Wireless Digital Microscope
DUS.50.WF500
（WiFi）

User Manual

（English）

Thank you for purchasing our WF500X Wireless Digital Microscope makes up the limitation of distance; and can be used in a range within 10 to 60 meters. It is a perfect match with IOS mobile device (iPad, iPhone,iPod) and android mobile device (android tablet PC, android mobile phone). Please read below manual to get more detail about the microscope and follow the operation instructions.

1. Used in industrial areas：

a. Circuit boards, precision machinery, etc.

b. Print inspection observations, SMT soldering inspection

c. Check the observation and measurement of textiles

d. IC surface and circuit components inspection observations and measurements

……

2. Used in cosmetics, skin protection：

a. Observation and measurement of skin examination

b. Check the observation and measurement of hair

c. Check the viewing and measuring infrared therapy (customized products)

……

3. Used in biology, microbiology field：

a. Microbiological observations and measurements

b. Observation and measurement of animal biopsy

……

4. Used in Other field

a. Expansion monitor, magnifying glass, to help visually impaired people to read

b. Jewelry, diamonds, gold, jade and other valuables inspection observations and measurements, the quality of goods and to distinguish between true and false

……

WF500X wireless digital microscope digital microscope to make up the distance limit can range in space 60m in IOS system, tablet and mobile phone (such as IPad and IPhone , IPod), Andriod tablet and mobile phone systems use, very convenient. For a more detailed description of this product, please read patiently produced product introduction, use, precautions.

a. **In order to ensure the life of the product, please first use of the product is fully charged, the red indicator light when charging, fully charged, the red indicator light goes out naturally, refer to the charging time of 3 hours 30 minutes.**

b. **Please use the power adapter supplied with this product and a dedicated charging cable charging.**

c. **When the Products built-in battery is turning low, it will now appear like the following:**

1. Green light will not blink, and it will not find the WiFi network name, such as no " CoolingTech_WiFi_ No.(For Example : CoolingTech_WiFi_8 ; CoolingTech_WiFi_168 ; CoolingTech_WiFi_9998 ;   "

2. Find the WiFi network name, or connected to the network, but after connecting to the network does not appear   image or a video, or a black screen phenomenon;

If the above is like, please immediately to the product's built-in battery is fully charged to ensure that does not affect your normal work or study.

Product description catalog

This product and similar products in the world after comparing the performance advantages：

a. **This product does not require a USB cable to connect bulky desktop or laptop, truly portable, with Android Android system products (tablet, phone) or IOS System Series (IPhone, IPad,IPod) as a display terminal, the implant our research and development of software that can normally observe the measured object, truly portable.**

b. **No need fixed WiFi wireless LAN router provides space to use, WF500X you without time and space constraints, anytime, and truly anywhere want to see can be observed object.**

c. **The same small area supports multiple simultaneous users independently of each other without disturbing each other. Supports up to 1,500 people in the same area used, independently of each; CoolingTech Microscope Have global leader in technology.**

d. **Products to increase dedicated charging adapter and data cable accessories**

e. **If the built-in battery is no electricity, you can use the mobile power charging. CoolingTech microscope is the world's first who use the mobile charging technology companies to supply the microscope charging**

Product Specifications：

Sensor ：High-performance light-sensitive chip foreign imports

Master chip：Imports master chip DSP

Magnification ： 50X ~ 500X

Photo / video：Applications built

Auxiliary light source ：8 white LED lights

Static resolution: 640 * 480, according to their request to do zoom in and out processing (720P, 1080P resolution can be customized OEM)

Imaging Distance: manually adjustable 0 ~ 40mm, other distances can be customized OEM

Video Resolution: 640 * 480, according to their request to do zoom in and out processing

Fixed base: special base

Optical disk: includes application software and detailed instructions

Support System: IOS-based systems and Andriod Tablet PC and mobile phone systems

Power supply: Built-in 1000mA lithium battery self-protection; Support Power adapter 5V 1A power supply; support for mobile power supply

Applications　:　**Wireless Microscope.apk**（Andriod System）

　　　　　　　　NetcamViewer（IOS System）

Dynamic frames：QVGA 30f/s Under 600 LUX Brightness VGA 28 f/s Under 600 LUX Brightness

Illumination range: 0 ~ 30000LUX adjustable wire

Hardware Requirements: IOS system, tablet and mobile phone（such as IPad and IPhone , IPod）, Andriod tablet and mobile phone systems;

Cache: 512 MB

Supported languages: English, Chinese (other languages need to customize)

Color: Blue

Body size: 140mm (L) * 36.8mm (R)

Single Weight: 100g

Product Structure Components Introduction

① MicroUSB DC 5V socket

⑧ Power Indicator Light

③ WIFI Indictor Light

② Switch On/Off & Light Brightness Adjust Wheel

④ Focus Roller

⑤ Ratio Scale

⑥ Lens

⑦ LED Light Source
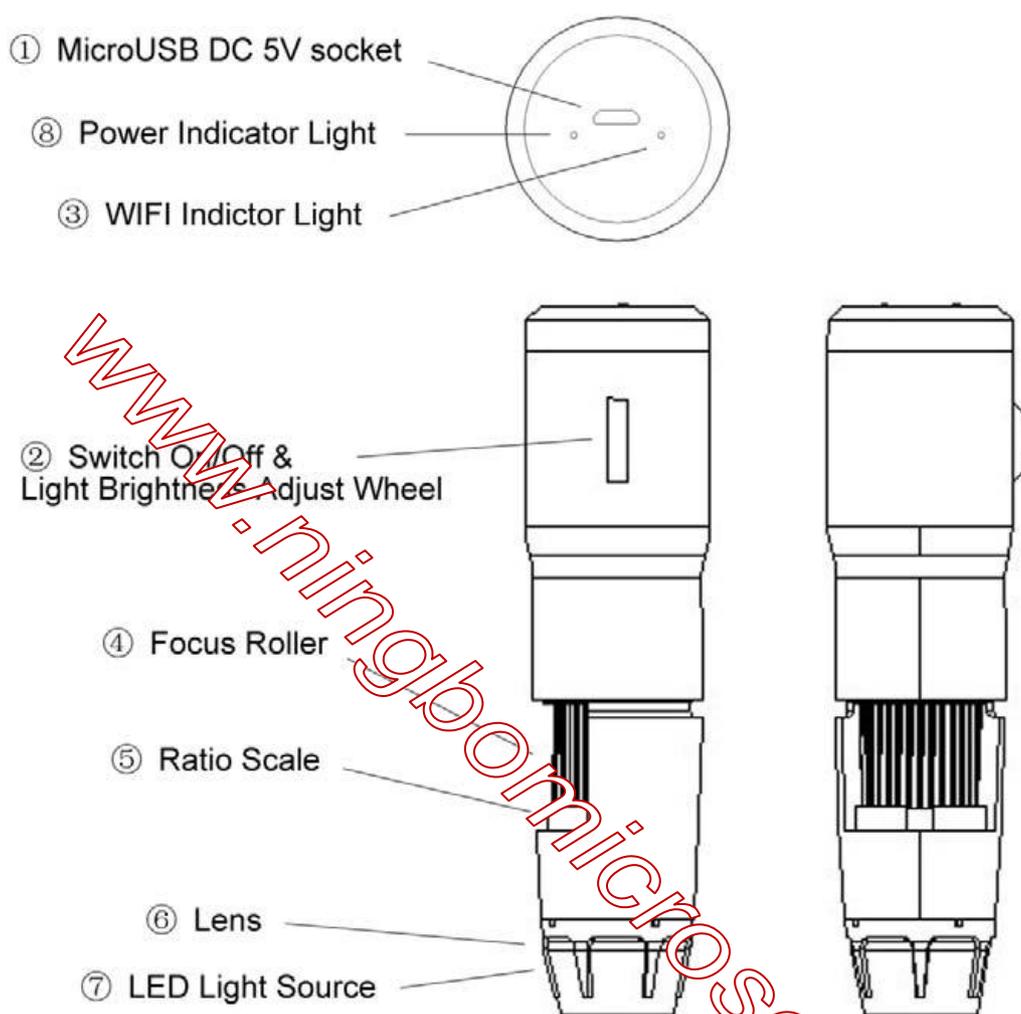
Function Details:

① 5V Micro USB DC power socket, you can add mobile power supply, or the direct use of mobile phone charging cable Charging

② switches and dimmer knob

③ lights signaled wireless transmission

④ Focus roller

⑤ magnification

⑥ special microscope optics

⑦ auxiliary light shade

⑧ Power indicator light and Lights indicate charging status

IOS system products (IPhone, IPad,IPod) Instructions for use:

1. Turn on the power switch, the light is adjusted to the brightest

2. LED green indicator light starts to light up after 3 to 5 seconds, LED lights begin to flash, on behalf of the WiFi signal transmitting normal

3 . for IOS System (iPad or iPhone,iPod) for the column, do the following description:

1. **NetcamViewer** software download
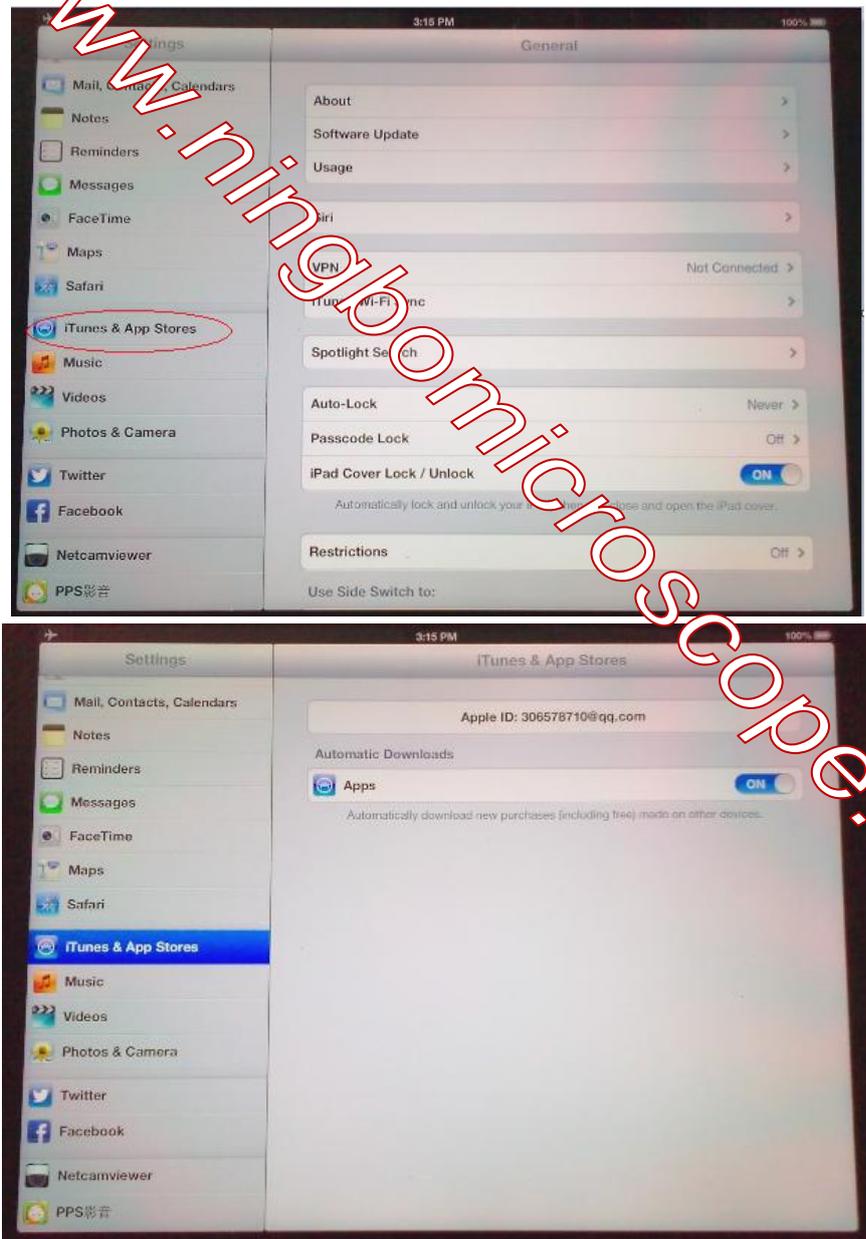
Note: This software **NetcamViewer** software is free software, no deductions.
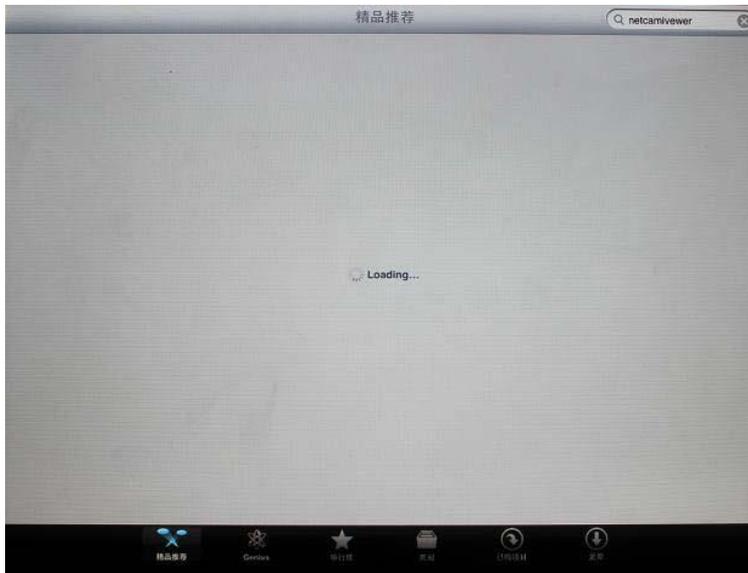
1. In the APP store, search bar enter **NetcamViewer**

2. After installation, the application surface following icon appears

3. Click **NetcamViewer**, some parameter settings
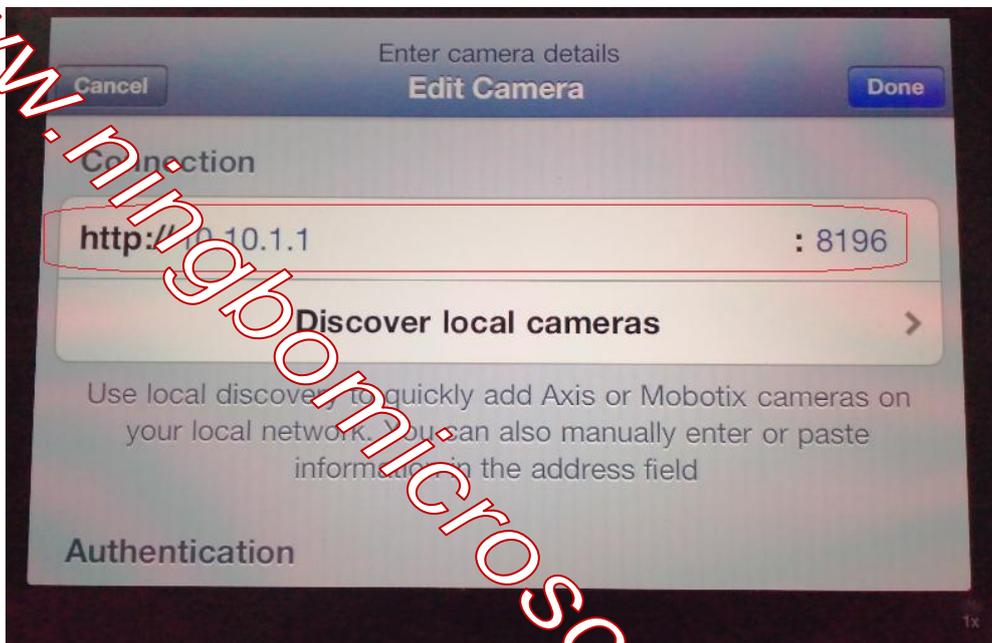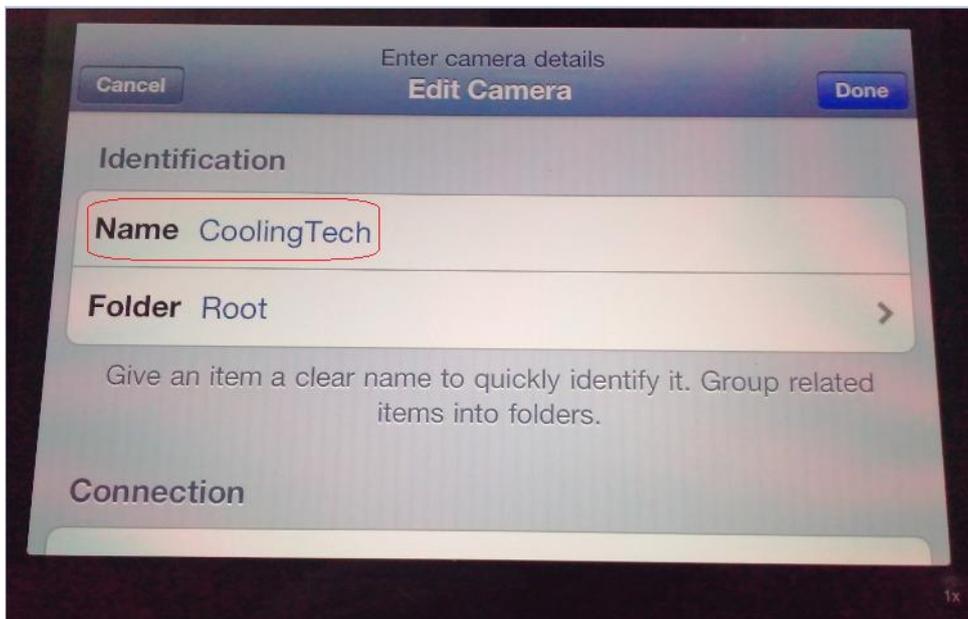
4. Consistent with username password, enter " **admin** "

For safety, many cameras require a username and password.
Enter this information in this section.

Type Section

Camera Type ABS   >

Options   >

The camera type information is required to communicate with a
camera. More detailed features can be configured by tapping
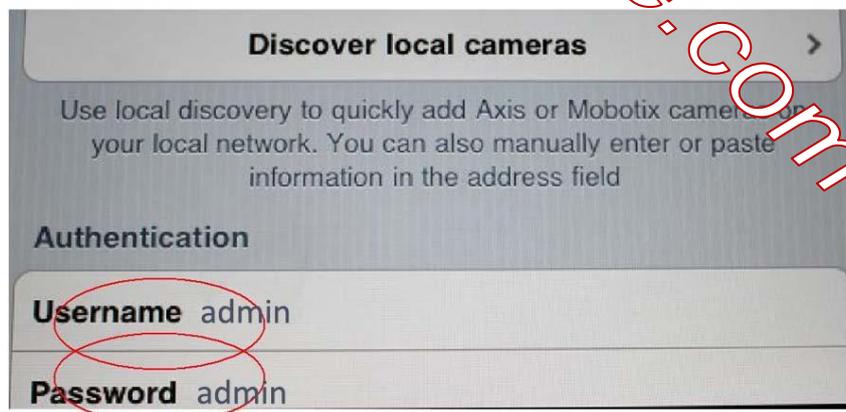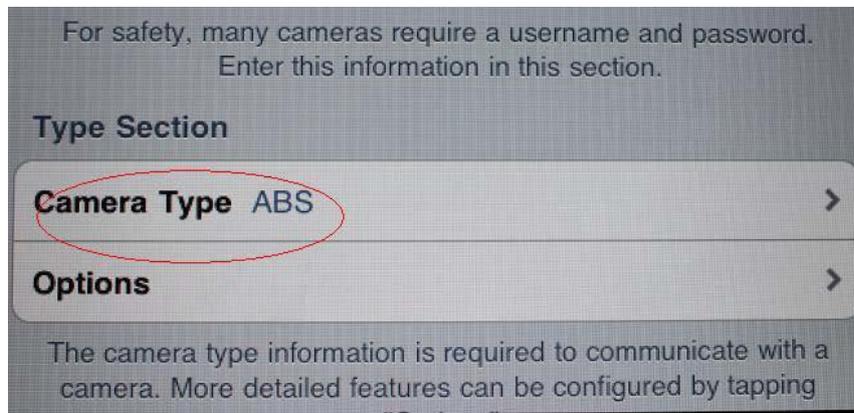
All settings are finished, click the top right button [Done] Complete the setup
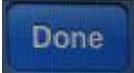
5. For WIFI signal connection, click **Settings**

Then select the SSID in the wireless setting is " **CoolingTech_WiFi_ No.**(For Example :
CoolingTech_WiFi_8 ; CoolingTech_WiFi_168 ; CoolingTech_WiFi_9998 ;   "
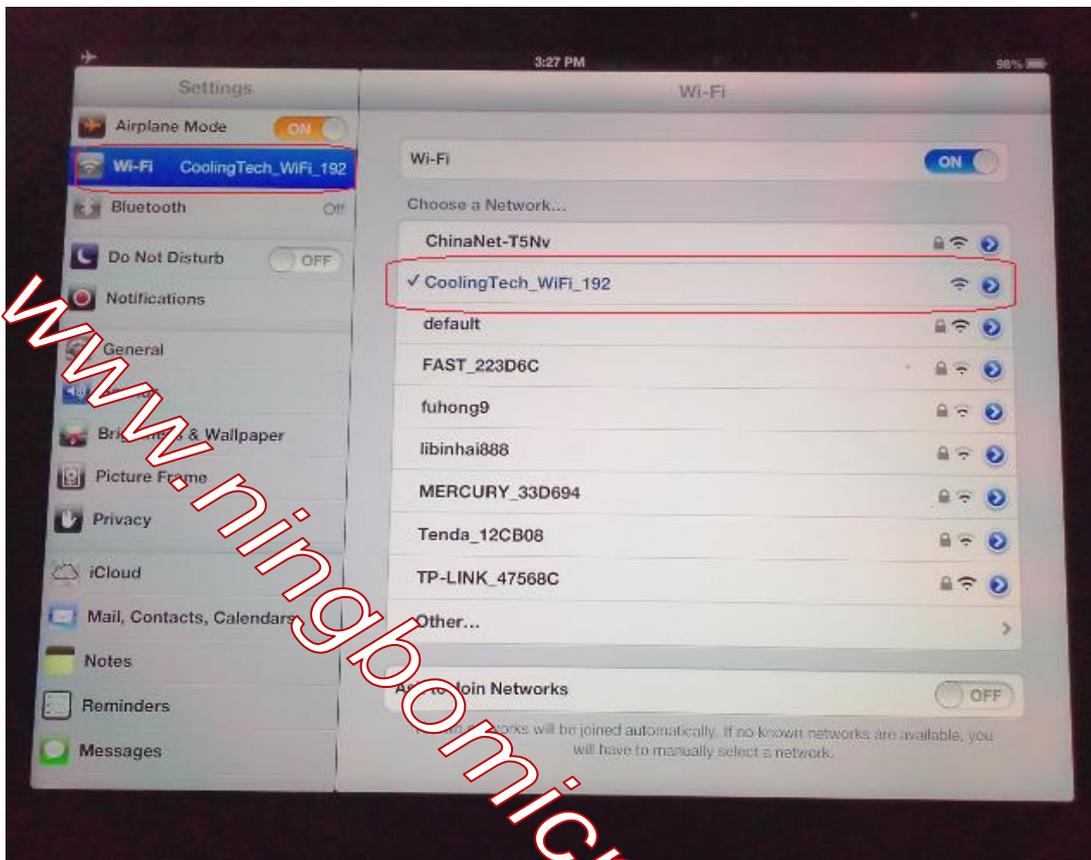
6. When the WiFi signal connections are completed, if you do not want to download the AP software **NetcamViewer**, directly in Safari, IP address bar direct input 10.10.14:8196, you can then browse images directly to a web page. If you need to enter a user name and password, direct input admin

, WIFI signal is connected, click the application surface , You can normally use, as shown below:

PCB board actual shooting and Measurement
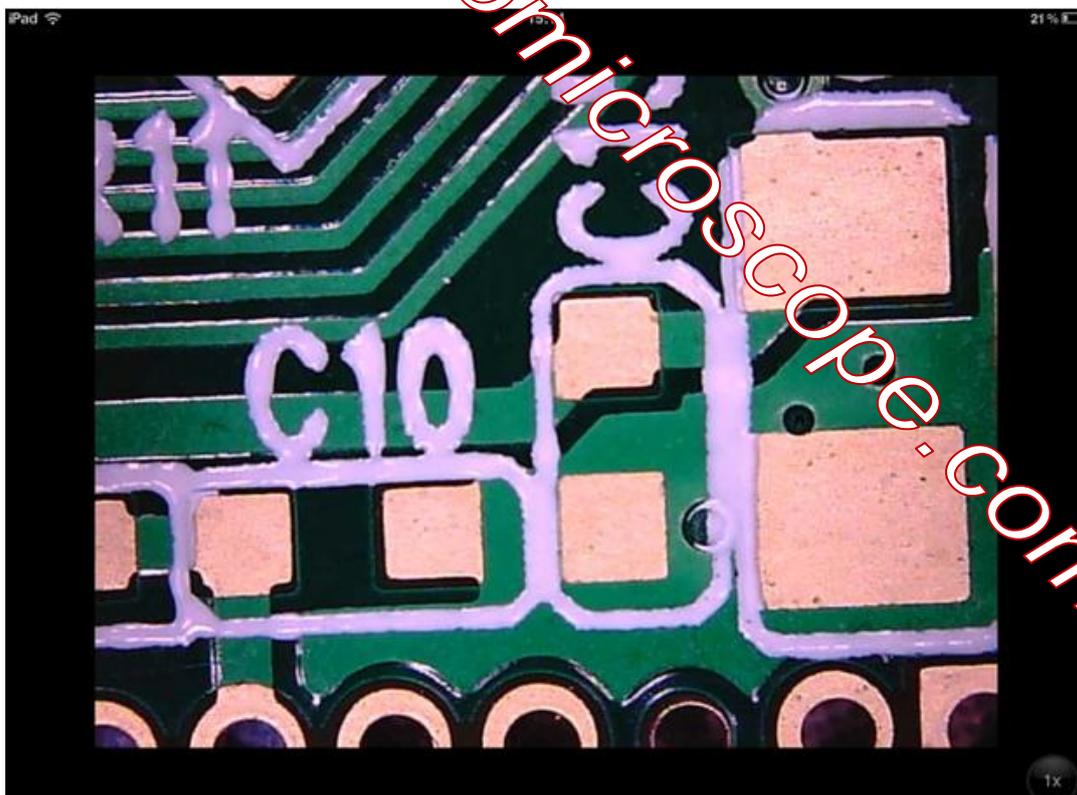
Android system products (Android Tablet PC, Android phones)

Instructions for use：

1. Keep the CD-ROM Software **Wireless Microscope.apk** copy directly to the corresponding tablet or mobile phone, and then install it, as shown：
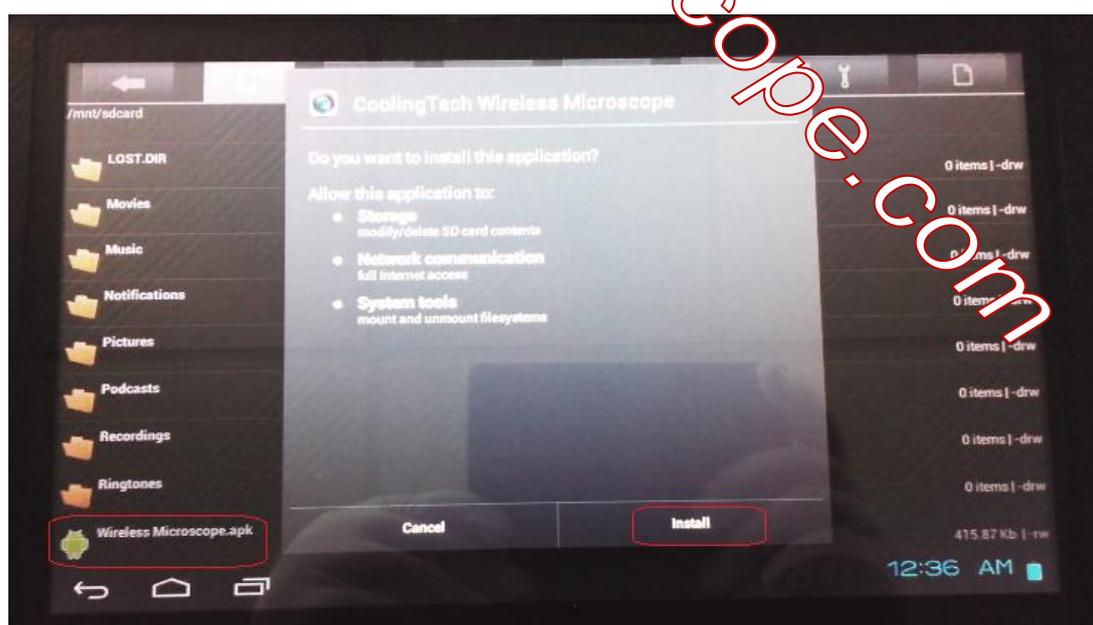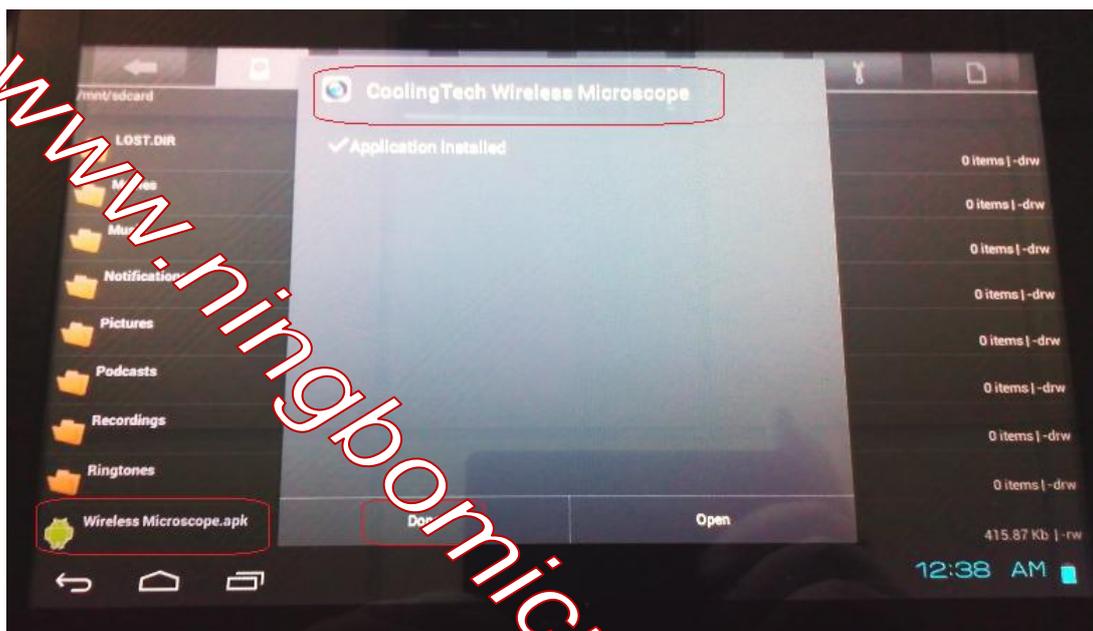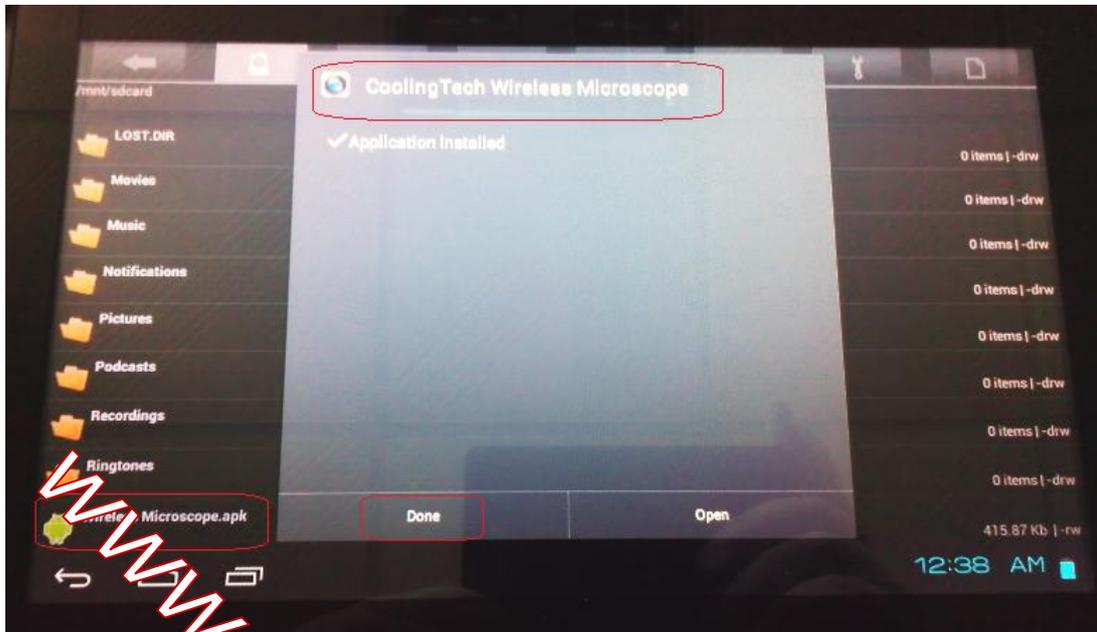
After installation is complete,

the desktop or in the Android program directory found inside **CoolingTech Microscope** Icon

Before use, first open the microscope switch, the light at maximum brightness, see the WiFi status light (green) flashes, marking signal is normal.

Then open the Android wireless settings, locate the file named "CoolingTech_WiFi_ No. (For Example: CoolingTech_WiFi_8; CoolingTech_WiFi_168; CoolingTech_WiFi_9998;" wireless signal source,

click and **Connect**, as shown below:

Then find just installed software, and open the run
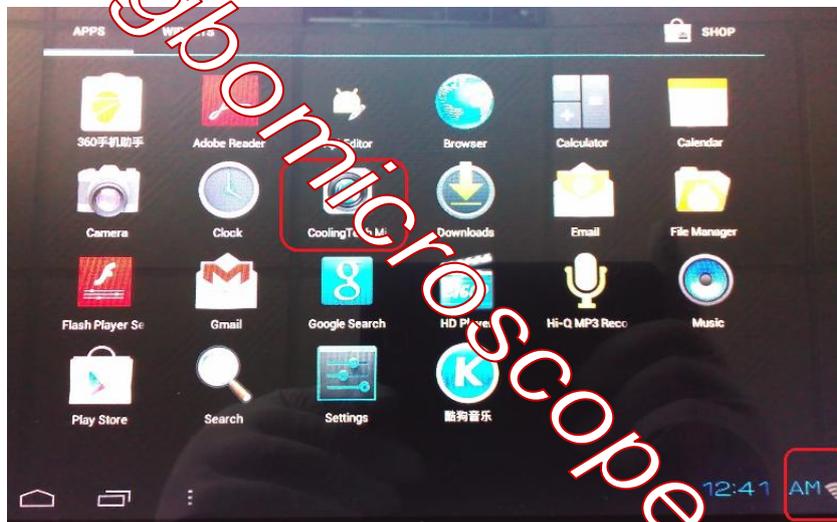
Now you can start using

Printed card photographed and Measurement
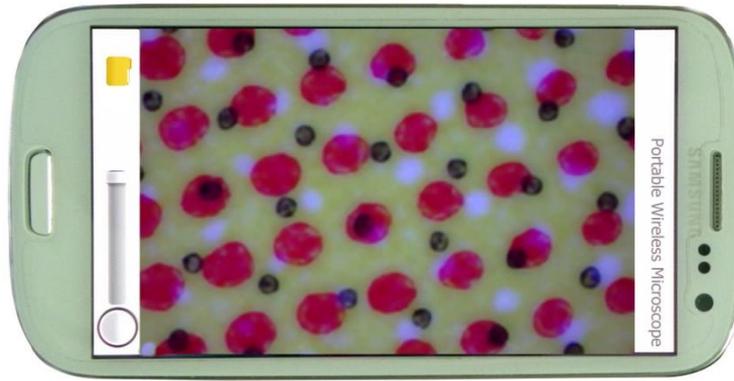
PCB board actual shooting and Measurement
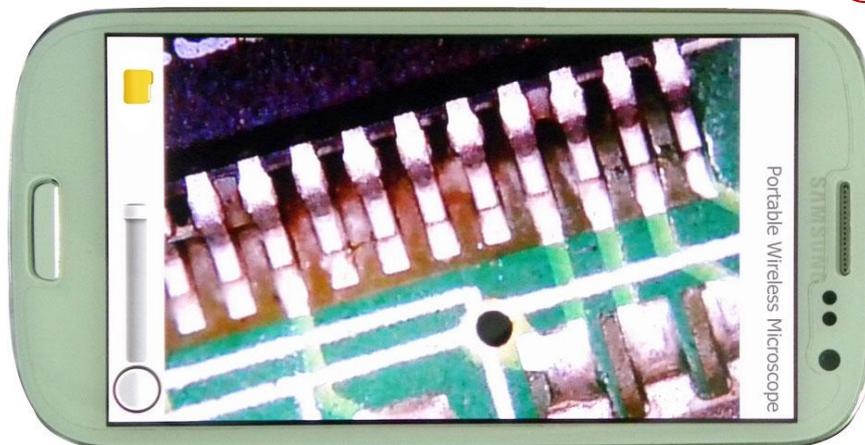
Safety warnings and precautions

1. Do not disassemble the product without permission , in order to avoid electrostatic breakdown precision chip.

2. Do not use alcohol and other organic solvents to clean the product.

3. Do not touch the lens with your fingers , so as not to cause surface scratches and dirt

4. When outdoor use , avoid high temperature and high humidity environments , electronic devices shorted. This product is not waterproof , please avoid the rain and water.

5. The use of the product and the storage temperature and moderate range : -40 ° C ~ 60 ° C, relative humidity : 45% RH ~ 95% RH

6. If a foreign substance or water / liquid into the number inside the product , disconnect the power immediately and sent to the maintenance center , not themselves.

7. Equipment for reference measurement accuracy , measurement error caused by the dispute has nothing to do with the product .

8. Wireless distance within 10 ~ 60 m

9. **The first use of this product, please full charge, When charging, the red light,When the battery is full enough, red light will not light up, the purpose of this operation is to increase the battery life of wireless products.**

10. For your safety, please try not to use the product while charging at the same time, try to fully charged before use.

11. When you are outdoors trip, you can add the product to the mobile power charger

12. Please do not thunder, rain weather outdoor use this product.

More questions about this product inquiries, please contact your local dealer or CoolingTech brand distributors worldwide.

The new microscope stand with coarse and fine focus focusing function

------ **New product appeared**！ ------

More research and development of new products constantly, coming onto the market, so stay tuned !