



Remote Controller ZC-4
User Manual

Thank you for purchasing an AODELAN product.

AODELAN ZC-4 contains a Remote Controller and a Receiver. It was especially developed to wirelessly operate compatible Sony camcorders from a distance. By simply connecting the Receiver to the REMOTE or LANC terminal (2.5mm) on the camcorder and turning on the Remote Controller, you can easily operate many of the camcorder's functions wirelessly. Wired control of these functions is also achieved by connecting the Remote Controller directly to the camcorder with the supplied remote cable. Wired control and wireless remote control can be performed simultaneously to enable simultaneous operation of multiple camcorders.

Please read this user manual as well as the user manual provided with your camcorder which works with ZC-4 before use.

For your safety

- Before using your product, please read the following safety precaution carefully to ensure correct and safe use.
- Do not disassemble or attempt to repair it.
- Do not use the product in the presence of flammable or explosive gas.
- The product is not dustproof, splash proof, nor waterproof. Make sure that no water, liquid, or dust can enter the product.
- Do not expose the product to hasty temperature changes in humid conditions as this could lead to condensation water in the unit.
- Do not expose the product to high temperature over 45°C (e.g. left in a car trunk).
- Do not use organic solvents such as alcohol, benzine or paint thinner to clean the product.
- Do not connect the product to camcorders or other devices that are not compatible.

Declaration of Conformity USA and Canada

Product name: Remote Controller Trade name: AODELAN Model number: ZC-4 RX FCC ID: M2V-ZC4 IC: 25192-ZC4 Manufacturer: Shenzhen Aodelan Technology Co., Ltd.	Product name: Receiver Trade name: AODELAN Model number: ZC-4 RX FCC ID: M2V-ZC4 IC: 25192-ZC4 Manufacturer: Shenzhen Aodelan Technology Co., Ltd.
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FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information
The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure condition without restriction.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

IC Warning
This device complies with RSS Gen of the Canada Rules. Operation is subject to the following two conditions:

1) this device may not cause interference and
2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Avertissement IC
Cet appareil est conforme aux règles RSS G3 du Canada. Le fonctionnement est soumis aux deux suivants conditions:

1) cet appareil ne doit pas causer d'interférences et
2) cet appareil doit accepter toutes les interférences, y compris celles pouvant causer des effets indésirables de fonctionnement de l'appareil.

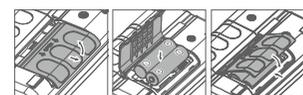
Exposure aux radiations: Cet équipement est conforme à la réglementation canadienne sur les radiations. L'émission d'exposition établies pour un environnement non contrôlé.

RED 2014/53/EU Declaration of Conformity EC
Heraby, Shenzhen Aodelan Technology Co., Ltd. declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. This product can be used across EU member states. A copy of the Declaration of conformity can be found at www.aodelan.net.

Getting Started

Installing Batteries to the Remote Controller

- Open the battery compartment cover.
- Install two AA 1.5V batteries (available separately) as shown.
- Close the cover.



Connecting to a camcorder (Supports both wired and wireless connections)

- Wired connection** – by connecting the Remote Controller to the camcorder with the supplied remote cable.
 - Place the remote controller in a safe location, and check that the camcorder is turned off.
 - Connect the jack of the remote cable to one of the camera connectors (CAMERA1 to CAMERA3) on the top of the camcorder.
 - Insert the plug of the remote cable into the camcorder's REMOTE or LANC terminal.



Wireless connection

- Pass the jack of the remote cable through the cable guard bar when connecting it.
- Insert the jack of the connection cable in all the way.
- Fix and group the cable to the cable guard bar by using the cable clamp or the tie, if necessary.
- Refer to the user manual of the camcorder for the location of the REMOTE or LANC terminal on the camcorder.



Turning on the camcorder and slide the ON/OFF switch on the Remote Controller to "ON" position.

- When the status LED on the top of the Remote Controller lights up in green, you can operate the camcorder through the Remote Controller.



The above indicates that CAMERA1 connector of the Remote Controller has established a wired connection with a camcorder. If CAMERA2 (and/or CAMERA3) connector(s) is also connected to a camcorder, the number icon (2, 3 and/or 3) will be displayed on the screen at the same time. When the status LED 2 (and/or 3) on the top of the Remote Controller lights up in green, you can operate the second (and/or the third) camcorder simultaneously through the Remote Controller.

Wireless connection – by connecting the Receiver to the camcorder.

- Be sure the camcorder is turned off; insert the plug of Receiver into the camcorder's REMOTE or LANC terminal.
- Place the Remote controller in a safe location. Turn on the camcorder and slide the ON/OFF switch on the Remote Controller to "ON" position.



When a wireless icon is displayed on the Remote Controller's screen, it indicates that a wired connection has been established.

- When the wireless connection status LED on the top of the Remote Controller lights up in green, you can wirelessly control the camcorder through the Remote Controller.

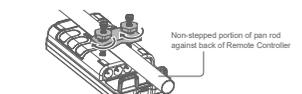


Setting the shooting status of the camcorder

- Depending on the camcorder used, you may need to active the remote controller using the camcorder's menu.

- Canceling automatic adjustment of the camcorder's shooting status.
 - The switches used to turn off automatic adjustment of the shooting status on the camcorder vary depending on the camcorder (for example, FULL AUTO switch, AUTOMANUAL switch).
- If the camcorder has a ZOOM switch, set it to SERVO or REMOTE mode.
 - If using an interchangeable lens type camcorder with the supplied lens, set the focus ring to electronic control. If using a lens other than the supplied lens, focusing may not be supported from this unit.
 - If the camcorder is an interchangeable lens type, set the IRIS switch on the lens to auto adjustment (AUTO).

Attaching to a pan rod
You can attach the Remote Controller to the pan rod of a tripod, or similar object, using the supplied attachment plate.
When attaching the Remote Controller to a pan rod, place a non-stepped portion of the pan rod against the back of the Remote Controller.

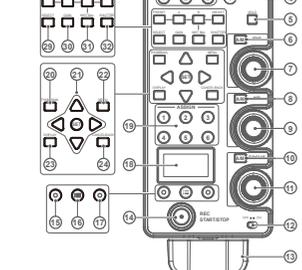


- If using commercially available screws in the screw holes on the back of the unit, use M5 screws.
- Do not tighten the attachment plate screws more than required. Doing so may cause damage.

Location of Parts and Basic Operations

Remote Controller
This Remote Controller cannot perform two or more remote control actions simultaneously. Always perform one action at a time.

Control Panel
Press to start recording.
Pressing the center of the adjustment knob temporarily activates auto focus adjustment (PUSH AUTO FOCUS). Auto focus adjustment stops when you remove your finger from the adjustment knob during PUSH AUTO FOCUS [Note].
The focus adjustment level obtained by the rotation and speed of the knob will vary depending on the menu setting of the Remote Controller as well as camcorder lens type.



1. Wired connection status LEDs

Display the wired connection status of the Remote Controller.

Display	Description
Light up in green	Connected to a camcorder, which is selected as a target for remote control.
Blinking green	Camcorder is in automatic adjustment mode.
Light up in red	Camcorder is recording.
Blinking red	The remaining battery capacity or remaining recording time of the camcorder is getting low.
Light off	Camcorder is turned off or disconnected, or is not selected

2. Camera selector keys (wired connection)

Press to select the camcorder connected to the CAMERA1 to CAMERA3 connectors as the targets for remote control. You can select more than one camcorder.

- When the Remote Controller is connected to an MCX-500 Multi Camera Live Producer for remote control of camcorders from the MCX-500, camcorders that are not selected as the remote control target (corresponding status LED is not lit) are also remote controlled.

3. Wireless connection status LED

Display the wireless connection status of the Remote Controller. (The status display and description are the same as that of Part 1.)

4. Wireless connection selector key

Press to select the camcorder connected to the Receiver as the target for remote control. You can select a simultaneously with the wired connected cameras.

HOLD key

Press to toggle HOLD state on/off.
Backlight of HOLD key lights up: HOLD state is on. Now, all operations on the Remote Controller except the ON/OFF switch are locked and the camcorder is no longer controlled by the Remote Controller.
[Note]
If is displayed on the Remote Controller's screen. The HOLD key backlight will blink when any function is operated on the Remote Controller.
No backlight for HOLD key: HOLD state is off.

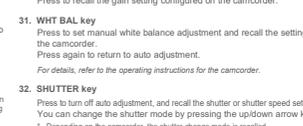
- 6. IRIS AM key**
Press to toggle auto iris adjustment on/off.
- 7. IRIS adjustment knob**
Turn to adjust the iris.
Pressing the center of the adjustment knob temporarily activates auto iris adjustment (PUSH AUTO IRIS). Auto iris adjustment stops when you remove your finger from the adjustment knob during PUSH AUTO IRIS. [Note]
The iris adjustment level obtained by the rotation and speed of the knob will vary depending on the menu setting of the Remote Controller as well as camcorder being used.
- 8. ND AM key**
If the connected camcorder has an electronically switchable ND filter auto adjustment function, press this key to toggle auto adjustment on/off.
- 9. ND adjustment knob**
Turn to adjust the ND filter density.
[Note]
The ND filter of the camcorder must be set to an adjustable state (set to a position other than CLEAR or set to VARIABLE mode). For details, refer to the operating instructions for the camcorder.
When [ND MODE] is set to [DIA] in the menu of Remote Controller, you can adjust the function assigned to the assignable dial of the video camera, instead of the ND filter.
Camcorders that do not have an assignable dial or electronically switchable ND filter function cannot be controlled using this function.

- 10. FOCUS AM key**
Press to toggle auto focus adjustment on/off.
- 11. FOCUS adjustment knob**
Turn to adjust the focus.
Pressing the center of the adjustment knob temporarily activates auto focus adjustment (PUSH AUTO FOCUS). Auto focus adjustment stops when you remove your finger from the adjustment knob during PUSH AUTO FOCUS [Note].
The focus adjustment level obtained by the rotation and speed of the knob will vary depending on the menu setting of the Remote Controller as well as camcorder lens type.
- 12. ON/OFF switch**
Slide the switch to turn on/off the Remote Controller.
- 13. ZOOM lever**
Turn left/right to adjust the zoom.
If the camcorder has a ZOOM switch, set it to SERVO or REMOTE mode. When the Remote Controller enters the setup menu, you can select the previous/new item by turning the ZOOM lever left/right.
- 14. REC START/STOP key**
Press to start recording.
To stop recording, press the REC START/STOP key again. During recording, corresponding status LED lights up in red, the number icon or wireless icon on the Remote Controller's screen turns into [] or [].

- 15. 1/2, 1/4, 1/8**
(See Chapter "Remote Controller's Screen and Menu Settings" for details.)
- 16. ASSIGN key**
Press to recall the function assigned to the ASSIGN button of the camcorders. For details, refer to the operating instructions for the camcorder.
- 17. THUMBENAIL key**
Press to display the thumbnail screen. Press again to dismiss the thumbnail screen.
- 18. SET & Arrow keys**
Use the arrow keys to move the cursor up/down/bright on the menu screen of the camcorder or to change a value on an edit setting screen. Press the SET key to apply the selected item or to execute a function. * Left/right operation may not be applicable, depending on the camcorder being used. For details, refer to the operating instructions for the camcorder.

- 19. MENU key**
Press to display the menu on the camcorder screen. Press again to dismiss the menu screen.
- 20. DISPLAY key**
Press to toggle between the on-screen display (OSD) screens.
- 21. CANCEL/BACK key**
Cancels a setting before it is applied, or moves one level up in the menu hierarchy.
- 22. PRESET key**
Press to recall PRESET.
For details about changing/switching settings, refer to the operating instructions for the camcorder.
- 23. A key**
Press to recall the setting stored in WB SET A (memory A).
- 24. B key**
Press to recall the setting stored in WB SET B (memory B).
- 25. WB SET key**
When a white balance setting is being configured for WB SET A or WB SET B, press the WB SET key to store the WB SET A or WB SET B setting, whichever is selected.
For details, refer to the operating instructions for the camcorder.
- 26. HOLD key**
Press to toggle HOLD state on/off.
Backlight of HOLD key lights up: HOLD state is on. Now, all operations on the Remote Controller except the ON/OFF switch are locked and the camcorder is no longer controlled by the Remote Controller.
[Note]
If is displayed on the Remote Controller's screen. The HOLD key backlight will blink when any function is operated on the Remote Controller.
No backlight for HOLD key: HOLD state is off.

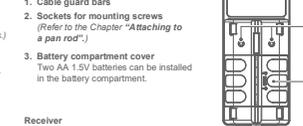
- 27. SELECT key**
You can change the mode of the gain recalled using the GAIN key.
 - Depending on the camcorder, you can change the gain by pressing the up/down arrow keys.
- 28. GAIN key**
Press to recall the gain setting configured on the camcorder.
- 29. WHITE BAL key**
Press to set manual white balance adjustment and recall the setting on the camcorder. Press again to return to auto adjustment. For details, refer to the operating instructions for the camcorder.
- 30. SHUTTER key**
Press to turn off auto adjustment, and recall the shutter or shutter speed settings. You can change the shutter mode by pressing the up/down arrow keys. * Depending on the camcorder, the shutter charge mode is recalled.



- 1. CAMERA1 connector (02.5 stereo mini plug)**
- 2. CAMERA2 connector (02.5 stereo mini plug)**
- 3. CAMERA3 connector (02.5 stereo mini plug)**
- 4. OPTION connector (02.5 stereo mini jack)**
Use to connect the Remote Controller with an MCX-500. The connection cable is supplied with the MCX-500.
- 5. REMOTE connector (02.5 stereo mini jack)**
This connector is used for daisy chain connections. Connect to another Remote Controller to control the connected camcorders using two Remote Controllers.
- 6. USB Type-C connector**
Used for firmware update (when necessary). Go to www.aodelan.net to download the latest firmware update package for ZC-4, update your ZC-4 to the latest firmware according to the provided update file. Can be also used to connect to an external power supply (5V) to power the Remote Controller.



- 1. Cable guard bars**
- 2. Sockets for mounting screws** (Refer to the chapter "Attaching to a pan rod.")
- 3. Battery compartment cover**
Two AA 1.5V batteries can be installed in the battery compartment.

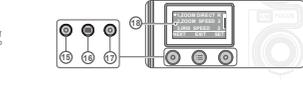


- 1. Plug (02.5 stereo mini plug)**
Connect to the camcorder's REMOTE or LANC terminal. After the camcorder is turned on, the Receiver connected to the camcorder will automatically establish a wireless connection with the paired Remote Controller.
- 2. Status lamp**
When the Receiver is connected to a camcorder that is powered on, the lamp indicates the wireless connection status of the Receiver and Remote Controller. Blinking green indicates that a wireless connection has been established with a Remote Controller. Blinking red indicates that no wireless connection is established with a Remote Controller. Now, you need to operate the Remote Controller to pair with the Receiver.
* When the Remote Controller: Press [] key to enter the menu – Press [] key (NEXT) until [PAIR MODE] is selected – Press [] key (NEXT) [] will appear – Press [] key (SET) again to confirm the pairing operation.
* Then, the Remote Controller will enter the pairing mode and automatically search for and pair with the Receiver. When the Receiver is not connected to a camcorder or the connected camcorder is powered off, the lamp lights off.
- 3. USB Type-C connector**
Used for firmware update (when necessary). Go to www.aodelan.net to download the latest firmware update package for ZC-4, update your ZC-4 to the latest firmware according to the provided update files.



- 1. ZOOM DIRECT** (N/Normal/R/Reverse) zoom rotation direction.
- 2. ZOOM SPEED** 1/2/3 zoom adjustment speed.
- 3. IRIS DIRECT** (N/Normal/R/Reverse) IRIS rotation direction.
- 4. IRIS SPEED** 1/2/3 IRIS manual adjustment speed.
- 5. FOCUS DIRECT** (N/Normal/R/Reverse) focus rotation direction.
- 6. FOCUS SPEED** 1/2/3/4/5 focus manual adjustment speed.
- 7. ND DIRECT** (N/Normal/R/Reverse) ND rotation direction.
- 8. ND MODE** ND/Dial/Assignable dial ND mode.
- 9. SLEEP** 10M/1H/4H/OFF The Remote Controller to go into sleep mode after how long it last sleep.
- 10. PAIR MODE** Y(Yes)
- 11. RESET ALL** Y(Yes)
- 12. VERSION Vx.Xxx**

Remote Controller's Screen and Menu Settings



- 15. Remote Controller menu** [] key (NEXT)
When the Remote Controller enters the setup menu, press this key to select the next item.
- 16. Remote Controller menu** [] key
Press to enter/exist the Remote Controller's setup menu. [Note]
When the Remote Controller enters the setup menu, the camcorder is no longer controlled by the Remote Controller.
If there is no menu setting operation for 10 seconds after entering the setup menu, the Remote Controller will automatically exit the menu.
- 17. Remote Controller menu** [] key (SET)
When the Remote Controller enters the setup menu, press this key to switch and control the settings.
- 18. Screen**
Displays the current status of the Remote Controller.



Display	Description
1	CAMERA1 connector has established a wired connection with a camcorder. If the camcorder is recording a video, is displayed here. If the connection is disconnected, nothing is displayed here.
2	CAMERA2 connector has established a wired connection with a camcorder. If the camcorder is recording a video, is displayed here. If the connection is disconnected, nothing is displayed here.
3	CAMERA3 connector has established a wired connection with a camcorder. If the camcorder is recording a video, is displayed here. If the connection is disconnected, nothing is displayed here.
	A wireless connection has been established on the Remote Controller. If the camcorder is recording a video, is displayed here. If the connection is disconnected, nothing is displayed here.
	Current battery level of the Remote Controller, only displayed when no wired connection is established on the Remote Controller. * If the icon [] or [] is displayed, it indicates the battery level is low (or extremely low), replace the batteries with new ones for the Remote Controller.
	When a wired connection is established on the Remote Controller, the connected camcorder supplies power to the Remote Controller, nothing is displayed here.
	Displayed when operating a function of the camcorder on the Remote Controller. [] is displayed here when HOLD state is on. [] is displayed here when the Remote Controller is in sleep state.
ZC-4	Displayed when the Remote Controller is turned on and no connection has been established.

Enter the setup menu
1. Press [] key to enter the Remote Controller's setup menu.
2. Setup menu operations.
Move the selection arrow [] to the desired menu item by pressing [] key (NEXT) or turning ZOOM lever.
Press [] key (SET) to change the settings.
3. To exit the menu, press [] key (now functions as "EXIT"). If there is no menu operation for 10 seconds, the Remote Control will exit the menu automatically.
[Note]
When the Remote Controller enters the setup menu, the camcorder is no longer controlled by the Remote Controller.



No.	Menu Item	Options	To set
1	ZOOM DIRECT	(N/Normal/R/Reverse)	zoom rotation direction.
2	ZOOM SPEED	1/2/3	zoom adjustment speed.
3	IRIS DIRECT	(N/Normal/R/Reverse)	IRIS rotation direction.
4	IRIS SPEED	1/2/3	IRIS manual adjustment speed.
5	FOCUS DIRECT	(N/Normal/R/Reverse)	focus rotation direction.
6	FOCUS SPEED	1/2/3/4/5	focus manual adjustment speed.
7	ND DIRECT	(N/Normal/R/Reverse)	ND rotation direction.
8	ND MODE	ND/Dial/Assignable dial	ND mode.
9	SLEEP	10M/1H/4H/OFF	The Remote Controller to go into sleep mode after how long it last sleep.
10	PAIR MODE	Y(Yes)	The Remote Controller to pair with the Receiver. When the option "Y" is displayed, press [] key (SET) to confirm the setting. When the Remote Controller will enter pairing mode and automatically search for the Receiver and pair with it. The Remote Controller to restore factory settings. When the option "Y" is displayed, press [] key (SET) to confirm the setting. When all settings on the Remote Controller will be restored to the factory settings. The current firmware version of the Remote Controller.
11	RESET ALL	Y(Yes)	
12	VERSION Vx.Xxx		

Specifications and design are subject to change without notice.
*Sony mentioned in the manual is a protected trademark which does not belong to Shenzhen Aodelan Technology Co., Ltd.

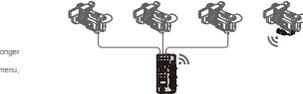
Dimensions (Approx.)	Weight (Approx.)	Usage environment	Connector	Screen	Zoom lever	Power source
208x88x45mm (8.2x3.5x1.8 in.) (Remote Controller body only, excluding attachment plate, remote cable.)	310 g (10.9 oz) (Excluding battery, attachment plate, remote cable.)	Temperature: 0°C to 40°C (32°F to 104°F); Humidity: 80% or lower	02.5 stereo mini plug x3 (CAMERA1, 2, 3 connectors), 02.5 stereo mini jack x1 (REMOTE connector), 03.5 stereo mini jack x1 (OPTION connector), USB Type-C connector x1	OLED screen, 1.3"	Support pressure-sensitive	Two AA 1.5V batteries / Supplied by the camcorder (when a wired connection is established with the camcorder) / Supplied by an external power supply (when the USB Type-C connector is connected to an external power supply)

Dimensions (Approx.)	Weight (Approx.)	Usage environment	Connector	Power source
40x20x10mm (1.6x0.8x0.4 in.) (Receiver body only), Cable length 500mm	8 g (0.3 oz)	Temperature: 0°C to 40°C (32°F to 104°F); Humidity: 80% or lower	02.5 stereo mini 90° plug x1, USB Type-C connector x1	Supplied by the connected camcorder

Receiver (Model: ZC-4 RX)
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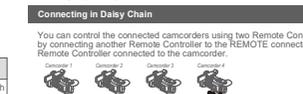
Connecting to Multiple Camcorders

Up to four camcorders can be connected to the Remote Controller simultaneously.



Connect the camcorder to the CAMERA1 to CAMERA3 connector via the remote cable, or connect the camcorder wirelessly via the Receiver, and then select the camcorders to control using the camera selector keys (or wireless connection selector key). You can select and control multiple camcorders simultaneously.
[Note]
Turn off each camcorder before connecting and disconnecting the camcorder.
When controlling multiple camcorders simultaneously, the time taken for the camcorders to respond may not be the same. For example, when the REC START/STOP key is pressed to start recording simultaneously, the actual recording start timing may differ by several frames.

Connecting in Daisy Chain
You can control the connected camcorders using two Remote Controllers by connecting another Remote Controller to the REMOTE controller of the Remote Controller connected to the camcorder.



- Connect the Remote Controller 1 to the camcorder(s) (via wired connection(s) or wireless connection).
- Connect one of the CAMERA1 to CAMERA3 connectors on Remote Controller 2 to the REMOTE connector on Remote Controller 1.

[Note]
This type of connection cannot be used if the camcorder used does not support the daisy chain function. For details about remote control functions supported by each camcorder, contact your Sony dealer.
Only two Remote Controllers can be daisy-chained. Do not connect anything to the REMOTE connector or Remote Controller 2.
Turn off each camcorder before connecting and disconnecting the camcorder.
Do not connect any device other than AODELAN ZC-4 Remote Controller, ZC-4 Remote Controller or Harppass ZC-2 to the REMOTE connector.
If Remote Controllers 1 and 2 are operated simultaneously, the operation on one of them will be ignored.

Frequency	Remote control range (Approx.)
2.4GHz	50 m (164 ft.) (Open space without interferences)

Dimensions (Approx.)	Weight (Approx.)	Usage environment	Connector	Screen	Zoom lever	Power source
208x88x45mm (8.2x3.5x1.8 in.) (Remote Controller body only, excluding attachment plate, remote cable.)	310 g (10.9 oz) (Excluding battery, attachment plate, remote cable.)	Temperature: 0°C to 40°C (32°F to 104°F); Humidity: 80% or lower	02.5 stereo mini plug x3 (CAMERA1, 2, 3 connectors), 02.5 stereo mini jack x1 (REMOTE connector), 03.5 stereo mini jack x			



遥控器
使用说明书

ZC-4

感谢您购买 AODELAN 产品。

AODELAN ZC-4 包含一个遥控器和一个接收器。专为近距离无线操作您的无线摄像头而开发。只需将接收器连接到摄像机的 REMOTE 或 LANC 端子 (3.5mm)，并开启遥控器即可轻松无线操作摄像机的众多功能。使用随附的遥控器将遥控器直接连接到摄像机连接，也可实现这些功能的有线控制。有线控制和无线遥控可以同时使用，以实现对多台摄像机的同时操作。

使用前，请参阅本使用说明书及与 ZC-4 搭配使用的摄像机的附带的使用说明书。

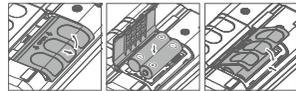
安全须知

- 请在使用前仔细阅读“安全须知”，并以正确的方法使用。
- 请勿试图自行拆卸或进行维修。
- 如果在有可能触电、爆炸的场所使用本产品。
- 本产品含有水，不防水防溅。液体可能会渗入。液体或灰尘进入本产品。
- 不要将产品暴露在温度快速变化的潮湿条件下，因为在这种情况下装置中会形成冷凝水。
- 请勿将产品暴露在超过 45°C 的高温环境下，比如汽车发动机内。
- 请勿使用煤油、汽油或溶剂等易燃品来清洁本产品。
- 请勿将本产品与不兼容的摄像机或其他设备相连。

使用前准备

给遥控器安装电池

1. 打开电池舱盖。
2. 按照所示安装两节 AA 1.5V 电池（请勿短路）。
3. 盖上盖子。

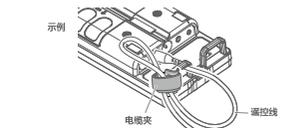


连接摄像机（支持有线、无线两种连接方式）

- **有线连接**：通过随附的遥控器将遥控器连接到摄像机。
- 1. 将遥控器放置在安全位置，检查摄像头是否已关闭。
- 2. 将遥控器的插孔连接到遥控器顶部的任一摄像机接口（CAMERA1 至 CAMERA3）。
- 3. 将遥控器的镜头插入摄像机的 REMOTE 或 LANC 端子。



- **无线连接**：通过随附的插孔将遥控器连接到摄像机。
- 1. 如有必要，使用绝缘胶带或绝缘布将导线封装在电路板上。
- 2. 安装摄像机上的 REMOTE 或 LANC 端子时，请确保焊锡的电阻测试良好。



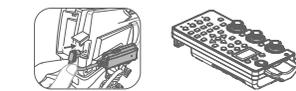
4. 开启摄像机并将遥控器的 ON/OFF 开关调到 ON 位置。

- **[LED]**
- 当遥控器的屏幕上显示一个数字 0 时，表示已建立有线连接。
- 当遥控器的 LED 亮起绿色时，可通过遥控器对摄像机进行操作。



- 以上表示遥控器上的 CAMERA 接口已与一台摄像机建立有线连接。如果 CAMERA1（标为 A/CAMERA1）接口已用摄像机线良好，则屏幕上会显示数字 0 和绿色 LED。当遥控器处于 0（就绪）或 0 就绪时，可调整遥控器的所有功能（除菜单三台）摄像机进行操作。

- **无线连接**：通过有线接收器连接到摄像机。
- 1. 确保摄像机已关机，将接收器上的镜头插入摄像机的 REMOTE 或 LANC 端子。
- 2. 将遥控器放置在安全位置，开启摄像机并将遥控器上的 ON/OFF 开关调到 ON 位置。



- **[LED]**
- 当遥控器的屏幕上显示数字 0 时，表示已建立无线连接。
- 当遥控器的无线接收器 LED 亮起绿色时，可通过遥控器对摄像机进行无线连接。



设置摄像机的拍摄状态

有关详细信息，请参阅摄像机的使用说明书。

- 视使用的摄像机而定，可能需要使用摄像机的菜单激活遥控器。
- 取出摄像机拍摄状态的自动调整。
- **[设置]**
- 从摄像机而进行：用子打开/关闭摄像机上拍摄状态的自动调整的菜单名称有所不同（例如：FULL AUTO/F.，AUTO/MANUAL 开关）。
- 如果摄像机有 ZOOM 开关，将其开关设置为 SERVO 或 REMOTE 模式。
- 如果在可互换镜头的摄像机上使用附带的镜头，将对基本设为电子控制。如果使用除镜头以外的镜头，本机可能不支持该模式。
- 如果摄像机是可互换镜头类型，针对镜头切换开关设置为自动调整 (AUTO)。

连接平移杆

- 可以启用随附的合板将遥控器连接到三脚架的平移杆或类似物体。
- 将遥控器连接到平移杆时，将平移杆的非标准款式部分插入遥控器的背面插槽。



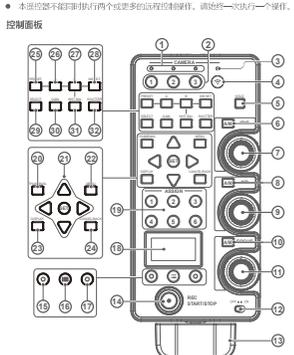
- **[设置]**
- 如需使用非标准附件插入遥控器背面的接口，请确保无松动。
- 请勿使用过大力量来安装合板附件，否则可能会导致损坏。

部件的位置和基本操作

遥控器

- 遥控器不能同时操作两个或更多的远程控制设备。请始终一次只操作一个设备。

控制面板



1. 有线连接状态 LED

- 显示无线遥控器的有线连接状态。

显示	说明
亮起绿色	已连接到指定设备作为操作目标的摄像机。
闪烁绿色	摄像机处于自动调整模式。
亮起红色	摄像机正在记录。
闪烁红色	摄像机的剩余电量或剩余记录时间正在减少。
熄灭	摄像机已关闭或断开，或者未接通中。

2. 摄像头选择键 (有线连接)

- 按下这些键可选择连接到 CAMERA1 至 CAMERA3 接口的摄像机。作为远程控制的目标，可以选择多个摄像机。

- **[设置]**
- 如需更改摄像头选择 LED 的颜色，请参见 MCX-500 用户指南中的摄像头选择。相机板将用作远程目标的摄像机，（对相应的 LED 亮起时）同样会亮起相应颜色。

3. 无线连接状态 LED

- 显示遥控器的无线连接状态。（状态显示及说明同部件 1。）

有关详细信息，请参阅摄像机的使用说明书。

4. 无线连接选择键

- 按此键可选择与接收器连接的摄像机，作为远程控制的目标，可与有线连接的摄像机的目标选择。

5. HOLD 键

- 按此键可以在开启/关闭 HOLD 状态之间切换。HOLD 键背光亮起，HOLD 状态已不再有效。遥控器上的所有操作都被禁用。摄像机也不再受遥控器控制。

- **[设置]**
- 如需调整 LED 显示亮度，可在遥控器上按住 [功能键] 时，HOLD 键背光将亮起/熄灭。

HOLD 键背光亮：已关闭 HOLD 状态。

6. IRIS A/M 键

- 按此键可在打开/关闭自动光圈调整之间切换。

7. IRIS 调整按钮

- 转动此按钮可调整光圈。
- 按下调整按钮的中间位置可暂时激活自动光圈调整 (PUSH AUTO 按钮)，在 PUSH AUTO [IRIS] 期间从调整按钮移开手指可停止自动光圈调整。

- **[设置]**
- 通过控制按钮和速度拨杆的光圈调整控制，会设置遥控器的菜单设置在使用的摄像设备上不同。

8. ND A/M 键

- 如果连接的摄像机具有电子可切换 ND 滤镜自动调整功能，按此键可以在打开/关闭自动调整之间切换。

9. ND 调整按钮

- 转动此按钮可调整 ND 滤镜密度。

- 摄像机的 ND 滤镜必须设置到清晰状态（设置键 CLEAR 以外的位置或设置为 VARIO 位置），请勿非标准镜头。请参阅摄像机的使用说明书。
- 当遥控器处于 [ND MODE] 位置时 [Dial] 位置时，可以调整分配给摄像机的部分数据的功能，而不受摄像机的限制。
- 这些部分包括数据或电子可切换式 ND 滤镜的摄像机则不能同时进行操作控制。

10. FOCUS A/M 键

- 按此键可以在打开/关闭自动对焦调整之前切换。

11. FOCUS 调整按钮

- 转动此按钮可调整对焦。
- 按下调整按钮的中间位置可暂时激活自动对焦调整 (PUSH AUTO FOCUS)。在 PUSH AUTO FOCUS 期间从调整按钮移开手指可停止自动对焦调整。

- **[设置]**
- 通过控制按钮和速度拨杆的对焦调整控制，会设置遥控器的菜单设置在使用的摄像设备上不同。

12. ON/OFF 开关

- 滑动开关将遥控器开机/关机。

13. ZOOM 杆

- 向左/向右转动以调整变焦。

• 如果摄像机有 ZOOM 开关，将其开关设置为 SERVO 或 REMOTE 模式。

- 当遥控器进入设置菜单时，向左/向右转动 ZOOM 杆可选择上一个/下一个项目。

14. REC START/STOP 键

- 按此键可开始/结束录像并记录。再次按 REC START/STOP 键，记录期间，对应的状态 LED 亮起红色。遥控器屏幕上的数字图标或无线图标变为 或 。

15. 17. 18.

（请参阅“遥控器的屏幕和菜单设置”章节。）

19. ASSIGN 键

- 按此键可用分配给摄像机的 ASSIGN 按钮的功能。
- 再次按此键可关闭摄像机的控制功能。

20. THUMB/NAI 键

- 按此键可显示/隐藏副屏幕。
- 再次按此键可关闭副屏幕。

21. SET 及镜头键

- 使用镜头键在摄像机菜单屏幕上向上/下/左/右移动光标或在摄像机设置菜单上更改某个值。
- 按下 SET 键可应用选项或进行某个功能。
- 如正在使用的摄像机为单反，可能不支持该操作。

有关详细信息，请参阅摄像机的使用说明书。

22. MENU 键

- 按此键可在摄像机屏幕上显示菜单。
- 再次按此键可关闭菜单屏幕。

23. DISPLAY 键

- 按此键可在不同的屏幕显示 (OSD) 页面之间切换。

24. CANCEL/BACK 键

- 取消设置而不应用设置，或在菜单级别中向上移动一级。

25. PRESET 键

- 按此键可用 PRESET。
- 如需更改预设设置的功能，请参阅摄像机的使用说明书。

26. A 键

- 按此键可用 WB SET A（存储键 A）中存储的设置。

27. B 键

- 按此键可用 WB SET B（存储键 B）中存储的设置。

28. WB SET 键

- 正在为 WB SET A 或 WB SET B 配置平衡设置时，按 WB SET 键可选择存储中的 WB SET 或 WB SET B 设置。

有关详细信息，请参阅摄像机的使用说明书。

[设置]

- 对于带有 PRESET A/B 开关或类似开关（具有有关位置指示）的摄像机，如果重新开启快门并重新对焦，或者从外部设备再次打开，设置将变为摄像机的开关位置设置。

29. SELECT 键

- 可以更改用于 GAIN 键操作的增益的模式。
- 从摄像机而进行，可以通过向上/下箭头来更改该模式。

- 对于带有 GAIN 开关或类似开关（具有有关位置指示）的摄像机，如果重新开启快门并重新对焦，或者从外部设备再次打开，设置将变为摄像机的开关位置设置。

30. GAIN 键

- 按此键可用摄像机上配置的增益设置。

31. WHT BAL 键

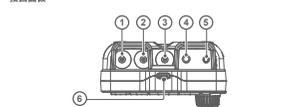
- 按此键可设置手动白平衡调整并调整摄像机的设置。
- 再次按此键可返回自动调整。

有关详细信息，请参阅摄像机的使用说明书。

32. SHUTTER 键

- 按此键可关闭自动曝光，将快门门或快门速度设置。按上下箭头键可更改快门模式。
- 如需更改快门，请参阅用户手册。

接口面板



1. CAMERA1 接口 (Ø2.5, 立体声迷你插孔)

2. CAMERA2 接口 (Ø2.5, 立体声迷你插孔)

3. CAMERA3 接口 (Ø2.5, 立体声迷你插孔)

4. OPTION 接口 (Ø3.5, 立体声迷你插孔)

用于连接遥控器 MCX-500、MCX-500 插杆了连接适配器。

5. REMOTE 接口 (Ø2.5, 立体声迷你插孔)

- 此接口用于菊花链连接。连接到另一遥控器，以使用两个遥控器控制连接的摄像机。

6. USB Type-C 接口

- 用于固件升级 (需要时)。
- 进入 www.aodelan.net 下载 ZC-4 的最新固件升级包，并根据其提供的升级文件将您的 ZC-4 升级到最新固件。
- 也可用于连接外部电源 (5V) 给遥控器供电。

背面

1. 电缆护栏

2. 用于安装摄像机的接口

（参考“连接平移杆”章节）

3. 电池舱盖

- 电池舱内可装两节 AA 1.5V 电池。



接收器



1. 镜头 (Ø2.5, 立体声迷你插孔)

- 连接至摄像机上的 REMOTE 或 LANC 端子。
- 在摄像机开机之后，与摄像机连接的接收器将自动与已配对的遥控器建立无线连接。

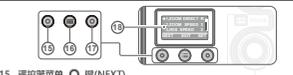
2. 状态指示灯

- 接收器连接到开机状态的摄像机时，此灯指示接收器与摄像机的无线连接状态。
- 闪烁红灯表示已与遥控器建立无线连接。此时，需操作遥控器与接收器进行配对。
- 在遥控器上，按 **[设置]** 键或 **[A]** 键，**[Y]** 将图标 变为 。
- **[PAIR MODE]** → **[A]** → **[SET]** → **[Y]** 将图标 变为 。
- **[SET]** 灯亮起/熄灭。
- 然后，当接收器进入配对模式，自动接收接收器并与之配对。

3. USB Type-C 接口

- 用于固件升级 (需要时)。
- 进入 www.aodelan.net 下载 ZC-4 的最新固件升级包，并根据其提供的升级文件将您的 ZC-4 升级到最新固件。

遥控器的屏幕和菜单设置



15. 遥控器菜单 **[O] 键 (NEXT)**

- 当遥控器进入设置菜单时，按此键可选择下一个项目。

16. 遥控器菜单 **[三] 键**

- 按此键可进入/退出遥控器的设置菜单。
- 如需进入设置菜单时，摄像机不再受遥控器控制。
- 如果从设置菜单中退出，则遥控器会自动退出菜单。

17. 遥控器菜单 **[O] 键 (SET)**

- 当遥控器进入设置菜单时，按此键可切换并确认设置。

18. 屏幕

- 显示遥控器当前的状态。



显示 **说明**

① CAMERA1 接口已与摄像机建立有线连接。如该摄像机正在记录视频，此处显示 ；如未连接，则此处无显示。

② CAMERA2 接口已与摄像机建立有线连接。如该摄像机正在记录视频，此处显示 ；如未连接，则此处无显示。

③ CAMERA3 接口已与摄像机建立有线连接。如该摄像机正在记录视频，此处显示 ；如未连接，则此处无显示。

遥控器上已建立无线连接。如该摄像机正在记录视频，此处显示 ；如未连接，则此处无显示。

遥控器当前的电量。仅在遥控器没有建立有线连接时显示。显示指示 （或者 ）表示电量低（或者耗尽），请及时为遥控器更换新电池。

遥控器上建立有线连接时，所连接的摄像机会给遥控器供电，此处无显示。

在遥控器上操作摄像机的功能时显示。HOLD 状态开启时，此处显示 。

遥控器处于休眠状态时，此处无显示。

ZC-4 遥控器已开机且未建立任何连接时显示。

进入设置菜单

1. 按 **[三] 键** 进入遥控器的设置菜单。

- 通过按 **[O] 键 (NEXT)** 或者转动 ZOOM 杆将选择项 移动到所需菜单项目。
- 按 **[O] 键 (SET)** 更改设置。

3. 若要退出菜单，按 **[三] 键**（此时初期为“EXIT (退出)”）。如果 10 秒钟无操作，遥控器将自动退出菜单。

[设置]

- 当对他人设置菜单时，摄像机不再受遥控器的控制。

菜单设置

序号	菜单项目	选项	设置
1	ZOOM DIRECT	N (正常/反转)	变焦旋转方向。
2	ZOOM SPEED	1/2/3	变焦速度选择。
3	IRIS DIRECT	N (正常/反转)	IRIS 旋转方向。
4	IRIS SPEED	1/2/3	光圈手动调整速度。
5	FOCUS DIRECT	N (正常/反转)	对焦旋转方向。
6	FOCUS SPEED	1/2/3/4/5	对焦手动调整速度。
7	ND DIRECT	N (正常/反转)	ND 旋转方向。
8	ND MODE	ND/Dial (手动/自动)	ND 模式。
9	SLEEP	10M (10 分钟)/4H (4 小时)/OFF (关闭)	遥控器在闲置多长时间后进入休眠模式。

PAIR MODE **Y (是)**

11. RESET ALL **Y (是)**

12. VERSION VX.XX

连接多台摄像机



ZC-4 遥控器最多可同时连接四台摄像机

通过有线将摄像机连接到 CAMERA1 至 CAMERA3 接口，或者通过接收器将摄像机进行无线连接。然后使用摄像机连接板 (或无线连接板) 将遥控器连接到接收器。可以同时选择并控制多台摄像机。

- 在连接多台摄像机时，摄像机应始终处于相同频道。例如，REC START/STOP 键同时开始记录，实际开始记录时间可能会有数秒的差别。

通过有线将摄像机连接到 CAMERA1 至 CAMERA3 接口，或者通过接收器将摄像机进行无线连接。然后使用摄像机连接板 (或无线连接板) 将遥控器连接到接收器。可以同时选择并控制多台摄像机。

[设置]

- 在连接多台摄像机时，请关闭所有台摄像机。
- 可在连接多台摄像机时，摄像机应始终处于相同频道。例如，REC START/STOP 键同时开始记录，实际开始记录时间可能会有数秒的差别。

以菊花链形式连接

可以使用两个遥控器控制所连接的摄像机。方法是将一个遥控器连接到另一台摄像机相连的 REMOTE 接口。



1. 将遥控器 1 连接到摄像机 1（通过有线连接或无线连接）。

2. 将遥控器 2 至 CAMERA3 接口中的一个连接到遥控器 1 上的 REMOTE 接口。

- 如需控制多台摄像机，请始终使用菊花链连接。有关各摄像机支持接收器功能的详细信息，请参见用户指南。
- 只可对两个遥控器进行菊花链连接。请勿将菊花链接口连接到接收器 REMOTE 接口。
- 按此按钮并操作摄像机时