

Perfecting the moment

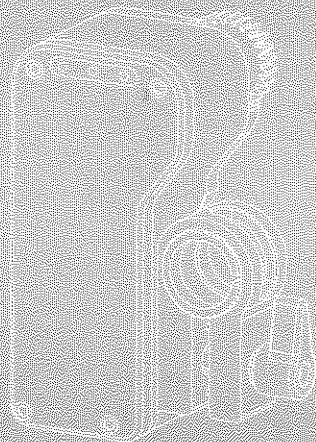
zhiyun-tech.com



Crane 2 Servo Follow Focus (mechanical)

User Guide

V1.00

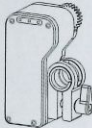

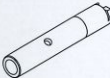
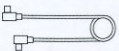




Contents

■ Packing List.....	1
■ Get to know Crane 2 Servo Follow Focus (mechanical).....	2
■ Charging the batteries.....	3
■ Product Installation	4
■ How to Use.....	7
■ Firmware Upgrade	8
■ Troubleshooting Guide.....	9
■ Product Parameters.....	10
■ Disclaimer and Warning	11
■ Warranty Card	14
■ Contact Card	16

Packing List

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

	Follow Focus Motor	1		Allen Key	1
	Support Rod	1		ZW-Micro-004 Data Cable	1
	Follow Focus Ring	2		Storage Case	1

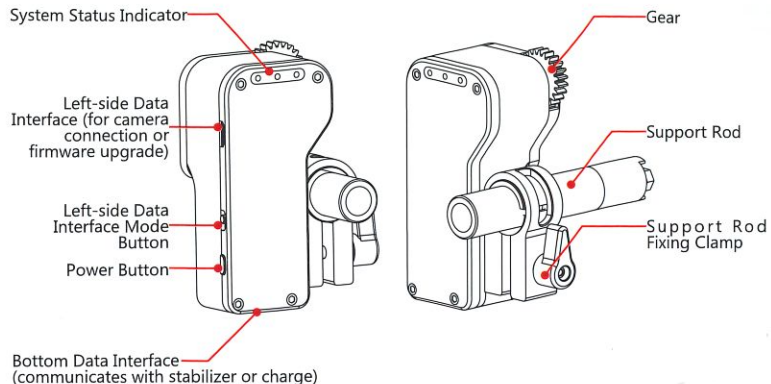
Product Overview

Crane 2 Servo Follow Focus (mechanical) is a tailor-made external follow focus system for Crane 2 to control camera lens. It comprises of a follow focus motor and fixing clamp.

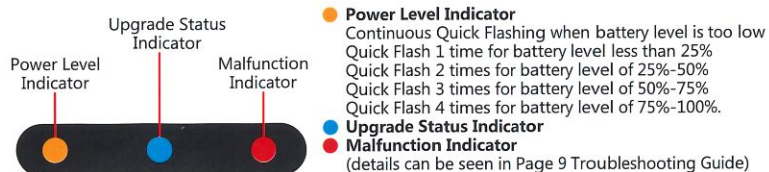
Crane 2 Servo Follow Focus (mechanical) is compatible with various camera lens. Crane 2 can control both the Servo Follow Focus and the camera in the cable mode. Crane 2 Motion Sensor Remote Control can control the Servo Follow Focus in both cable mode and wireless mode.

Get to know Crane 2 Servo Follow Focus (mechanical)

Get to know Crane 2 Servo Follow Focus (mechanical)



System Status Indicator Description



Charging Description

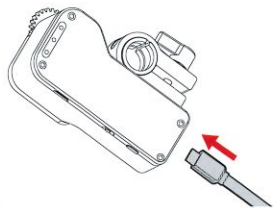
Built-in rechargeable Li-ion Battery in the Servo Follow Focus can be charged by connecting to power adapter or Crane 2.

Capacity: 300mAh

Voltage: 5V

Charging Current: 1500mA

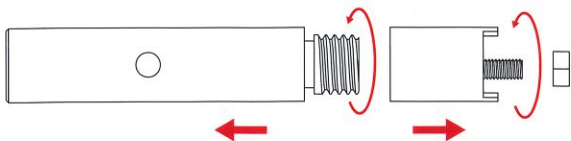
Charging Time: 0.5h



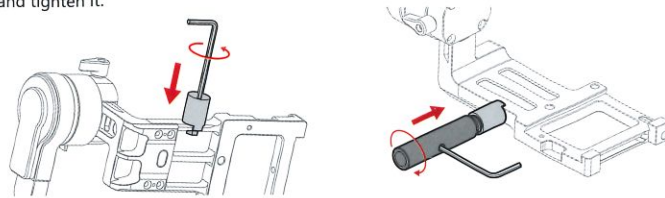
- ⚠ 1.** Please make sure the Servo Follow Focus is fully charged before first use or after long idle, otherwise it may fail to start.
2. Servo Follow Focus will automatically shut down after 10s without power input.

Product Installation

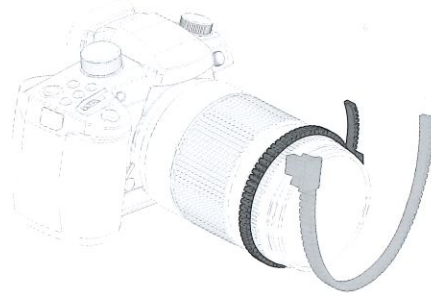
1. Unscrew the support rod into 2 pieces and remove the bottom screw nut.



2. Use Allen Key to screw and tighten the short piece, the screw nut and the long piece of support rod accordingly, then insert the Allen key into the hole of the support rod to leverage and tighten it.

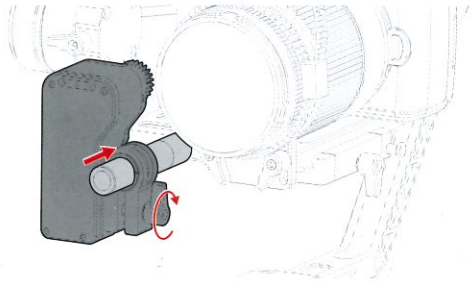


3. Unlock the follow focus ring and slide it on focus ring of the lens. Ensure a good contact of the Follow Focus Ring and lens focus ring.

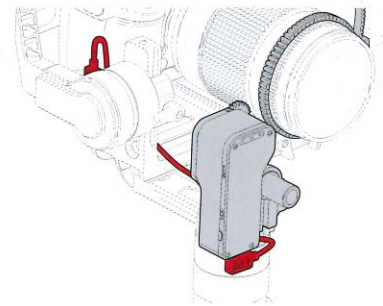


- 💡 1.** Ensure the good contact of Follow Focus Ring and lens focus ring to enable an unobstructed full range of synchronous motion.
2. Before installation of Servo Follow Focus outer gear on the Follow Focus Ring, adjust Follow Focus Ring tail into appropriate location to avoid any interference.

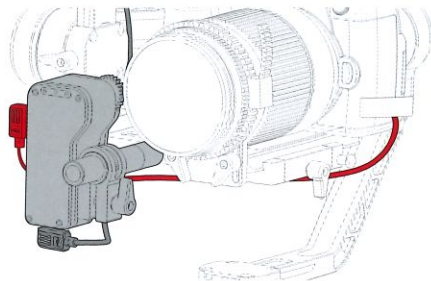
4. Mount the camera and gimbal quick-release plate. Loosen Support Rod Fixing Clamp of motor and slide the Follow Focus Motor onto the support rod.



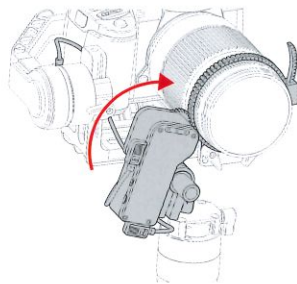
5. Use ZW-Micro-004 Data Cable to connect Servo Follow Focus and Crane 2 through Crane 2 Tilt Motor Data Interface and Servo Follow Focus Bottom Data Interface.



6. Connect the corresponding camera control cable to Left-side Data Interface on the Servo Follow Focus, and then the other end to the corresponding interface on the camera.

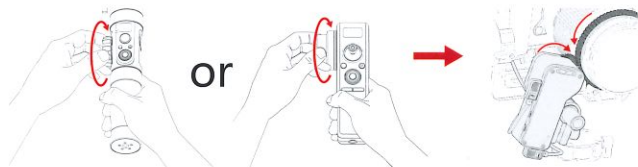


7. Adjust camera and stabilizer balance according to Crane 2 User Manual instructions. Make sure that Servo Follow Focus is in appropriate location and its outer gear fits Follow Focus Ring before adjusting Tilt Axis balance.



How to Use

Generally, for appropriately connected Servo Follow Focus, it will automatically start when starting Crane 2. Then its gear will rotate simultaneously to the rotation of Crane 2 Follow Focus Controller or Crane 2 Motion Sensor Remote Control.

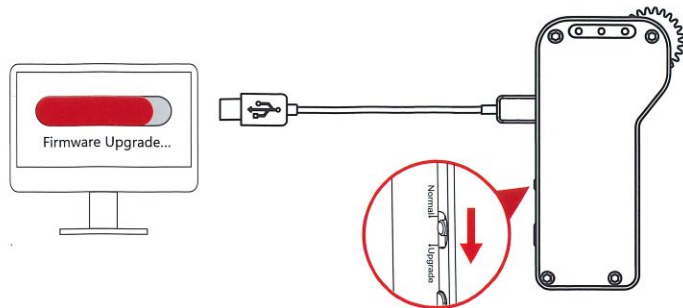


Tips:
If Sony camera power supply function is set to be OFF in Crane 2 menu, then press the Power Button of Servo Follow Focus to turn it on. If it still fails to start up, please refer to Page 9 Troubleshooting Guide to find solutions.

Firmware Upgrade

Connect the Servo Follow Focus 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" and find the Firmware Upgrade Tutorial package, then download the driver, calibration tool and latest firmware corresponding to your Servo Follow Focus. (USB driver installation is not needed for Mac and WIN 10 system).
3. Connect the Servo Follow Focus to your computer via Micro USB cable, power on the stabilizer and adjust the Servo Follow Focus to Upgrade mode through manually adjusting Left-side Data Interface Mode Button.
4. Enter the downloaded upgrade and calibration tools and upgrade firmware following the instructions indicated in the Firmware Upgrade Tutorial on the website.



Troubleshooting Guide

No.	Malfunction Status	Probable Cause	Solutions
1	Red Light Blinks 1 time	Cable Disconnection	Check Cable Connection according to the User Manual
2	Red Light Blinks 2 times	Motor or Gear obstructed motion that cause auto protection	Check if any object stops running
3	Red Light Blinks 3 times	Camera Control Interface Short-circuit	Check if the Camera Control Interface short circuit
4	Red Light Blinks 4 times	System Malfunction	Please contact the Customer Service people
5	Solid Red Light	Upgrade Failure	Please upgrade firmware again referring to the website
6	Fail to start the Servo Follow Focus	Servo Follow Focus Battery Low	Charge Servo Follow Focus until solid yellow light status
		Wrong Cable Connection	Check if Cable Connection is right according to the User Manual
		Crane 2 is not started	Make sure Crane 2 is started first
		Sony Camera power supply function is OFF in Crane 2 Menu	Manually start Servo Follow Focus by pressing its power button

💡 If you still fail to find solutions for malfunction, please contact our customer service people.

Product Parameters

Product Model No.	CMF-01
Charging Voltage	5V
Built-in Li-ion Battery Capacity	300mAh
Weight	176g
Gear	0.8 Mod, 24 Teeth

Compatible Stabilizer	Crane 2
Charging Current	1500mA
Charging Time	0.5h
Size	85*46*35.5mm

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Thank you for using ZHIYUN Crane 2 Servo Follow Focus (mechanical). 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 Crane 2 Servo Follow Focus (mechanical), 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.

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Warning

Read the ENTIRE User Guide to become familiar with the features of this product before operating. Failure to operate the product correctly can result in damage to the product or personal property and cause serious injury. This is a sophisticated product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. DO NOT use with incompatible components or in any way otherwise as mentioned or instructed in the product documents provided by ZHIYUN. The safety guidelines herein contain instructions for safety, operation and maintenance. It is essential to read and follow all of the instructions and warnings in the User Guide, prior to assembly, setup or use, in order to operate the product correctly and avoid damage or serious injury.

Safe Operation Guidelines

■ CAUTION:

1. Crane 2 Servo Follow Focus (mechanical) is a high-precision control device. Damage may be caused to Crane 2 Servo Follow Focus if it is dropped or subject to external force, and this may result in malfunction.
2. Make sure the rotation of the gimbal axes is not blocked by external force when Crane 2 Servo Follow Focus is turned on.
3. Crane 2 Servo Follow Focus is not waterproof. Prevent contacts of any kind of liquid or cleaner with Crane 2 Servo Follow Focus. It is recommended to use dry cloth for cleaning.
4. Protect Crane 2 Servo Follow Focus from dust and sand during use.

■ WARNING

To avoid fire, serious injury, and property damage, observe the following safety guidelines when using, charging, or storing your batteries.

Battery Charging

1. Do not attach the batteries to a wall outlet or car charger socket directly. Always use a ZHIYUN approved adapter for charging. ZHIYUN takes no responsibility if the battery is charged using a non-ZHIYUN charger.
2. Do not put the battery and charger near flammable materials or on flammable surfaces (such as carpet or wood). Never leave the battery unattended during charging to prevent any accident.
3. Do not charge the battery immediately after use, because the battery temperature may be too high. Do not charge the battery until it cools down to normal room temperature. Charging the battery with its temperature over 45° C or lower than 0° C may lead to leakage, overheating, or damage.
4. Examine the charger before use, make sure there is no damage to the enclosure, cord, plug, or other parts. Never use a damaged charger. Do not clean the charger with any liquid containing alcohol or other flammable solvents. Disconnect the charger when not in use.

Battery Storage

1. Keep batteries out of the reach of children and pets.
2. Do not leave the battery near heat sources such as a furnace or heater, or inside of a vehicle on hot days. Never expose the battery in any environment with temperature of over 60° C. The ideal storage temperature is 22° C-28° C.
3. Store batteries in a dry environment.
4. Do not leave the battery unused for too long after it has been completely discharged to prevent over-discharge of battery which may result in battery damage and permanent failure.

Battery Maintenance

1. Never use the battery when the temperature is too high or too low.
2. Do not store the battery in any environment with a temperature of over 60° C.

Transportation Notice

1. Discharge the battery power to 25% or lower before carrying the battery on an airline flight. Only discharge the battery in a fireproof location, ideally in a dry and open area.
2. Do not store or transport batteries together with metal objects such as eyeglasses, watch, and jewelries, etc.
3. Do not transport damaged batteries. When transporting, be sure to discharge the battery to less than 50%.

Battery Disposal

Dispose of the battery in specific recycling boxes only after a complete discharge. Do not put away the battery in regular trash containers. Strictly follow your local regulations regarding the disposal and recycling of batteries.

Warranty Period

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.
3. Some states or countries do not allow limitations on how long an implied warranty lasts, so the above warranty term may not apply to you.

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, lightning, etc.

Warranty Claim Procedure

1. If failure or any problem occurs to your product after purchase, please contact a local agent for assistant, 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.
3. ZHIYUN reserves the right to reexamine damaged or returned products.

Custom information

Customer Name :

Contact No :

Address :

Sales Information

Sales Date :

Prod. Serial No :

Dealer

Contact No :

#1 Maintenance Record

Service Date :

Signature of Repairman :

Cause of Problem :

Service Result :

 Solved Unsolved Refunded(Replaced)

Website



Weibo



Vimeo



Google+



Facebook



Wechat



Youku



Youtube

Tel: +86-773-2320856

Web: www.zhiyun-tech.comE-mail: service@zhiyun-tech.comAddress: Creative Industrial Park, GuiMo Road, QiXing District, Guilin
541004, Guangxi, China.

Certificate of Quality

This product is confirmed to meet quality standards and permitted for sale after strict inspection.

QC Inspector: _____

