

Ages 14+

uDiRC

WINGS[®]

Equipped with 120° wide-angle 720P HD WIFI Camera

Super Selfie Producer



U29S-E

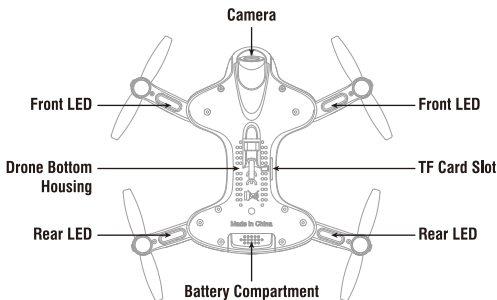
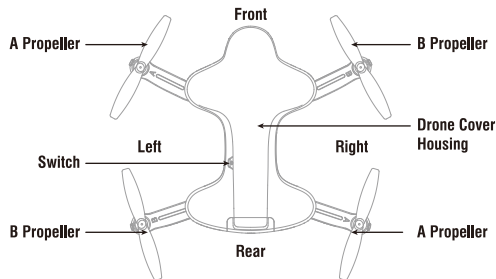
User Manual

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Instruction for Drone

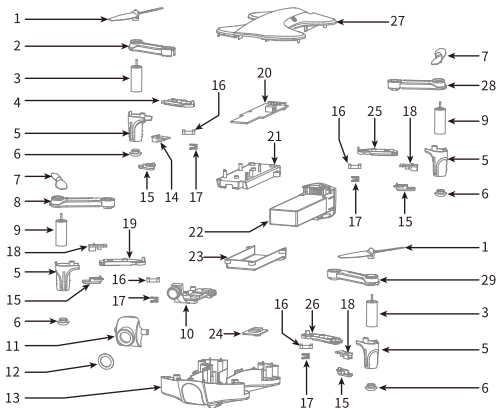
Drone



Specifications

Drone Size (Unfolded)	155x194x42.5mm	Charging Time for Drone Battery	60~70mins
Drone Size (Folded)	119x76x42.5mm	Max Flying Distance/Radius	50m
Drone Weight	98.8g	Max Streaming Video Range/Radius	30m
Propeller Diameter	66mm	Camera Resolution	1280x720P
Flying Time	5.5~6.5 mins	Frequency	2.4Ghz
Drone Battery	7.4V 350mAh	Main Motor	8520x4

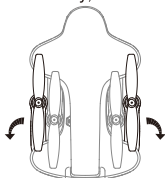
Exploded View



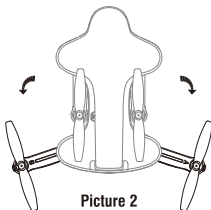
No.	Name	No.	Name
1	A Propeller (Clockwise)	15	LED Lampshade
2	Right Rear Bracket Upper Cover	16	Bracket Buckle
3	Clockwise Motor (Red Connector)	17	Spring
4	Right Rear Bracket Lower Cover	18	Front LED Board (Green)
5	Motor Cover	19	Right Front Bracket Lower Cover
6	Cushion	20	Receiver Board
7	B Propeller (Counter-clockwise)	21	Battery Upper Cover
8	Right Front Bracket Upper Cover	22	Drone Battery
9	Counter-clockwise Propeller (White Connector)	23	Battery Lower Cover
		24	Optical Flow Board
10	Camera Board	25	Left Rear Bracket Lower Cover
11	Camera Cover	26	Left Front Bracket Lower Cover
12	Camera Lens	27	Drone Cover Housing
13	Drone Bottom Housing	28	Left Rear Bracket Upper Cover
14	Rear LED Board (Red)	29	Left Front Bracket Upper Cover

Unfolding Instruction

Pull out the arm bracket as per the below arrow shown (Picture 1) , it will make a click sound, then it means fully unfolded(Picture 2). On the contrary, then it's folded.

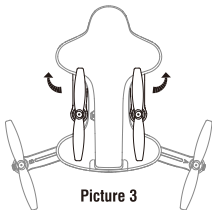


Picture 1

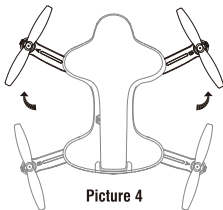


Picture 2

Pull out the arm bracket as per the below arrow shown (Picture 3) , it will make a click sound, then it means fully unfolded (Picture 4). On the contrary, then it's folded.



Picture 3



Picture 4

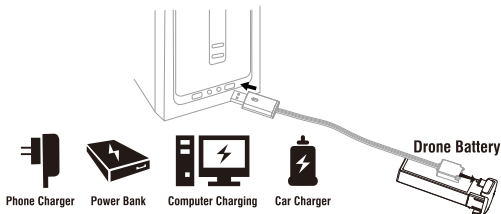
Note: Improperly operation may cause damage to the bracket part.

Installing & Removing Component

Charging Instruction for Drone Battery

1. Connect the drone battery with USB cable first and then choose one of the method as below picture shown to connect with USB plug.
2. The red USB indicator light keeps bright when charging and the light turns green when fully charged.

*** For faster charging, it is recommended to use an adapter with 5V 2A output current (not included) to charge the battery**



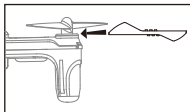
Drone Battery Li-Po Battery Disposal & Recycling

Wasted Lithium-Polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the supplier of your model or your nearest Li-Po battery recycling center.

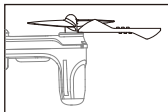


Propeller Installation Diagram

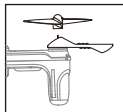
1. To remove the propeller, insert the wrench to the gap between propeller and motor(Picture 5/6), press down the wrench and pull up the propeller in the vertical direction(Picture 7).



Picture 5



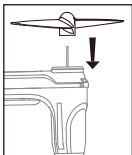
Picture 6



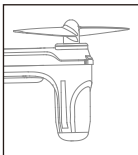
Picture 7

2. To install the propeller , first mount propeller on transmission shaft of the motor and press down (Picture 8). Installed propellers bottom should be in the same surface level of the motor housing (Picture 9).

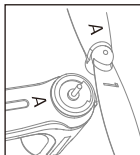
(Please be sure that the propeller rotating direction is correct)



Picture 8



Picture 9

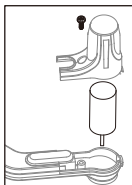


Picture 10

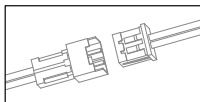
Note: Be sure that the A propeller is on the arm marked with “A” letter, and the B propeller is on the arm marked with “B” letter (Picture 10).

Motors Replacement

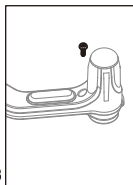
1. To remove the motor, as per above Picture 5/6/7, first remove the propeller, and then remove the screw of motor holder(Picture 11), pull out the motor holder, unplug the motor connector and then take out the motor.
2. Plug the required motor connector into the motor socket (Picture 12),and put the motor into upper holder and then lower holder, and tighten the screw (Picture 13), finally install the propeller as per above Picture 8/9.



Picture 11



Picture 12



Picture 13

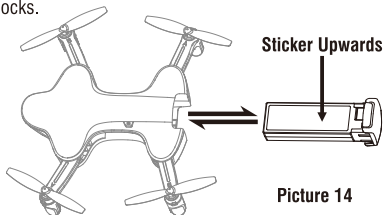
WARNING: The motor's rotating direction should be the same, or it will not work.

Note: The motor is consumable. If it is damaged, visit the local seller to buy the new motor for replacement.

Installing & Removing Battery

To remove the battery, pinch the grips at the rear of the battery and then pull out the battery(Picture 14).

To install the battery, insert the Li-po battery to drone slot, push it in until it locks.



Picture 14

Notice: When assembling, please take care of the Li-po battery direction and the battery sticker should be in upper side.

Pre-Flight Checklist

1. Make sure the battery of the drone is fully charged.
2. Make sure the connections are solid between battery, motor and so on. The ongoing vibration may cause bad connection of power terminal and make the drone out of control.
3. To check the direction of the rotating propellers. The left front and right rear propellers A rotate clockwise while the right front and left rear propellers B rotate counterclockwise.
4. Improper operation may cause crash of the drone, which may arouse motor or propeller defective and noisy, and then effect the flying status or even stop flying. Please go to the local seller to buy new parts for replacement so that the drone will return to its best status.
5. The camera is in front of the drone. Keep the front of the drone away from you before flight.

To know your APP

Download and Install the APP: Flyingsee

The APP is applicable for mobile phone with iOS and Android system, please download from the mobile phone software store:

1. For Apple device with iOS system, please search Flyingsee in App Store.
2. For Android device with Android system, please search Flyingsee in Google Play.
3. Scan the QR code on the right or the QR code in the box to download Flyingsee.



Available on the
App Store



ANDROID APP ON
Google play

Using the Flyingsee APP

Pairing your device with the drone

1. Install the Li-po battery into the drone and power on the drone. Put the drone on a flat surface in a horizontal position. (Very Important)



Press the switch 2 seconds to power on the drone.



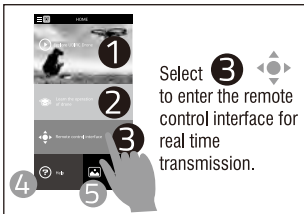
**PUT THE DRONE ON A
FLAT SURFACE !**

2. Enter your device's set up screen, turn on Wi-Fi (WLAN) and choose udirc-***, Return to main screen after successful connection.

3.



4.



1 Go to UIDRC official website for more information about our products.


2 Download the manual and learn how to fly the drone properly.

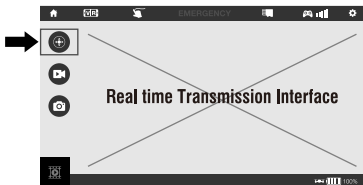
4 Help & Tips.

5 View your photos or videos.

Frequency Pairing

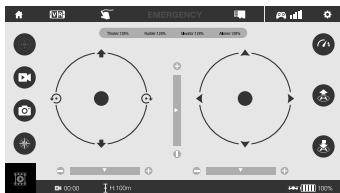
Select **3** to enter the remote control interface for real time transmission.

Tap the  icon in pop-up window. Enter to the virtual remote interface, the drone body LED lights change from flashing to solid, indicating that the pairing is successful and the drone is ready for fly.



Learn all the APP icons first

Virtual Control Interface



Introduction to the APP Icons



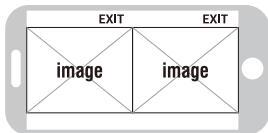
Home Page Icon

Tap to go back to the Home Page.



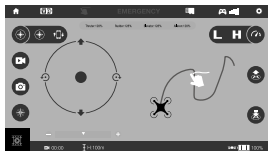
Virtual Reality Mode

Tap this icon to enter Virtual Reality Mode to experience first person view (only available when using a VR headset). Tap again to exit from Virtual Reality Mode.



Flight Route Setting Mode

Tap this icon to enter Flight Route Setting Mode. Draw a flight route in the right area. The drone will fly according to the flight route. Tap again to exit from this mode.





EMERGENCY EMERGENCY

The icon is red by default. Tap this icon and the propellers will stop immediately. The drone will fall straight to the ground. Do not use the EMERGENCY function except in an emergency.



TF Card Icon

When TF card has not been inserted to the drone camera, then the icon will show , when the TF card is in, then the icon shows .



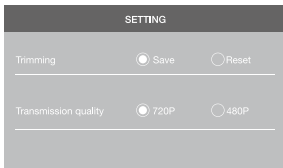
Remote Control Signal

To show the strength of WiFi signal of the drone.



Setting

Tap this icon to set parameters. Tap again to exit.



Tap "Save" to save trimmer setting.

Tap "Reset" for factory reset.

Select the picture transmission resolution.



The choice of Remote Control Mode



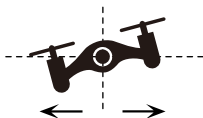
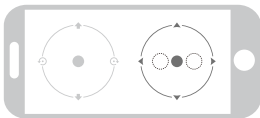
Remote Control

The virtual remote controller is hidden by default. Tap the icon to display the virtual remote controller.

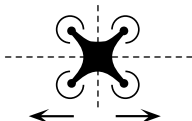
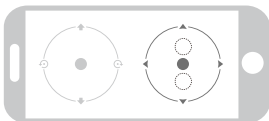


Gravity Induction Mode

Tap this icon to enter Gravity Induction Mode. Tilt the phone to fly left / right and forward / backward. Tap again to exit from Gravity Induction Mode.




If the mobile phone tilts to the left / right, the Right Ball will move accordingly enabling the drone to fly left / right.



If the mobile phone tilts to forward / backward, the Right Ball will roll forward / backward enabling the drone to fly forward / backward.



Record Video

Tap to record video. The recording time will display  00:00 at the bottom of the screen. Tap again to stop recording.



Take Photo

Tap to take a photo.



Heading Hold Mode

Tap and it turns red, indicating that the drones has entered Heading Hold Mode.

Tap again to exit from Heading Hold Mode. The icon turns white.



Access Media

Tap to view or delete the aerial video and photo. Tap the Home Page icon to exit.



High / Low Speed Mode

By default , the drone is in Low Speed. Tap “H” to enter High Speed Mode.



One Button Take Off

Click on this icon and it turns red shortly. The drone will fly up automatically and stay flying at an altitude of 1.2 meters.



One Button Landing

Tap this icon, the drone will fly down slowly and land on the ground. All propellers will stop.

H:0.1m

Flying Altitude

The real time flying altitude(Based on the calibration altitude)



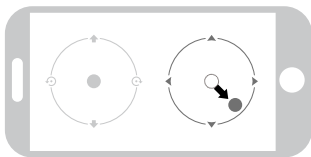
100%

Drone Battery Level

When the drone battery capacity left around 15%, the phone will vibrate to alarm that the battery is going to run out and you need to fly back and replace the battery as soon as possible.

APP CALIBRATION**(Do not calibrate before successful frequency pairing)**

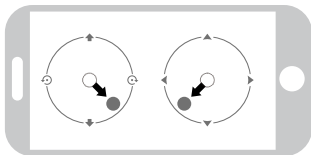
Move the right ball outward 45 degree (Do not touch the left ball). The drone body light will flash 3 times, and then become solid , indicating calibration is complete and the drone is ready to be controlled.



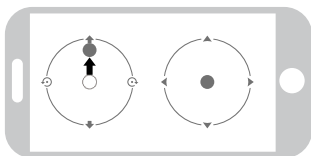
Tips: Crashing the drone may cause it to become imbalanced beyond the level that can be adjusted by the trimmer button. If this occurs, you can do the connection with Wi-Fi , pairing and calibration.

Take Off

Move the **left ball** and **right ball** at the same time 45 degrees inward.
(This operation is used for start / lock the motor. When the motor is working, it could be used to stop the motor urgently.)

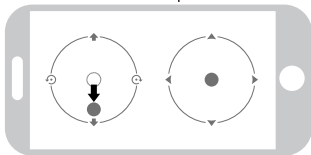


Move the **left ball** up slowly, the drone will take off.




Landing


Move the **left ball** down to the lowest position. The drone will land.



Flying Control

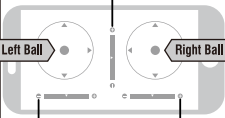


To fly up or down:
Move the Left Ball up to fly up and move the Left Ball down to fly back down. The drone will continue flying at appointed altitude after release the ball.



To rotate left or right:
Move the Left Ball to the left to rotate the drone to the left. Move the Left Ball to the right to rotate the drone to the right.

If the drone tilts forward or backward
Click the "-" of the Forward /Backward Trim to adjust the drone if the drone tilts forward. Click the "+" to adjust the drone if the drone tilts backward.




Left Ball


Right Ball

If the drone rotates to left or right
Click the "+" of the Left/Right Rudder Trim if the drone rotates left. Click the "-" if the drone rotates right.

If the drone tilts to the left or right
Click the "+" of the left /Right Flying Trim if the drone tilts to the left Click the "-" to adjust the drone if the drones tilts to the right.



To fly right or left
Move the Right Ball to the left to fly the drone to the left. Move the right ball to the right to fly the drone to right.

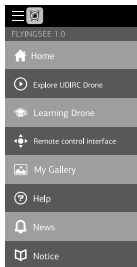


To fly forward or backward:
Move the Right Ball up to fly the drone forward, and move the Right Ball down to fly the drone backward.

Notice:

1. If you can not find the Wi-Fi signal to connect, turn off Wi-Fi and turn on again to search and connect.
2. The available Wi-Fi control radius/distance is 20m, please control the drone within this range.
3. When alternating control from mobile phone to transmitter, the transmitter left stick must be in the center position, or exit from the APP. If not then you can not control the drone alternately.

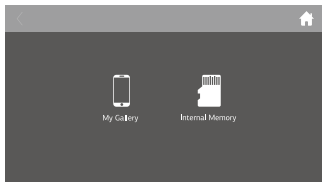
Display the photos and video



Main menu



To view the photos and videos.



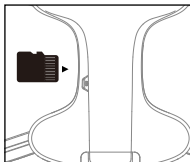
Media interface

Notice: App must be authorized to access the phone gallery, if not, then may be unavailable to display the video and photos.

The photos are stored in the local phone gallery and TF card, the video is only stored in the TF card, you need to download the video to the phone gallery and display it. Please download the video as per APP instruction.

To take photo and record video

1. Insert the TF card to the slot in accordance with Picture 17.
(*TF card is not included)



Picture 17

2. The aerial photo will be saved in your mobile phone and the TF card, while the video only be saved in the TF card. But you can download the video to the mobile phone or view the video on the phone only when the mobile phone connecting with the drone Wi-Fi and the TF card in the drone.

Tip: Tap the video icon to save a video when ending recording, or the video cannot be saved.

3. Power off the drone first when finish aerial photography. Take out TF card and insert the card to a card reader. Connect the card reader with computer USB port. After a while, view the aerial photography data from “my computer”-”mobile disk”.

Tip: Please play the video or photo after coping all aerial photography data to computer and make sure the play software can support AVI format.

Basic parameter for aerial camera: Video DPI 1280*720P
Image Size 1280*720P.

Low Battery Alarm

When the drone battery level is lower than 15%, your smart device will alarm with vibration . Please land the drone and replace the battery as soon as possible.

Motors Stuck Protection

1. When the propellers get stuck, the drone LED will flash quickly and activate stuck protection function and the motors will stop running.
2. Pull down the Left Stick to the lowest position . The drone LED becomes solid and stuck protection will be released , and the drone can fly again.

Positioning Hold Mode

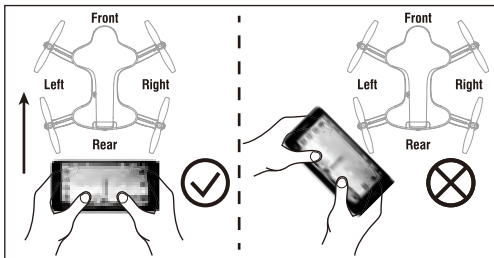
Position Hold Mode allows the drone to maintain a consistent position while allowing roll, pitch , and yaw to be controlled normally. The Positioning Mode and Altitude Hold Mode makes the drone more stable for aerial photography.

Notice: The ideal altitude of position hold is within 8m. The Position Hold can not work well when flying too high or flying in the dark light or evening.

Heading Hold Mode

Drones generally have a front and rear, indicated by LED lights or colored propellers, and the user must know their orientation in order to use left and right turns appropriately. With Heading Hold Mode, left is left and right is right all the time, regardless of the drone's orientation. Heading Hold Mode is designed for beginners, and for users who fly the drone in daylight, at a far distance, or whenever it is difficult to identify the drone's orientation. You can activate Heading Hold Mode before taking off or in flight.

Warning: Before activating Heading Hold Mode, be sure that the drone's front is your front. If not, the drone might become out of control or lose !!!



Spare Parts

For convenience, the spare parts are listed for you to choose, which can be purchased from the local seller.



U29S-E-01
Drone Housing Cover



U29S-E-02
Drone Bottom Housing



U29S-E-03
A propeller



U29S-E-04
B propeller



U29S-E-05
Right Front Bracket
Upper Cover



U29S-E-06
Right Front Bracket
Lower Cover



U29S-E-07
Right Rear Bracket
Upper Cover



U29S-E-08
Right Rear Bracket
Lower Cover



U29S-E-09
Left Front Bracket
Upper Cover



U29S-E-10
Left Front Bracket
Lower Cover



U29S-E-11
Left Rear Bracket
Upper Cover



U29S-E-12
Left Rear Bracket
Lower Cover



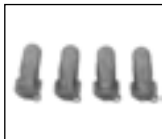
U29S-E-13
Bracket Buckle



U29S-E-14
Motor Holder



U29S-E-15
Camera Head Cover



U29S-E-16
LED Hood



U29S-E-17
Battery Cover Housing



U29S-E-18
Battery Bottom Housing



U29S-E-19
Clockwise Motor
**(Red and blue wire/
Red Connector)**



U29S-E-20
Counter Clockwise Motor
**(Black and white wire/
White Connector)**



U29S-E-21
Cushion



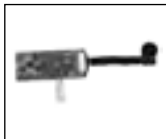
U29S-E-22
Spring



U29S-E-23
Camera Cushion



U29S-E-24
Receiving Board



U29S-E-25
Camera Board



U29S-E-26
Optical Flow Board



U29S-E-27
Front LED Board(Green)



U29S-E-28
Rear LED Board(Red)



U29S-E-29
Camera Lens



U29S-E-30
Drone Battery



U29S-E-31
USB charging cable



U29S-E-32
Spanner



U29S-E-33
Screw Driver



U29S-E-34
TF Card



U29S-E-35
TF Card Reader

Important Notice

Our company's products are improving all the time, design and specifications are subject to change without notice.

All the information in this manual has been carefully checked to ensure accuracy, if any printing errors, our company reserve the final interpretation right.

Troubleshooting

No.	Problem	Problem Cause	Solution
1	Failed to pair the drone with the controller.	1. Failed to pair the drone with the controller	1. Restart the drone and power on the controller.
		2. Mis-operation.	2. Operate the drone step by step in accordance with the user manual.
		3. The electronic component is damaged for fiercely crash.	3. Visit the local seller to buy the new replacement parts.
2	The drone is under-powered or cannot fly.	1. The propeller is seriously deformed.	1. Replace the propeller.
		2. Low battery.	2. Recharge the drone battery.
		3. Incorrect installation of propeller.	3. Recharge the drone battery.
3	The drone could not hover and tilts to one side.	1. Improper Calibration.	1. Please refer to the "Calibration Instruction".
		2. The propeller is seriously deformed.	2. Replace the propeller.
		3. The motor holder is deformed after violent crash.	3. Replace the motor holder parts.
		4. The gyroscope did not reset after a serious crash.	4. Put the drone on the flat ground for about 10s or restart the drone to calibrate again.
		5. Motor is damaged.	5. Replace the motor.
4	The drone indicator light is off.	1. Low battery.	1. Recharge the drone battery.
		2. The battery is expired or over discharge protection.	2. Buy a new battery from local seller to replace the battery or charge the battery in accordance with the use manual.
		3. Poor Contact.	3. Connect and disconnect the battery.

5	Could not see the picture.	1. There is an interfering signal nearby. 2. There is an interfering signal nearby.	1. Practice and read the cellphone controlling instruction carefully. 2. Replace Camera.
6	Hard to control by cellphone.	Not experienced enough.	Practice and read the APP controlling instruction carefully.
7	Can't altitude hold.	1. The propeller deformed seriously.	1. Replace propeller.
		2. The motor is damaged.	2. Replace the motor.
		3. Atmospheric pressure is not stable.	3. Refer the altitude hold mode of use manual .
8	Can't position hold.	1. Flying exceed the max recommended altitude.	1. Do not fly the drone higher than 8M
		2. Flying in dim light.	2. Fly the drone in a space with good light.
9	The drone's LED light is still flashing rapidly after pairing.	1. The Optical Flow Position board is damaged.	1. Visit local distributor to buy the replacement part.
		2. The Optical Flow Position board is not in good connection with cable.	2. Reconnect the Optical Flow Position board.
10	The drone's LED light is flashing slowly after pairing.	The Optical Flow Sensor doesn't detect moving object.	It will work normally after the drone takes off.

FCC 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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Notice

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void user's authority to operate this device.

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.



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