

The following features are available in this PDF document.



### **Quick Keyword Search**

Enter the keyword in the search box and hit the search button



### **Quick Jump between Chapters**

Click the title of a specific chapter on the Contents to jump to it

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



# **ZHIYUN CINEPEER CX50RGB COB Light**

## User Guide

# Contents

□ Brief Introduction	
Brief Introduction	1
□ Product List	
Product List	3
□ Get to Know ZHIYUN CINEPEER CX50RGB COB Light (hereinafter referred to as “the light”)	
Get to Know ZHIYUN CINEPEER CX50RGB COB Light	4
□ Battery and Charging	
Battery and Charging	5
□ Installing and Removing Reflector	
Installing the Reflector	7
Removing the Reflector	7
□ Installing and Removing dome diffuser (hereinafter referred to as "dome diffuser")	
Installing dome diffuser	8
Removing dome diffuser	8
□ Installing the Tripod	
Installing the Tripod	9
□ Using with a Light Stand	
Using with a Light Stand	10
□ How to Use ZHIYUN CINEPEER CX50RGB	
Buttons and Knobs	11
Operation Instruction	12







❑ Firmware Upgrade	
❑ Product Specifications	
❑ Disclaimer and Warnings	
Reading Tips	19
Safe Operation Instructions	19
❑ Warranty Card	
Warranty Period	20
Warranty Exclusions	20
Warranty Claim Procedure	20
❑ Contact Card	

## Brief Introduction

ZHIYUN CINEPEER CX50RGB is a high-power, portable, full-color fill light. It boasts a stylish appearance and compact size, and supports RGB adjustment functions. It also features a variety of creative light effects, making professional light effects easily achievable. The product has the following highlights:

1. Lightweight, portable and easy to use.
2. Features adjustable brightness/color temperature/hue/saturation, suitable for a wide range of applications.
3. Features high color rendering performance for accurately restoring the original color of objects.
4. Features DynaVort Cooling System™ for excellent heat dissipation.
5. Features rich RGB light effects for creative shooting.
6. Supports Bluetooth mesh networking and APP remote dimming for more efficient light control.
7. Supports multiple power supply methods, including built-in battery, USB adapter, and DC power adapter, eliminating runtime concerns.
8. Offers various installation and usage methods, can be handheld, mounted on a tripod, or used with a light stand.

### **WARNING**

-  This product is not waterproof. Prevent contact with any kind of liquid with the ZHIYUN CINEPEER CX50RGB. Never use the product in the rain or a humid environment.
-  If water accidentally enters the device when using, please stop using it immediately and contact the company or authorized maintenance personnel for maintenance, and continue to use it only when the maintenance is finished.
-  Do not expose this product to corrosive chemicals, inflammable and explosive materials.
-  Do not touch the heating part when the product is working to avoid getting burned.
-  Do not wrap or block the fans to avoid cooling effect damage.
-  Do not turn the product directly to the eyes to avoid eyesight damage.

 Do not expose this product to an environment above 40°C .

 Battery safety precautions:

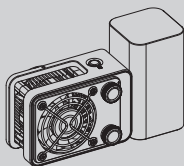
- ① It is strictly prohibited to use batteries that are not provided by ZHIYUN.  
If you need to replace the battery, please contact ZHIYUN or designated agents. ZHIYUN will not be responsible for any battery accidents or equipment malfunctions caused by using batteries that are not officially provided by ZHIYUN.
- ② If the battery bulges, leaks, or has other abnormalities, please stop using it immediately and contact ZHIYUN customer service or designated agents for further processing.
- ③ Do not completely discharge the battery and store it for a long time to prevent the battery from entering an over-discharged state and causing damage to the battery cell, which may make it impossible to recover and reuse.

### BE CAREFUL

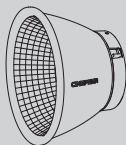
1. This product is a high-precision control device. Damage may be caused to the product if dropped or subject to external force, and this may result in malfunction.
2. Please keep your hands dry while using the product and use soft dry cloth for cleaning.
3. Keep this product out of the reach of children.
4. When not using this product, please disconnect the external power supply.
5. Do not place any other items on top of this product to avoid damage to this product.
6. Protect the product from dust and sand during use.
7. Before storing this product, please make sure it is completely cooled and store it in a dry and ventilated place.
8. Do not disassemble this product on your own. In the event of malfunctions, it should be repaired by ZHIYUN or authorized maintenance personnel.

**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.



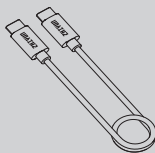
Fill Light x1



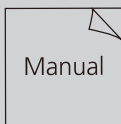
Reflector x1



Silicone Dome diffuser x1

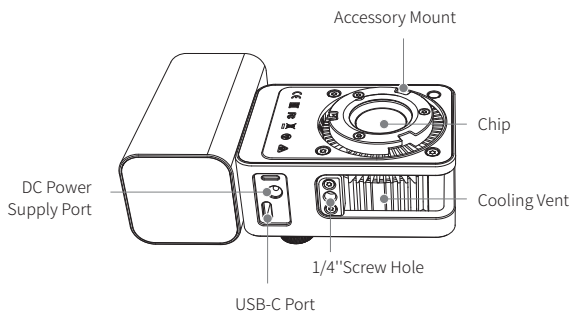
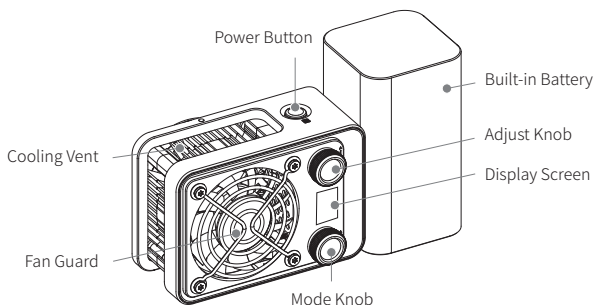


USB-C Cable x1



Quick Start Guide x1

## Get to Know ZHIYUN CINEPEER CX50RGB COB Light

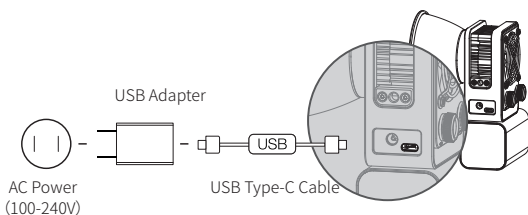




## Battery and Charging

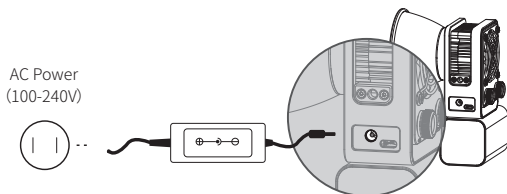
This product features a built-in battery. Before first use, please fully charge the light to activate the battery. To ensure smooth operation of the product, please use the following methods for charging:

- ① **Power via USB adapter:** Use the provided USB Type-C charging cable to connect the USB adapter (not provided) and the USB-C power supply port of the light. Plug the adapter into the AC socket to power the light. It is recommended to use an adapter that supports PD fast charging protocol. When using the light while charging, the USB adapter will prioritize powering the light, and any remaining power will be used to charge the battery. The battery charging power supports up to 30W.



💡 Please power off the light to charge.

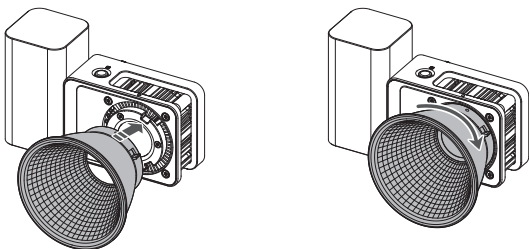
- ② **Power via DC power adapter:** Connect the DC power adapter to the DC power supply port and an AC socket to power ZHIYUN CINEPEER CX50RGB.



- 💡 It is recommended to use a 24V/2.7A DC power adapter to charge the light. Please note that the DC power adapter is not included and needs to be provided separately.

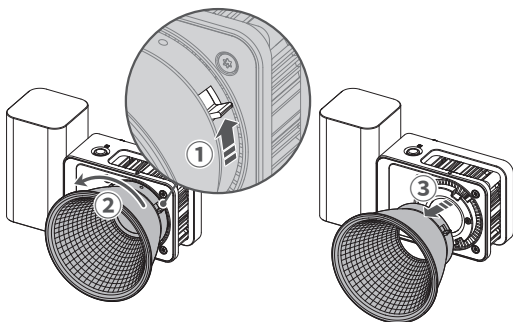
## Installing the Reflector

Align the reflector mount with the ZHIYUN CINEPEER CX50RGB accessory mount. Install the reflector to the ZHIYUN CINEPEER CX50RGB and rotate the reflector as shown in the image until you hear a click sound. The reflector is then installed.



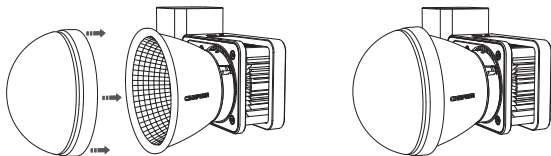
## Removing the Reflector

Toggle the lock to another side ① and turn the reflector as shown in the image ②. Remove the reflector from the accessory mount ③.



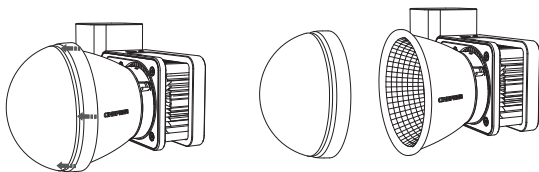
## Installing dome diffuser

Install the reflector to ZHIYUN CINEPEER CX50RGB. Expand the dome diffuser as shown in the image, and align the opening of the dome diffuser with the reflector. Engage the ring groove of the dome diffuser in the reflector.



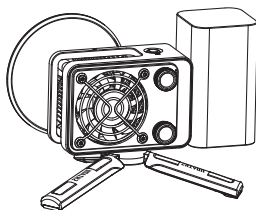
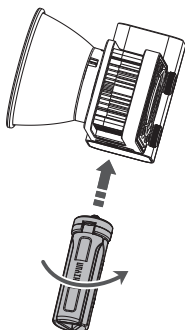
## Removing dome diffuser

You can remove the dome diffuser from the reflector with your hand.



### Installing the Tripod

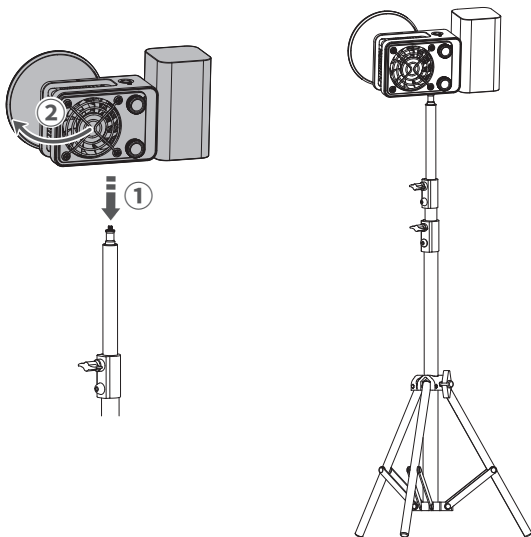
Align the 1/4" screw of the tripod with the 1/4" threaded hole at the bottom of the ZHIYUN CINEPEER CX50RGB. Drive the screw firmly to finish the installation.



💡 Tripod is not provided.

## Using with a Light Stand

Align the 1/4" screw hole at the bottom of the light with the 1/4" screw at the top of the light stand, then mount the light body onto the stand.



💡 Light stand is not provided in the product package.

⚠ DO NOT stare at the chips when the device is operating.

⚠ The IP rating of the outer case is IP20.

## Buttons and Knobs



Long press the power button+turn the Adjust knob/  
 Mode knob: Power on (powered by battery)  
 Long press the power button: Power on (powered by  
 USB/DC)/power off  
 Triple press the power button: Reset Bluetooth



### Mode knob:

Single press: Switches to the fill light mode.  
 Double press: Switches to the previous mode.  
 Turn: Switches options (submenu).  
 Adjusts parameters (in CCT mode).



### Adjust Knob:

Single press: Quickly adjusts the current parameter.  
 Confirm (submenu).  
 Turn: Adjusts the current parameter.


## Operation Instruction

### 1. CCT Mode Settings

Single press Mode Knob to switch to CCT mode. Single press or turn the Adjust Knob to adjust brightness. Turn the Mode Knob to adjust color temperature.

Dimming range: 0-100%

Color temperature adjustment range: 2700K-6500K.

CCT	
DIM:	100%
CCT:	5500K


### 2. HSI Mode Settings

Single press Mode knob to switch to HSI mode. Turn the Mode knob to switch to dimming/hue/saturation options. Single press or turn the Adjust knob to adjust the value.

Dimming range: 0-100%

Hue adjustment range: 0° -360°

Saturation adjustment range: 0-100%

HSI	
DIM:	100%
HUE:	120°
SAT:	100%




### 3. RGB Mode Settings

Single press Mode knob to switch to RGB mode. Turn the Mode knob to switch to RGB options. Single press or turn the Adjust knob to adjust the value.

RGB adjustment range: 0-100%

Dimming range: 0-100%

RGB		
R:	100%	
G:	30%	
B:	50%	▼

### 4. FX Mode Settings


Single press Mode knob to switch to FX mode. Turn the Mode knob to switch to FX/dimming/speed/color temperature options. Single press or turn the Adjust knob to adjust the value.

**FX types:** SOS, Paparazzi, Candlelight, Faulty Bulb, TV, Lightning, Strobe, Explosion, Welding, Color Temperature Loop, Color Temperature Flash, Color Temperature Pulse, Police Car, Party, Fireworks, Color Loop, Color Flash, Color Pulse.

Dimming range: 0-100%;

Speed adjustment range: 1-5;

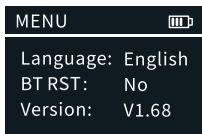
Color temperature adjustment range: 2700K-6500K;


FX		
FX:	SOS	
DIM:	100%	
SPD:	5	▼

- ① The adjustable parameters vary under different light effects and the operation steps are similar. The “SOS” effect is used as an example to demonstrate the operation steps above.
- ② The parameter values in a single light effect are only effective for that light effect.

## 5. Menu Settings

Single press Mode knob to switch to Menu. Turn the Mode knob to switch to language/Bluetooth reset, Turn the Adjust knob to adjust the chosen option. Finally, press the Adjust knob once to confirm.

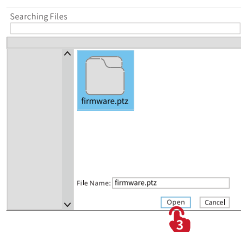
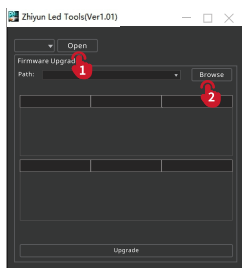
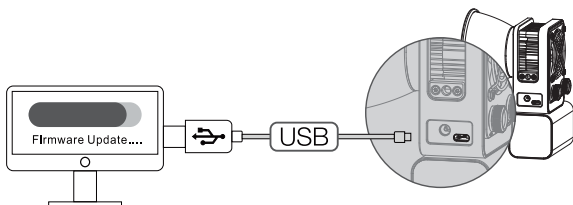


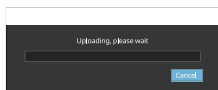
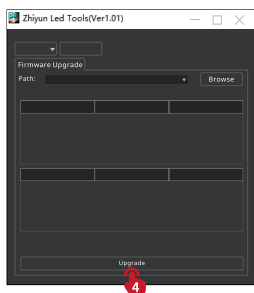
 Under the "MENU" option, you can also check the firmware version information for the ZHIYUN CINEPEER CX50RGB.

You can use “Zhiyun Led Tools” or “ZY Vega” to perform the ZHIYUN CINEPEER CX50RGB firmware upgrade.

Method 1:

1. Visit the official website of ZHIYUN ([www.zhiyun-tech.com](http://www.zhiyun-tech.com)), go to the CX50RGB product page, click "Download", find the Zhiyun Led Tools and the firmware and download.
2. Unzip the firmware for the files with the ".ptz" file extension.
3. Connect the USB-C port of CX50RGB to the USB port of the computer with the USB Type-C cable.
4. Open "Zhiyun Led Tools", click "Open". Click "Browse" under "Path" to select the latest firmware downloaded (with the ".ptz" file extension), and click "Upgrade" at the bottom to upgrade firmware. CX50RGB will automatically turn off when the upgrade is finished.





Method 2: The firmware of the CX50RGB can be upgraded using the "ZY Vega" app. For more detailed instructions, please visit the ZHIYUN official website at [www.zhiyun-tech.com](http://www.zhiyun-tech.com) and watch the related video tutorials for the CX50RGB.

- ① When using Method 1 for the upgrade, please wait until the screen displays that the upgrade is finished, then you can plug out the USB Type-C cable.
- ② Before upgrading the firmware, please ensure that the CX50RGB has more than 50% power remaining. You can not exit the app interface or access in the background during the upgrading process. Pay attention to the prompts on the app.

Product Model: PLX109

<b>Input Power</b>	50W	
<b>Battery Capacity</b>	4500mAh/66.6Wh	
<b>Dimming Range</b>	0-100%	
<b>Color Temperature Range</b>	2700K-6500K	
<b>RGB</b>	0° -360°	
<b>CRI/TLCI</b>	CRI $\approx$ 95 TLCI $\approx$ 96	
<b>Illuminance (maximum power, without reflector)</b>	1130(lux)	Lab Data1
<b>Illuminance (maximum power, with reflector)</b>	4140(lux)	Lab Data2
<b>R Illuminance</b>	178(lux)	
<b>G Illuminance</b>	754(lux)	Lab Data3
<b>B Illuminance</b>	174(lux)	
<b>Runtime (Max power)</b>	60min	Lab Data4
<b>Charging Time</b>	2H 20min	Lab Data5
<b>DC Power Supply Voltage</b>	24V	
<b>USB Supply Power/ Voltage</b>	P $\geq$ 18W U $\geq$ 9V	

<b>Operation Temperature</b>	-10°C -40°C	
<b>Charging Ambient Temperature</b>	0°C -40°C	
<b>Control Methods</b>	On-Board/Bluetooth App Control	
<b>Cooling Method</b>	Active Cooling	
<b>Product Size (without reflector)</b>	152.6*57.1*94mm	W*D*H
<b>Product Net Weight (without standard reflector)</b>	597g	

Lab Data 1: The data is collected in the following conditions: No reflectors, 25°C temperature, indoor illuminance lower than 0.1lux, test distance 1m, and the color temperature is set at 4300K with 100% brightness. The illuminance is 1130lux. The actual illuminance varies under different conditions.

Lab Data 2: The data is collected in the following conditions: Installed reflector, 25°C temperature, indoor illuminance lower than 0.1lux, test distance 1m, and the color temperature is set at 4300K with 100% brightness. The illuminance is 4140lux. The actual illuminance varies under different conditions.

Lab Data 3: With 25°C temperature, indoor illuminance lower than 0.1lux, and 1m test distance, set the product at 100% saturation and 100% brightness, and the red/green/blue illuminance is 178ux/ 754lux/ 174lux. The actual red/ green/blue illuminance varies under different conditions.

Lab Data 4: The data is collected in the following conditions 25°C temperature, CX50RGB is fully-charged, and the color temperature is set at 4300K with 100% brightness. The battery runtime is 60 min. The actual grip battery runtime varies under different conditions: the longer the operating time, the higher the charge and discharge frequency, and the less the battery activity, leading to a shorter battery runtime.

Lab Data 5: The data is collected at a specified temperature of 25°C with 30W(20V/1.5A) PD Fast Charging. The charging time of the light is 2h 20 min. The actual charging time varies under different conditions: the lower the charging temperature, the lower the charging current, leading to a longer charging time.

Thank you for purchasing this product. The information contained herein affects your safety, legitimate rights and obligations. 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](http://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.

ZHIYUN™ is the trademark of Guilin Zhishen Information Technology Co., Ltd and its affiliates. All product names or trademarks referred to herein are trademarks or registered trademarks of their respective holders.

### Reading Tips

Legends:  Hints and Tips  Important

### Safe Operation Instructions

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.

### 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](mailto:info@zhiyun-tech.com) or website at [www.zhiyun-tech.com](http://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

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](http://www.zhiyun-tech.com)

E-mail: [info@zhiyun-tech.com](mailto: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: \_\_\_\_\_



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

ZHIYUN™ is a trademark of ZHISHEN

All product names or brands referred to hereunder may be trademarks or registered trademarks of their respective holders.

Copyright © 2025 ZHISHEN. All rights reserved.

## **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 requirement. The device can be used in portable exposure condition, compliance with exposure requirements.

ZHIYUN-TECH.COM