User Manual

Thank you for buying our professional digital microscope.

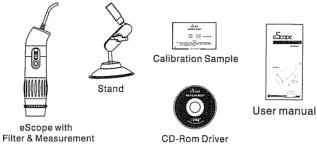
To guarantee the product function into fully play and prolong service life, please read the user manual carefully before installations. And the product shold be well clean and maintenaned when using it.

In line with the policy of continued development, if there are any amendments on the appearance, color or assemblies, please refer to the real object. Our company reserves the right to amend on the the specifications and the manual whithout prior notification.

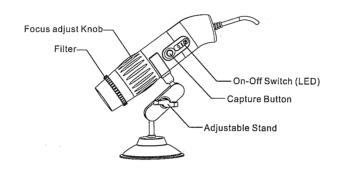
Parts list

Please check all the accessories are available before using

eScope with Filter & Measurement	1PC
Stand	1PC
Calibration Sample	1PC
CD-Rom Driver	1PC
User Manual	1PC



Product Overview



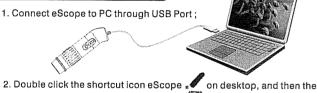
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Connect to computer

1. Connect eScope to PC through USB Port;

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real-time image will show up on screen

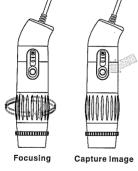
Operation Guide

Focusing

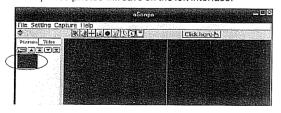
Put eScope on the subject and turn Focus adjust knob slightly to find the sharpest focus position.

Capture Image

After focusing, you can capture image by capture button.



The captured photos will save on the left interface:



Make sure not to jerk the eScope when taking a photo.

Capture reflective objects

- 1. When capture the reflective items, need switch 'LED' to the middle lever to make the light not too strong, meanwhile adjust 'filter' to filter stronglight, then the objects will be more clearly
- 2. After focus OK, you can capture image by capture button.

Software Guide

Remark: Before executing the software, please make sure the eScope is connected to the PC.

Double click the shortcut icon eScope on desktop, and then the real-time image will show up on screen



Slide mouse to the short cut icons in the main manual bar to quickly know the uses. (Please refer to eScope software interface instruction for more details.)

Capture Photo

- Click 'Capture > Photo'.
- Press the key F4 on keyboard.
- Click 'Capture Picture 'shortcut icon in the main menu bar.



Capture Video

- Click 'Capture > Video'.
- Press the key F8 on keyboard.
- Click 'Start/Stop Recoder Video shortcut icon in the main menu bar.



Computer System Requirement

- Microsoft Windows XP, Vista or Windows 7
- Pentium[®] 4 or AMD AthlonTM processor or higher
- 100MB Free hard disk space
- 1G BAM or more
- 16Bit Color display
- USB Port
- CD or DVD Driver

Software Installation

- 1. Insert enclosed CD into CD-ROM drive, the installation program will start automatically. (If installation program doesn't start automatically, please browse your CD-ROM drive and execute the
- eScopeSetup. exe" program.)



3. Click "Next" to install;



4. Click "Finish" to complete the installation;



5.Now the "eScope, " shortcut Icon will show on the desktop automatically;

6. eScope installed successfullyation.

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Time-lapsed Picture / Video

- Click 'Capture > Time-lapsed photo/video'.
- Press the key F5 on keyboard.
- Click 'Time-lapsed Photo/Video (shortcut icon in the main menu bar.

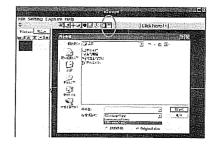


- A new dialogue box appears in which you can enter desired setting data.
- Under Time-lapsed photo, you can set the start time, interval time and total picture number
- Under Time-lapsed video, you can set the start time, interval time and total video number.

Save Picture or Video

All pictures and videos will saved under the assigned folder, if need to change the path, there are three ways as below.

- Click on 'File > Select saving folder' to choose a new path.
- Right click on the photo/video > Save as to choose a new path.
- Press the shortcut button in the main menu bar .



🔯 A new dialogue box appears in which you can enter desired setting data.

Calibration and Measurement

Please make calibration before measurement.

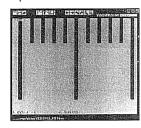
Calibration

Click on the shortcut icon or choose 'Display crossing' under 'Setting' option to display the crossing. It's used to check the dial is parallel or not

1. Focus eScope on the attached dial and then press on the AF button to adjust. Take a picture for the selected area when the dial is parallel to the crossing as below



2. Double-click on the picture to enter into measurement interface



3.Click the calibration icon in the toolbar, and then a dialog will popup.



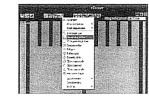
4. Click 'OK', the mouse will become a crossing on the screen. Click on the beginning and ending points across a known value (The default magnification rate and value will show up automatically). Now a dialog will popup as below and you need toenter the exact value of the measurement sample into the 'Actual dimension'. Then the software will automatically calibrate the magnification rate. Click 'OK' and the adjusted magnification rate will show in the upper right corner.



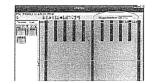
The broken line should be parallel to the dial during measurement.

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5. Now you can trough 'Calibration Straight angle line' to measure the value again. If the value you measure by software is nearly the same as the exact value of the dial means the calibration finish.



6. Base on the same magnification rate, click the icon click here and a dialog will show up automatically. Click 'OK' and the adjusted magnification rate will show in the upper right corner.



Measurement

Double-click on the picture to enter into measurement interface. Under the 'Measurement' icon , you can choose any desired options to

a) Any Angle Line Measurement:

Simply click from one point and drag to the next point, and then click again to lock-in.

b) Straight Angle Line Measurement

The Line measurement allows you to measure from one point to the next. Simply click and drag to the desired length, and then click again to lock-in.

c) 45 Degrees' Angle Line measurement

This function is for any 45 Degrees' Angle Line angle measurement. Simply click and drag to extend out to the desired angle.

d) Continuous Line Measurement

The Continuous Line measurement allows you to measure any continuous desired length. Simply click and drag from one point to other desired points, click again to lock-in

e) Polygon Measurement

The Polygon Measurement allows you to measure the side-length, interior angle degree, circumference and area of the polygon.

f) Radius Circle Measurement

Simply click and extend out to the desired radius, the radius, circumference and area of the circle will show up accordingly.

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g) Diameter Circle Measurement

Simply click and extend out to the desired diameter, the radius, circumference and area of the circle will show up accordingly.

h) Three Points Circle Measurement

Simply define any three points and click, the radius, circumference and area of a circle will show up accordingly.

I) Three Points Arc Measurement Simply define any three points and click, the circumference of the arc as

well as the radius and area of the sector will show up accordingly i) Three Points Angle Measurement

This function allows measurement of an angle. Simply click and drag to extend out to the desired angle.

k) Four Points Angle Measurement Simply define any two points and click for the first line, and repeat the action to create the second line, the angle degree between two lines show up accordingly

Change the Calibration

If change the magnification rate and adjust focus to capture picture, please calibrate the magnification rate again.

1. Double click to open the picture, Click > Reset picture magnification' as below. And then start calibration again (Calibration details please refer to page6~ page8).



After clicking 'Reset picture magnification', the icon in the upper right corner is Mainlineation NONE

2. Change the magnification rate and capture several pictures, click on the picture to enter into measurement interface. And click ' Set magnification > Set picture magnification', now a dialog will show up as below, enter the magnification rate into the dialog and click 'OK'.





3. If you want to use the same magnification rate to capture pictures, just click ' > Set magnification > Set capture magnification'. Now all pictures will use the same magnification rate and you can start measurement directly.



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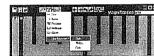
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Draw and Text

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You can draw or add a text on the picture for later analysis and study.

1. Click icon to choose any kinds of drawing under the pull-down manual.



2. Click icon and set the font for the text in the popup dialogue.



3. You can add any text on the picture after setting.

eScope Software Interface Instructions

Main Interface

Options instructions

File Option

Under 'File' option, there are select saving folder, open, delete, copy image, copy file, save as, photo save as display and exit.

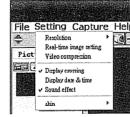


- \bigcirc Select saving folder --- Set the stored path for all the pictures and videos.
- Open --- Open the selected picture and video
- C) Photo save as display --- Choose to display the picture size, date & time, file name, magnification and the font size for picture saving.
- \odot The operations of delete, copy image, copy file, save as and exit are the same as normal.

Setting Option

Under 'Setting' option, there are resolution, real-time image setting, select device, display crossing, display date & time, sound effect and skin.

The functions of real-time image setting, display crossing and display date&timeare the same as the shortcut icons 🗳 👬 in the main menu bar.



- C Resolution --- Set the size for picture and video.
- () Real time image setting --- Set the brightness, contrast, color, saturation, definition, color correction, white balance and backlight.
- O Display date & time --- Choose to display or not display the date and time for picture and video
- C) Skin --- Choose the color for skin.

Capture Option

Under 'Capture' option, the functions of photo (F4), video (F8) and time -lapsed photo / video (F5) are the same as the shortcut icons of 🍱 💿 👯 in the main menu bar



Help Option

Under 'Help' option, there are method, eScope update and about. Click the method into the eScope software instructions. And click eScope update to enter "www.oi.com.hk/download" to download the latest software.



Toolbar Instructions

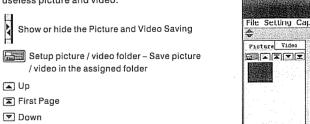
- Show or hide the title.
- ASC Select language Choose a desired language .
- Device setting If there are more then one video devices, please choose
- Crossing Display or hide the crossing, it helps to measure the dial is vertical and parallel when capturing the picture for calibration.

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- Capture picture It's used to capture picture one by one.
- Start / Stop recorder video.
- Real-time image setting Set the brightness, contrast, color, saturation, definition, color correction, white balance and backlight.
- Time-lapsed photo / video Set the start time, interval time and total photo/video number. Time-lapsed photo / video – Set the start time, interval time and total
- photo/video number. Save as - Choose a new path to save picture /video.
- Click here Show the magnification rate.

Picture and Video Saving

On the left side of the main interface, there are two folders for saving $picture \, and \, video. \, All \, the \, pictures \, and \, videos \, will \, save \, into \, the \, folders \,$ automatically after capture and show in thumbnails. The picture or video won't be deleted after closing the software. We suggest save the important picture or video to other assigned folder and delete the useless picture and video.



Blue border means the picture/video is not selected.

Green border means the picture/video is selected.

Options instructions

■ Last Page

Save as

Copy file

Copy to clipboard

Previous – Open a previous picture

Next – Open a next picture

Undo – Undo to last step Zoon in - Zoon in the interface Zoon out - Zoon out the interface

Redo – Redo to the step before undo

Draw - Choose kinds of drawing under the pull-down manual

Text -You can add any text on the picture

Measure – There are different tools for measurement under the pull down menu

Magnification NONE Display the magnification rate