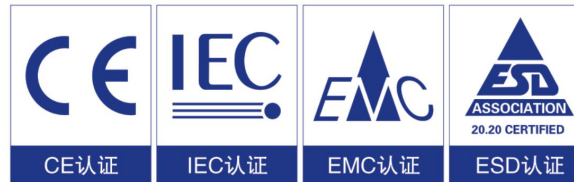


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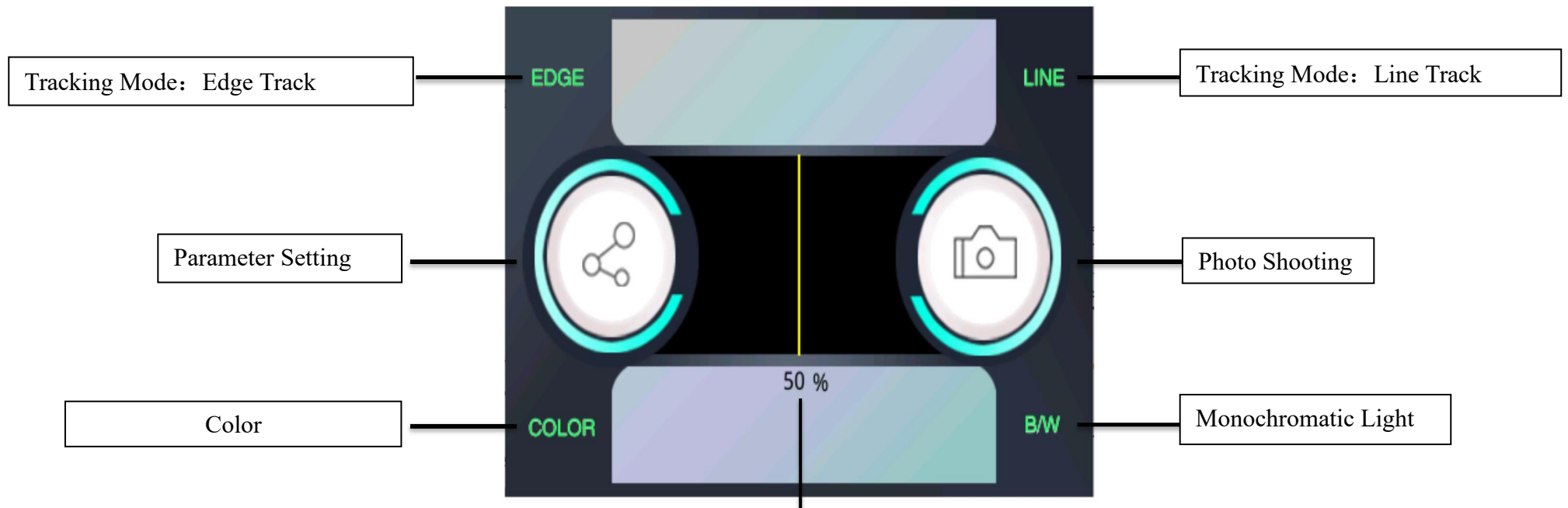
# AE400 CCD Image Sensor



## User Guide



### 1. Operation interface:



### 2. Parameter setting

**CCD 传感器参数设置**

Light Source Selection: Color or Monochromatic Light	光源选择: <input type="text" value="彩色"/>	亮度选择: <input type="text" value="正常"/>	Brightness: Normal/Dark/Bright
Tracking Mode: Line or Edge	跟踪模式: <input type="text" value="跟边"/>	断线静止: <input type="text" value="关"/>	Break-Line Stationary
Press OK after finishing setting	<input type="button" value="OK"/>		
			Help: Video Attached

# USER GUIDE

## W300

### Functional description:

a. **Light source selection:** light source selection (color monochrome red light, blue light, green light), different light sources can be selected according to the difference of testing materials. For most materials, please choose "color" light source. For tracking materials with weak contrast and wide detection range, you can choose "blue light" or other light sources. The default light source of CCD is "color".

b. **Brightness selection:** Brightness is optional (bright, normal and dark). This function can select different brightness according to the light of the environment in use. The default brightness of CCD is "normal"

c. **Tracking mode:** the mode is optional (follow-up line), the follow-up mode is used for most material testing, and the follow-upmode is used to track thin wire material and the same number of lines on the material.

for example:



, CCD default to "heel".

d. **Break-line stationary:** When the break-material stationary is set to "open", when the material suddenly breaks or runs out, when there are broken or discontinuous lines along the time line, rectification will not run to the end on one side, but delay stationary.



e. Note: An icon

in this interface, click on this icon, there are focusing

methods and common problems to deal with.

### 5. Operational steps

Connect the corresponding AE400 wiring cable, electrify into the parameter setting interface of the CCD sensor

Adjust the parameters of the corresponding CCD sensor, click the confirmation touch button, return to the main interface

Move the tracking line or edge to the laser positioning point, click the photo touch button, identify the detection target, and then move in.

In the detection state, the left and right moving material can observe the change of "displaying the current offset of the detected target" from 0% to 100%.

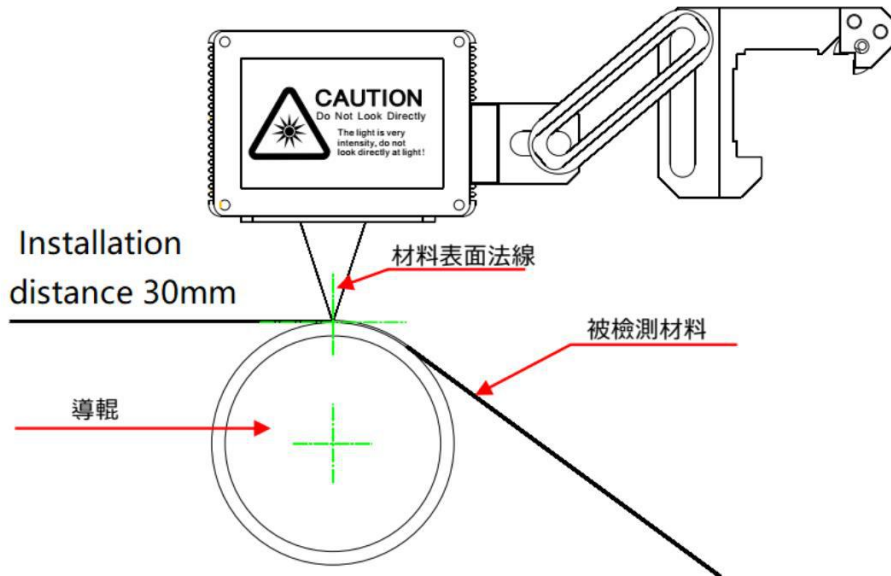
The next boot, the default is to enter the detection state, the detection target is the last detection target, so when the detection target has not changed, there is no need to repeat the input.

# USER GUIDE

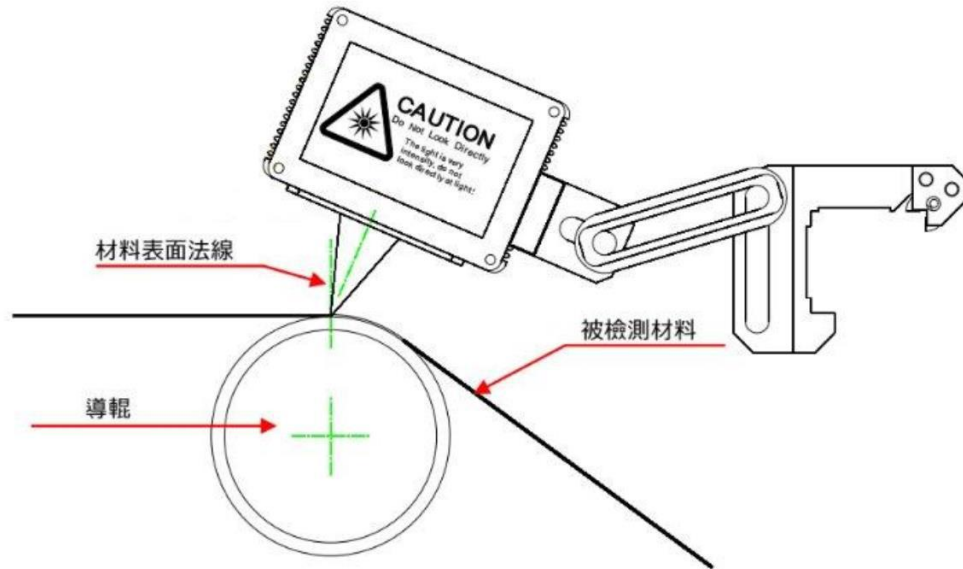
## W300

### *Focusing method*

Choose the right angle of illumination according to different materials, It is generally divided into two cases:



This is the way the CCD camera is perpendicular to the roll, Distance roller about 30mm, This case is mainly suitable for tracking transparent film, High reflective material, The situation of high contrast materials.



This is the way the CCD camera and the roll are in a certain angle, distance roller about 30mm, This case is mainly applicable to the tracking of the laser film and some weak contrast conditions.

Terminal line definition	
Red	Power supply DC 12V
Black	Power supply DC 0V
Yellow	Analog output DC 0-5V
Blue	Digital output 1
Green	Digital output 2

## **Appendix Common faults and Solutions**

1. *The screen is not lighted.*  
Please check the cable connection.
2. *Transparent membrane can not be identified.*  
Please align the CCD vertically in the center of the roll. The roll should choose dark sand roll as far as possible. If it is silver aluminium roll, wrap dark tape around the roll.
3. *Fine lines can not be identified.*  
Move the distance between CCD and the roll closer.
4. *Instability after recognition.*  
Clean the dust on CCD lenses regularly.