Wireless Digital Microscope
S05-200X
User Manual

（**English**）

*P*repared *by Coolingtech Digital Engineering Dept.*

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Thank you for Purchasing our S05-200X Digital Microscope, it is a slim type tool and can be easily used in different fields including
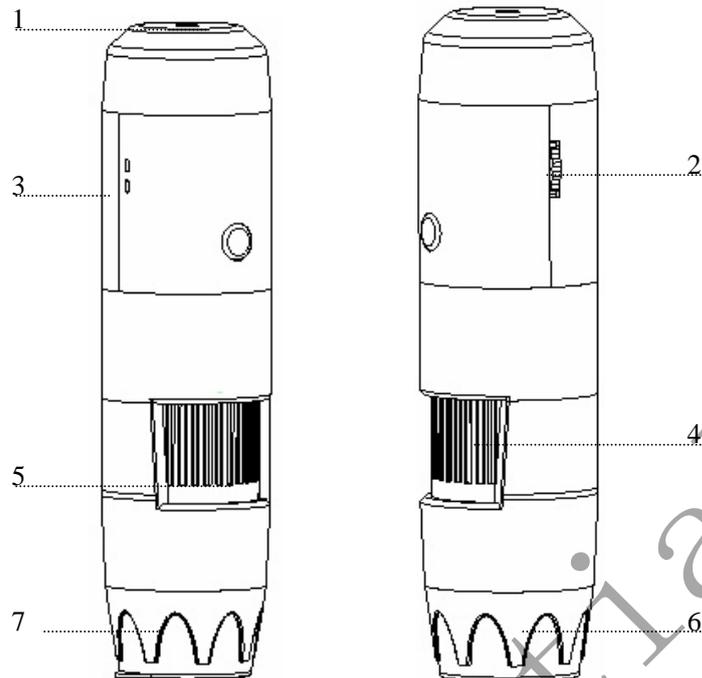
1. Textile industrial for textile inspection
2. Printing inspection
3. Industrial inspection: PCB, Precision machinery…
4. Educational purpose
5. Hair examination
6. Skin examination
7. Microbiological observation
8. Jewelry & coin (Collections) inspection
9. Visual Assistance
10. Others

S05 Wireless Digital Microscope break the limitation of distance, it works within 10 meter's range. Equipped with measurement software and can tell simple measure data conveniently. To know more about this product, please read below manual and follow the instructions to operate.

CONTENTS

Parts of Microscope

① DC 5V socket   ② Switch On/Off & light brightness adjust wheel

③ 2.4GHZ indicator light   ④ Focus Roller   ⑤ Ratio scale   ⑥ Lens

⑦ LED Light source

Specification

Image CMOS Sensor

Controller High Speed DSP (Driver Free available)

Focus Range 0mm ~ 40mm

Snap Shot Software

Frequency 2.4GHZ

Video Capture Resolution 1.3M.

Built-in4 ~ 8 White-light LED and adjustable illumination ensure the magnified images are clear and bright

Still Image Capture Resolution 640*480, 320*2401280*960,

1600*1200 ,800*600,

Frame Rate 25 f/s VGA under 600 LUX Brightness
20f/s QVGA under 600 LUX Brightness

Brightness Control Manual adjustment
Magnification Range 5X ~ 200X (Manually)

Power Supply TX Rechargeable lithium battery
RX 5V DC from USB port

USB 2.0 & USB 1.1 Compatible

Operation System Windows XP, Vista, Win 7 32 bit and 64 bit.

Language: English, Chinese and other language by selection

System Requirement: Pentium Computer with 700M Hz & above,
20M HD Space CD ROM Driver, 64MB RAM, Direct X VGA Card

CD disk Driver and Micro-Measurement Tool

Product dimension 142mm (L) X 37 mm (R)

Product net weight: 100g

Available color:Black.

Notes before use

1. Don't dissemble the digital Microscope or change the interior parts, it can cause damage.

2. Don't clean the Microscope with alcohol organic solvents

3. Don't touch the lens with your fingers.

4. Avoid outdoor use if possible.

5. Storage temperature , 0°C ~ 40°C,Humidity:45%RH ~ 85RH%.

6. In case the product gets wet, leave PC connection immediately. And do not dissemble or dry by hair dryer. Send to repair center if the digit microscope was effected by liquid or other elements.
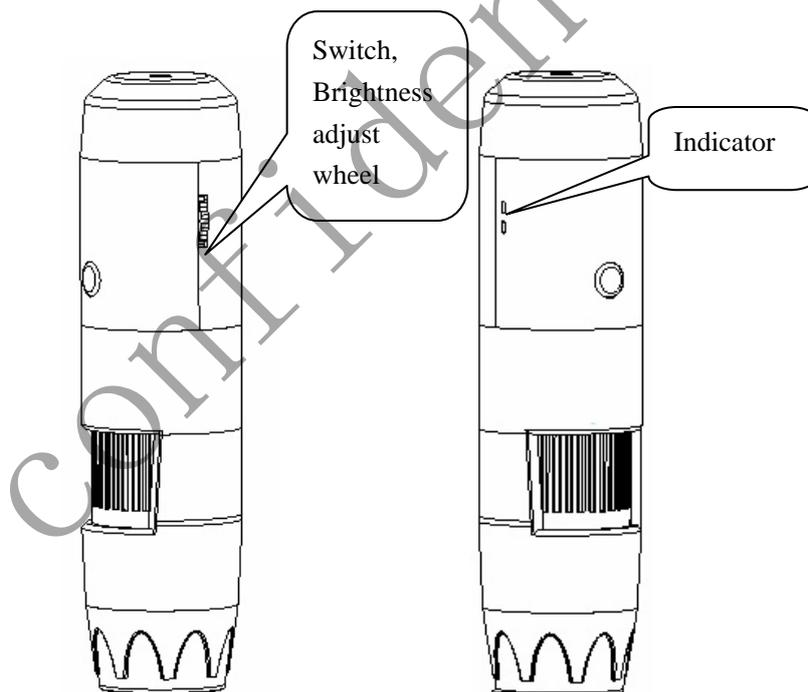
7. Measurement Data only for reference.

8. The effective range is 10m.

# Standard parts and accessories

1. Digital Microscope (1pc)

2. Charger (1pc) include power line

3. Signal receive base (1pc)

4. CD ROM (Driver & Measurement)

5. Warranty card (1pc), quick guide (1pc)

HOW to Use

1 Turn on the power, adjust the light to the brightest, the LED starts blink.

Switch, Brightness adjust wheel

Indicator

2 Connect the signal receive base to the PC, after connected, the indicator light on.

LED indicator

USB port
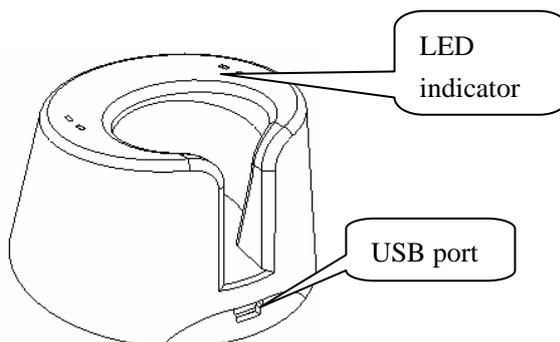
Wireless Signal Receive Base

3 If the transmitter indicator stops blink, and lights on all the time, it means the signal connected already. Then you can continue to operate in relative software.

Hardware system requirements

Windows 2000、XP、VISTA、WIN7 Pentium 1G, Celeron, AMD 1G & above, 128MB Memory, 150MB Hard Disc memory space,16-bit & above VGA ,CD-ROM, USB2.0 or USB1.1.

How to install the Software

S05 Wireless Digital Microscope is a Free Driver product, it can be worked immediately after connected to the computer with operation system above win2000 version. Detailed operation procedures as below:

1. Connect the receiver base to the computer, turn on the microscope, the signal will connect automatically, after the receiver base indicator light stops blink, it means the signal have been connected. Then, click and open "My Computer" , below interface will shown up.
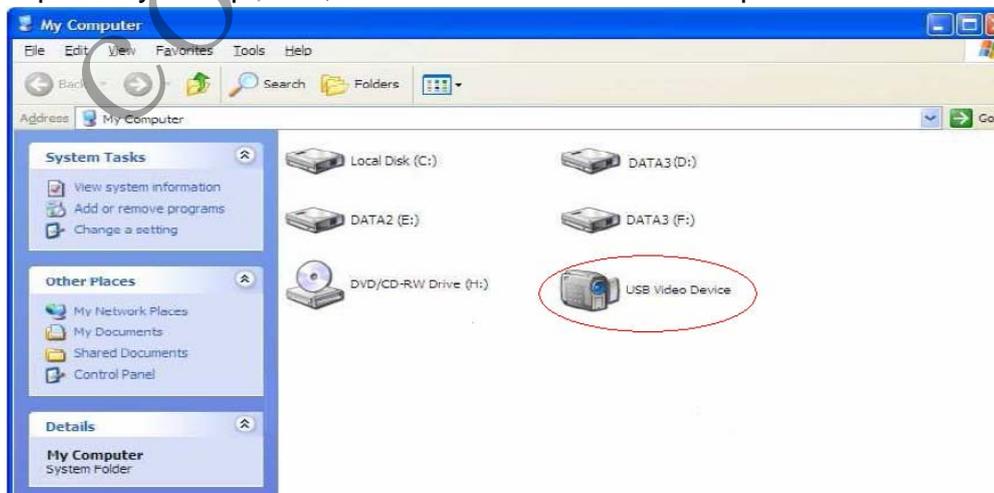
Double click the USB **Video device** as above red marked in your computer. Now it is ready to use.

If you can't find the Video device, or if your computer can't recognize it, please follow below steps to install the software
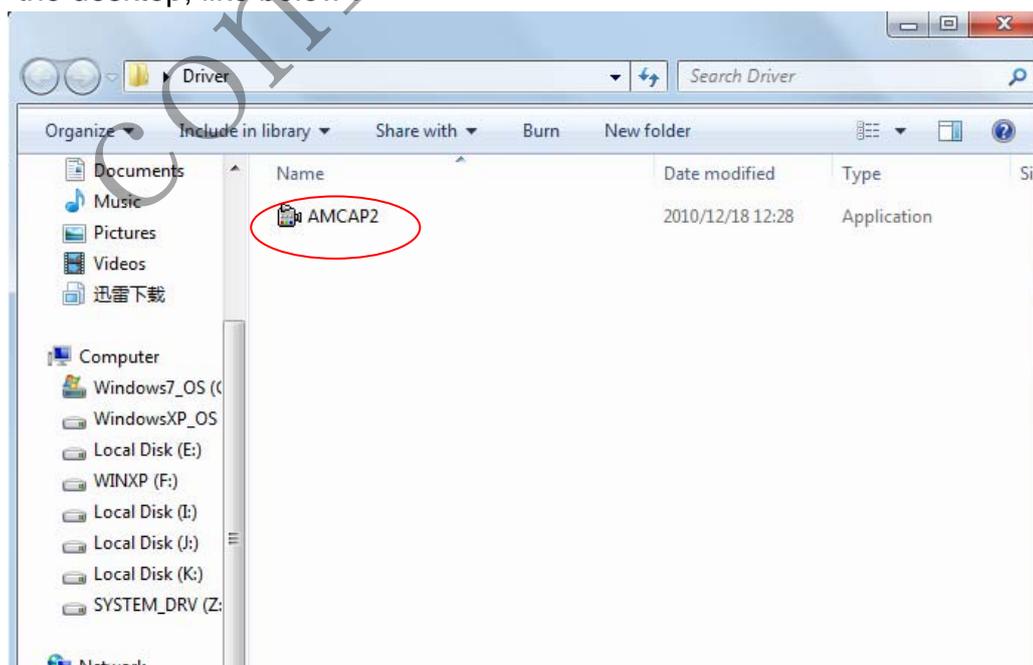
Insert the attached CD, system will auto run to the interface as below and follow the steps to complete the installation:
(NOTE：If the computer can't auto run the disc, you need to operate manually by click "My Computer" → "DVD/CD Driver" → run"AUTORUN.EXE")

1Driver installation

Click [Driver], open driver folder, drag the AMCAP file to the desktop, like below

2 Measurement installations

1 Click [Measurement] to continue, as followings

2 Click "next" to continue, as followings

3Click "next" to continue, as followings
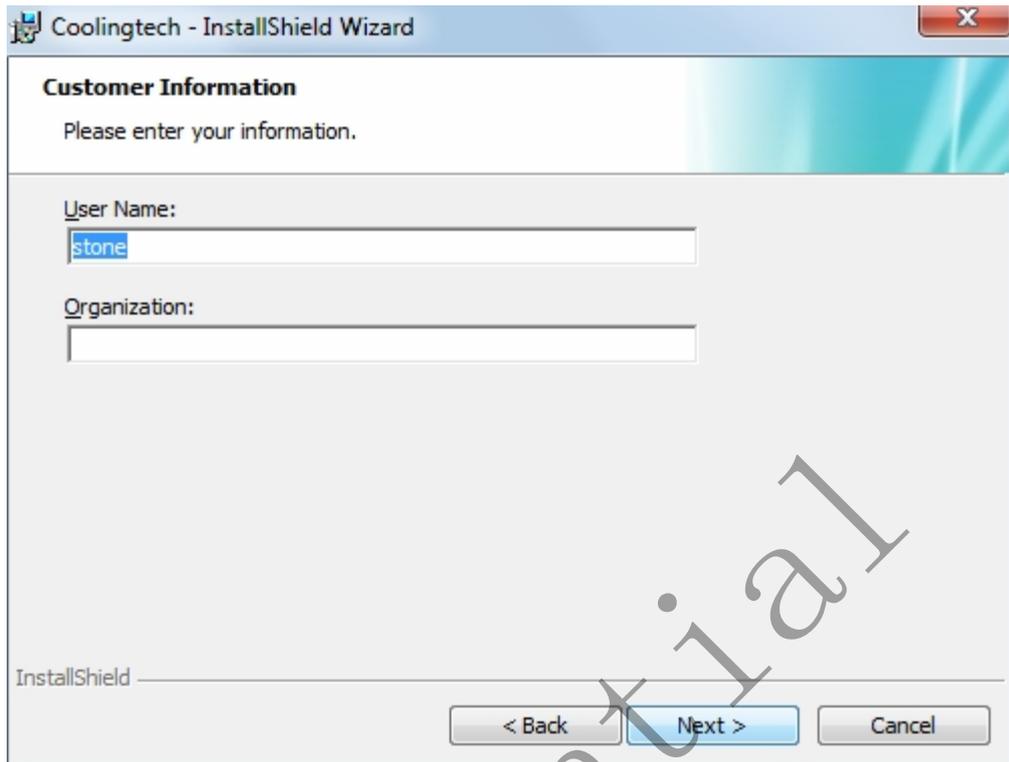
4 Click "next" to continue, as followings

5 Click "next" to continue, as followings

Coolingtech - InstallShield Wizard

Ready to Install the Program
The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

InstallShield

< Back   Install   Cancel
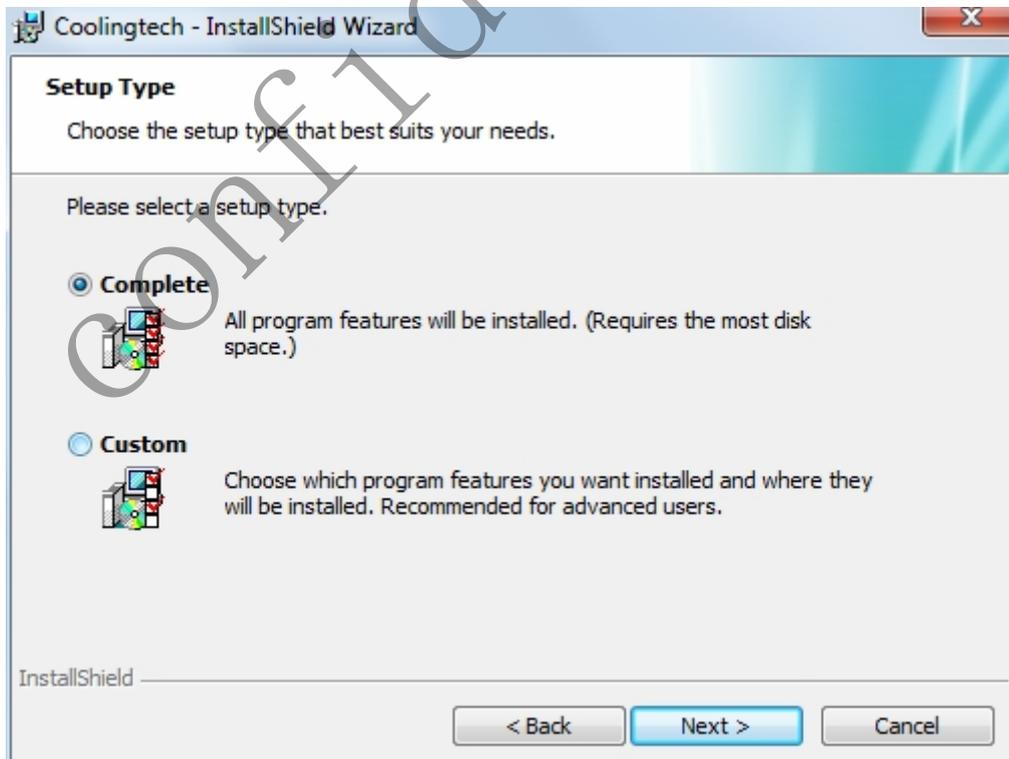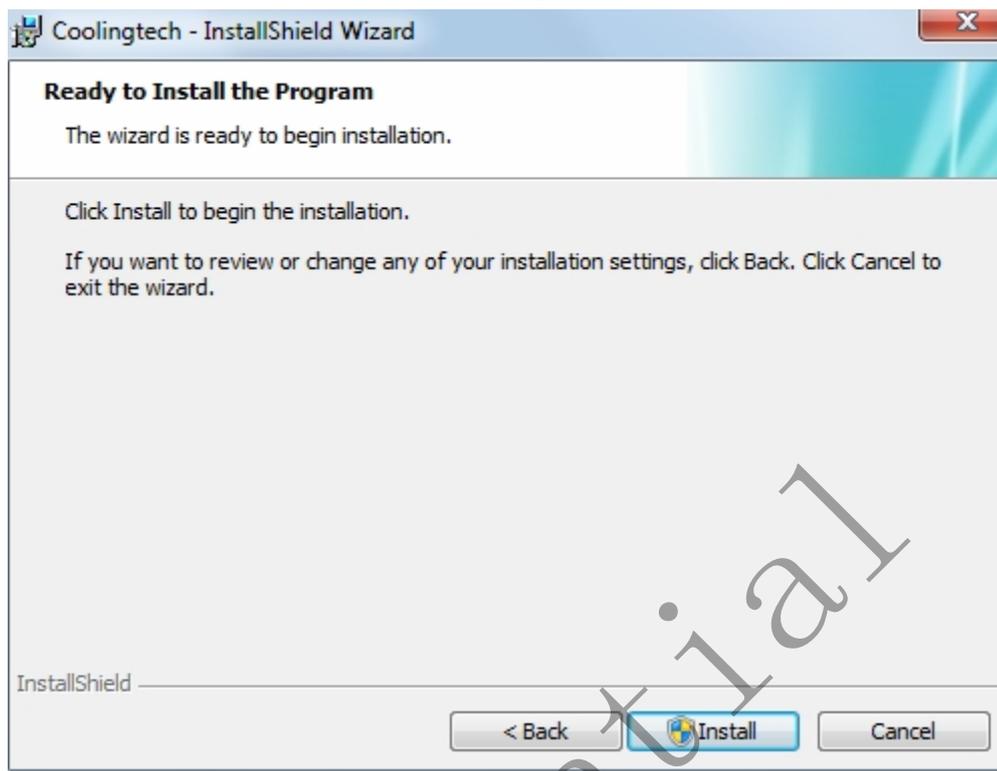
6Click "Install" to continue, as followings

Coolingtech - InstallShield Wizard

Installing Coolingtech
The program features you selected are being installed.

Please wait while the InstallShield Wizard installs Coolingtech. This may take several minutes.

Status:

InstallShield

< Back   Next >   Cancel
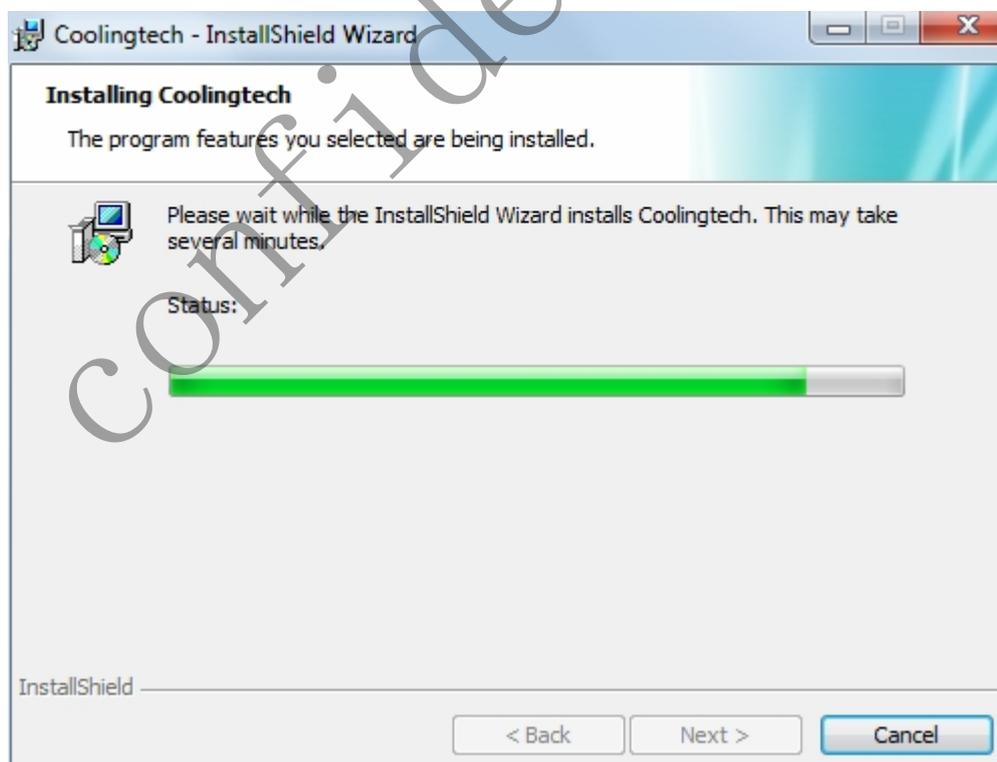
Wait a few seconds while the installation taking place.
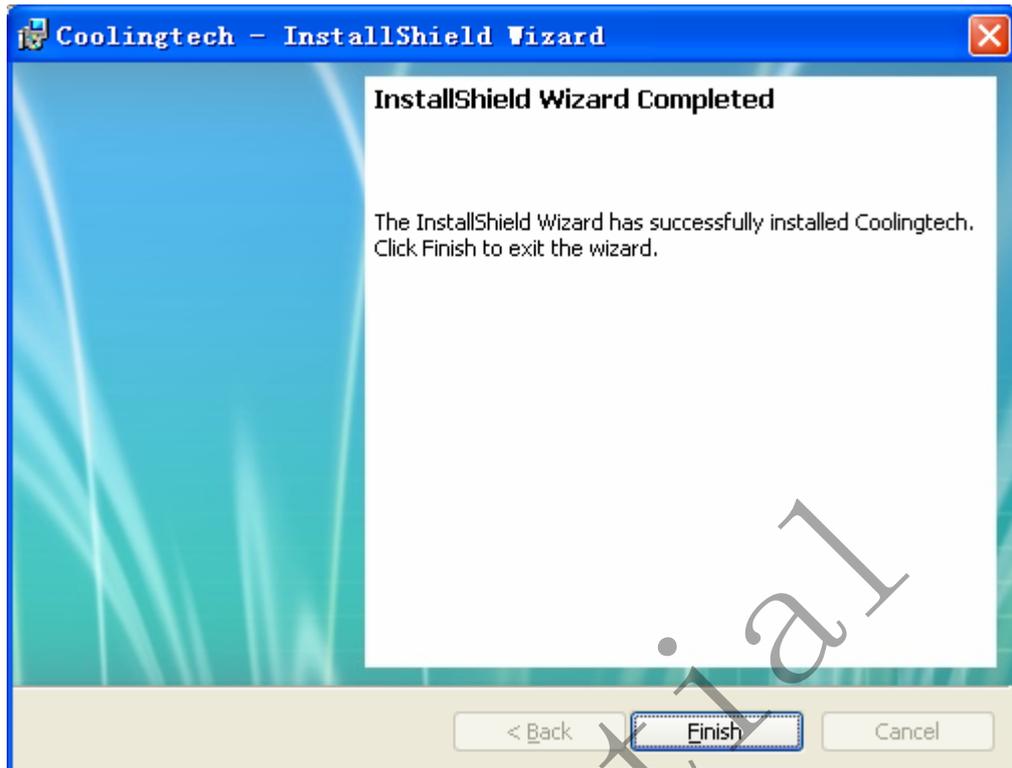
7Click "Finish" and the installation completes.

8After the installation completes, double click at computer desktop to start using the software.

Plug-in the devices, Display in operation window
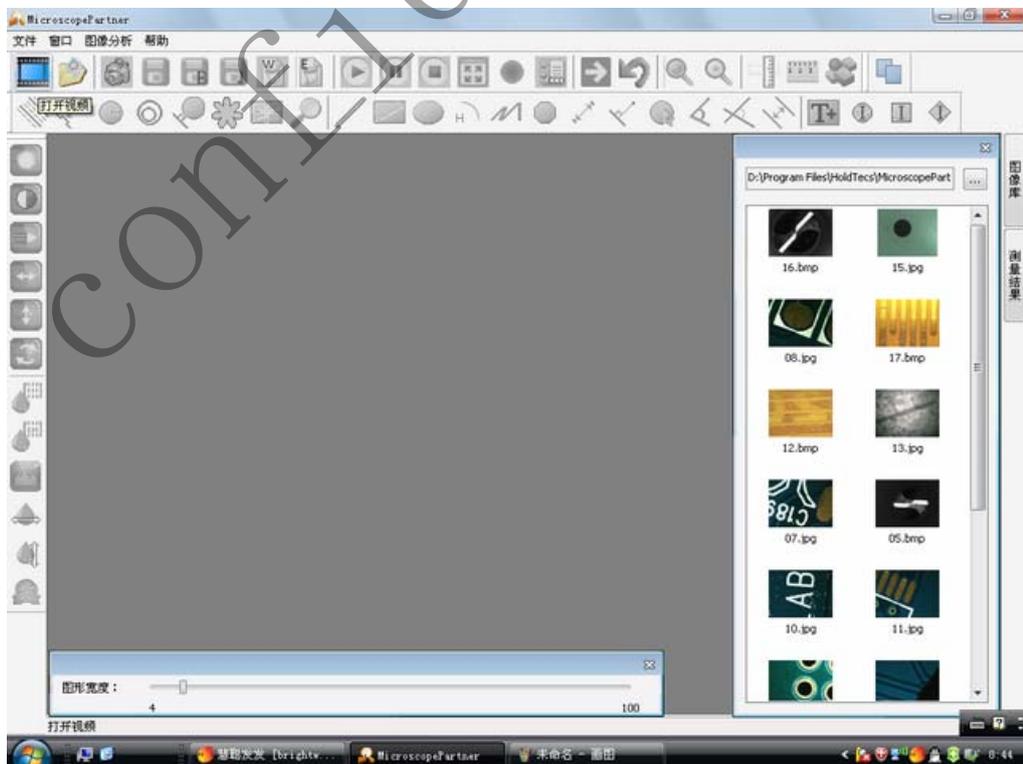
9 Click ,open the operation system
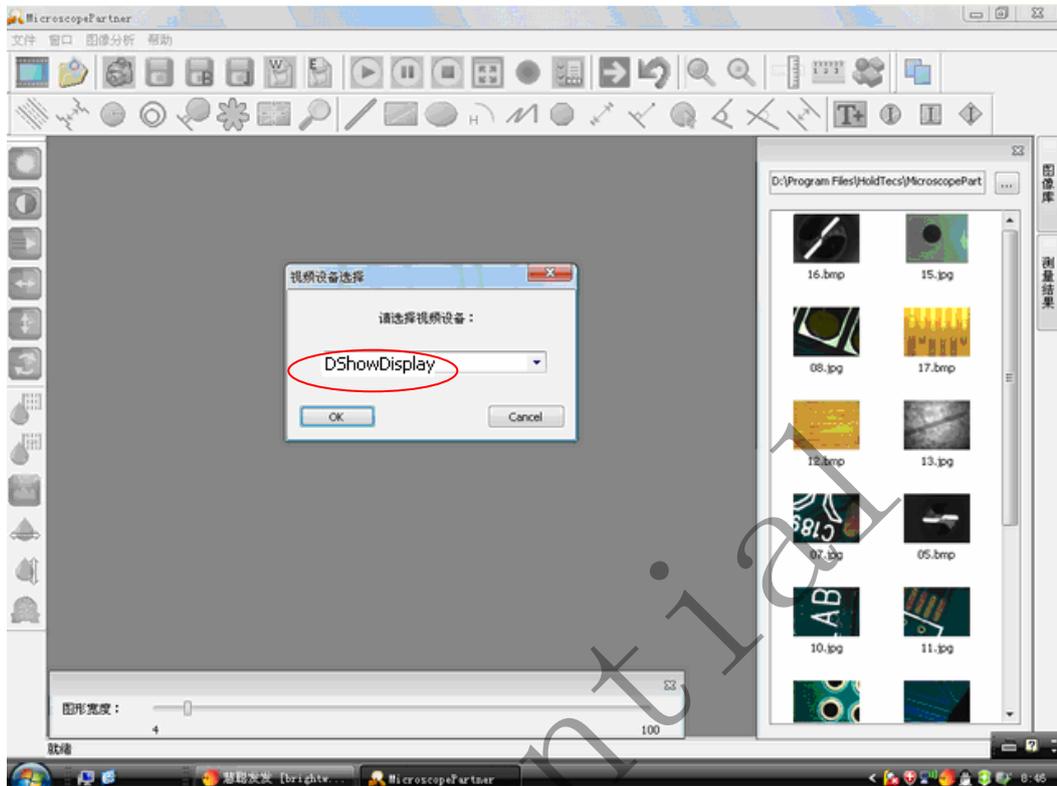
10 Click "OK"
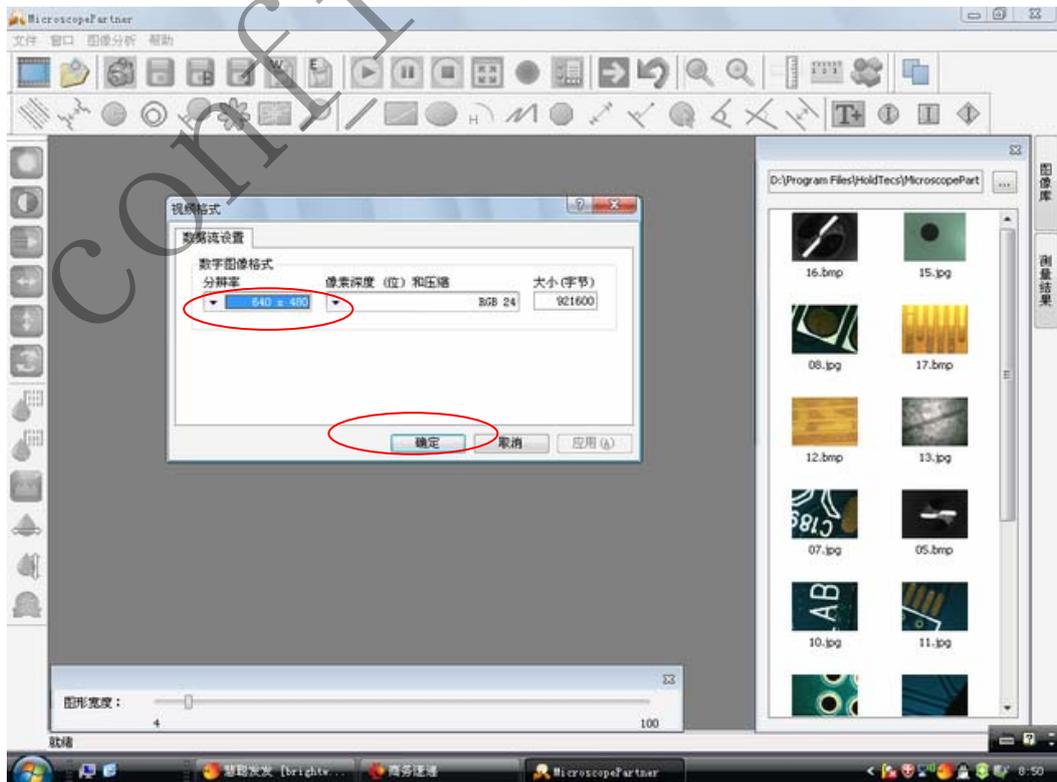
11Click to use measurement function.
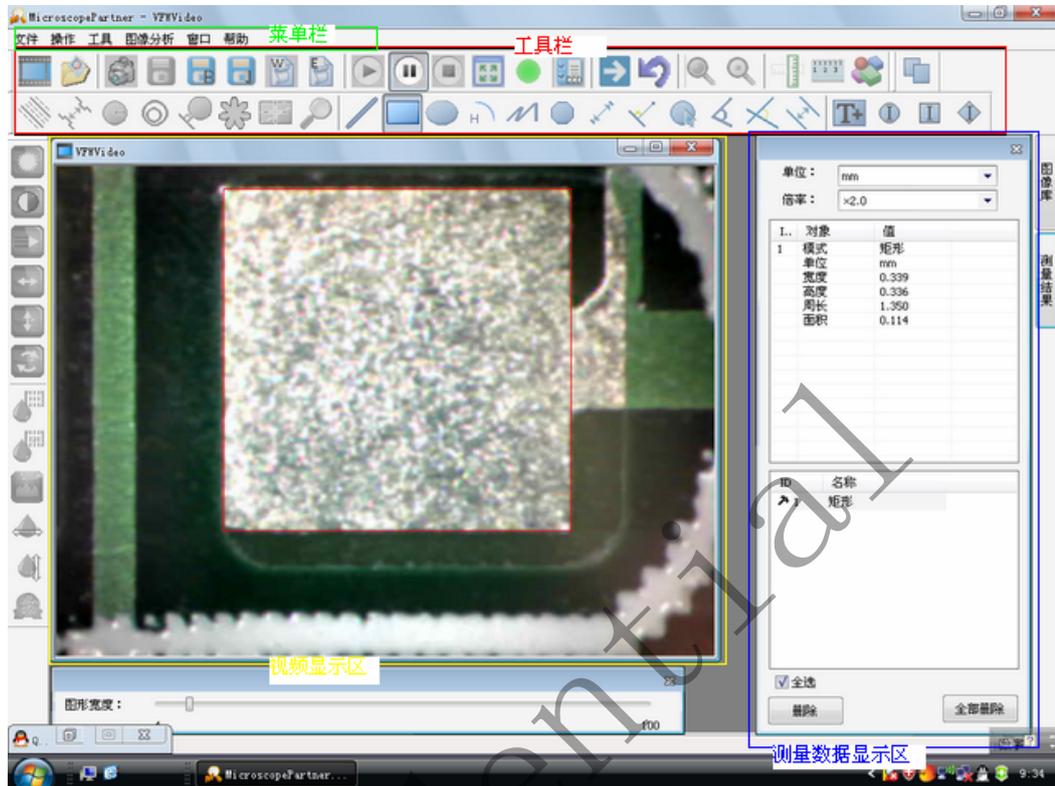
12Tool bar

open the operation system

open picture

Photo

save pictures a s Bump or Jpeg format

export word or excel format.

Video PLAY(Pause) ,STOP

Image Parameter including Image setting and special effects

Do   undo

Zoom

Ruler Line & calibration

Color setting &图形组合

13How to Measure

1   Line
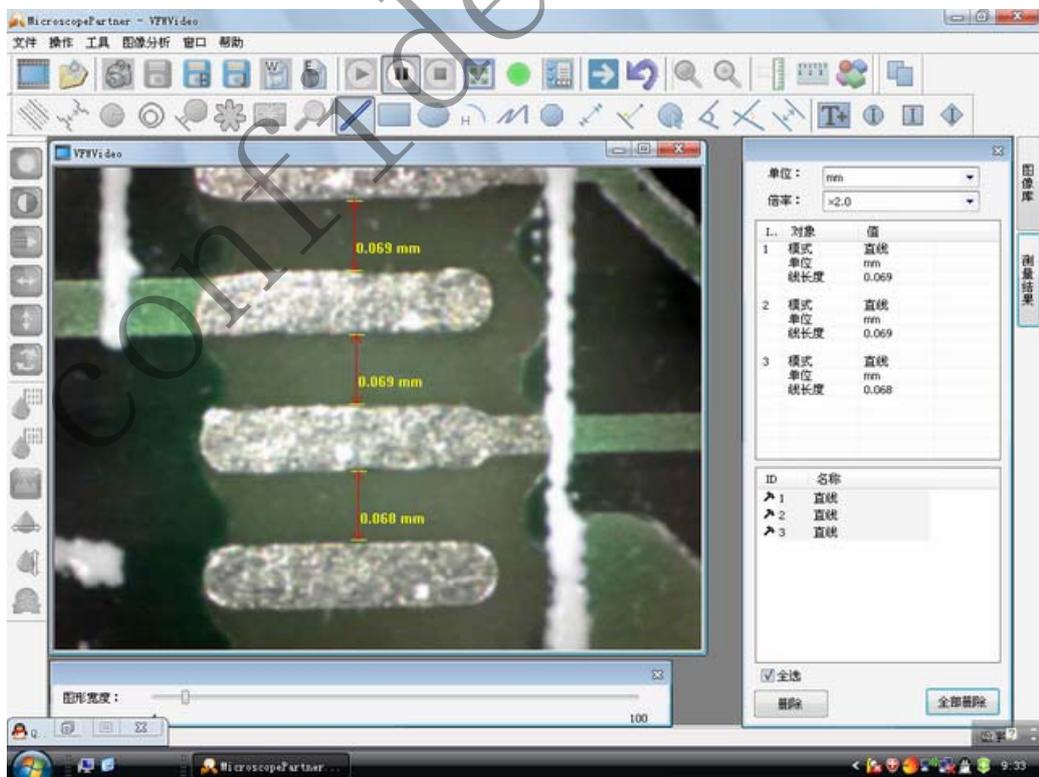
2   rectangle
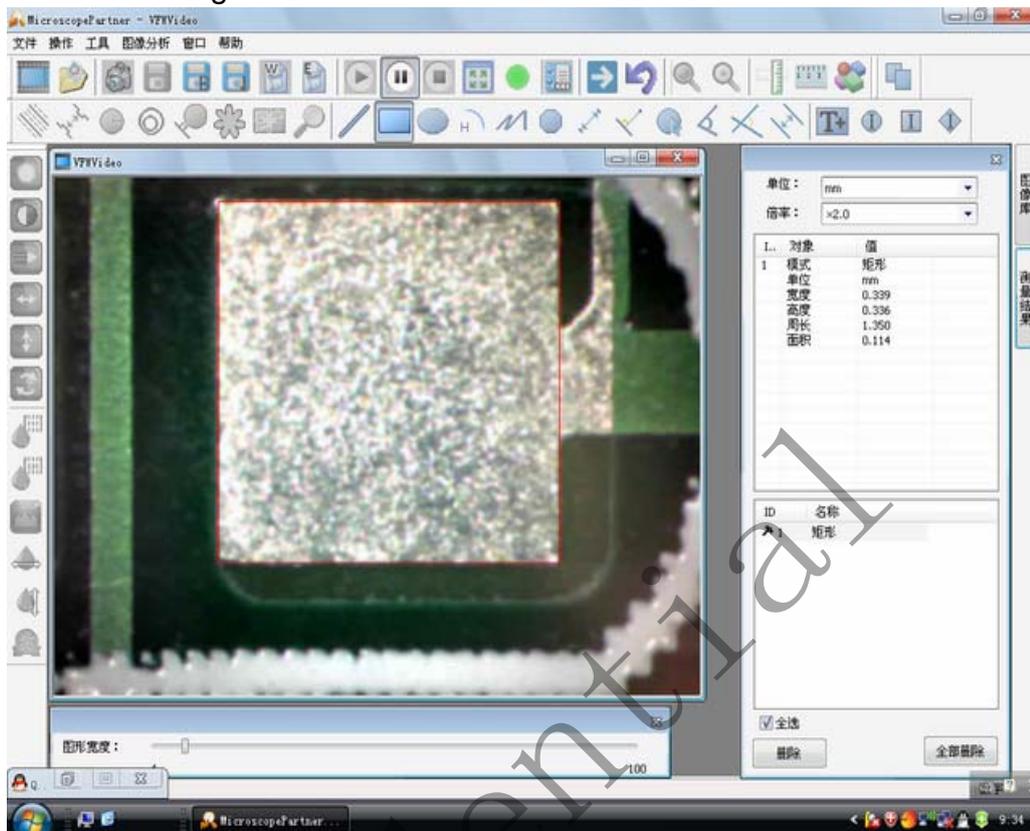
3   ellipse
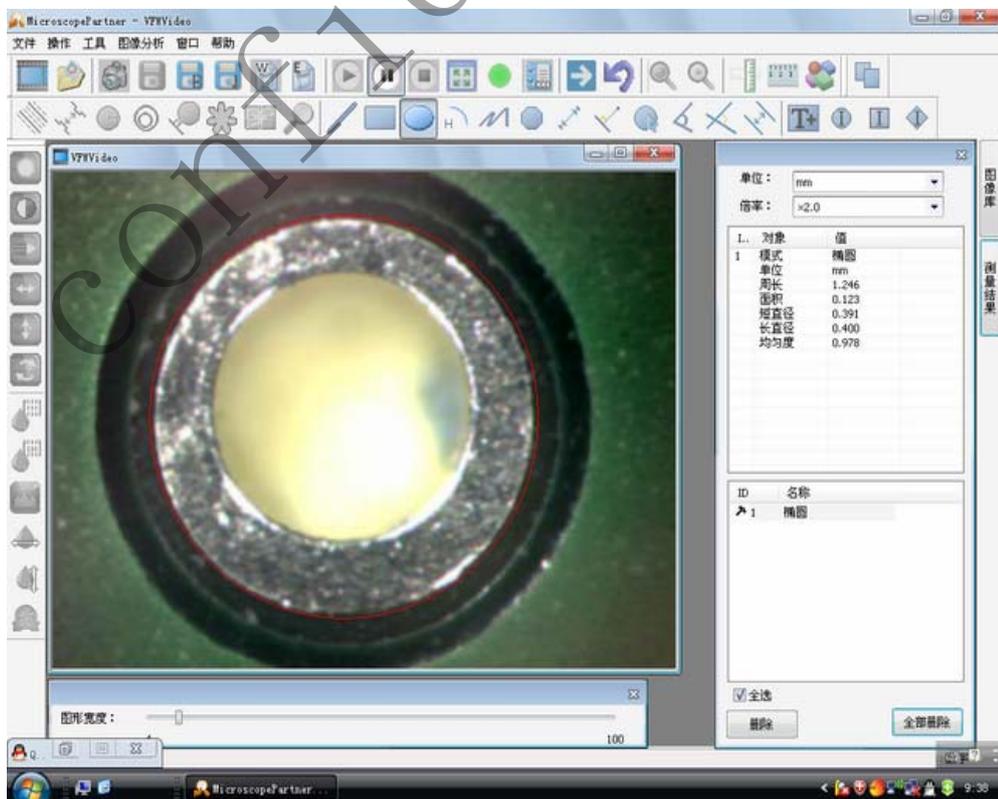
4 ⌒H arc
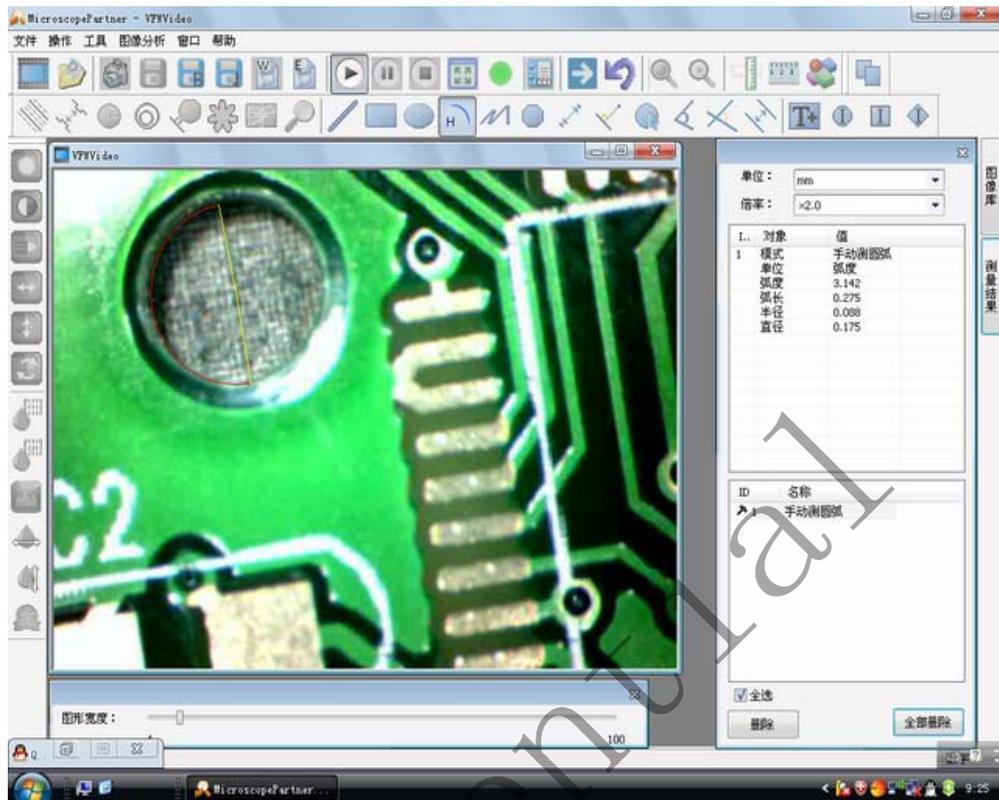
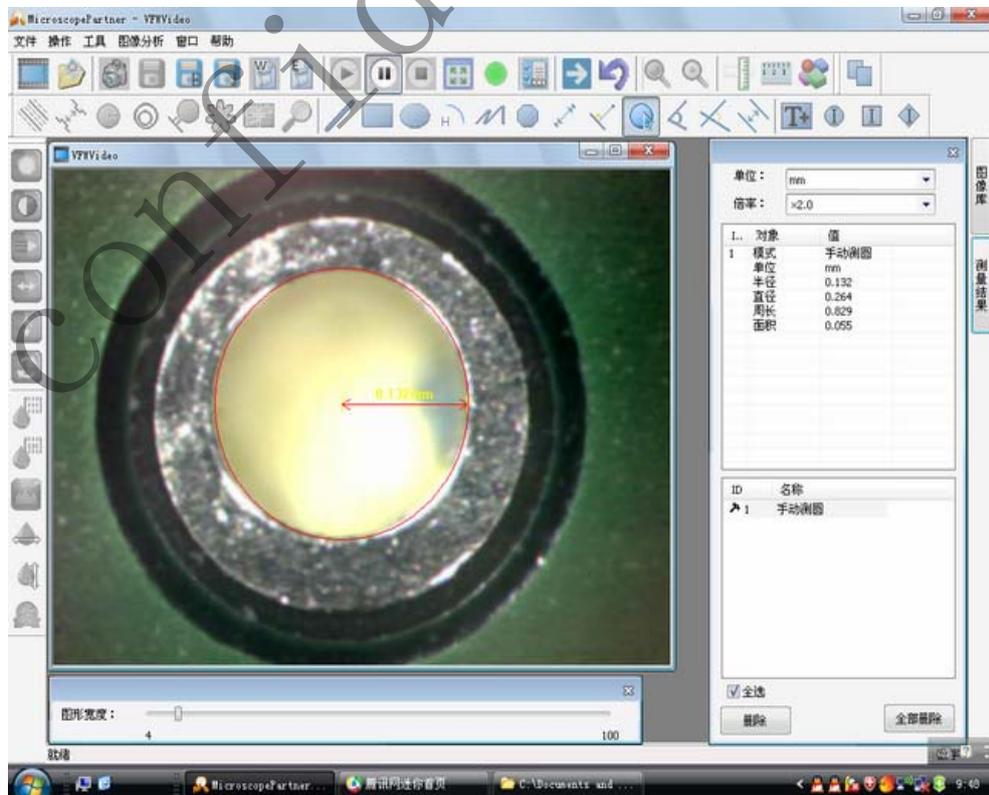5 〽 folding line
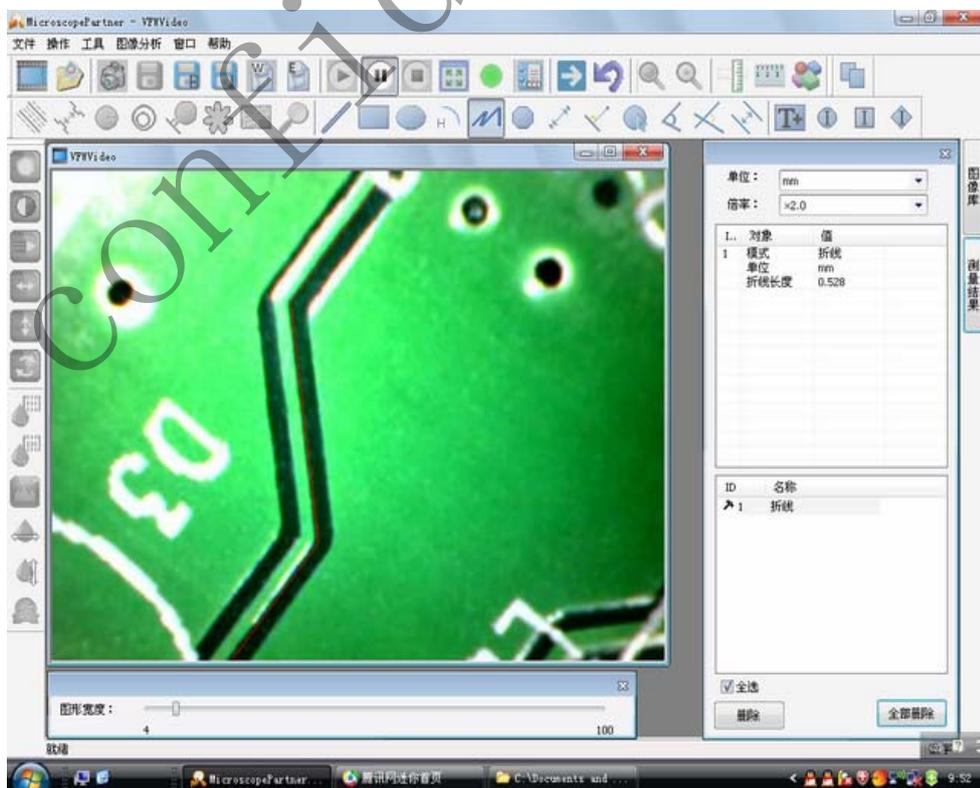
6 polygon
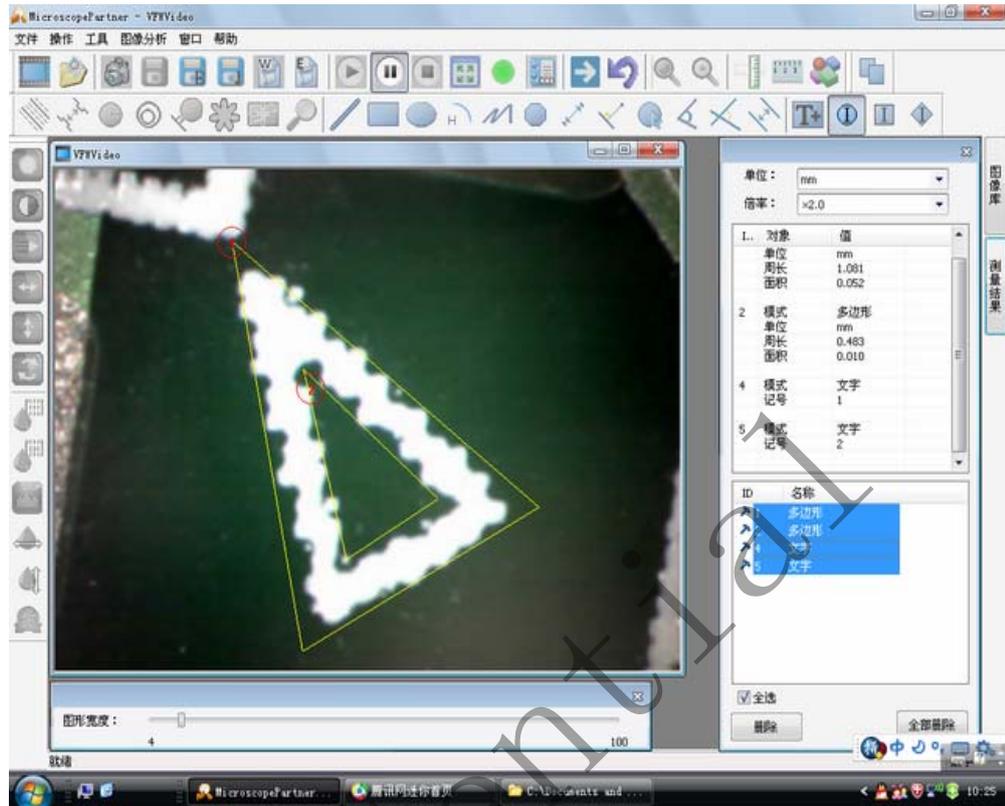
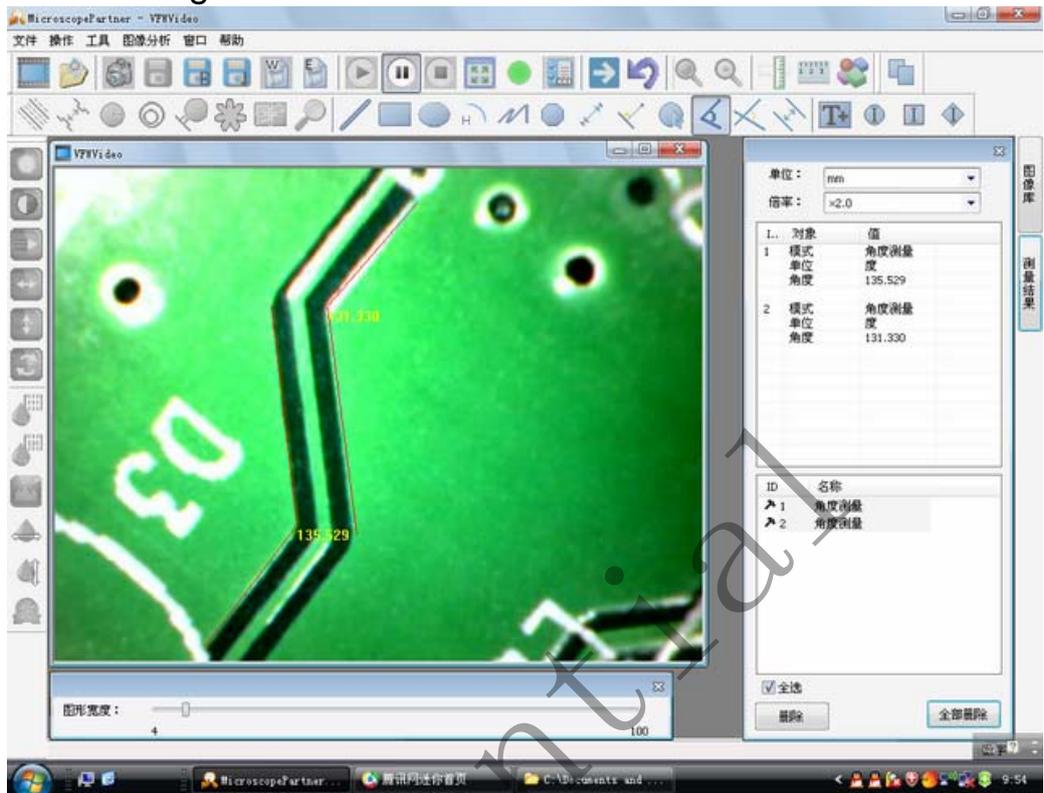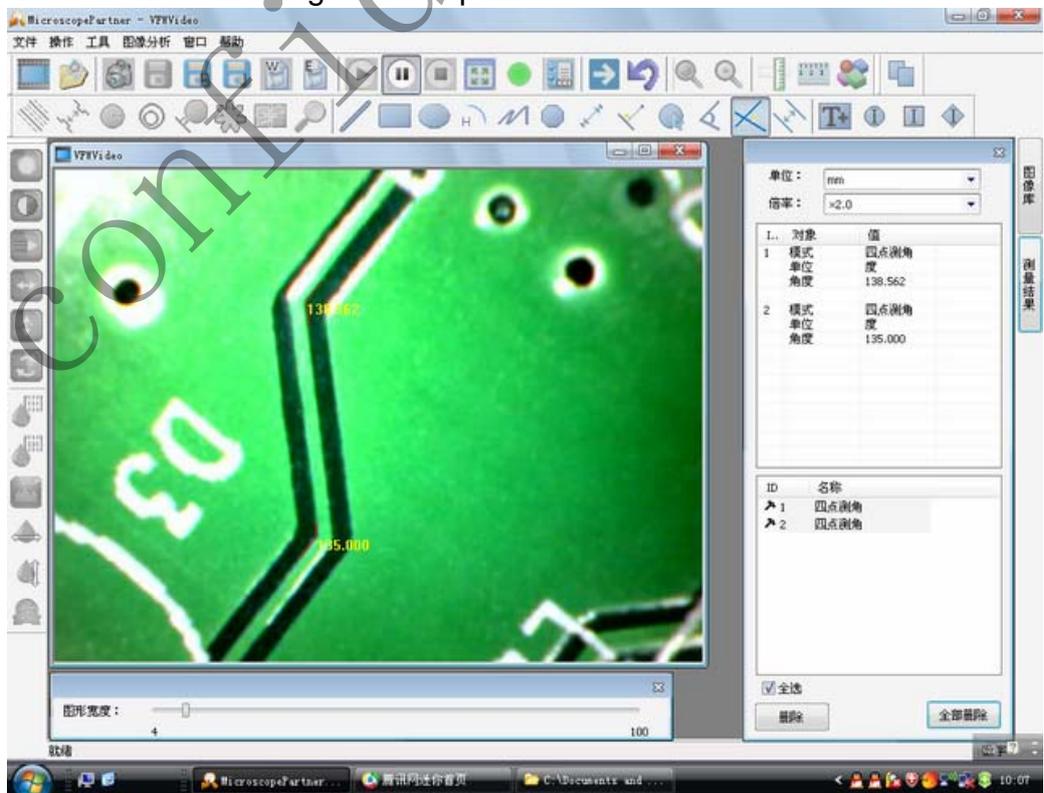7 Point to point
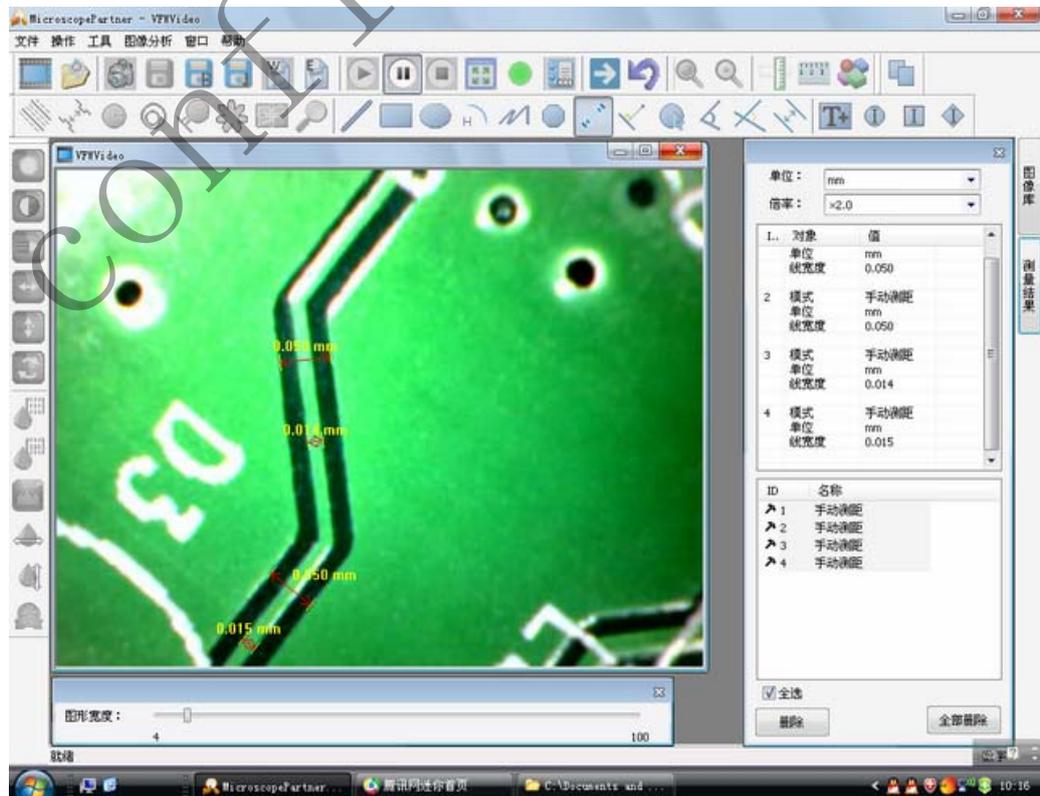
8   point to line、
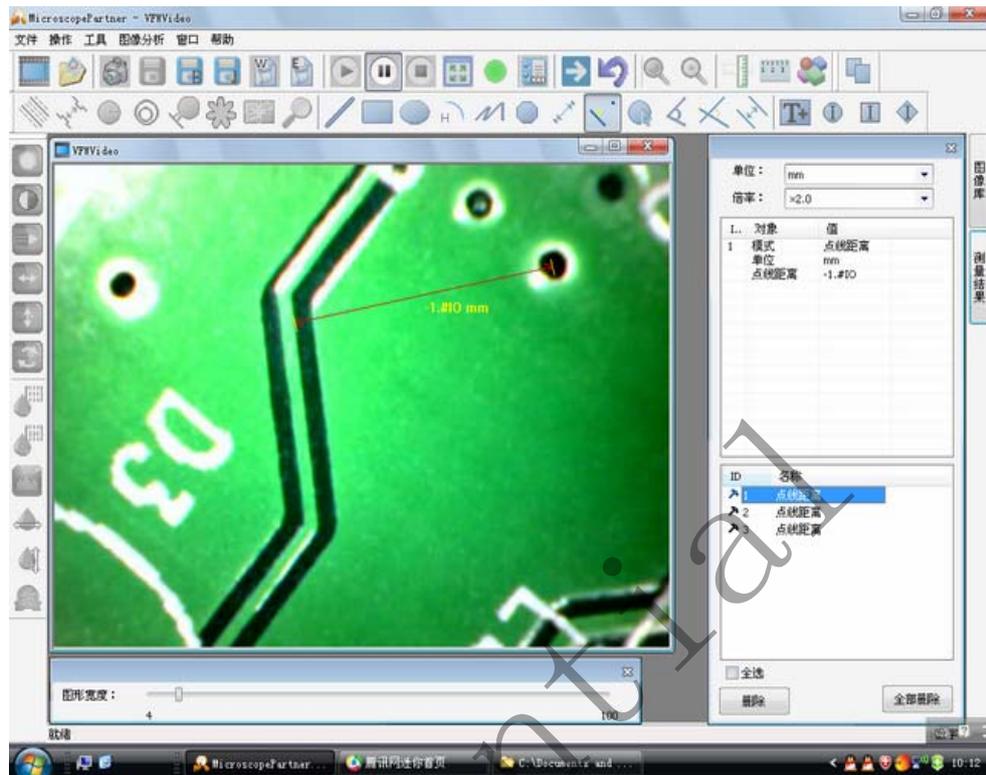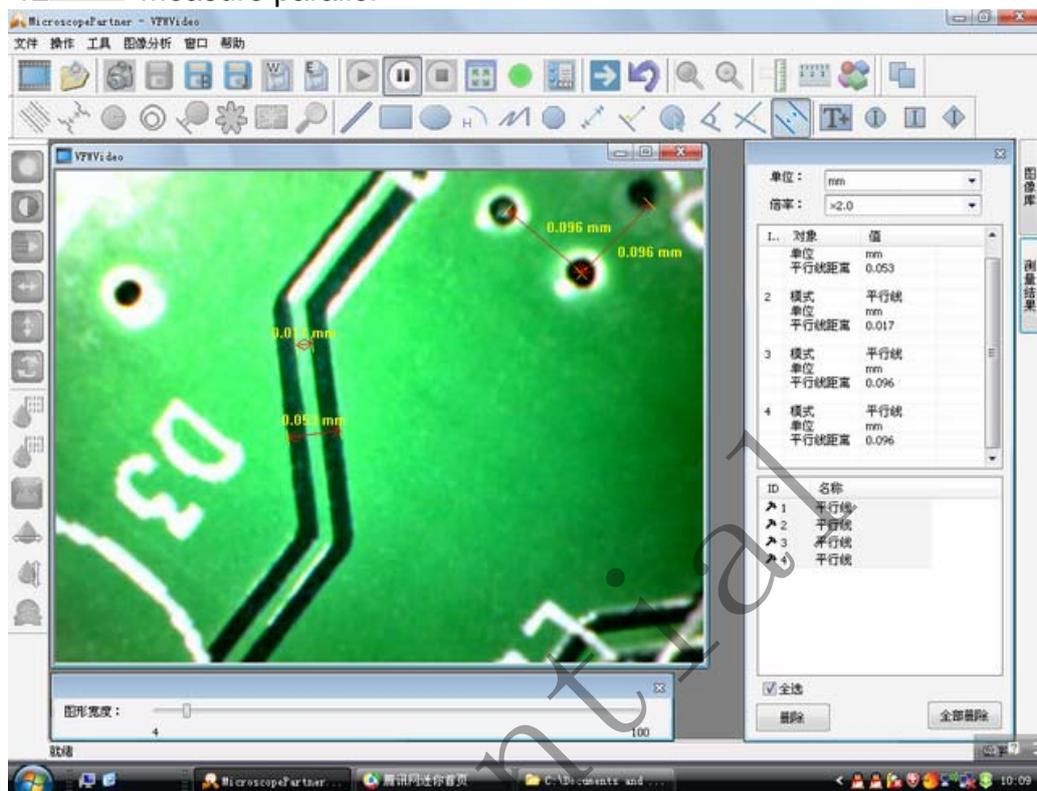

9   circle

10 angle

11 Measure angle from 4 points
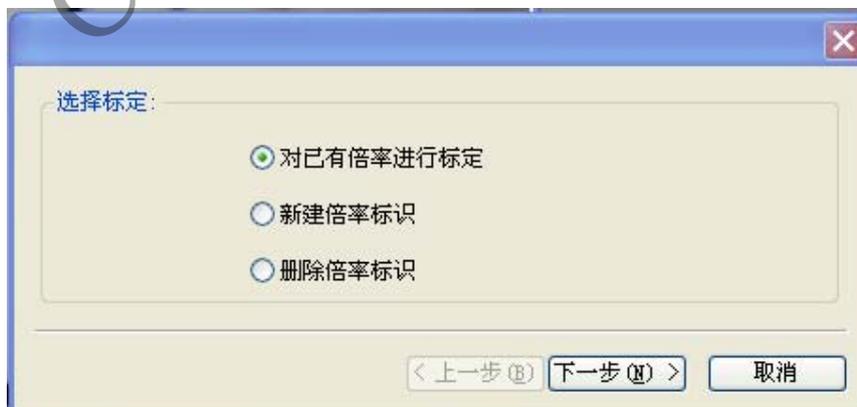
12   Measure parallel

14 Calibration
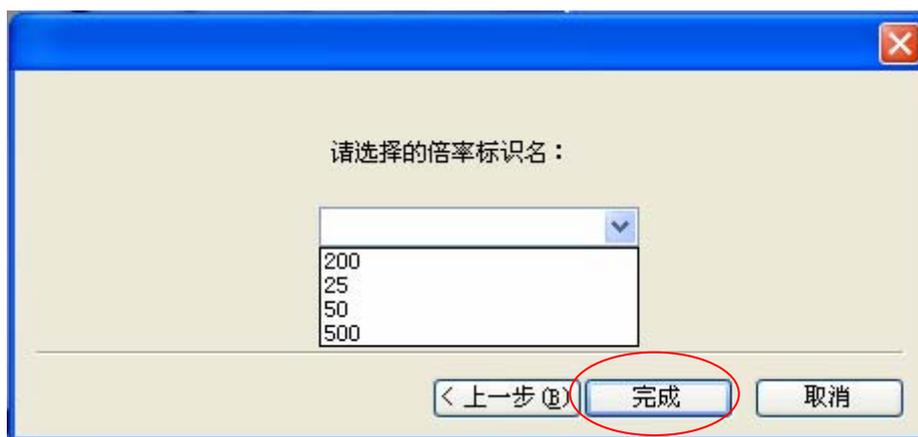
Click , start calibration make sure certain accuracy.

Our experience told us that measurement could be controlled at 99% high precision. Measure tolerance could be caused from human eye distortion and defocus. More practice is helpful to measurements.
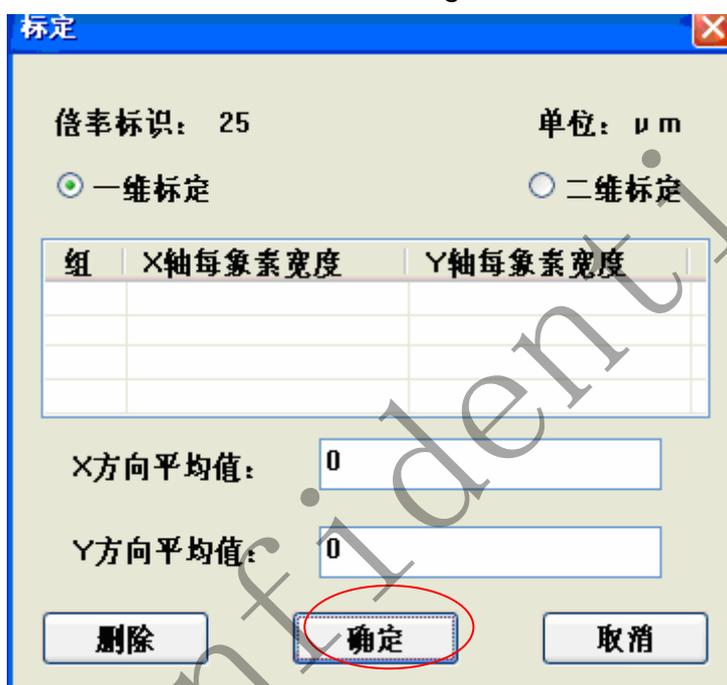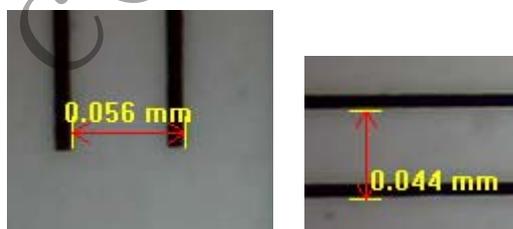
1 Click as followings

2 Click 'next' as followings

3，Click 'Finish' as followings

4 Put the calibration ruler under the microscope, the measure standard unit like 1mm as below

X轴 y 轴

Then use the standard unit 1mm divide measurement data, so you got the deviate data, for example（X :1/0.056=17.86

Y: 1/0.044=22.73) Put the deviate data to below column, please do calibration again once Magnification Ratio changed.

X方向平均值：　17.86

Y方向平均值：　22.73

删除　　　确定　　　取消

Warning:

Please do calibration again once Magnification Ratio changed.

3**Please click** Dotnetfx **to Continue when the**

NET Framework2.0 is necessary