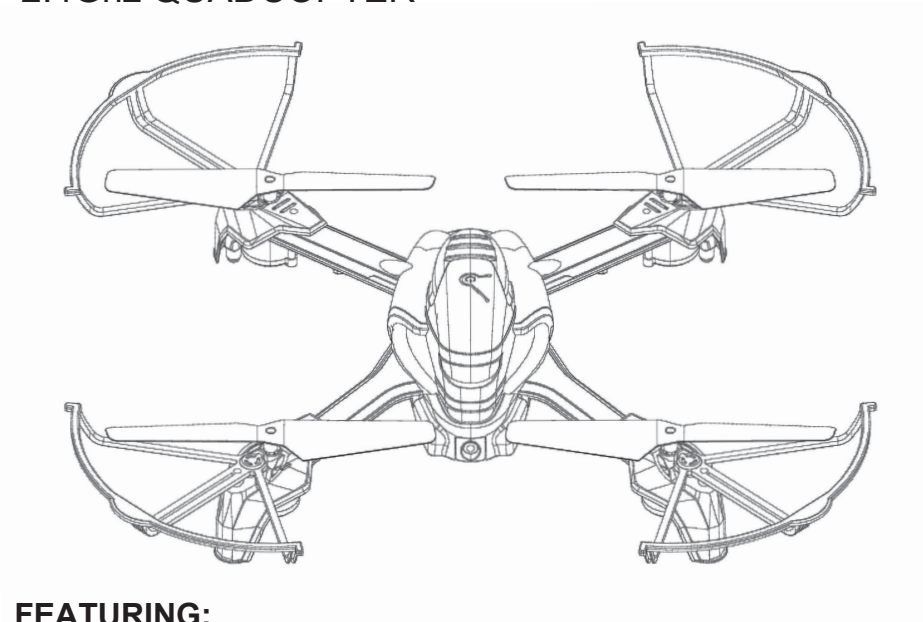




PANTONMA

2.4Ghz QUADCOPTER



FEATURING:

1. Four-Rotor design allows great speed and maneuverability for both Indoor and outdoor use.
2. Built-in 6-axis Gyro ensures excellent stability.
3. Modular design for convenience of module upgrade and increasing ease of maintenance.
4. Auto Hover/Auto Launch/Auto landing/obstacle avoidance function.
5. 360-degree 3-dimensional stunt and tumbling function.
6. WiFi Photo/Video.
7. 0.3MP camera Photo/Video
8. 2 MP camera Photo/Video
9. 5 MP camera Photo/Video
10. 5.8G FPV real time transmission

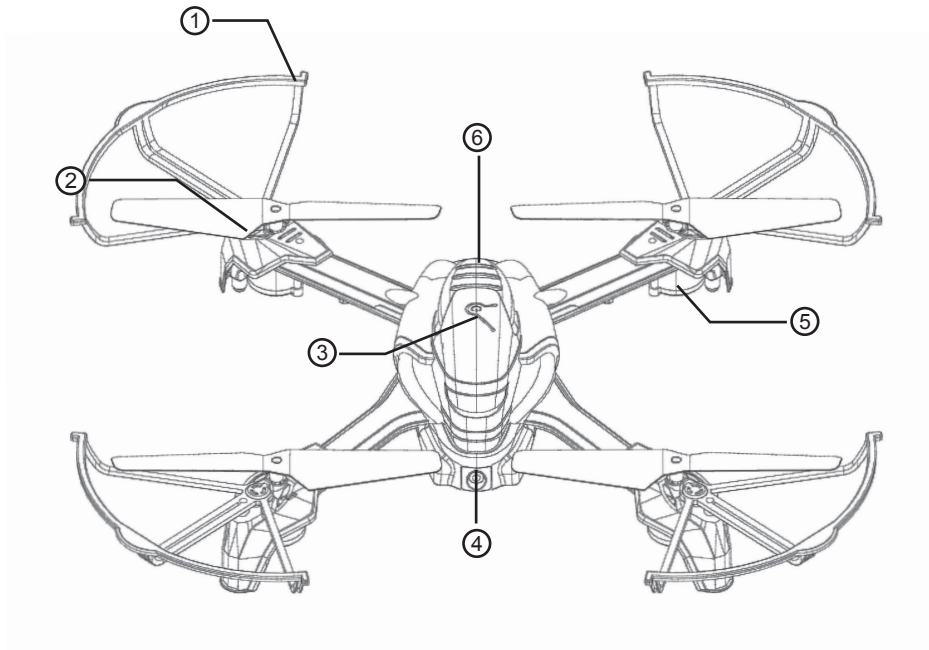
The materials and specifications stated in this instruction manual are for reference only.

Catalog

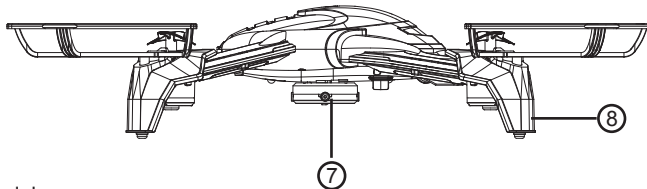
PANTONMA K80 - - - - -	2
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PANTONMA K80

Wonderful design and seperatable module could win player's favor.
High pixel and stable flying could bring much more entertainment.

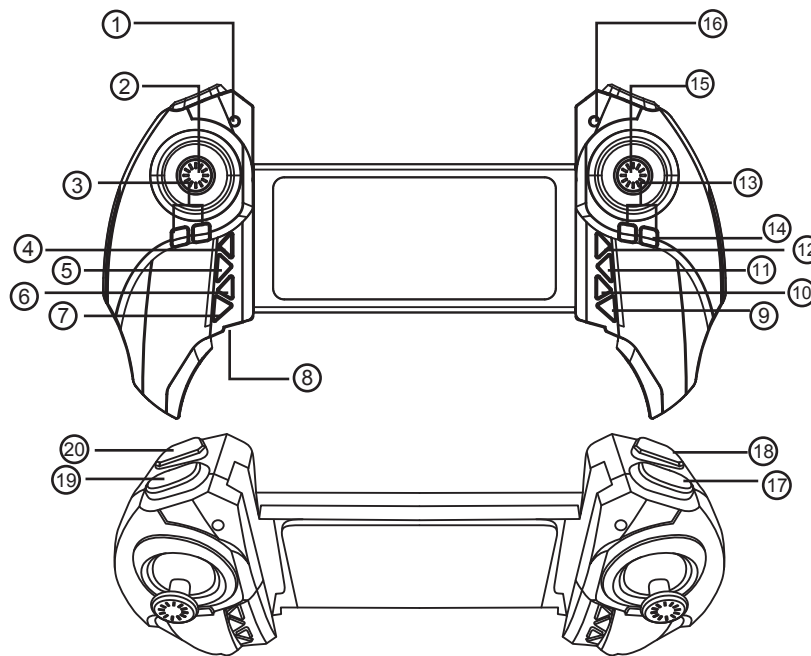

















- 1.Protect Shield
- 2.Propeller
- 3.Power button
(long press 1.5s
to power on/off)
- 4.Camera Module
- 5.Motor
- 6.Battery Module
- 7.Obstacle avoidance module
- 8.Landing Gear



Keys Introduction Of K80 Remote Controller

Fantastic design and multifunction are spoken highly of! Stretchable handset could fit different screens. Let's go and see!

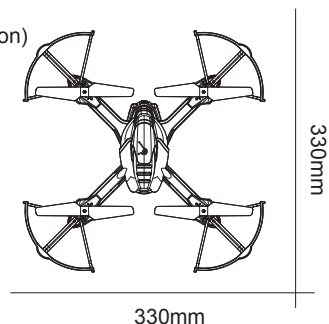


- | | |
|--|--|
| 1.Charging indicator | 15.Direction control stick |
| 2.Throttle control stick | 16.Power indicator |
|  3.Left/right turning trimmer |  17.One key to launch/auto landing (long press 3 seconds to stop) |
|  4.Power switch |  18.Speed switch (Slow speed-one sound DI/middle speed – two sound DI DI/ high speed – three sound DI DI DI) |
|  5.Camera lens up |  19.Short press to take photo/long press to record video (Point: the drone will blink one time when taking photo/blink three times when recording/blink two times when saving the photo or video) |
|  6.Camera lens down |  20.One key to return |
|  7.3D filp | |
| 8.Charging socket | |
|  9.CF mode | |
|  10.Led light control switch | |
|  11.Backward trimmer | |
|  12.Forward trimmer | |
|  13.Left/right side-fly trimmer | |
|  14.Long press before power on to switch the left/right control stick (The remote controller makes a sound DI indicating the switch success.) | |

Specification of K80

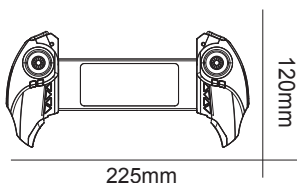
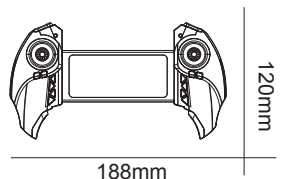
●Aircraft

LWH	330X330X68mm
Weight	Aprx 135g(Standard version)
Max Flight Time	6.5 MIN
Operating Temperature Range	0℃ to 40℃
Lens Angle Control Range	90°
SD Card Types	4G Micro SD Card
Battery Capacity	650mAh



●Remote Controller

LWH	225X120X50mm
Weight	154.3g
Max Transmission	80m
Charging Type	USB
Operating Temperature Range	0℃ to 40℃
Battery Capacity	80mAh(built-in Li-poly battery)

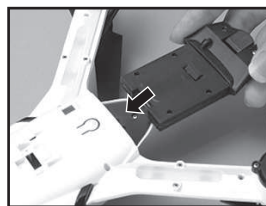
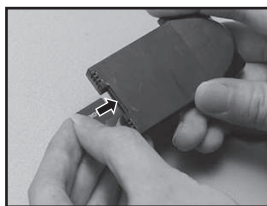


Preparation Before Flight

●Drone installation (Disassembly)

Insert the camera (Disassembly)

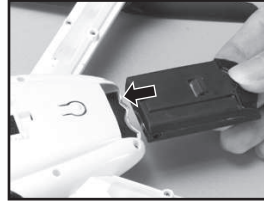
1. Insert the SD card to the camera.
2. Plug the camera into the drone.



NOTE: Please make sure the drone is off while mount/dismount the camera.

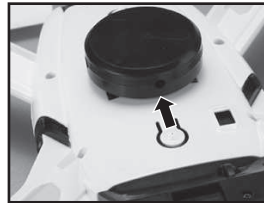
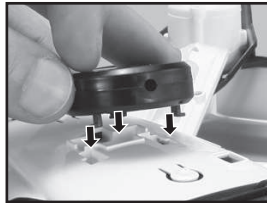
Battery installation(Disassembly):

- 1.Connect the battery to the socket back of the drone.



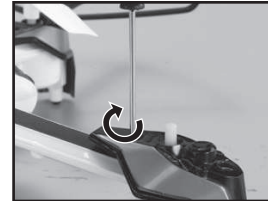
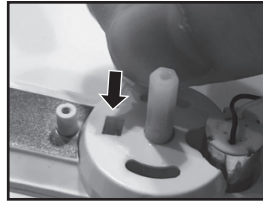
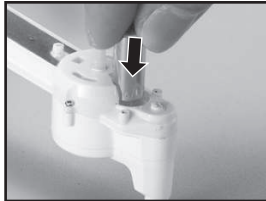
Sensor Installation (Disassembly)

- 1.Match the module with the socket at the bottom of the drone.
- 2.Push the module according to the direction on the module show to mount it.



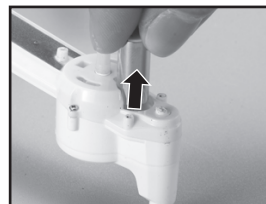
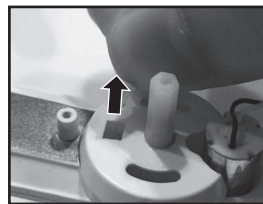
Motor installation(Disassembly)

- 1.Insert the motor to the motor base.
- 2.Connect the motor with the socket on the gear.
- 3.Instal the landing gear and tighten the screw in clockwise direction.



Disassembly

- 1.Loose the screw in anti clockwise direction then dismount the protect shield.
- 2.Pull out the motor wire from the socket on the gear.
- 3.Take out the motor from the motor base.



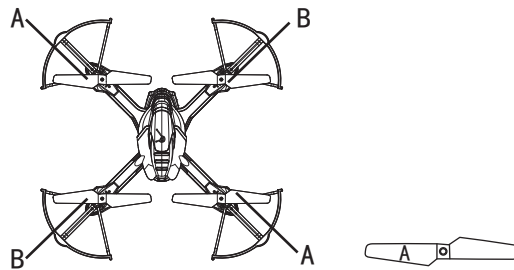
Blade installation(Disassembly)

1. Insert the blades with the main axis bar of the six angle gear.
2. Use screwdriver to tighten the screw in clockwise direction.



NOTE: It is important for the correct blade to be put on the correct motor or the drone will not fly correctly. A letter is marked on each blade to indicate which motor it should go on.

See diagram below:



Protect shield installation (Disassembly)

Install the blade protection frame to every corner and tighten the screws.



Disassemble the blade



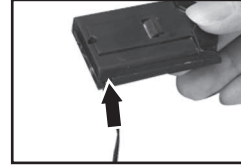
Install the blade

NOTE: If the quad-copter crashes, double check to make sure the blade protection frame is not loose or broken. If the blade is broken, please replace the protect shield right away

NOTE: If you prefer not to install blade guards, fillers are included to place in the slots instead.

●Charging the battery

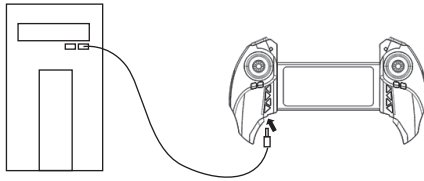
1. Push the on/off switch of the quad-copter to OFF and press the button to take out the battery.
2. Connect the USB cable to the battery pin.
3. Connect the USB cable with computer or compatible USB power adapter.
The red charging light will turn off while charging and will turn on once charged.
4. Reconnect the battery to the battery socket.
Charging time: approximately 90 minutes.
Flying time: approximately 6.5 minutes.



●Remote controller preparation

Charging the controller

1. Connect the USB cable to the remote controller. turn off the remote controller when charging
2. Connect the USB cable with computer or compatible USB power adapter, the green light on the remote controller will on while charging. The red charging light on the USB cable will turn off while charging and will turn on once charged.



Smart phone/pad/tablet hardware & soft ware installation.

Software installation

Two-dimension code is provided on color box packing and back cover of specification to scan.



QR code for google play



QR code for IOS



QR code for 360

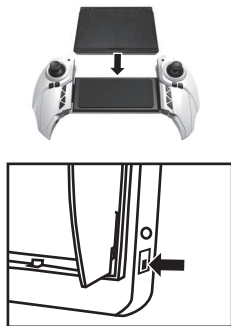


Connection instruction:

1. Turn on the drone, the FPV indicate light blink slowly, which shows the drone is ready to connect with phone.
2. Open your phone and into "settings", turn on the WIFI, search the KD-**** from the signal list, connect the signal, exit "setting" option until the signal shows connected.
3. Open the PANTONMA APP, click "MY DRONE" into control interface. The indicate light on the drone will on, which means is connected. The phone shows the real time image. The wifi signal in full grid showing the strongest signal.

5.8G FPV connection instruction

1. Connect the 5.8G camera module to the drone.
2. Turn on the drone and controller, as well as the 5.8G monitor, slide the 5.8G monitor to middle of the controller.



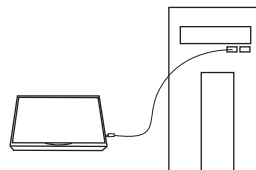
Power Switch



Charging Slot

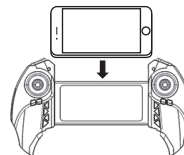
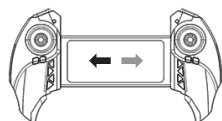
Charge the 5.8G FPV monitor

Insert the USB pin to the monitor and connect the USB with adaptor or computer to charge the monitor.



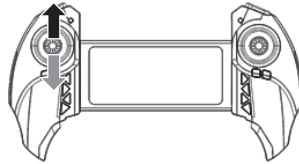
Phone installation

1. Stretch the controller to adjust different size of phone.
2. Slide the phone to the pad of remote controller as the photo show.



●Entering into pre-fly status

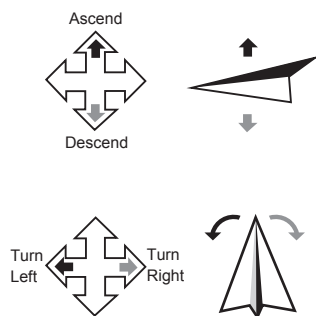
Push the throttle lever to the highest position, the LED light on the drone change from flickering to steady on. This shows that the quad-copter has synced with the remote. Then press the Auto take off button and push the throttle slightly to fly.



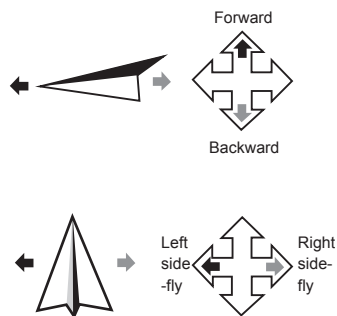
Basic Operation Guide

Here are the basic operation guide (Mode 1), the left stick controls altitude and direction, while the right stick controls the rotation forward, backward, left or right movement.

Left Stick



Right Stick



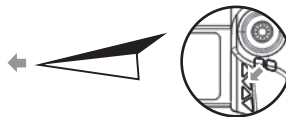
Camera Lens Up/Down



Backward Trimmer



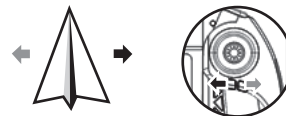
Forward Trimmer



Left/Right Turning Trimmer



Left/Right Side-Fly Trimmer



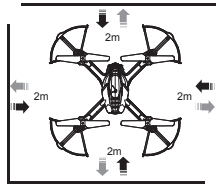
LED Light Control



Special Function Button Guide

●Obstacle avoidance sensor

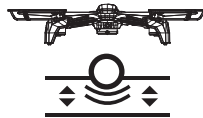
Mount the obstacle avoidance sensor module to the bottom of the drone, when it detect that there have obstacle within 2m(depend on environment), the drone will not keep approaching, it will avoid the obstacle automatically. The module will work automatically when it fly 80-100cm away from ground. This function can decrease the crash percentage, but please do not use human being or object as testing reference to avoid any danger happen.



Note: Obstacle avoidance function only works under slow speed.Obstacle avoidance function can not work under glass and black environment, white wall can achieve its best working status.When the obstacle avoidance module is working, headless mode and one key to return function will not work.

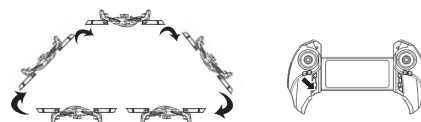
●Auto Hover

Push the throttle up slightly and release it, the drone will stick to a specific height steadily.Push the throttle down when decent the drone.



●3D Flip

Ascending the quad copter to 2 meters high, press the 3D flip button(remote controller will make two sound didi continuously, the sound will stop when finished the movement) and then push the right control stick in any direction at the utmost, the quadcopter will roll over accordingly .



NOTE: The 3D flip function can not work if the drone is mounted with obstacle avoidance module and camera, make sure take out these two module before play this function.(You should restart the drone and controller to auto connect this function)

The 3D function can not work under low power.

●Speed Switch

The PANTONMA features 3 speed modes. Low speed is for beginners and high speed is for advanced users.

Press the speed mode button to adjust speed.

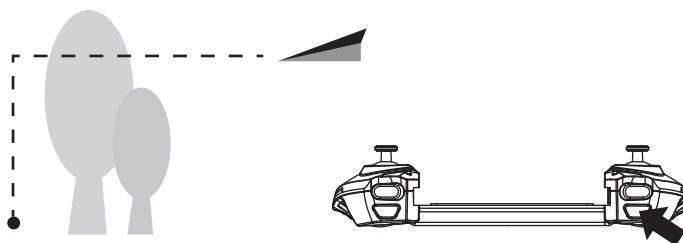
one sound for slow speed
two sound for middle speed
three sound for high speed



●One Key Return

Press the “one key to return” key, the quadcopter will fly towards the operator. Push up the right control stick to exit this function.

(To make a safe return, push the right control stick to left/right if the quadcopter's return deviates to right/left).



CF Mode

●Operation guide under cf mode

CF mode:

After matching of the quadcopter and the remote control, press the CF mode button on the remote control, the buzzer in the remote control makes the Sound “di di” , the lights of the quadcopter change from constantly on to flickering, the quadcopter turns in CF mode.

Exit the CF mode:

When the quadcopter is in CF mode, press the CF mode button on the remote control, the buzzer makes the sound “di” , the lights of the quadcopter change from flickering to constantly on, the quadcopter exit the CF mode.

Adjust the direction in CF mode:

Before into the CF mode, it is necessary to adjust the direction first. Make sure the front of the quadcopter points ahead in the same direction of the operator (figure.1), then push the left and right control stick to the lower left direction at the same time for about 2 seconds(figure.2), the indication lights of the quadcopter change from stable on to fast flickering for 2 seconds, which means the direction adjustment is finished.



Figure (1)

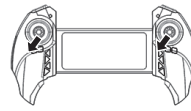


Figure (2)

Control the directions in CF mode:

In CF mode, the forward direction is the direction which the quadcopter pointed to in the previous step. The operator should face this forward direction, otherwise the direction will not in the correct control. Please follow the below steps:

Push the right control stick up, the quadcopter flies forward based on the direction which the operator faced in the adjustment step.		Push the control stick to make right side fly, the quadcopter will make right side fly based on the direction which the operator face in the adjustment step.
Push the right control stick down, the quadcopter flies backwards based on the direction which the operator faced in the adjustment step.		Push the control stick to make a right turn, the quadcopter will turn right based on the direction which the operator faced in the adjustment step.
Push the control stick to make left side fly, the quadcopter will make left side fly based on the direction which the operator faced in the adjustment step.		Push the control stick to make a left turn, the quadcopter will turn left based on the direction which the operator faced in the adjustment step.

Hints:

1. To make the quadcopter flying in CF mode, a direction adjustment and confirmation step is important, and the operator should face the direction to which the front of the quadcopter pointed. The orientation of the operator should not change to avoid effect on controlling the quadcopter.
2. When in CF mode, if the direction of the quadcopter is not in accordance with the operator or makes deviation, please stop flying to make a readjustment and confirmation of the direction.

Upgrade Component (Selective Buying)



801

0.3MP Camera

resolution of photo/
video:640X480



802

2MP Camera

resolution of photo/
video:1280X720



803

5MP Camera

resolution of photo:
2592x1944
resolution of video:
1920x1080



804

FPV WiFi + 0.3MP
camera

resolution of photo/
video:640X480



805

FPV WiFi + 2MP
camera

resolution of photo/
video:1280X720



806

FPV 5.8G with 2MP
camera + Monitor

resolution of photo/
video:1280X720



807

Obstacle avoidance
module



808

Battery

650mAh

Parts For Drone(Selective Buying)



809

Main Body
(Gold/Cyan)



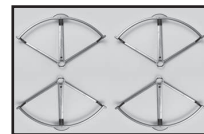
810

Base body



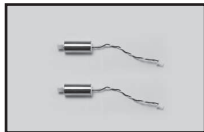
811

Propeller



812

Protect Shield



813

Motor A



814

Motor B



815

Motor cover
(Cyan/Gold)



816

Memory card



817

Card Reader



818

USB



819

Landing gear



820

Receiver Board



821

Remote Control



822

Transmit Board

Trouble Shooting

Problem	Reason	Solution
The indication light of the quadcopter is flashing and without reaction	1.The quadcopter and the transmitter are out of radio connection. 2.Insufficient battery power	1.Repeat the connection procedure. 2.Recharge the battery
The quadcopter's blades turn around but the quadcopter cannot take off	1. Insufficient battery power 2. The blades are distorted	1.Recharge the battery 2.Replace the blades
The quadcopter shakes hardly	The blades are distorted	Replace the blades
Make correct adjustments but the quadcopter still couldn't turn balanced	1. The blades are distorted 2.The motor doesn't work properly	1. Replace the blades 2. Replace the motor
The quadcopter becomes out of control after crashing	Six-axis acceleration sensor lose its balance after crashing	Reset the drone (refer to adjust the direction in CF mode on page 12)

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Smart phone/pad/tablet hardware & software installation.

Software installation

Two-dimension code is provided on color box packing and back cover of specification to scan.



QR code for google play



QR code for IOS



QR code for 360

