Full HD HDMI 1080P@60FPS&4K30FPS

Using sony high-definition high-sensitivity CMOS sensor.

*The camera is connected to a high-definition display with an HDMI cable,

Connect the mouse and U disk through the dual USB ports of the camera

Capture or record the current image, no need to connect computer operation.

The camera's unique fast boot, user-friendly

Simple style UI interface, even for the first time

It can also be used quickly.

SENSOR IMX334

Sensor size: 1/1.8

Pixel size: 2.0*2.0μm

Output resolution: 3840*2160

Frame rate: HDMI+USB@ 30FPS

Image storage method: U disk

Video: 1920*1080&3840*2160@30FPS

Exposure time: 0-999MS

Exposure: Automatic and manual, providing target brightness

settings

White balance: automatic and manual

Parameter settings: contrast, saturation, gamma, sharpness, noise reduction, etc.

System software: Youngwin OS

PC software: S-EYE2.0

Working temperature: 0-60℃

Product function introduction

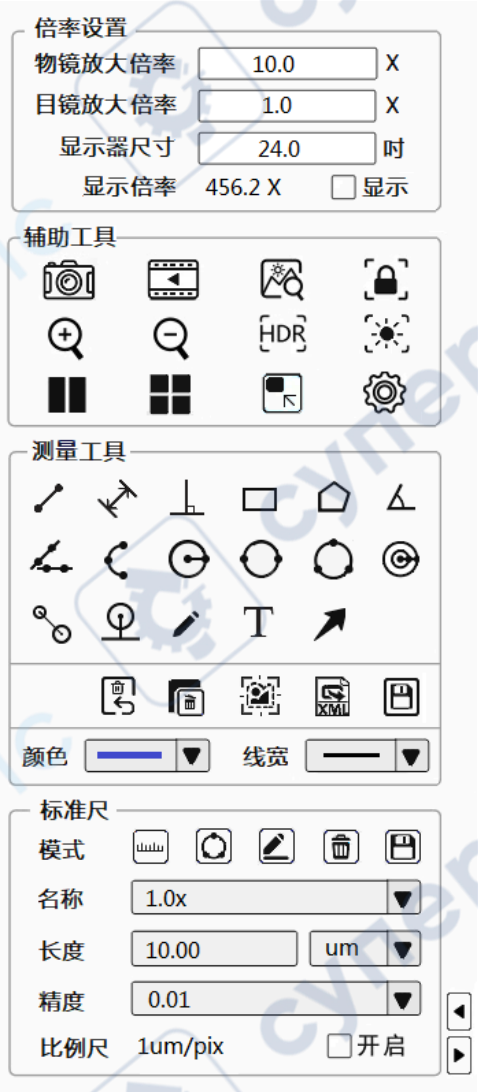
Boot interface

After the camera is connected to all interfaces, power on (DC power supply), the product will automatically turn on, and wait for the display screen to appear on the monitor.

as the picture shows:

Main interface

After the screen is displayed, the user directly moves the mouse to the left side of the screen to pop up the main interface (as shown in the figure).



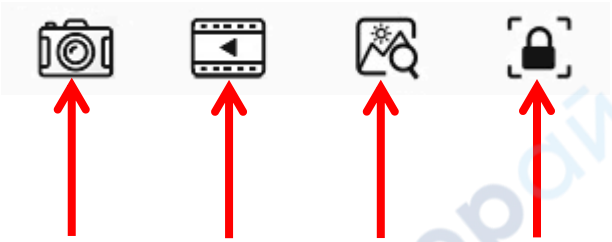
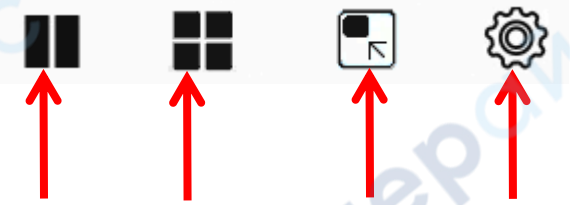


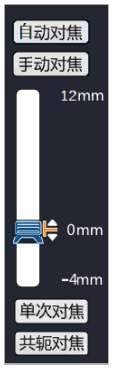
photo video preview freeze

Zoom in Zoom out HDR exposure



Contrast Quad screen area zoom settings

Focus: Click the focus button to display 4 focus modes, as shown below:



Compare: This function compares pictures in the external storage device with the real-time preview video

Quad-split screen: When entering the 4-screen comparison, double-click any 1/4 preview box with the mouse to freeze the image, and double-click again to unlock the freeze function.

Click the Settings button with the mouse to enter the setting interface, as shown below:

1.Videosettings:

Drag the corresponding progress bar under this menu to adjust the image parameters accordingly. Manually adjust the exposure time to set the image brightness. When the light source is stable, you can click the one-click icon to achieve an image white balance calibration action (this function must be aligned white standard for calibration), the camera will

no longer do automatic white balance after calibration

2. Grid line settings

Click the box in front of the central tick mark to open the central tick mark. Under the object bar, you can turn on or off any one as needed, and you can also set the color of each bar (8 colors are optional) and line width (4 line widths are optional), and 8 sets of grid lines can be saved under the mode option, which is convenient for quickly opening the set grid lines during testing of different products without having to re-set it multiple times. After setting, click Apply to save the current settings; click the Restore Factory

Settings button to restore to the factory settings.

3. Other settings

In this screen, you can name the photo taken manually or automatically; you can set the items to be measured (just manually check the box in front of the measurement settings); set the edge search range size and measurement font according to actual needs.

The resolution of recording can be set in this screen (4K 30FPS; 1080P 30FPS/; 1920*1080/3840*2160) Language: Simplified Chinese, Traditional Chinese and English are available

Version: You can view the current version information

Introduction to measuring tools:

: Straight line: After clicking the button with the mouse, click on any point in the interface to determine the starting point. Click a second time to determine the distance between the starting point and the end point, and measure the length of

the straight line.

 : Line spacing: After clicking the button with the mouse, click on any point in the interface to determine the starting point, click a second time to determine the straight line, click a third time to determine the position of the parallel straight line, and measure the distance between the two parallel lines.

 : Vertical line: After clicking the button, click on any point on the interface to determine the starting point, click a second time to determine the straight line, click a third time to determine the vertical distance to the straight line, and measure the length of the vertical straight line.

 : Rectangle: After clicking the button with the mouse, click on any point in the interface to determine the right angle position. Click a second time to determine the perimeter of the rectangle. Measure the length, width, perimeter and area of the rectangle.

 : Polygon: After clicking the button with the mouse, click on any point in the interface to determine a corner. Each click will add one corner. The last click must coincide with the point clicked for the first time. Measure the perimeter and area occupied by the polygon.

 : Angle: After clicking the button with the mouse, click on any point on the interface to determine the starting point, click a second time to determine the straight line, click a third time to determine the straight line between the second point and measure the angle between the two straight lines.

 : Angle: After clicking the button with the mouse, click at any point on the

interface to determine the starting point, click the second time to determine the straight line, click the third time to determine the starting point of the second straight line, click the fourth time to determine the second straight line, and measure the distance between the two straight lines. angle angle

 : Arc: After clicking the button with the mouse, click on any point in the interface to determine the starting point. Click the second time to determine the straight line. The third point determines the straight line with the second point. After passing the three points of the arc, measure the length, radian, radius and diameter

 : Radius to draw a circle: After clicking the button with the mouse, click on any point in the interface to determine the center of the circle. Click a second time to determine the distance from the center of the circle. The measurement is displayed as the radius, diameter, circumference and area of the circle.

 : Diameter to draw a circle: After clicking the button with the mouse, click on any point in the interface to determine the point on the circle, and click again to determine the circle. The measurement is displayed as the radius, diameter, circumference and area of the circle.

 : Draw a circle with three points: After clicking the button, click any three points in the interface to measure and display the radius, diameter, circumference and area of the circle.

 : Circle margin: After clicking the button, click on any point in the interface to determine the center of the circle. Click a second time to determine the first circle,

and click a third time to determine the second circle. The measurement is displayed as the distance between the two circles.

 : Circle center distance: After clicking the button with the mouse, click on any point in the interface to determine the center of the circle, and click the second time to determine the first

A circle, click the third time to confirm the center of the second circle, click the fourth time to confirm the second circle, and measure the circle displayed as two circles.

distance between hearts

 : Point-circle distance: After clicking the button, click on any point in the interface to determine the center of the circle. Click a second time to determine the circle. Click a third time to determine the distance between the line and the center of the circle. The measurement is displayed as the distance from the point to the center of the circle.

 : Arbitrary line: After clicking the button, click on any point in the interface to determine the starting point. The path passed by the mouse is the length. Click the second time to determine the end point and measure the length of the drawn line.

 : Text annotation: After clicking the button with the mouse, the selection box will be brought up for character annotation.

 : Feature point: After clicking the button, click on any point in the interface to determine the starting point, and click a second time to confirm the direction and

position of the arrow.

 : Click this button with the mouse to undo the previous operation.

 : Clear: After clicking this button with the mouse, all items on the screen will be deleted.

 : Edge detection: automatic edge detection to ensure measurement accuracy

 : Export: Click this button to save the file to storage space

 : Screenshot: After clicking this button with the mouse, a screenshot of the interface will be saved to the storage space.

: Color: Click this button to select the color of the line. There are 8 colors available in total.

: Line width: Click this button to select the thickness of the line. There are 4 sizes available.

Calibration editor:

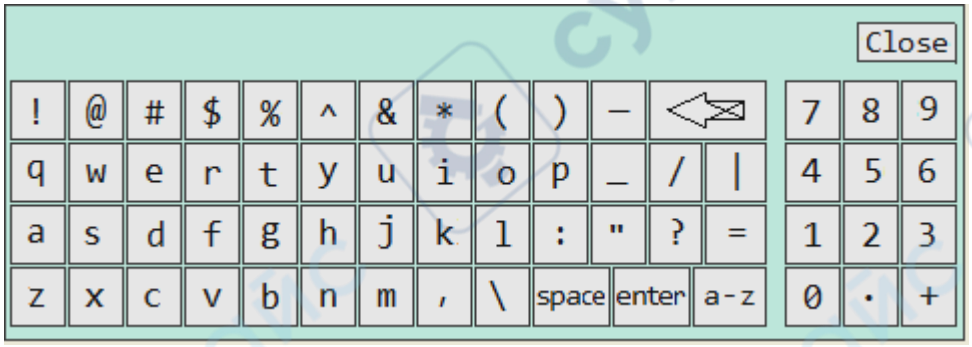
Before measurement, the image pair needs to be calibrated for the current microscope magnification and image preview resolution so that the measurement tool can measure accurately.

Enter the calibration editing screen, as shown below:

1. Click to set the calibration, click once to confirm the starting point, and click again to confirm the end. This picture is: 706.000px;

When setting the calibration, you can select the accuracy (0.1, 0.01, 0.001, 0.0001). After confirming that it is correct, click to complete the addition.

2. Click the left mouse button behind the name column, and the following box will pop up, allowing you to name the name.



After confirmation, press the enter key and then the Close key to close this dialog box

1. The method of calibrating the length is the same as the second step. Select according to the actual measured number and unit. In this picture, enter 4nm.

Press the OK key to confirm OK, and then click to save this calibration. As shown below:

3. Click to delete the calibration

4. Calibration automatically calculates the ratio based on actual length and pixel length

5. Click the open box behind the scale bar to display the scale bar. The scale bar

defaults to the lower right corner of the monitor. If the open box is not checked, the scale bar will not be displayed.