after standby of digital camera

(1) The camera can be set to either turn off the auto-hibernate mode or not.

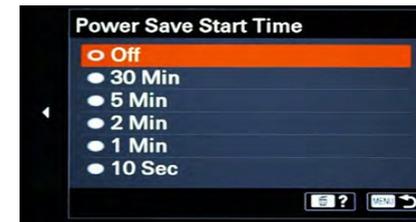
- a. The above two settings have a significant impact on the camera's power consumption, which directly affects the outdoor usage time of the Smart camera box.
- b. The above two settings have different response times for the Smart camera box to control the digital camera to start shooting after being triggered by the trail camera. When the camera is in hibernate mode, it takes some time for the Smart camera box to wake up the camera and enter shooting mode.

Camera status	Wake-up time for mirrorless cameras	
	Shooting mode	Recording mode
Hibernate status	2s	2s
Dis-hibernate status	0	0

The user can decide whether to turn off or keep the hibernate mode function of the camera according to the shooting situation.

(2) Setting method for mirrorless camera ,takes A1 as an example

- a. In the menu, set "Auto power off" to "Off" so that the camera will not enter hibernate mode. Choosing other times will cause the camera to enter hibernate mode.



Among the Sony adapter models, only the A1 camera has the function to turn off the hibernate mode. Other models cannot be set to turn off this mode.

- b. Turning off the display and viewfinder will reduce power consumption of the camera. After finishing the adjustment of the digital camera settings, please close the LCD screen to turn off the display.

## 7. Standby time and continuous shooting time of digital camera

The duration of outdoor shooting with the Smart camera box directly affects the user's ability to capture the desired targets. The power consumption differs greatly between setting the digital camera to auto-hibernate or off-hibernate, as well as setting the LCD display to auto-off or not (always display the shooting screen).

The following table shows the calculation of camera standby time and continuous shooting time based on power consumption.

Camera Status		Camera Model	Mirrorless camera A1		
		Battery Model	UB-01	UB-04	
			372Wh	82.88Wh	93Wh
		Time Unit	Hour(s)		
Hibernate Status	Camera body automatically hibernate	791	180	202	
Video Mode	Countinuous recording (HD)	56	13	15	

Notes:

- (1) The standby time of the digital camera is consistent with the usage time of the Smart camera box.
- (2) Taking a representative model as example, tested under indoor conditions and at a room temperature of 25 C, the data may vary depending on different usage environments and conditions.
- (3) The power consumption of different camera models varies slightly. Generally, higher-end models tend to consume more power.
- (4) There is a light sensing system, the standby days are calculated as 12 hours a day.

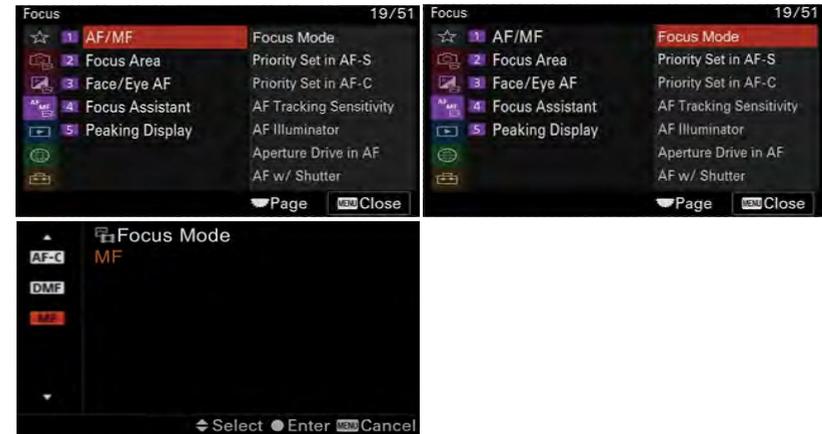
## 8. Focus setting of digital camera lens

The digital camera lens set to AF auto focus mode and MF manual focus mode, there may be slight differences in response speed.

Camera Type	Model	Autofocus Setting for Lens	
		AF	MF
Mirrorless Camera	A1 / A7S III / A7R IV / A7R III / A9 II / A9A7M IV / A7M III / FX30	Available	Available

Notes: Most camera lenses have an AF/MF switch lever. Many newly released lenses do not have an AF and MF switch lever, and the lens focusing mode can be set in the camera body menu.

The setting method takes A1 as an example



## 9. Memory card requirements

1. In shooting mode, the number of continuous shots will be affected during continuous shooting of the writing speed of the memory card is relatively low. You can continue to shoot until the camera has written all the pre-stored shots to the memory card.
2. In video recording mode, It will affect that the camera cannot shoot video normally according to the shooting function if the writing speed of the memory card is relatively low. A memory card with an appropriate writing speed is required.
3. Cameras that released too early are recommended to be used only for taking photos, not for videos. You must use a memory card with a fast writing speed for video recording.
4. The video cannot be taken due to the memory card, which results in that when the trail camera senses animals, the Smart camera box cannot command the camera to start video recording.

- (1). For cameras with high pixels, the memory card cannot meet the shooting requirements when the video file has high pixels.
- (2). When the SD card inserted into slot 2, most of cameras have specific file format and bitrate (Mbps) requirements. If the bitrate (Mbps) exceeds the specified requirements, it may result in the inability to capture video. For detailed information, please refer to the user manual of the camera model you are using.

## Chapter 2. Shooting function settings for the standard version of the Smart camera box

1. The Smart camera box is with a fixed shooting function.

The shooting logic was fixed to the control system of the Smart camera box and cannot be adjusted. A dial switch for changing the shooting mode, the switch can be set to single shooting, continuous shooting, or video recording, and execute the corresponding shooting logic.

(1). At single shooting, the digital camera shooting mode must be set to single shot. Number of continuous single shots: 5

Continuous shooting interval time: 1 s

(2). At continuous shooting, the camera shooting mode must be set to continuous shooting, and the type of continuous shooting is not limited.

Every continuous shooting time: 2 s

Continuous shooting interval time: 1 s

Continuous shooting times: 3 time(s)

(3). At video recording, the camera shooting mode must be set to video recording.

Every recording time: 28 s

Interval time between sessions: 1 s

Recording times: 1 time(s)

The dial switch is set to the video shooting mode initially.

With an external shooting logic setting box [Pai Pai Bao], the shooting logic can be set or modified when using the Smart camera box. Please refer to Chapter 3 for details.

2. Requirements for turning off the hibernate setting of the camera when using the Smart camera box.

The use of the smart camera box without the [Paipai Bao], have the following requirements:

(1) Setting the digital camera lens to AF/MF focusing mode, as outlined in Chapter 1, Article 8.

(2) The digital camera's power-saving settings should be used as required to ensure effective shooting.

See the table below for details

Camera Power Saving Settings and Lens Focusing Settings					Mirrorless Camera Models
The camera will not enter hibernate mode when the auto-hibernate mode is turned off.	Shooting mode	Single shooting	AF mode	Compatible models	All compatible camera models
			MF mode	Compatible models	
		Continuous shooting	AF mode	Compatible models	
			MF mode	Compatible models	
	Recording mode		AF mode	Compatible models	
			MF mode	Compatible models	
The camera will automatically enter hibernate mode and power off when set to auto-hibernate mode	Shooting mode	Single shooting	AF mode	Compatible models	All compatible camera models**
			MF mode	Compatible models	
		Continuous shooting	AF mode	Compatible models	
			MF mode	Compatible models	
	Recording mode		AF mode	Compatible models	
			MF mode	Compatible models	

Notes: \*\* When Sony cameras enter hibernate mode, the number of single shooting is reduced by 1-2 shots, the actual shots are 3-4. In continuous shooting mode, the number of shots for the first continuous shooting will be reduced.

This table also includes the AF/MF focus mode settings, so user can have a clear understanding of the usage requirements.

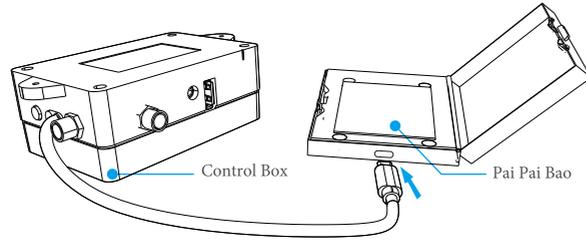
## Chapter 3 Shooting function Settings of the Smart camera box

New shooting functions can be set and modified with the Smart camera box connected to the [Pai Pai Bao].

- (1) The digital camera's power-saving setting can be set to either off- hibernate mode or hibernate mode to significantly extend standby time.
- (2) The digital camera's power on/off time can be set by adjusting the new shooting function when connected to the [Pai Pai Bao].

### 1.The connection method of the[Pai Pai Bao]

It would work that insert the connection cable into the data interface of [Pai Pai Bao].



### 2. How to use Pai Pai Bao

- (1) Connect the [Pai Pai Bao] and regardless of whether it's in single shot, continuous shooting, or video mode, it will display a fixed shooting function every time.
- (2) After modifying the shooting logic of [Pai Pai Bao] to OK, if there is plugging with the Smart camera box, it will display that the modified shooting logic has been completed. If there is unplugging, it will display the fixed shooting logic. However, it will still execute the modified shooting logic. keeping the connection will increase power consumption.
- (3) It's only valid for the current session after modifying the shooting logic of [Pai Pai Bao] to OK. If the Smart camera box is rebooted and connected again, it will display the fixed shooting logic and execute accordingly. However, if there is no reboot, it will execute based on the modified shooting logic.

### 3. Pai Pai Bao Interface Introduction

Page 1: Cover - Smart camera box Sony version



Page 2:



Enter the "Pai Pai Bao" page, first select the type of camera: DSLR or mirrorless camera. Depending on whether the digital camera can go into hibernate mode or if the LCD screen turns off, the functions of shooting will differ for DSLR and mirrorless cameras. Once selected, the Smart camera box will provide corresponding shooting instructions to meet the digital camera's different settings. Failure to follow these instructions may result in disorderly shots or failed shooting attempts.

Page 3:



The option "Enable Camera Hibernate" refers to the camera being set to hibernate. When the shooting ends after a certain amount of time, the camera's power-saving function will put the camera into hibernation mode. The option "Disable Camera Hibernation" refers to the camera turned off the power-saving function, and the camera will not enter hibernate mode.



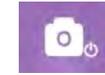
Set your digital camera to single shooting mode and click to enter the shooting function settings page for single shooting mode.



Set your digital camera to continuous shooting mode and click to enter the shooting logic settings page for continuous shooting mode.

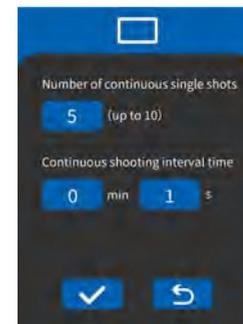


Set your digital camera to recording mode and click to enter the shooting function settings page for recording mode.

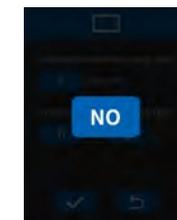


Click to enter the digital camera shutdown and startup time settings page.

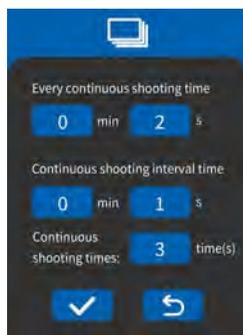
Page 4: Shooting function settings for single shooting mode. Click on the blue box to pop up the number selection options.



After confirming the settings, if the settings are successful, the OK page will pop up. If the settings are not successful, the NO page will pop up. The same process applies for subsequent pages.



Page 5: Click on the blue box to enter the number selection options for shooting logic settings for continuous shooting mode.



Page 6: Click on the blue box to enter the number selection options for shooting function settings for recording mode.



Page 7: Digital camera shutdown options



Note of Page 7

(1). Digital camera [Power Off] is different from [Hibernate].

Turning off the digital camera means that the Smart camera box stops supplying power to the digital camera, and the digital camera stops working completely.

Hibernate of the digital camera means that the power saving function of the digital camera itself makes the digital camera enter the hibernate mode, while the Smart camera box continues to supply power to the digital camera.

(2).Option " Auto shutdown "

When this option is selected, the Smart camera box will automatically stop supplying power

to the digital camera and put it into a shutdown state when day and night change, the light sensor detects that ambient light intensity is insufficient for the digital camera to take pictures. The Smart camera box is in the lowest power consumption state in this mode. When the light intensity reaches the required level for photography, the Smart camera box automatically supplies power to the digital camera, and the digital camera enters the power-on state.

(3). Option "Never shutdown"

When this option is selected, the Smart camera box will continuously supply power to the digital camera, even if the light sensor detects that the ambient light intensity changes, the Smart camera box will not issue an instruction to stop powering the digital camera, and the digital camera will be in continuous working mode.

This option is generally used when the user has connected a flash or lighting equipment, and needs to take pictures at night.

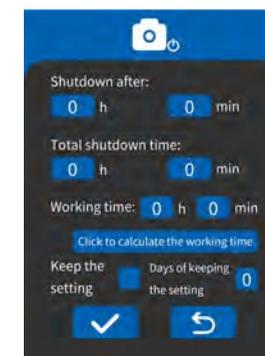
(4). Option " Shutdown time setting "

If the user does not want to use the ambient light sensor to automatically turn off the digital camera based on the brightness of the surroundings, thinks that the shooting conditions require a customized power-off or power-on time, they can select this option, and enter the page 7 to manually set the power off time and duration.

Page 8: Click to set the digital camera shutdown time and enter this page.

User can set how long will the digital camera take to shut down and the duration for which it will remain off. As there is no clock on the camera, it is not possible to set the power off time based on local time (such as Beijing time or London time). Instead, the power off time is set based on the working duration.

Click on the blue box to pop up the number selection options. After confirming the settings, if the settings are successful, the OK page will pop up. If the settings are not successful, the NO page will pop up.



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