



K70 **SKY WARRIOR**

2.4 GHZ 6 AXIS R/C QUADCOPTER

FEATURE:

1. Four-Rotor design allows great speed and maneuverability for indoor and outdoor use.
2. Built-in 6-axis Gyro ensures excellent stability.
3. loading capacity up to 500g.
4. Auto hover/Headless function/One key to return.
5. 360-degree 3-dimensional stunt and tumbling function.
6. WIFI Photo/Video.
7. 2MP camera Photo/Video.
8. 5MP camera Photo/Video.
9. 5.8G FPV real time transmission.

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

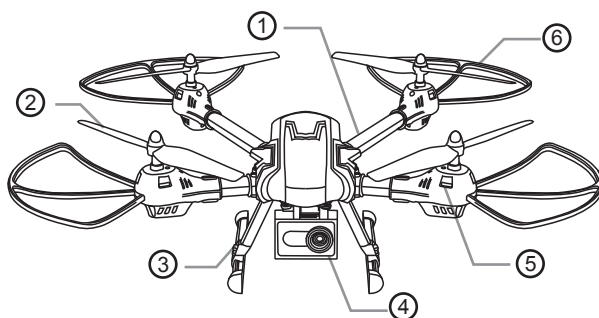
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Sky warrior K70

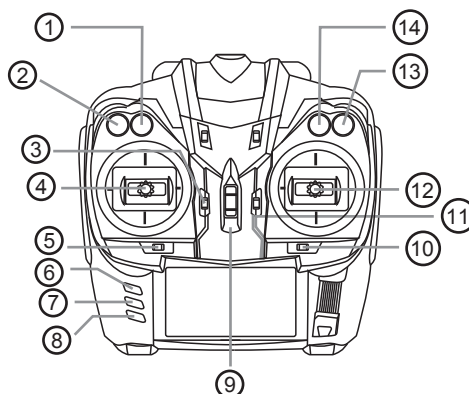
Wonderful design could win player's favor.

High pixel and stable flying could bring much more entertainment.



- 1.LED Light
- 2.Blade
- 3.Landing Gear
- 4.Camera
- 5.Motor
- 6.Protect Shield

Key Introduction of K70 Remote Controller

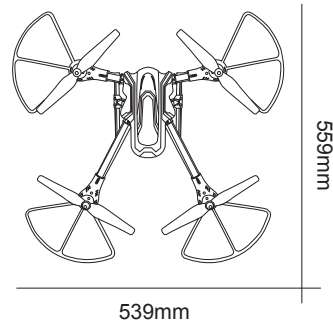


- | | |
|---|---|
| 1. one key to return | 10. left/right side-fly trimmer/long press to right side before power on to switch the left/right control stick(The remote controller makes a sound DI indicating the switch success) |
| 2. Short press to take photo/long press to record video(Point : the drone will blink one time when taking photo/blink three times when recording/blink two times when saving the photo or video) | 11. forward/backward trimmer |
| 3. camera lens up/down | 12. right control stick |
| 4. left control stick | 13. one key to launch/auto landing (long press 3 seconds to stop) |
| 5. left/right turning trimmer | 14. Speed switch (Slow speed-one sound DI/middle speed-two sound DI DI/high speed-three sound DI DI DI) |
| 6. LED light control switch | |
| 7. CF mode | |
| 8. 3D flip | |
| 9. power switch | |

Specification of K70

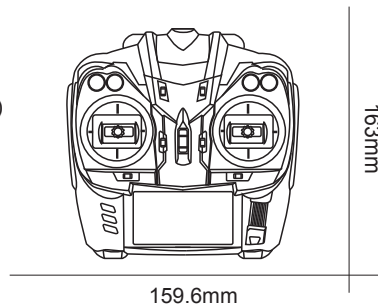
●Aircraft

LWH	539X559X178MM
Weight	Aprx 580g (Basic version)
Max Flight Time	8 MIN
Operating Temperature Range	0°C to 40°C
Lens Angle Control Range	90°
SD Card Types	4G Micro SD Card
Battery Capacity	2000mAh



●Remote controller

LWH	159.6X163X92MM
Weight	233g (without battery)
Operating Temperature Range	0°C to 40°C
Battery	4*1.5V AA



Preparation before flight

●Drone installtion(Disassembly)

Battery installstion

- 1.Use screwdriver to loose the battery cover in counterclockwise direction as figure(1)show.
- 2.Pull out the battery cover and remove it as figure(2)show.
- 3.Plug the battery into the socket on the drone as figure(3)show.
- 4.Place the battery into battery base(figure 4).
- 5.Match the battery cover and base and then fix it.(figure 5).
- 6.Use screwdriver to tighten the battery cover in counterclockwise direction as figure(6)show.

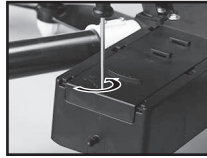


Figure 1



Figure 2

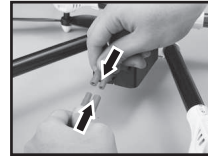


Figure 3



Figure 4



Figure 5



Figure 6

●Landing gear installation

- 1.Insert the landing gear firmly to the slots on the drone.(Figure1)
- 2.Use screwdriver to tighten the landing gear in clockwise direction. (Figure2)

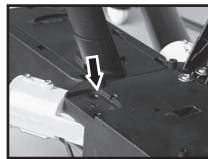


Figure 1

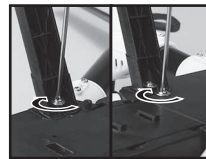


Figure 2

●Landing gear disassembly

- 1.Use screwdriver to loose the landing gear in anti-clockwise direction.
- 2.Take out the landing gear.

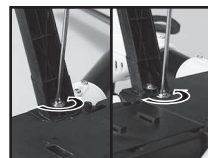


Figure 1

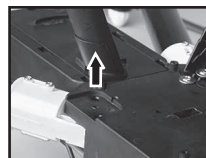


Figure 2

●Camera installation (disassembly)

Camera installation

- 1.Insert the SD card to the camera.
- 2.Use screwdriver to tighten the camera in clockwise direction as figure (1)show.



Camera disassembly

1. Use screwdriver to loose the camera in anti-clockwise direction.
2. Take out the camera.



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

●Blade installation(Disassembly)

Blade installation

1. Insert the blade into main axis as figure (1) show.
2. Insert the main axis sleeve into main axis tube as figure (2) show. Make sure the notch of the main axis sleeve match with the hole on the main axis tube and then insert the iron axis.
3. Install the iron axis inside the main axis sleeve then rotate it in clockwise direction in 90° as figure (3) show.
4. Insert the blade cover into main axis as figure (4) show.



Figure 1

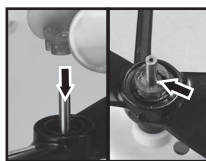


Figure 2

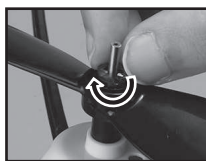


Figure 3



Figure 4

Blade disassembly

1. Pull out the blade cover as figure (1) shows.
2. Rotate the main axis sleeve in counterclockwise direction until the iron axis is match with the notch on the main axis sleeve as figure (2) show.
3. Pull out the iron axis according to figure (3) show. And pull out the main axis sleeve.
4. Pull out the blade as shown in figure (4).

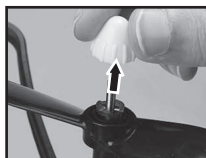


Figure 1



Figure 2

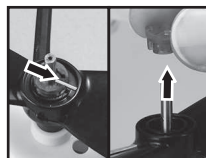


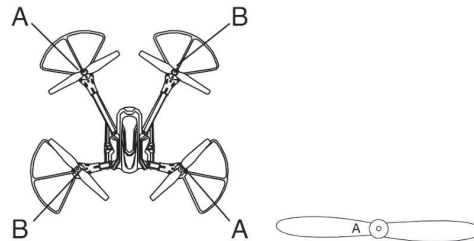
Figure 3



Figure 4

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)

Protect shield installation

- 1.Insert protect shield into the slot on the drone as shown in figure (1).
- 2.Use screwdriver to tighten the screw on the protect shield in clockwise direction as shown in figure (2).



Figure 1



Figure 2

Protect shield disassembly

- 1.Use screwdriver to loose the protect shield in anti-clockwise direction.
- 2.Take out the protect shield.



Figure 1



Figure 2

●Motor installation(Disassembly)

Installation

- 1.Insert the motor to the motor base then use screwdriver in clockwise direction to tighten the screws on the front side of the motor as figure (1) show.
- 2.Plug the motor to the motor socket as figure (2) show.
- 3.Close the motor cover then use screwdriver in clockwise direction to tighten it as figure (3) show.

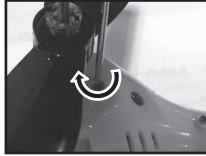


Figure 1

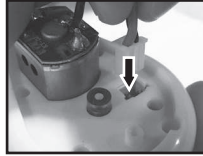


Figure 2



Figure 3

Disassembly

1. Use screwdriver to loose the screws on the motor cover in anti-clockwise direction. Figure(1)
2. Pull out the motor socket as figure (2) show.
3. Use screwdriver in counterclockwise direction to loose the screws on the motor as figure (3) show.



Figure 1

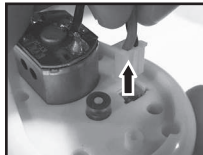


Figure 2

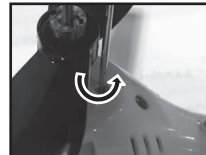
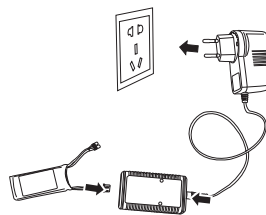


Figure 3

●Charging the battery

Connect the charger and adaptor, and then connect the 3S plug on the battery with adaptor, then plug the charger in battery socket, at this time the red light and green light are on, the green light will off after finished charging.

- Note:
1. Cut off the power before you pull out the battery.
 2. Be cautious about the polarity when connecting the battery and adaptor, reverse is prohibit.

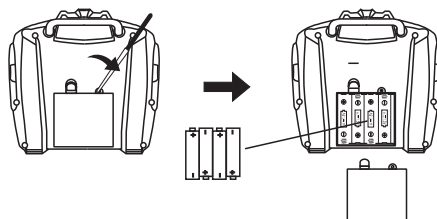


Note:

In case that the quadcopter might descend to a further or insecure zone due to the low battery power when flying in outdoor, the quadcopter is specially designed with the function of secure warning. When the battery power is too low, the led light would turn from constant on to flickering. Then the operator would have time to take back the quadcopter and change the battery or recharge it for the next flight.

●Remote controller preparation

- 1.Take out the battery cover on the back of the controller.
- 2.Insert 4*1.5V AA battery then put on the battery cover.



Remote controller low power indicator: When the remote controller under low power status, the light on the remote controller change from constantly on to flicker, and the buzzer on the remote controller make the alarm sound "DI DI" continuously.

●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



Applicable to the android system
capacitive touch screen mobile phone



Connection instruction:

1. Turn on the drone, the FPV indicator light blink slowly, which shows the drone is ready to connect with phone.
2. Open your phone and go to "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 indicator 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.

●Smart phone installation

1. Use screwdriver in anti-clockwise direction to loose the screws in the fixed clip as figure (1) show.
2. Put the fixed clip on the handle of the controller then use screwdriver in clockwise direction to tighten it as figure (2) show.

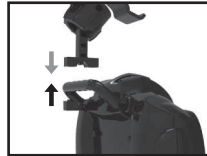


Figure 1



Figure 2

●5.8G FPV Connection Instruction

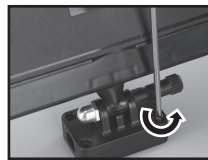


Figure 1

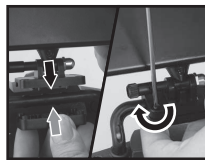


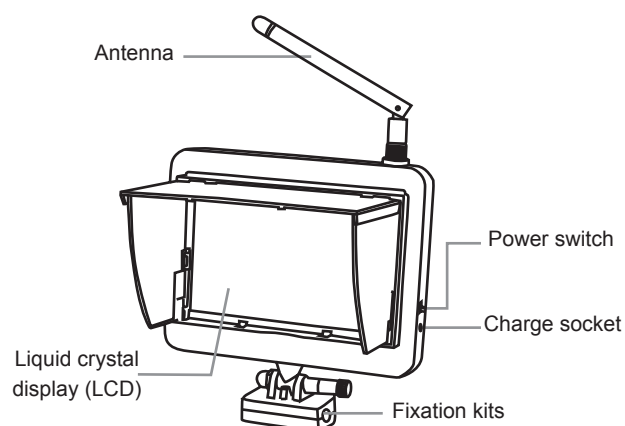
Figure 2

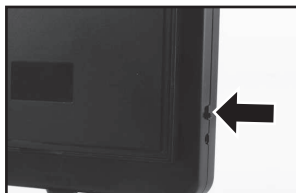


Figure 3

1. Use screw driver to loose the screws on the fixation kits and open the fixation kits as figure 1 show.
2. Fix the handle on the remote and the fixation kits, and then use screwdriver in clockwise direction to tighten the screws as figure 2 show.
3. Open the shield cover and turn on the power as figure 3 show.

●5.8G FPV display





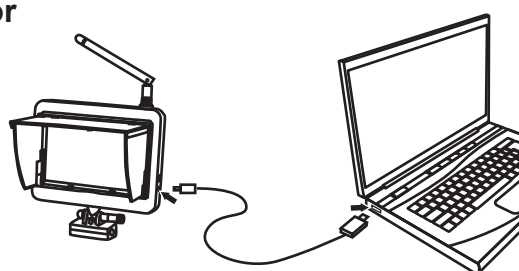
5.8G FPV Power Switch



5.8G FPV Charging Slot

●Charge the 5.8G FPV monitor

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



●Entering into pre-fly status

1. Turn on the power switch of the remote controller as figure (1) show, the light indicator will blink when power on and the buzzer makes the sound "DI DI" continuously.
2. Push the throttle lever from the lowest position to the highest position as the figure (2) show, the buzzer makes the sound "DI DI" continuously, then pull back the throttle lever to the lowest position, the buzzer makes the sound "DI", the lights on the remote controller change from flicker to constantly on, which indicate the frequency matching successfully. After matching the frequency, the drone enter into detection status, the detection time is about 3 second under the circumstance of no shaking of the drone, then the drone makes one sound "DI", and the light flicker once, after all the drone detection is finished and enter into pre-fly status.



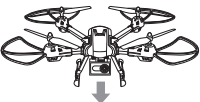

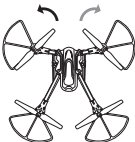

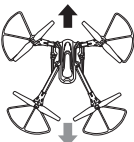

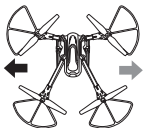

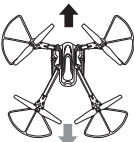

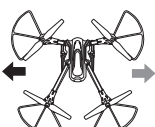

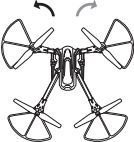

Figure 1



Figure 2

Basic Operation Guide

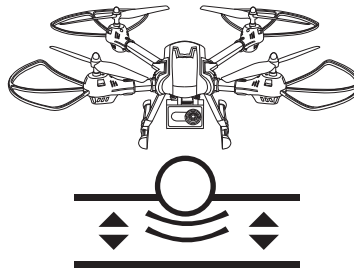
Here are the basic operation guide(Mode 1), the left stick controls altitude and direction, while the right stick controls the rotation forward, backward, left or right movement.

Ascend/ descend		Push up/down the left control stick, the quadcopter ascends/ descends accordingly.	
Turn left/ right		Push left/ right the left control stick, the quadcopter turn left/ right accordingly.	
Forward/ backward		Push up/ down the right control stick, the quadcopter moves forward/ backward.	
Left/ right side fly		Push left/ right the right control stick, the quadcopter make left/ right side fly.	
Forward/ backward adjustment		If the quadcopter keeps moving forward/ backward without control, push the trimmer down/ up until it turns balanced.	
Left/ right side fly adjustment		When hovering, if the quadcopter keeps left/ right side fly without control, push the trimmer right/ left until it turns balanced.	
Turn left/ right adjustment		When hovering, if the quadcopter keeps turn left/ right fly without control, push the trimmer right/ left until it turns balanced.	

●Special function button guide

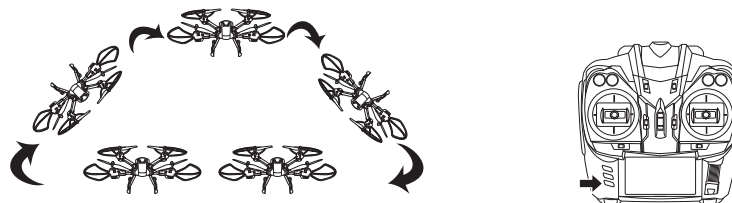
Auto hover

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 drone 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 drone will roll over accordingly.



NOTE: The 3D function can not work under low power and carrying camera.

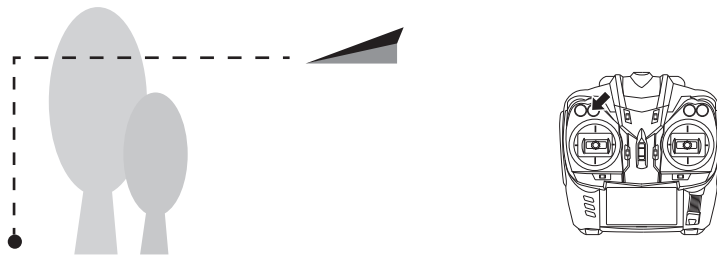
Speed switch

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

The default speed is 35%,press the speed switch button you will hear “DI DI” which indicate it switch to middle speed 75%, and press again with “DI DI DI” indicate it switch to high speed 100%. Press again with “DI” back to default low speed.

One key to return

When in CF mode, press the “one key to return” key, the quadcopter will fly towards the operator. Press this key again or 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

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", 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:

When the quadcopter is in 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 slowly flickering to fast flickering for 2 seconds, which means the direction adjustment is finished.

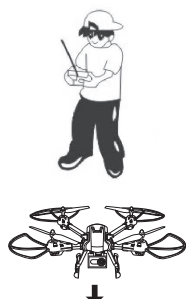


Figure (1)

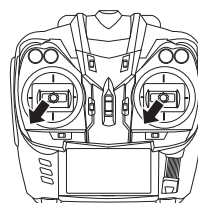


Figure (2)

Control the directions in CF mode:

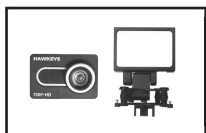
In CF mode, the forward direction is the direction which the quadcopter pointed to in the previous step. The operator should face this forward direction, otherwise the direction will not in the correct control. Please follow the below steps:

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 accessories (Selective Buying)



701

200W Camera
Resolution of photo/
video: 1280X720



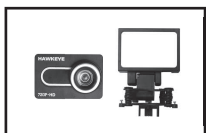
702

500W Camera
Resolution of photo/
video:1980X1080



703

FPV WIFI+0.3MP
Camera resolution
of photo/video:
640X480



704

FPV WIFI+2MP Camera
Resolution of photo/video:
1280X720



705

FPV 5.8G +2MP
Camera resolution
of photo/video:
1280X720

●Drone accessories (Selective Buying)



706

Main body



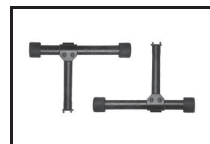
707

Base body



708

Blade



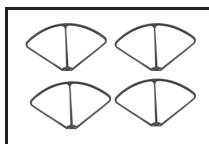
709

Landing gear



710

Mobile fixed clip



711

Protect shield(black)



712

Charger



713

Battery



714
Card reader



715
SD Card



716
Long tube frame



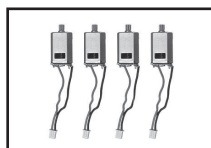
717
Short tube frame



718
Gear accessory



719
Switch



720
Motor



721
Blade cover



722
Remote controller

●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 connecton 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	Three-axis acceleration sensor lose its balance after crashing	Put the quadcopter on the ground for 5-10 seconds

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 &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



Applicable to the android system
capacitive touch screen mobile phone

