YW5698A (2024 version) manual

SHENZHEN YOUNG WIN TECHNOLOGY CO., LTD

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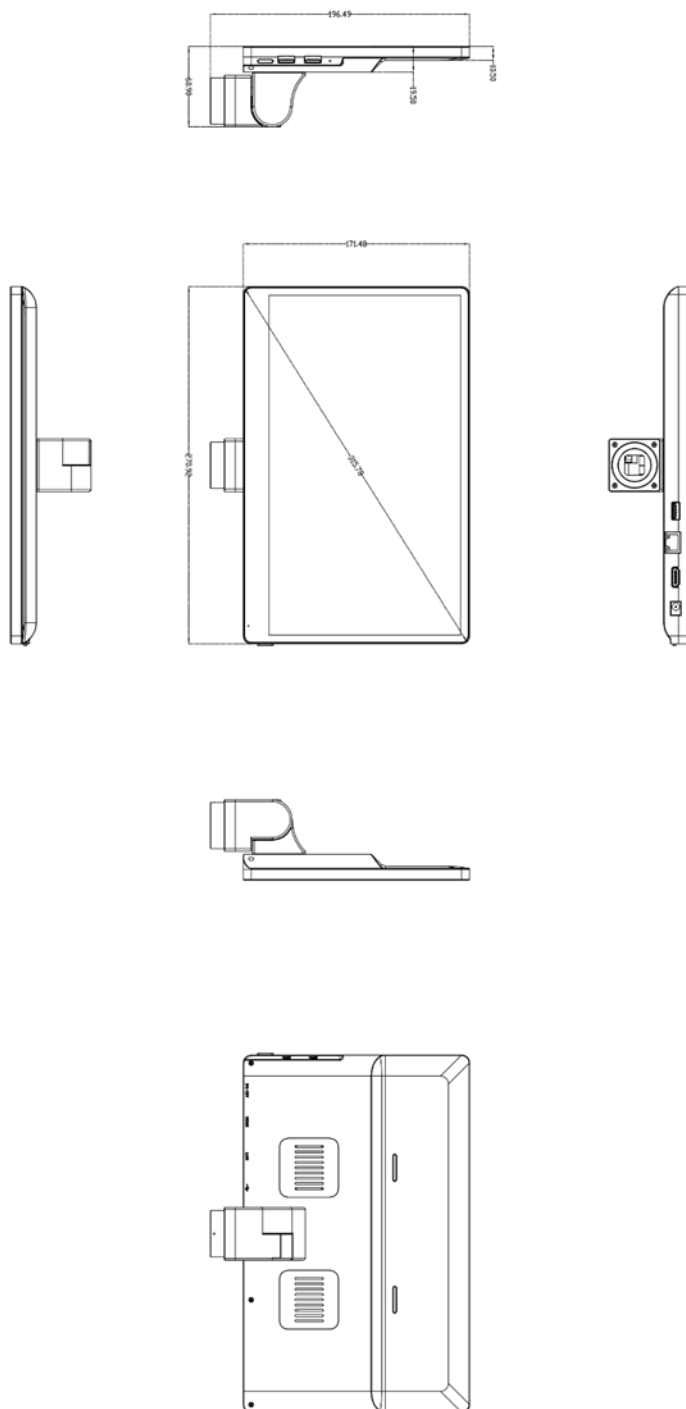
Features

1, fully laminated and full-viewing angle 11.6-inch high-definition LCD screen

2、intel 12 N100 CPU

3, DDR5 8GB memory 128 nvme solid state drive

4, USB3.0, HDMI, network port and other interfaces

5, Windows 11 64-bit system

6, built-in 16M high pixel imaging system

7, 2.4G WIFI wireless, Gigabit wired network port

8, 11.6 inches 1920 * 1080 screen

9, built-in S-EYE2.0 powerful measurement and analysis software system

Introduction

1、 Connect the product to DC-12V power supply first.

2、After connecting the power supply, press the power button, the product's blue

light is always on after switching on.

3、Double click the S-EYE software on the desktop.

4、Conduct the test according to the actual needs (whether to connect the monitor)

5, click on the 'open video source' in the S-EYE software, and click on the YW1600

6, Enter the required measurements and adjustments
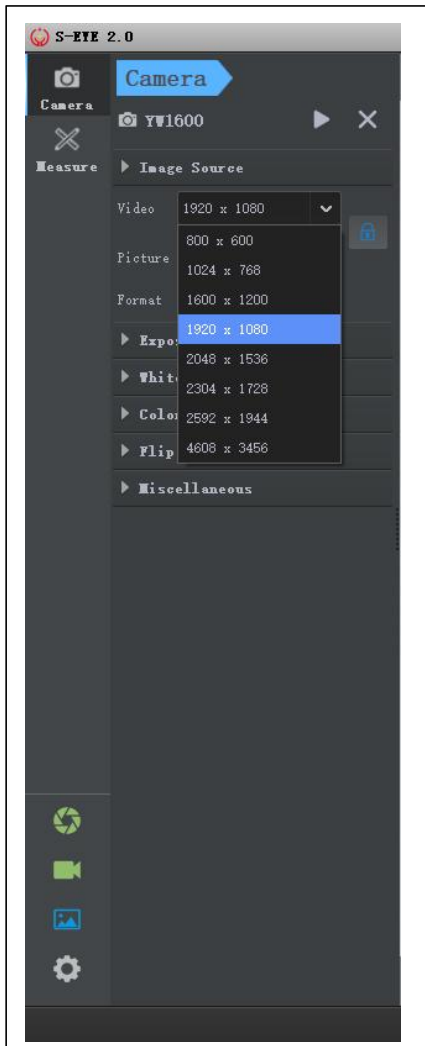
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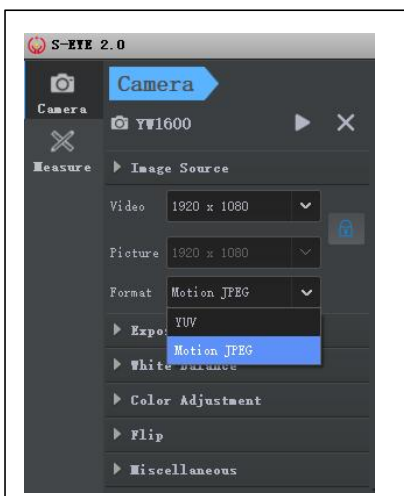
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S-EYE introduction
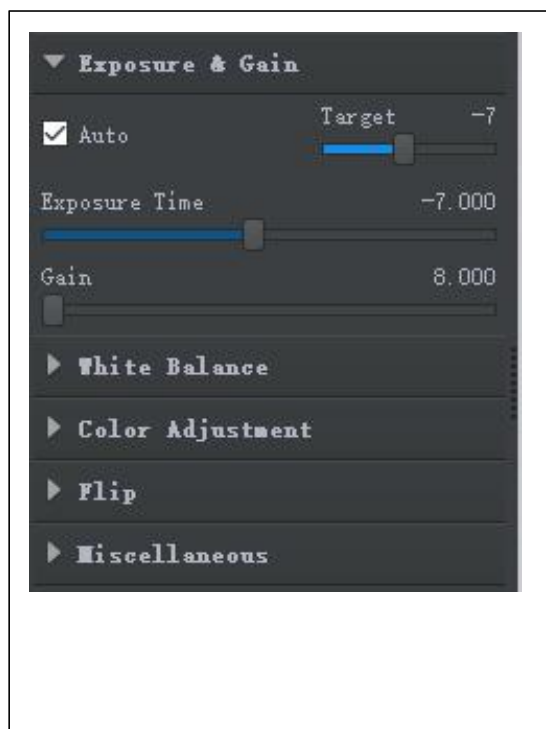

Resolution and image format

1. Clock the arrow beside the Video option, and choose the resolution you need(8 types of resolution)

2. After selecting the resolution, click the Lock icon on the right and lock it. If needing to reselect the resolution, please click the Lock icon first to unlock it then choose it.

3. After locking the resolution, the video and image resolution will keep the same.

4. Image format supports YUV and Motion JPEG

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Exposure, Gain and White balance adjustment

1、 Exposure

1.1：If needing auto exposure, please select Auto. Under auto exposure, the exposure time and gain can't be adjusted.

1.2：If needing manually adjustment, please use the mouse to adjust the exposure time and Gain.

1.3：Please set the exposure based on your requirements.

2、White balance

2.1：Support one key White blance

2.2：Support to use the mouse to adjust the color temperature

2.3：Default is system's default setting.

Color adjustment
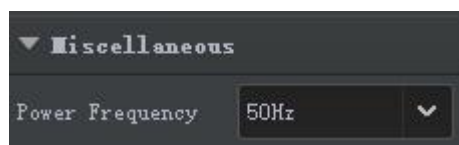

1、   Color mode: color/Mono/Invert.

2、   Contrast, Saturation, Gamma, Sharpness and denoise can be adjusted based on the

requirement(Use the mouse to click up/down key to adjust it.)

3、   Default: The factory default

Flip, Miscellaneous

1、 Flip

1.1：Support Mirror, click the mirror icon.

1.2：Support image flip, click the flip.

2、Miscellanious: Choose the right frequency（50Hz, 60Hz and Auto）

Others:

Snap : Click the icon and capture the image and save it to the computer.

Video : Click icon to start record, and click again to finish record and save the video to the computer.

Preview : Click the icon will direct to the file that saving the image and video.
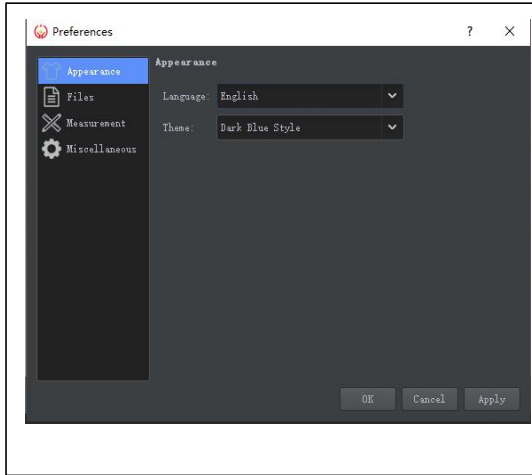
Setting : Click the icon and direct to setting menu.

Appearance

1、 Interface

1.1、 Language：Simplified Chinese, Traditional Chinese, English, French, German, Bahasa Indonesia, Japanese, Korean and Russian
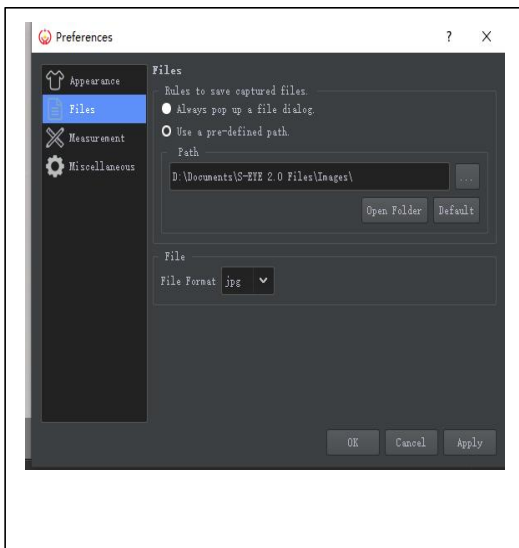
1.2、 Theme：Support Default and dark blue.

2、 Keyboard

2.1 、 Can set the full screen shortcuts based on your own requirement

2.2 、 Can set the image capture shortcuts based on your own requirement

Files

1、 Can choose pop-up dialog.

2、 Can set a pre-defined path

3、 File saved format supports jpg, bmp, png and tif

4、 After setting, click Apply and then click OK to save it.

Measurement

1、Default tool attributes : Including General tool, calibration scale, Annotation tool, Calculation tool, Plotting scale

2、After selecting the tool, can adjust the line color, width, frame width, text color, text frame color, text background color, font etc.

3、After setting, click Apply and OK to save it

Report

1、Can choose the pop-up dialog

2、Can set pre-defined path.

Others:

Can select Show scale bar by default based on your requirement.

标定编辑

Miscellaneous

1、Can use one push white balance based on your need.
2、When exit, it needs to confirm.
3、Maximize the main window.
4、After setting, if needing to reselect, it has to restart the S EYE.

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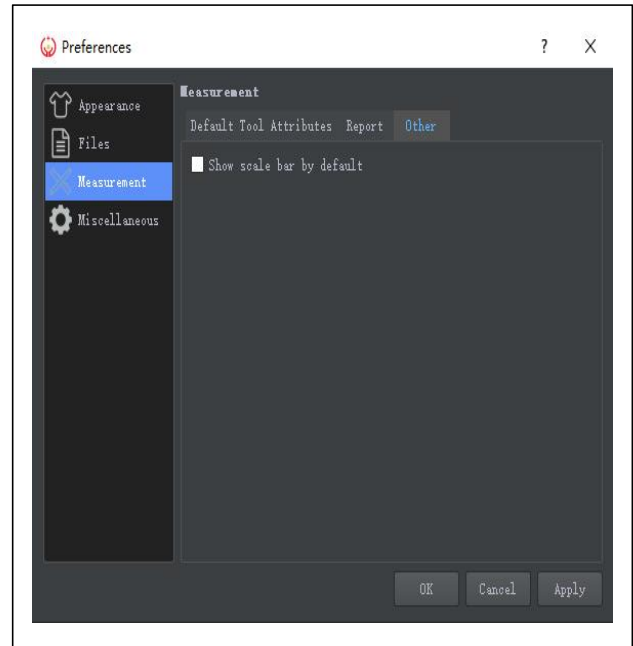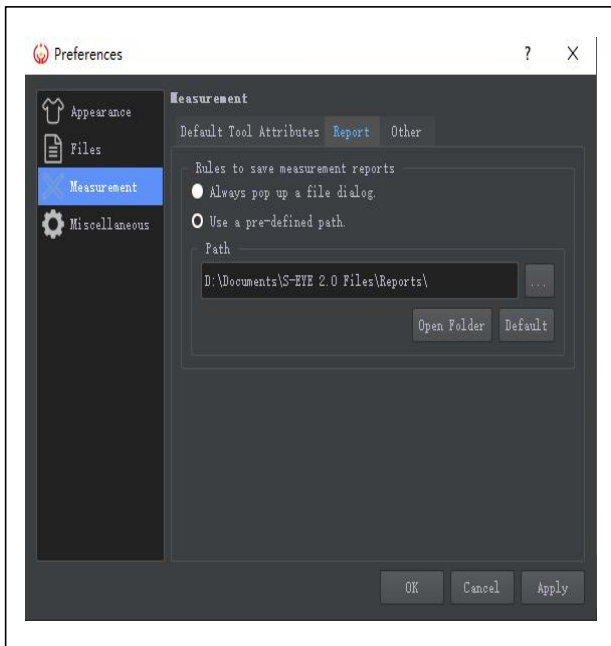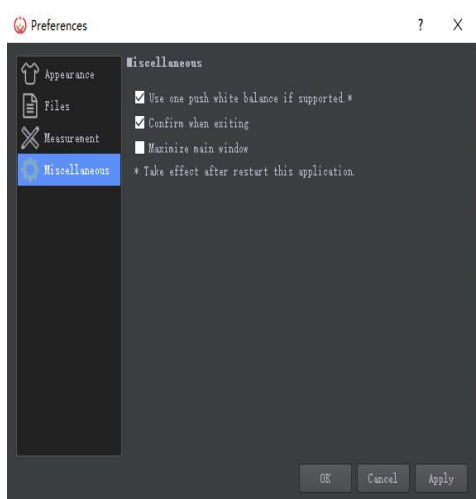Xuegang road, Bantian street, Longgang district, Shenzhen, China

Calibration edit

Before measurement, please check the microscope magnification and image preview resolution

1. Click the "+" to start the calibration.
2. Choose the corresponding magnification in the Title option
3. Use the mouse to drag the middle line of screen, and adjust it to the actual length. (in following picture is 766.00px)
4. Input the number in the Actual length option based on the actual length, and select the length unit. (The picture is 4.000nm)
5. Calibration will calculate the ratio based on the actual length and pixel length.
6. After confirming, click "OK"

Click the Edit button beside the Calibration, you can delete the set calibration

Measurement tool

Drag：When mouse click the button, can drag the picture displayed on the screen.

Select：When click this button, can select and move the position of the edited line of the picture on the screen.

Delete：When click this button, it has two options-Delete and Delete all. When choose Delete, it will delete the selected item. When choose Delete All, it will delete all items on the screen.

Counter：When click this button, can sort items on the screen by order.

Straight line：Can click anywhere on the screen as start point, and click again to determine the distance between the start and end.

Broken line：Click anywhere on the screen as a start, and click again to determine the distance between start and end, and the second point also is the start of the new line...The measurement is the

Rectangle：Click anywhere on the screen to determine the right-angle, and click again to determine the rectangle area. The result is the rectangle area

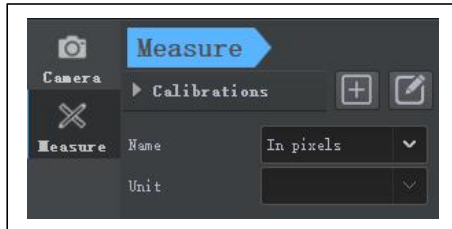**Polygon**：Click anywhere to determine one angle, and it will increase one angle when click each time.

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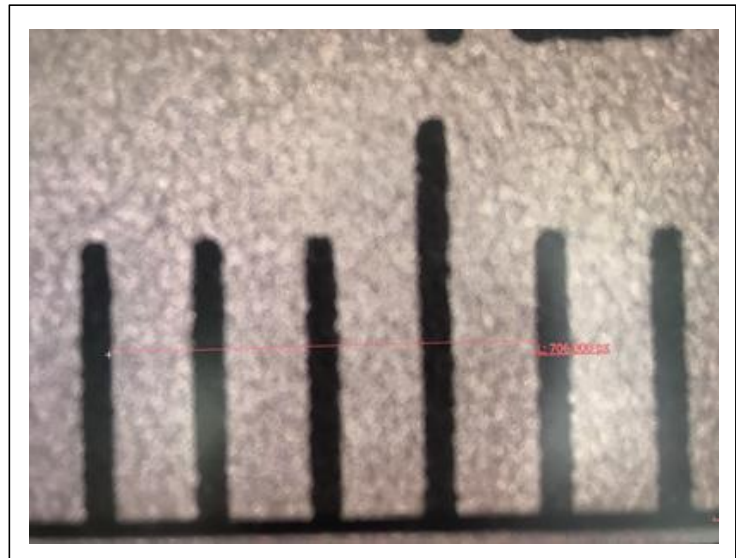**Add:** Room 1609, Building 4th, Phase 2nd, Tian'anyungu industrial zone, No. 2018 Xuegang road， Bantian street, Longgang district, Shenzhen, China

Parallel lines :Click anywhere to determine the start point, and click again to determine straight line.
Click again to determine the parallel line. , Measure the distance between parallel lines.

Vertical line : Click anywhere as a start point, click again to determine the straight line. Click again to

determine the vertical distance between point and straight line

Angle : Click anywhere as a start point, click again to determine the straight line. Click third time to determine

the second line. Measure the angle between two lines.

Arc : Click anywhere as a start point, click again to determine the line. The third point and second point
determine the second line. When goes through three radians, measure the length of the arc.

Center +Radius : Click anywhere to determine the center of a circle, click again to determine the
distance to center. Measure the radius.

Two points define a circle :Click any point in the interface to determine the point on the circle. And
then click to determine the diameter distance between two points and the value is the radius.

Three points define a circle :Click any point in the interface to determine the point on the circle.
And then click the distance between the diameter and the point. Thirdly, click the distance between the circle
and the second point. The value is the radius.

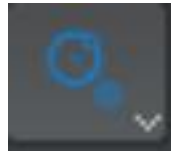## SHENZHEN YOUNG WIN TECHNOLOGY CO., LTD

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Two circles radius : Concentric circle: Click to determine the center of the circle at any point
in the interface. Secondly, click to determine the distance between the center of two circles.
Thirdly, click to determine the distance between the center of two circles. Then measuring
the radius of the two circles

Center +Radius: Click anywhere to determine the center, click again to determine the circle.

Click third

time to determine another distanced center. Click fourth time to determine another circle.

Measure the

Two points circle : Click anywhere to determine a point of the circle, click again to determine

diameter

distance. Click third time to determine the point of another circle, and click fourth time to

determine the

Three points circle : Click anywhere to determine a point of a circle, click again to determine
the diameter distance. Click on the circle to determine the distance with second point. Repeat
the steps above to draw another circle. Measure the distance between two centers of two
circles.

Text : After clicking the button, the dialog box will pop up for annotation

FCC Warning Statement:

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. 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation

distance of at least 20 cm from all persons and must not be co-located for operating in

conjunction with any other antenna or transmitter.

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