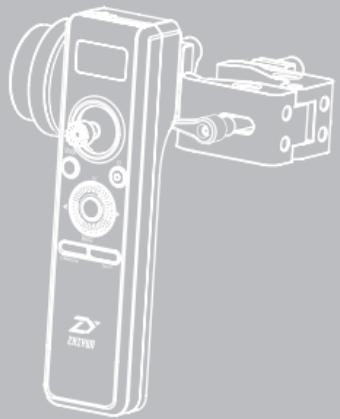




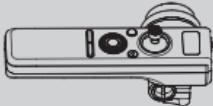
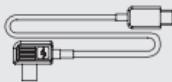
ZW-B03
Crane 2 Motion Sensor Remote
Control with Follow Focus
User Guide



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The product package comes with following items. In case that any item is found missing, please contact ZHIYUN or your local selling agent.

	Motion Sensor Remote Control	1
	Mounting Buckle for Monopod	1
	Rod	1
	Micro USB Cable	1
	Lanyard	1

Thank you for using ZHIYUN ZW-B03 Crane 2 Motion Sensor Remote Control with Follow Focus. The information contained herein affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings herein may result in serious injury to you or bystanders, or damage to your device or property. ZHIYUN reserves the right of final explanation for this document and all relevant documents relating to ZW-B03, and the right to make changes at any time without notice. Please visit www.zhiyun-tech.com for the latest product information.

By using this product, you hereby signify that you have read this document carefully and that you understand and agree to abide by the terms and conditions herein. You agree that you are solely responsible for your own conduct while using this product, and for any consequences thereof. You agree to use this product only for purposes that are proper and in accordance with all terms, precautions, practices, policies and guidelines ZHIYUN has made and may make available.

ZHIYUN accepts no liability for damage, injury or any legal responsibility incurred directly or

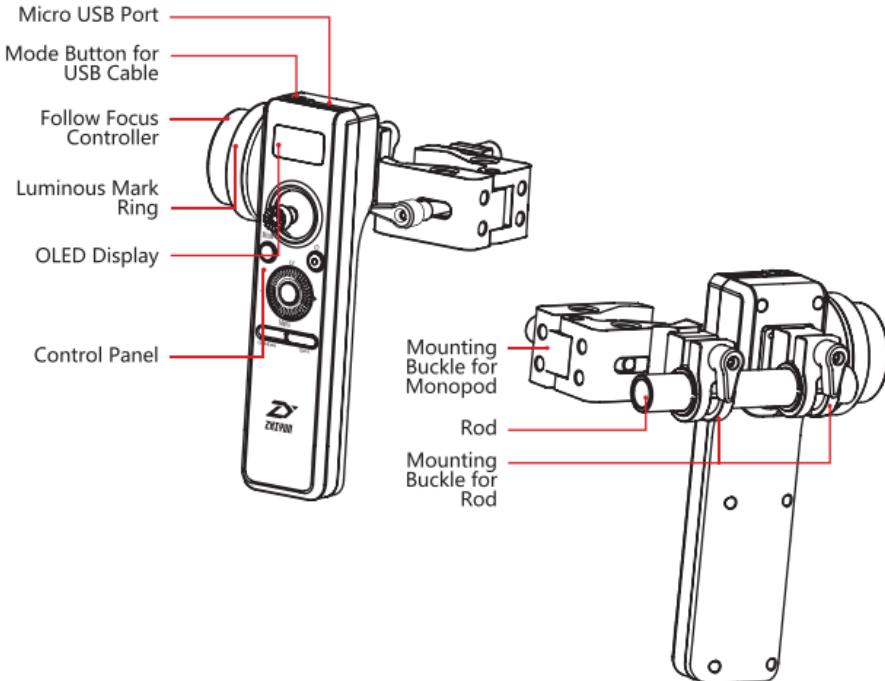
indirectly from the use of this product. Users shall observe safe and lawful practices including, but not limited to, those set forth herein.

ZHIYUN is the trademark of Guilin Zhishen Information Technology Co., Ltd. (hereinafter referred to as "ZHIYUN" or "ZHIYUN TECH") and its affiliates. All product names or marks referred to hereunder are trademarks or registered trademarks of their respective holders.

Reading Notice

Legends:  Operation/Usage Tips  Important Notices

Get to Know ZW-B03 Remote Control



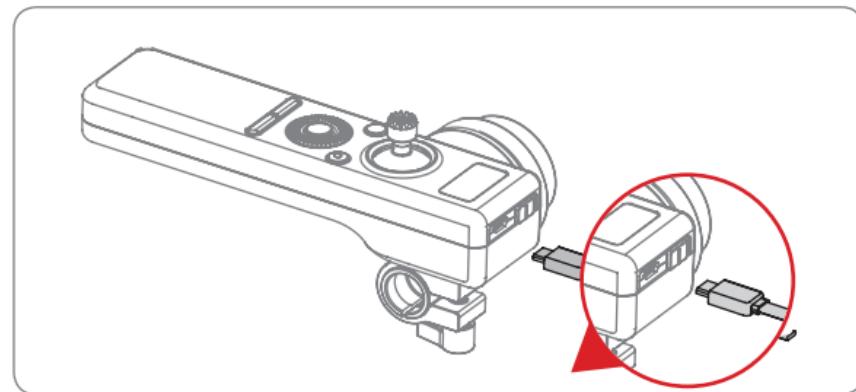
Charging Guidelines

The capacity of built-in rechargeable Li-battery is 900mAh, users can monitor battery level via the display. When the battery is low, please connect the Micro USB Port to a power source via the Micro USB charging cable. After fully charged, the controller can work continuously for 25 hours.

Charging Voltage: 5V

Charging Current: 1500mA

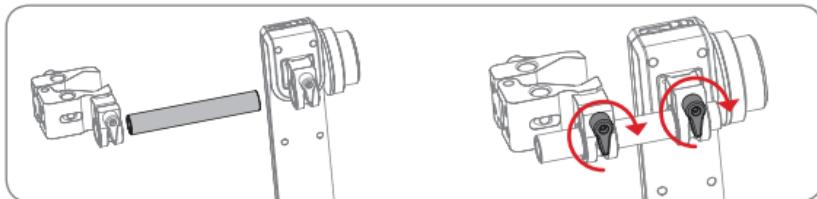
Charging Time: 1.5h



Install on Monopod

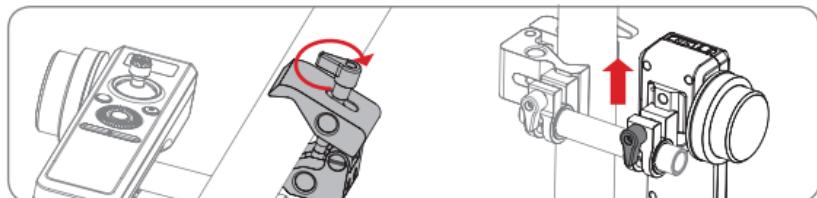
ZW-B03 Remote Control can be installed on monopod, which is more labor-saving while rendering a better control of Crane 2 for users.

1. Install the mounting buckle for monopod and mounting buckle for rod on the rod separately, and tighten the screws on buckle.
- 💡** Users can adjust the distance between the remote control and mounting buckle for monopod accordingly.

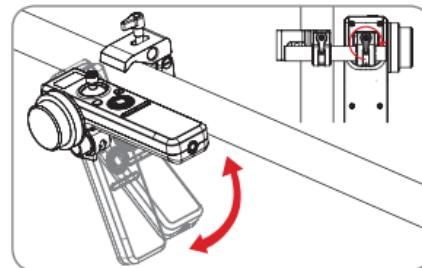


2. Tighten the screw on the upper side of mounting buckle for monopod, insert the monopod into the clamp, then fasten the screw.

- 💡** Users can loosen the screw on the back of mounting buckle for rod, then take the remote control out for independent use.

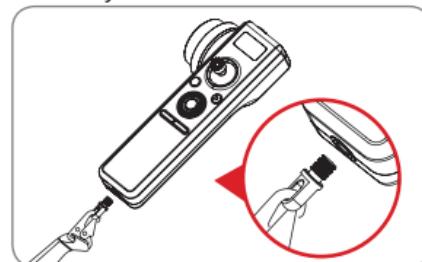


💡 Users can also adjust the angle accordingly for better operation, first loosen the screw on the back of controller, then move the controller while defining the joint point with rod as the center of circle.

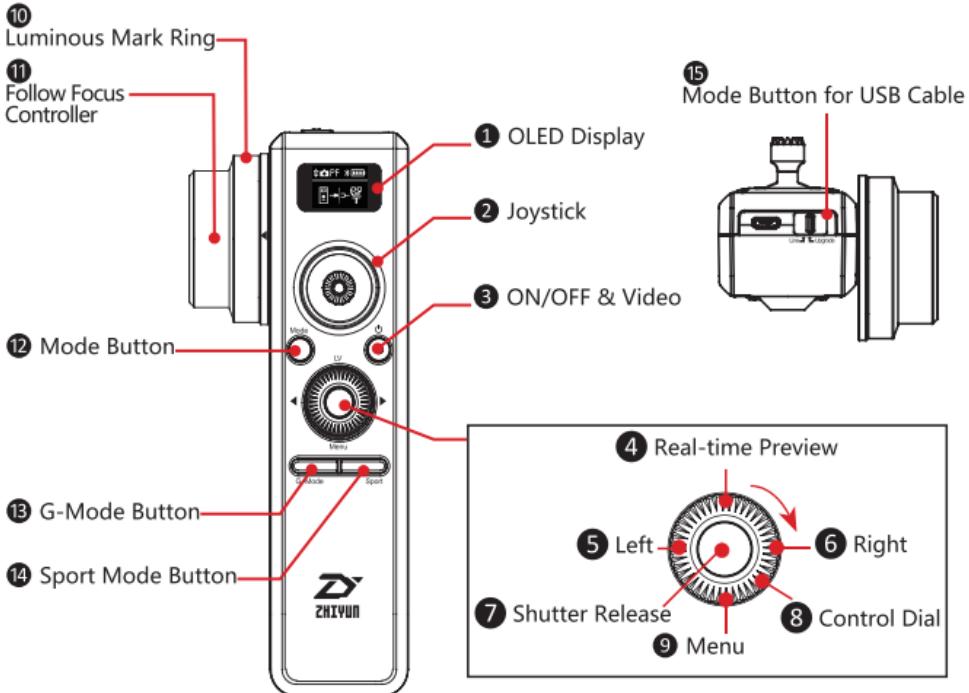


Install Lanyard

When using controller alone, users can install the lanyard for convenient hanging and fetching.
Tighten the 1/4 screw of lanyard to the bottom of controller.



Control Panel Descriptions

**① OLED Display**

Stabilizer status and camera parameters display.

② Joystick

Four-way direction control of the camera/lens.

③ ON/OFF & Video*

Long press for 3 seconds to power on/off. Single press to start/end video recording.

④ Real-time Preview*

Single press the button to enter the real-time preview mode.

⑤ Left*

- In main screen, single press to return to previous option.
- In menu screen, single press to return to previous screen.

⑥ Right*

- In main screen, single press to move to next option.
- In menu screen, single press to confirm selection.

⑦ Shutter Release*

- Halfway press the button to activate auto focus.
- Full press the button to take single shot.

⑧ Control Dial*

- In main screen, rotate the dial to adjust camera parameters.
- In menu screen, rotate the dial to switch between options.

* marked functions are only available when cameras are properly connected to the stabilizer. See more details at Zhiyun Crane 2 User Manual.

⑨ Menu

Single press to enter or exit menu.

⑩ Luminous Mark Ring

For marking the focus position

⑪ Follow Focus Controller*

Rotate the controller to adjust the focal length in real time and realize follow focus control.

⑫ Mode

- Press for 1 second to enter or exit standby mode.
- Single press to switch between pan-following and locking mode.
- Quick double press to enter following mode.
- Quick triple press to enter the selfie mode (180° rotation on pan axis)

⑬ G-Mode Button

Single press to enter gravity mode and start sensor remote control.

⑭ Sport Mode Button

Single press to enter sport mode, three motors will react more responsively.

⑮ Mode Button for USB Cable

- Toggle the button to Line side, activate control of Crane 2 via USB cable.
- Toggle the button to Upgrade side, user can upgrade the firmware by connecting controller to PC via USB cable.

OLED Display Introduction



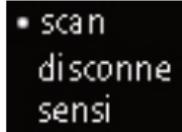
Display screen for stabilizer unconnected



Display screen for camera params setting



Display screen for stabilizer modes (camera params setting unavailable)



Menu screen

1. Icon Description

	Camera Connection Status
	Video Mode
	Photo Mode
	Bluetooth Status
	Battery Level (stabilizer)
	Pan Following Mode

	Following Mode
	Locking Mode
	Aperture Value
	Time Value
	ISO
	Exposure Value

2.Menu Description

scan: Activate controller Bluetooth scan, the devices found nearby will be displayed on the screen, press the right side of dial to connect, press the left side of dial to exit the scan interface;

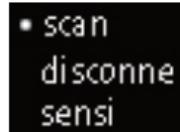
disconnect: Disconnect Bluetooth; if no device connected, it says: "device is not connected"; for devices connected, press to disconnect and it will show √ then exit after two seconds;

sensi: Camera focus sensitivity control; with 3 adjustable options: low, medium and high;

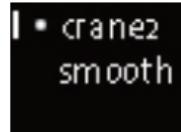
motor: Stabilizer motor force adjustment; with 3 adjustable options: low, medium and high;

reverse : The sub-menu includes "Joystick" and "Wheel" (FF control), press the right side of the dial to enter either selected item, then choose "Yes" or "No" to enable or disable reverse control of the Joystick or Wheel. The default setting is "No".
about: Display software version and controller model information.

Bluetooth Connection



1.Single press menu button and enter "scan".



2.Select Crane 2 and connect.

Bluetooth connection status will not be recorded in remote control, so users need to re-connect after power on the controller.

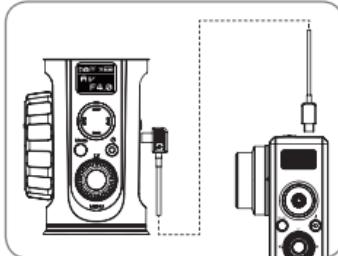
Before connection, please make sure the stabilizer is not connected with smartphone or other devices, otherwise the stabilizer won't be found by the controller.

Micro USB Cable Connection

Under certain circumstance, users can connect controller with Crane 2 through USB cable for better and stabler connection:

Toggle Mode Button for USB Cable to Line side, then connect the controller with gimbal via Micro USB cable.

💡 When controller is connected with Crane 2 via both Bluetooth and USB cable, it will correspond with USB cable connection in priority automatically.



Motor Force Adjustment

The motor force of the stabilizer needs to be adjusted (3 levels) to adapt the stabilizer to cameras and lens of different weight for ideal use.

- motor
- sensi
- reverse

1. Single press Menu and rotate the dial to "motor", then press right to enter "motor" setting.

I • low
medium
high

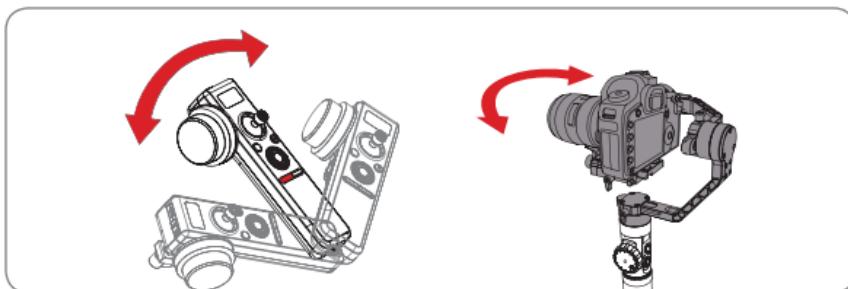
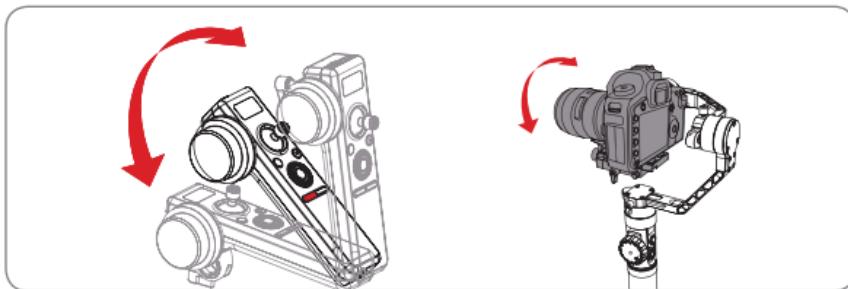
2. Rotate the dial to choose the appropriate motor force (3 levels), press right to confirm the option.

Motor Force	Weight Capacity	Compatible Camera & Lens Examples
Low	Light	Sony A7S Camera+SEL35F28Z Lens
Medium(default)	Medium	Canon 5D Camera+EF 50mm F/1.8 II Lens
High	Heavy	Canon 5D Camera+EF 24-70mm f/2.8 L II USM Lens

⚠ Either the motor force is set too high or too low (unmatched with weight capacity) can lead to camera shake and affect normal use of the stabilizer.

Gravity Mode

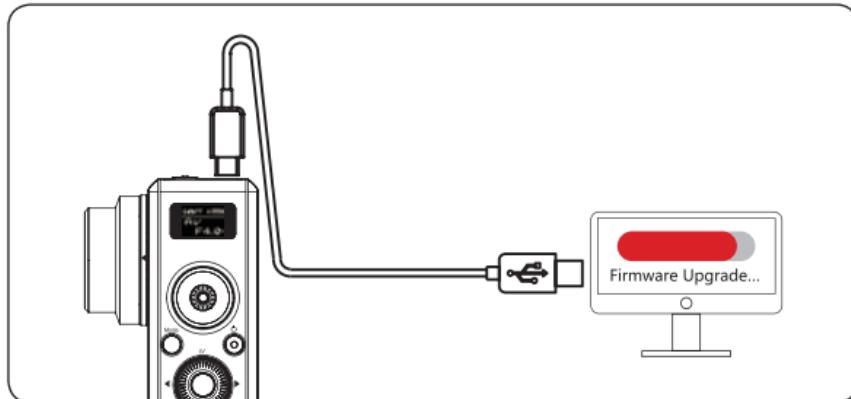
After connected with stabilizer, long press the G-Mode button to enter gravity mode and activate sensor remote control, enabling the tilt axis and pan axis to move along with the controller simultaneously and co-directionally.



Firmware Upgrade

Connect the controller to your computer via Micro USB cable to get ready for the firmware upgrade.

1. Visit ZHIYUN's official website: www.zhiyun-tech.com
2. Click "DOWNLOAD" to find and download the USB driver, upgrade tool and latest firmware corresponding to your controller. (USB drive installation is not needed for Mac and Windows 10 system).
3. Toggle Mode Button for USB Cable to Upgrade side, then connect the controller to your computer via Micro USB cable, power on the controller.
4. Enter the downloaded "Zhiyun Tools" and upgrade firmware following the instructions indicated in the Firmware Upgrade Tutorial.



Basic Specifications

Charging voltage: 5V

Charging current: 1500mA

Theoretical work time: ≥ 25 hr.

Built-in Li-battery capacity: 900mAh

Charging Time: 1.5h

Effective control distance: 10M (without blockage)

Output: DC7.4V

ZHIYUN reserves the right to make changes at any time without notice.
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Warranty Terms

1. Customers are entitled to replacement or free repair service in case of quality defect(s) found in the product within 15 days upon receipt of the product.
2. Customers are entitled to free repair service from ZHIYUN for any product proven defective in material or workmanship that results in product failure during normal consumer usage and conditions within the valid warranty period, which is 12 months counting from the date of delivery.

This warranty does not apply to the followings

1. Products subjected to unauthorized repair, misuse, collision, neglect, mishandling, soaking, accident, and unauthorized alteration.
2. Products subjected to improper use or whose labels or security tags have been torn off or altered.
3. Products whose warranty has expired.
4. Products damaged due to force majeure, such as fire, flood, lightening, etc.

Warranty Claim Procedure

1. If failure or any problem occurs to your product after purchase, please contact a local agent for assistance, or you can always contact ZHIYUN's customer service through email at service@zhiyun-tech.com or website at www.zhiyun-tech.com.
2. Your local agent or ZHIYUN's customer service will guide you through the whole service procedure regarding any product issue or problem you have encountered. ZHIYUN reserves the right to reexamine damaged or returned products.

Customer Information

Customer Name: _____ Contact No: _____

Address: _____

Sales Information

Sales Date : _____ Product Serial No: _____

Dealer: _____

Contact No: _____

#1 Maintenance Record

Service Date: _____ Signature of Repairman: _____

Cause of Problem: _____

Service Result: Solved Unsolved Refunded (Replaced)



FCC Warning:

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.

The user manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: 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.

Radiation Exposure Statement

For remote controller, this equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

For 3-Axis Stabilizer, this equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. this equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



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