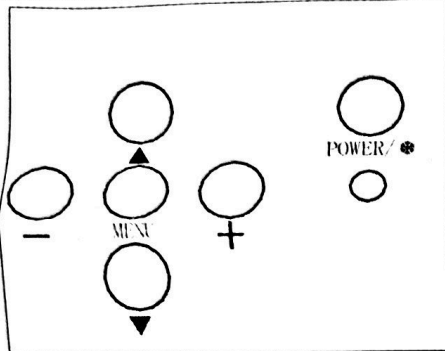


HDMI/VGA Industrial Camera Operating Instructions

The HD industrial camera has 30 built-in movable horizontal lines and 30 built-in movable vertical lines, and 1 to 30 of them can be selected through the menu, and the color of the single line can be selected; The maximum resolution of VGA/HDMI/TYPE C (USB) output is 1920*1080 60Hz. To ensure safety, please read the operating instructions carefully.

I. Interface and Button Functions:



HDMI	HDMI output interface
VGA	VGA output interface (interface optional)
Type C	5V power interface/USB output interface
MENU	Primary menu key
▲	Cursor up/line selection
▼	Cursor down/line selection
-	Value minus/line movement/line color selection
+	Value addition/OK/line movement/line color selection
POWER/■	Power key (long press) / freeze / unfreeze

II. Installation: The industrial lens is installed in the CS interface of the camera, and the VGA/HDMI interface is connected to the display input interface; Type C cable connected to the camera, USB port connected to 5V power adapter or computer USB, after power-on, the indicator light turns from red to green, indicating that the camera has been working normally.

III. Camera Parameters:

- 1, 2 million 1/2.8, 1/2 (optional) inch CMOS, effective pixels 1920X1080, frame rate 60FPS, definition 900 lines.
- 2, Resolution: 1920*1080(16:9)、1920*1080(16:10)、1280*720(16:9)、1024*768(4:3).
- 3, With CS/C lens mount, you can choose any CS/C mount lens.
- 4, Power supply: +5V allowable deviation of 10%, current not less than 0.5A.

IV. Menu Actions:

1. Press the MENU key once to open the main menu, and press the MENU key again to close the main menu.
2. Use the "▲/▼" key to move the cursor to select the corresponding submenu.
3. Use the "+/-" keys to enter the submenu where the cursor is located.
4. Adjust the current value or "Yes/No" via the "+/-" keys in the submenu.
5. Return to the parent menu > opt out/press the MENU key once.

V. Crosshair/Scale Bar Operation:

1. After the menu is closed, there is a prompt "Changing the line color state...", select the line to change color by using the ▲/▼ key, and the line is selected in the dotted state. Use "+, -" keys to change the line color.
2. After the menu is closed, select the line to be moved by using the ▲/▼ key, and the line is selected in the dotted state. The line position can be changed by using the "+, -" keys.
3. Open MENU-> Scale-> "Open", change the current value to "Yes"-> "Type" (change the current display type) with the "+" key.

VI. Several Ways to Adjust the Best Image Effect:

1. Open MENU-> White Balance-> Put a white paper under the lens and press the "+" key to trigger "Do a white balance calibration".
2. Adjust the brightness of the LED light source to achieve the desired imaging effect.
3. Open MENU-> Images-> by +/- keys to adjust the value of the corresponding category.
4. Open MENU-> Image-> "Auto Exposure", change the current value to "No" with the "+" key, and then adjust the brightness of the LED light source.
5. If you need to restore factory parameters, open MENU-> Settings-> "Factory Default Settings", confirm by the + key, at this time the parameters are restored to factory state.
6. Under a low-light/high-magnification microscope, when the brightness is still dark by increasing the brightness through the LED: open MENU-> Image-> "Increase Auto Exposure Brightness", and adjust the value by +/- keys to increase its overall brightness.

VII. Common Problems and Solutions:

1. The indicator light is green, the monitor has no image or indicates "out of frequency": disconnect the power, hold the "+" key for a long time, then connect the power supply, when the indicator flashes, releases the "+" key.
2. The LCD display screen is incomplete and has black edges: press the AUTO button on the monitor
3. Dust on the lens or imaging element: wash with anhydrous alcohol (absolute ethanol) or wipe off with a spectacle cloth.
4. Forcibly restore factory parameters: disconnect the power supply, hold down the "POWER" key for a long time, and then connect the power supply, when the indicator flashes, releases the POWER key.