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*Reading software such as Adobe Reader is needed to support the functions above.

ZHIYUN CINEPEER CQ5

User Guide

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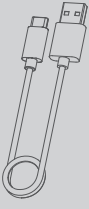
Product List

Before using this product, please check carefully that all the following items are included in the product package. In case that any item is found missing, please contact ZHIYUN or your local selling agent.

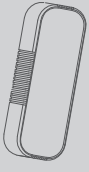
Gimbal x1

Tripod x1



USB Type-C Cable x1

Quick Start Guide x1

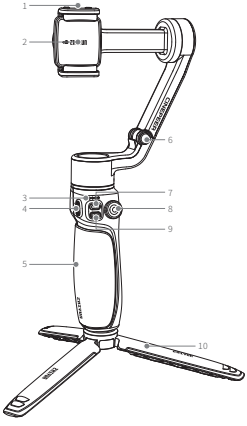


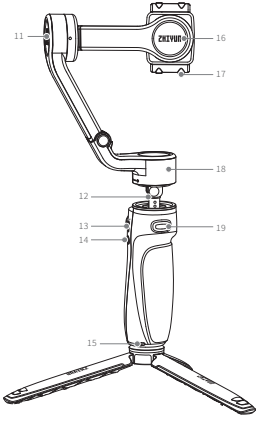
Fill Light x1*

AI Tracker x1*

Items marked " * " are only included in the COMBO package.

Get to Know ZHIYUN CINEPEER CQ5



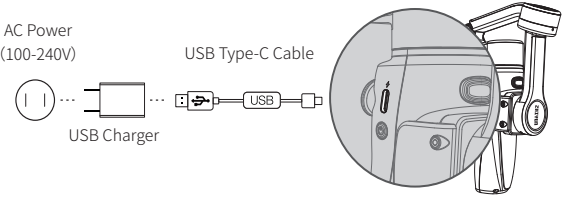


1. Fill Light Magnet
2. Phone Clamp
3. Indicator Lights
4. Control Wheel
5. Handle
6. Gimbal Hinge
7. MODE Button
8. Joystick
9. Photo/Video Button
10. Tripod
11. Tilt Axis Motor
12. Extension Rod
13. USB-C Port
14. Power Button
15. Wrist Strap Hole
16. Roll Axis Motor
17. AI Tracker Slot
18. Pan Axis Motor
19. Trigger Button

Battery and Charging

ZHIYUN CINEPEER CQ5 adopts built-in battery. When using ZHIYUN CINEPEER CQ5 for the first time, please activate the battery by fully charging it to ensure the proper function of the gimbal.

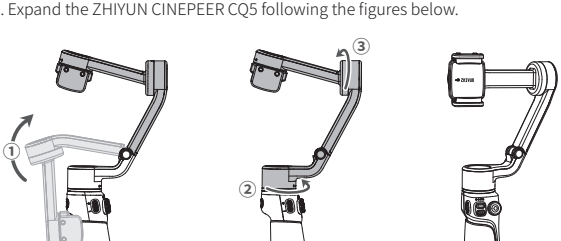
Charging method: Use provided USB Type-C cable to connect the USB charger to charge ZHIYUN CINEPEER CQ5. It is recommended to use a USB charger that complies with the PD protocol. The ZHIYUN CINEPEER CQ5 supports a maximum PD charging power of 14W. During charging, the green indicator light on the device will blink in a cycle. When all four green indicator lights on the device remain steadily lit, it indicates that the charging is complete.



① USB charger is not provided.
② Please power off CINEPEER CQ5 to charge.

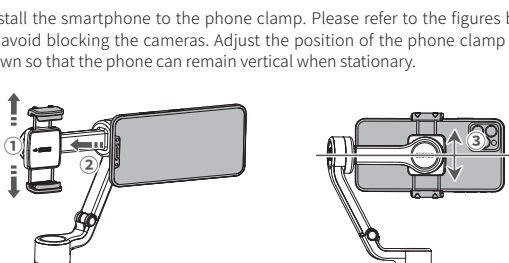
Mounting the Smartphone

1. Expand the ZHIYUN CINEPEER CQ5 following the figures below.



⚠ When using, please refer to the figures and pay attention to the rotation direction of the three axes to avoid damaging the structural limits.

2. Install the smartphone to the phone clamp. Please refer to the figures below to avoid blocking the cameras. Adjust the position of the phone clamp up or down so that the phone can remain vertical when stationary.

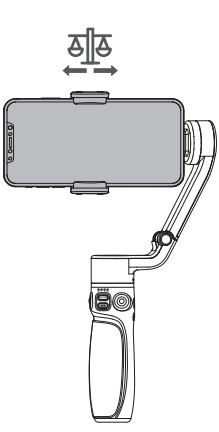


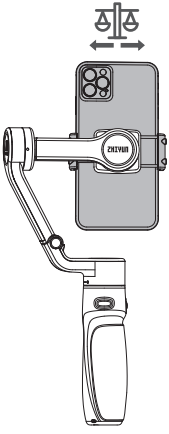
① When mounting the smartphone, please make sure that the entire smartphone is fixed in the phone clamp firmly.

② ZHIYUN CINEPEER CQ5 should have a smartphone mounted on and balanced before powering on. If no smartphone are detected when powering on the gimbal, the motor will make a sound and enter standby mode automatically.

Balancing

When the phone is in landscape mode, adjust the position of the phone left or right until the phone is steady and is at almost level with the ground. When the phone is in portrait mode, move the phone clamp left or right until the phone is steady and is at almost level with the ground.

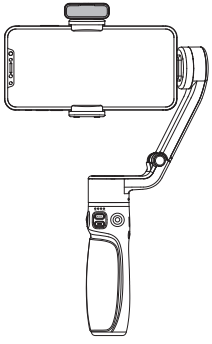




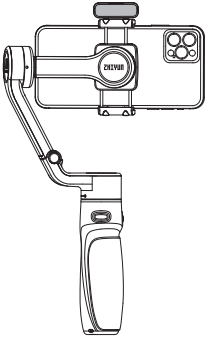
The balance state of the smartphone will affect the runtime of ZHIYUN CINEPEER CQ5. ZHIYUN CINEPEER CQ5 can work normally if unbalanced, but it will consume more battery power and weaken the motor strength.

Installing the Fill Light

Install the magnetic fill light onto the fill light magnet on the phone clamp. You can choose to use the fill light with the front camera or rear camera.

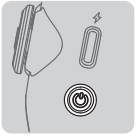


Fill Light with Front Camera



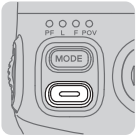
Fill Light with Rear Camera

Button/Light/Port Introduction



Power Button

Single press: See gimbal battery level.
Long press: Power on/off.
Press eight times: Reset Bluetooth.



Photo/Video Button

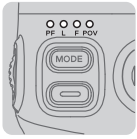
Single press: Take a photo (when in the photo mode of ZY Cami app).
Start/stop shooting a video (when in the video mode of ZY Cami app).
Double press: Cycle through shooting modes in ZY Cami
Triple press: Switch between front/rear camera in ZY Cami app.
Long press: Take multiple photos (controls the native phone camera of certain smartphones, the smartphone should support camera control using the volume button).

MODE Button

Single press: Switch gimbal mode (PF-L-F-POV-V).
Double press: Return to previous mode.
Long press: Switch between sleep/wake mode for the gimbal motors

Trigger Button

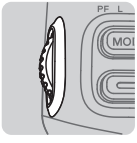
Single press: Enable SmartFollow in ZY Cami app.
Enable/disable face tracking (when the AI tracker is connected).
Double press: Gimbal reposition.
Triple press: Switch between landscape/portrait mode.
Long press: Switch to Go mode. Release to return to previous mode.



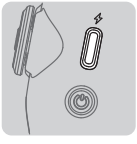
Indicator Lights

Gimbal Mode	First indicator light steadily lit	Gimbal in PF mode
	Second indicator light steadily lit	Gimbal in L mode
	Third indicator light steadily lit	Gimbal in F mode
	Fourth indicator light steadily lit	Gimbal in POV mode
	Third indicator light flashes	Gimbal in GO mode
	Fourth indicator light flashes	Gimbal in V mode
Gimbal Status	Four indicator lights pulse	Standby
	Four indicator lights quickly flash	Upgrade failed
	Four indicator lights flash one by one	Upgrading firmware
Gimbal Battery Level	One indicator light flashes	Battery level 0-25%
	Two indicator lights flash	Battery level 25-50%
	Three indicator lights flash	Battery level 50-75%
	Four indicator lights flash	Battery level 75-100%

Joystick
Push the joystick up/down/left/right to control the gimbal to rotate.



Control Wheel
Single press: Adjust the brightness of the magnetic fill light (when the fill light is on)
Long press: Turn on/off the magnetic fill light.
Scroll: Adjust the focal length in the ZY Cami app or the native camera of the smartphone.



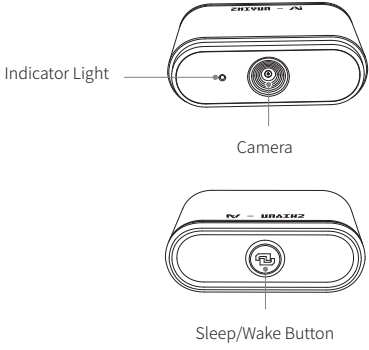
USB-C Port
Charge the gimbal/connect to the computer for firmware upgrade via this port.

When connected via Bluetooth, the CINEPEER CQ5 is able to control the native phone camera without the ZY Cami app. This feature is available in phones which support camera control using the volume button. Bluetooth connection with the CINEPEER CQ5 does not require a password. For the latest information, please visit ZHIYUN's official website www.zhiyun-tech.com to check the CINEPEER CQ5 Smartphone Compatibility List.

AI Tracking Instructions

The AI tracker can recognize gestures, allowing for automatic target tracking without the need to connect to an app. It also enables control of the gimbal and camera through gesture control.

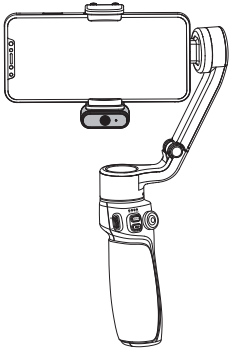
Get to Know AI Tracker



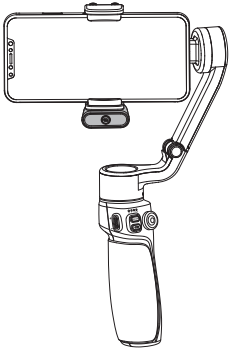
Sleep/Wake Button (AI Tracker)
Single press: Wake the AI tracker up from the low power mode
Long press: AI tracker enter sleep mode

Installing the Tracker

Install the AI tracker onto the magnetizing slot on the gimbal phone clamp. Simply rotate the tracker for 180 ° to switch the installation direction for front or rear camera tracking.



Tracking via Front Camera



Tracking via Rear Camera

Gesture Control Instructions

Action	Gesture	Gimbal/Tracker Status	Notes
Enable tracking		Solid green light on AI tracker	Gesture from either hand is valid
Disable tracking		Solid red light on AI tracker	Either hand is valid
Enable customized tracking		Quickly flashing green light on AI tracker	When there is no need for the subject to be in the center of the frame, you can customize the tracking based on your filming requirement.
Customized tracking failed		Quickly flashing red light on AI tracker	
Gimbal switch to landscape mode		Gimbal switches from portrait mode to landscape mode. The blue light quickly flashes on the tracker.	No gesture is needed if the current mode is landscape
Gimbal switch to portrait mode		Gimbal switches from landscape mode to portrait mode. The blue light quickly flashes on the tracker.	No gesture is needed if the current mode is portrait

Action	Gesture	Gimbal/Tracker Status	Notes
Take a photo/ start filming/stop filming		When counted down to three, the gimbal will control the camera to take a photo/start filming/ stop filming. The blue light quickly flashes on the tracker.	1. Gesture from either hand is valid. 2. Can control ZY Cami app or native smartphone camera
Take a photo/ start filming/stop filming		The gimbal will control the camera to take a photo/start filming/stop filming immediately.. The blue light quickly flashes on the tracker.	Can control ZY Cami app or native smartphone camera

Other Statuses of the Tracker

Gimbal Status	Indicator Light Status	Notes
Enter low-power mode	AI tracker indicator light off	Automatically enter low-power mode if not detected gesture for 10min
Bluetooth not connected	Red/blue light flash alternately on AI tracker	
Bluetooth paired successfully	Blue light steadily lit for 5s and switch to steadily lit red light on AI tracker	If started tracking after successfully pairing for 5s, the indicator light will be in the tracking status

① The AI tracker's gesture recognition range is up to 3 meters, but may be affected by challenging lighting conditions like backlight or low light.

Voice Control Instructions

The ZHIYUN CINEPEER CQ5 supports voice control to command the gimbal to perform various actions without having to use your hands. You can use voice commands to switch between landscape/portrait mode, switch operation modes, take photos/videos with the camera

Activation command: Hey Cami

The types of voice commands are gimbal control commands, recording control commands, AI tracking control commands, and fill light control commands.

Voice Command List

Voice Command Types	Voice Command	Action
Gimbal Control	Landscape	Gimbal switch to landscape mode
	Portrait	Gimbal switch to portrait mode
	PF Mode	Gimbal switch to PF mode
	L Mode	Gimbal switch to L mode
	F Mode	Gimbal switch to F mode
	POV Mode	Gimbal switch to POV mode
	V Mode	Gimbal switch to V mode
	GO Mode	Gimbal switch to GO mode
	Reset	Gimbal position reset
	Pan Right	Gimbal pan axis rotates clockwise
	Pan Left	Gimbal pan axis rotates counterclockwise
	Tilt Up	Gimbal tilt axis rotates upward
	Tilt Down	Gimbal tilt axis rotates downward
	Stop Moving	Gimbal stop moving

Voice Command Types	Voice Command	Action
Recording Control	Take Photo	Take a photo
	Start Recording	Start recording video
	Stop Recording	Stop recording video
	Switch Camera	Camera switches front/rear camera (only available in ZY Cami App)
AI Tracking Control	Start Tracking	AI tracking starts frames the center target automatically
	Stop Tracking	AI tracking stops stop marking the target
Fill Light Control	Flash	Fill light on
	Flash Off	Fill light off
	Brighter	Fill light brightness adjusted to a level higher
	Dimmer	Fill light brightness adjusted to a level lower
	Max Bright	Fill light brightness adjusted to highest level
	Medium Bright	Fill light brightness adjusted to medium level
	Minimum Bright	Fill light brightness adjusted to lowest level

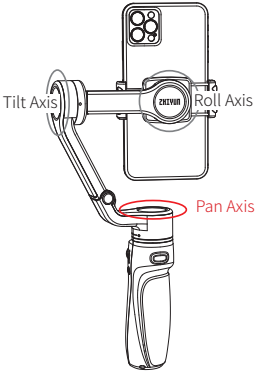
① Voice recognition can reach up to 3 meters, but may be affected by challenging audio environments like noise or multiple sound sources.

Gimbal Mode Description

Motors circled in red are free to move in line with the movement of the gimbal handle while motors circled in grey are locked.

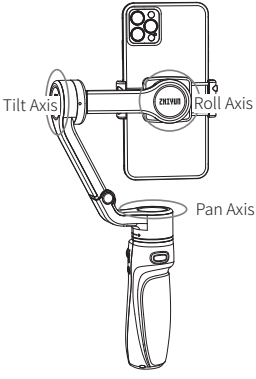
Pan Follow Mode (PF)

The tilt and roll axis motors are locked and the pan axis follows the movement of the gimbal handle. Push the joystick up/down and left/right to control the tilt axis and pan axis.



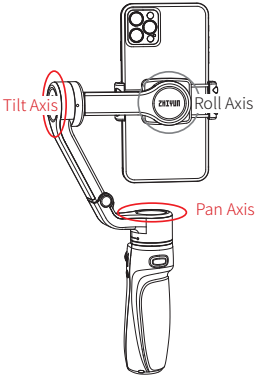
Lock Mode (L)

The three motors are all locked and won't follow the movement of the gimbal handle. Push the joystick up/down and left/right to control the tilt axis and pan axis.



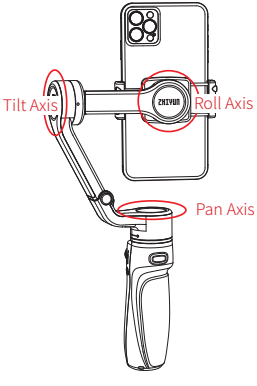
Follow Mode (F)

The roll axis motor is locked. The tilt axis and the pan axis motor follow the movement of the gimbal handle. Push the joystick up/down and left/right to control the tilt axis and pan axis.



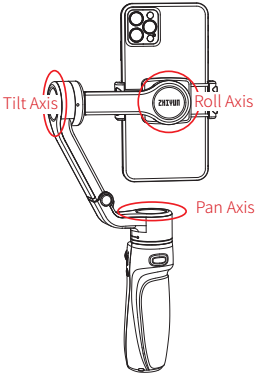
Point of View Mode (POV)

The three motors all follow the movement of the gimbal handle. Push the joystick up/down and left/right to control the tilt axis and pan axis.



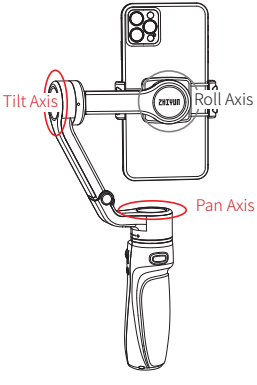
Vortex Mode (V)

The three motors all follow the movement of the gimbal handle. Push the joystick up/down and left/ right to control the roll axis and pan axis.



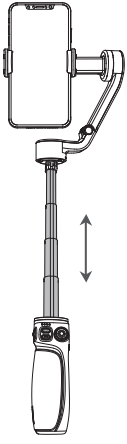
Go Mode (GO)

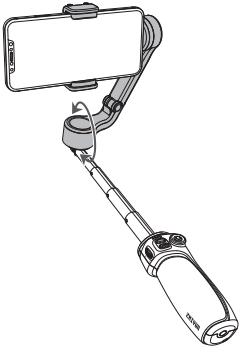
The tilt axis and the pan axis motor follow the movement of the gimbal handle at fast speed while the roll axis is locked. The joystick is disabled.



Using the Extension Rod

There’ s a built-in extension rod in ZHIYUN CINEPEER CQ5 . Pull the extension rod up to enter extension mode. You can adjust the tilt axis angle according to the actual filming scenario.

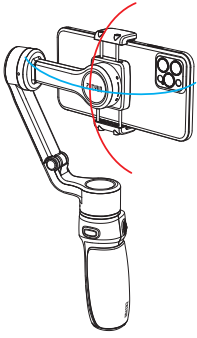




The extension rod's tilt angle can be rotated up to 90° . Please do not exceed the limit to avoid damaging the ZHIYUN CINEPEER CQ5.

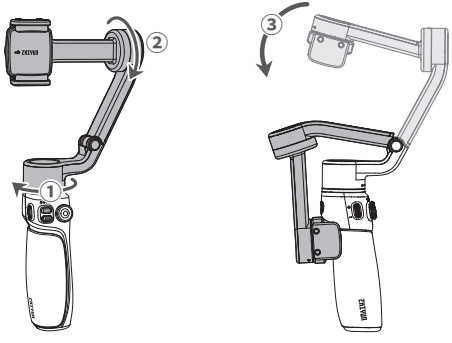
Manual Reposition

In Pan Follow mode (PF), Lock mode (L) and Follow mode (F), the smartphone can be rotated at a certain angle by hand. Hold it for 2s and the smartphone angle will be fixed at that angle after you release the smartphone.



Storage

Please rotate the gimbal to the storage position as illustrated in the figures below.



Download the App

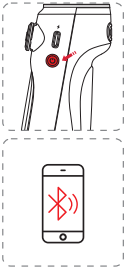
Scan the QR code on the left (Android 7.0 and above, iOS 10.0 and above required) or search "ZY Cami" in App Store or Google Play to download.

① Users can make better use of the various functions of ZHIYUN CINEPEER CQ5 with the dedicated app“ ZY Cami”

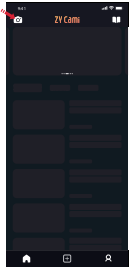
② ZY Cami is subject to update. Please always refer to the latest version.

How to Connect

1. Power on ZHIYUN CINEPEER CQ5 and turn on Bluetooth on the smartphone.
2. Launch the "ZY Cami" app. Tap the camera icon in the upper left corner in the home screen to open the device list and select the ZHIYUN CINEPEER CQ5 device you wish to connect (the ZHIYUN CINEPEER CQ5 Bluetooth name can be checked on the axis arm USER ID: XXXX).
3. ZHIYUN CINEPEER CQ5 requires activation upon first connection with the "ZY Cami" App, otherwise, access to the more advanced features of "ZY Cami" will be unavailable. Once successfully connected, you can proceed with activation as instructed by the App, and an internet connection is required for the activation process on your smartphone.



①



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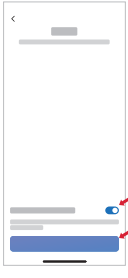


③

App Features Description

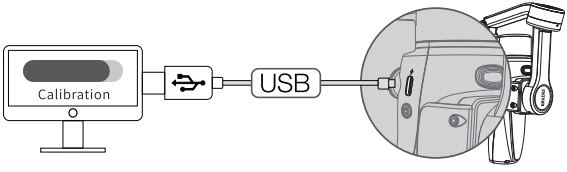
For more details of the " ZY Cami" app features, please visit the official website of ZHIYUN (www.zhiyun-tech.com) and watch ZHIYUN CINEPEER CQ5 video tutorials.

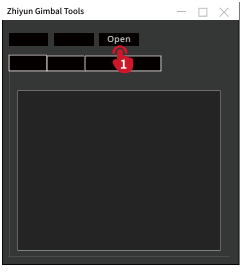
Firmware Upgrade

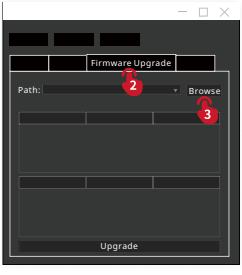
You can use "Zhiyun Gimbal Tools" or "ZY Cami" App to upgrade the firmware of ZHIYUN CINEPEER CQ5.

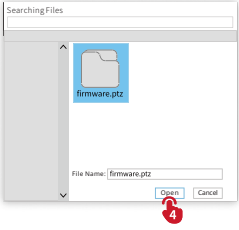
Method 1:

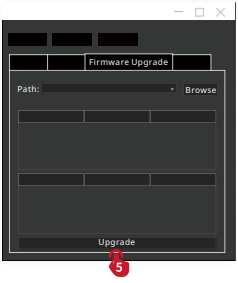
1. Visit the official website of ZHIYUN (www.zhiyun-tech.com), go to the ZHIYUN CINEPEER CQ5 product page, click "Download", find the USB driver, the calibration upgrade tool and the firmware and download. (USB drivers are not required for Mac OS systems).
2. Install the driver and the software, unzip the firmware for the documents with the ".ptz" file extension.
3. Connect the USB-C charging/firmware upgrade port of ZHIYUN CINEPEER CQ5 to the computer with the USB Type-C USB cable, power on ZHIYUN CINEPEER CQ5, and enter standby mode.
4. Open "Zhiyun Gimbal Tools", select the corresponding port, click "Open", click "Firmware Upgrade". Click "Browse" under "Path" to select the latest firmware downloaded (with the ".ptz" file extension), and click "Upgrade" at the bottom to upgrade firmware. When the firmware upgrade finishes, ZHIYUN CINEPEER CQ5 will be automatically turned off.

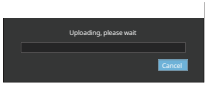












Method Two:

When ZHIYUN CINEPEER CQ5 is connected to“ ZY Cami” app, if a firmware upgrade prompt pops up on the app, please follow the instructions to upgrade. Internet connection is required.

To know how you can connect ZHIYUN CINEPEER CQ5 to“ ZY Cami”, please check the method introduced in "How to Use the App".

Before upgrading the firmware, please ensure that the ZHIYUN CINEPEER CQ5 has more than 50% power remaining. Do not exit the app interface or access in the background during the upgrading process. Pay attention to the prompts on the app.

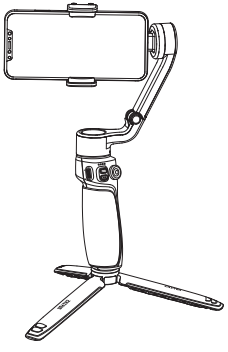
Calibration

Calibration Reason	How to calibrate
1. A slight deviation is found in the tilt angle of the smartphone in level position after power-on. 2. A slight deviation is found in the roll angle of the smartphone in level position after power-on. 3. Frequent small angle correction is found when the smartphone is in a level position when the gimbal stays still.	Gimbal auto-calibration
1. A slight deviation is found in the level position after the autocalibration of the gimbal. 2. The gimbal has not been used for a long time. 3. The gimbal has undergone a significant temperature difference.	Six-side calibration

Auto-Calibration

1. Install ZHIYUN CINEPEER CQ5 onto the tripod and connect to the ZY Cami App.
2. Go to the settings of the app and select "auto-calibration". The ZHIYUN CINEPEER CQ5 will enter the calibration automatically. You can check the progress at the prompt of the app.

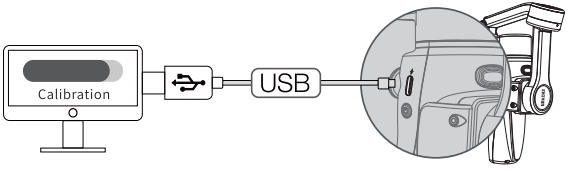
Before the calibration, please make sure the gimbal is straightly put on a flat surface. Please don't touch the gimbal when in calibration.



Six-side Calibration

You can use “Zhiyun Gimbal Tools” to perform six-side calibration for ZHIYUN CINEPEER CQ5.

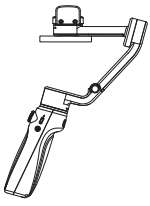
1. Connect the ZHIYUN CINEPEER CQ5 to your computer using a USB Type-C cable, plug the cable into the USB-C port of the CQ5, and turn on the CQ5, then put it into standby mode.
2. Open "Zhiyun Gimbal Tools", click "open" on the top, and click "calibration" on the bottom. Please conduct the process according to the following steps. A "√" mark will appear after the calibration is complete.



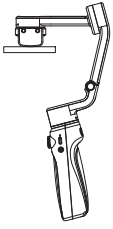
① Please refer to the six-side calibration steps below. When the calibration is complete, please restart the gimbal.

② In simple terms, six-side calibration is to place all six sides of the phone clamp vertically to a level surface respectively.

STEP 1



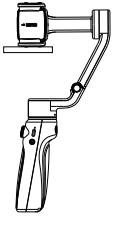
STEP 2



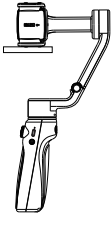
STEP 3

STEP 4

STEP 5



STEP 6



Product Model：SM121

	Min.	Standard	Max.	Remark
Operation Voltage	6.5V	7.7V	8.8V	
Operation Current	100mA	-	3000mA	
Charging Voltage	4.5V	5V	5.5V	
Charging Current			1200mA	
Following Deviation in Static State	± 0.01°	-	± 0.04°	
Following Deviation in Motion State	± 0.05°	± 0.1°	± 0.3°	
Tilt Mechanical Range	-90°	304°	214°	
Roll Mechanical Range	-150°	304°	154°	
Pan Mechanical Range	-60°	285°	225°	
Operation Temperature	-10°C	25°C	45°C	
Charging Ambient Temperature	0°C	25°C	40°C	
Battery Capacity	-	1200mAh	-	
Runtime	2H	-	11H	Lab Data 1
Charging Time	-	2H	-	Lab Data 2

	Min.	Standard	Max.	Remark
Compatible Smartphone Weight	150g	226g	280g	
Mounting Clamp Supporting Range	50mm	-	90mm	
Smartphone Thickness		7mm-10mm		
Extension Rod		215mm		
Fill Light Power	-	2W	-	
Fill Light Illuminance	48(lux)		520(lux)	
Gimbal Net Weight (no accessories)		398g		
Gimbal Size (Folded)		188*124.3*59.3mm		
Gimbal Size (Expanded)		284*123*70mm		
Bluetooth		Bluetooth 5.1		
EIRP		<3dBm		
Operation Frequency		2.402GHz~2.480GHz		
Compatible Model		Smartphones that their width is within the holder's capable width.		

Lab Data 1: This data was obtained at an ambient temperature of 25° C, with an iPhone 15pro(210g) mounted, and the gimbal balanced. The battery life is 11 hours when on standby and 2 hours when in use with two fill lights set to maximum brightness. The actual battery life may vary due to the duration of use of the ZHIYUN CINEPEER CQ5, the number of battery charge and discharge

cycles, and differences in battery activity. The longer the ZHIYUN CINEPEER CQ5 is used, the more charge and discharge cycles the battery undergoes, and the lower the battery activity becomes, the shorter the battery life will be.

Lab Data 2: This data was obtained at an ambient temperature of 25° C using a 5V/2A USB adapter for this test, with a charging time of 2 hours. Charging time may vary due to environmental factors, and actual results may differ. Additionally, the lower the charging ambient temperature, the smaller the charging current, and the longer the charging time will be extended.

All the data in this guide is collected from internal experiments of ZHIYUN laboratories. Under different scenarios, the above data is subject to a margin of error. Please refer to the actual use of this product.

Thank you for purchasing this product. The information contains herein affects your safety, legitimate rights and obligation. Please read this instruction carefully to ensure proper configuration before use. Failure to read and follow this instruction and warnings herein may result in serious injury to you or bystanders, or damage to your device or property. Guilin Zhishen Information Technology Co., Ltd (hereinafter referred to as "ZHIYUN") reserves all rights for final explanation of this instruction and other documents related to this product. The information is subject to update without notice. Please visit www.zhiyun-tech.com to obtain 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.

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Reading Tips

Legends: Hints and Tips Important

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

1. This product is a high-precision control device. Damage may be caused to this product if 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 this product is turned on.
3. This product is not waterproof. Prevent contacts of any kind of liquid or cleaner with the this product. It is recommended to use dry cloth for cleaning.
4. Protect this product from dust and sand during use.

Warranty Period

1. Customers are entitled to replacement or free repair service in case of quality deficits 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 selling. However, warranty period varies by product component and country of purchase. Please contact our after-sales service team on ZHIYUN official website or your place of purchase for detailed warranty information.

Warranty Exclusions

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 assistance, or you can always contact ZHIYUN's customer service through email at info@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:		Phone Number:	
Address:			
Sales Information			
Sales date:		Product Serial Number:	
Distributor Name:			
Distributor' s Contact Number:			
First Maintenance Record			
Service Date:		Repairman Signature:	
Cause of Problem:			
Service Result:	☐ Solved	☐ Unsolved	☐ Refunded/Replaced

Website

Weibo

Vimeo

Google+

Facebook
(Zhiyun Support)

Facebook
(Zhiyun Tech)

Youku

Youtube

Wechat

Instagram

Contact Card

Tel: +86 400 900 6868
USA Hotline: +1 808-319-6137,9:00-18:00 GMT-7,Mon-Fri
Europe Hotline: +49 (0) 61018132180,10:00-17:00 GMT+1,Mon-Fri
Web: www.zhiyun-tech.com
E-mail: info@zhiyun-tech.com
Address: 09 Huangtong Road, Tieshan Industrial Zone, 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: _____

QC PASS 02

For full product information, please visit ZHIYUN's official website: Content on www.zhiyun-tech.com is subject to update without notice.

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