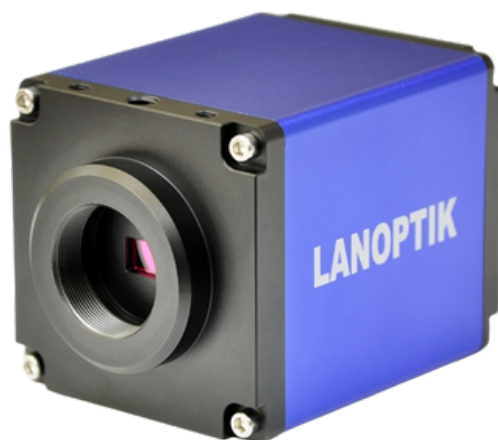


VGA / HDMI Camera

User's Manual



1. Camera Appearance



2. Camera Connection

- Connect the camera to display with HDMI cable. As the camera resolution is 1920*1080, 22 inches LCD screen or above is better to use.
- Connect the 12V DC power supply.
- Color correction (white balance adjustment): take a piece of white paper and place it in front of the camera lens, operate the navigation key to select the menu cursor to P column after WB, press the middle character WB into white to start correction, after complete the correction, the menu box will restore the original color automatically.
- Automatic exposure correction, select it and press the middle character AE to white and begin the correction, after complete the correction, the menu box will restore the original color automatically.



Suggestion: In order to obtain the best image. ☀ The brightness or exposure value shall be generally under 90.

🔘 High dynamic contrast: This feature is to use for observing low contrast, Generally recommended to 0 (closed).

3. Navigation Button

1. Push the button up and down (or before/ after): The main switch function menu cursor move up and down.
2. Push the button left and right: Subfunction switch/ operation.
3. Middle button: function confirmation, subfunction operation etc.



Display Adjustment

Main Menu	Sub Function	Operating Mode	Note
 Automatic image correction	AE Automatic exposure adjustment	Select it, press the right character into white to begin the correction, it will revert to default color after correction.	AE is the abbreviation of Auto Exposure, means automatic exposure. AE become white means start performing, after finished, the selected dialogue will revert to the default color. When the brightness value for maximum or minimum still cannot meet the image brightness requirement, it will exit automatic exposure and need to adjust light intensity of illumination. The method is: When the brightness value is maximum, need to increase the light intensity of light source. When the brightness value is minimum, need to reduce the light intensity of light source.
	WB Automatic white balance correction	Select it, push the character key left into white to begin the correction, it will revert to default color after correction.	WB is the abbreviation of White Balance, means automatic white balance. WB become white means start performing, along with the change of RGB value at the same time. After finished, the character will revert to the default color. When correction, it needs standard white as the target object (such as white paper).
 High dynamic display mode	☆☆☆ I (1) ★☆☆ II (2) ★★★ III(3) ☆☆☆ N(0)	Press the button to select this menu, push character key to right for switching	HDR is the abbreviation of High dynamic response, means High dynamic response. This display mode is divided into 4 level to meet different observation requirement, they are: ☆☆☆ N(0): means HDR function closed. - ★☆☆ I (1): means HDR function first level response. ★☆☆ II (2): means HDR second level response. ★★★ III(3): means HDR third level response.

Display Adjustment

 (Red)	the progress bar and numerical	After selected, left button reduce gain value of red, right button increase gain value of red.	R adjustment: Progress bar display the adjustable area and size, numerical auxiliary display, adjustable range is 1-100.
 (Green)	the progress bar and numerical	After selected, left button reduce green, right button increase green.	G adjustment: Progress bar display the adjustable area and size, numerical auxiliary display, adjustable range is 1-100.
 (Blue)	the progress bar and numerical	After selected, left button reduce blue, right button increase blue.	B adjustment: Progress bar display the adjustable area and size, numerical auxiliary display, adjustable range is 1-100.
 Brightness	the progress bar and numerical	After selected, left button reduce brightness, right button increase brightness	Brightness adjustment: Progress bar display the adjustable area and size, numerical auxiliary display, adjustable range is 1-100. Suggestion: In order to obtain the best effect of image, brightness values generally should be under 90.
 High dynamic contrast	the progress bar and numerical	After selected, left button reduce HDC value, right button increase HDC value.	High dynamic Contrast adjustment: Progress bar display the adjustable area and size, numerical auxiliary display, adjustable range is 1-100. This function is used for observing low contrast object, usually suggested to 0 (closed).

Line Operation

	<p>Select stack cross or been abscissa line way, press the key if the menu as confirmation, push the key left←or push the key right→switch selection.</p> <p>Push the key left or right for long time to restore the line factory Settings.</p>
	<p>⊕: Marked line movement. 1 Line number selection, ■ Line color selection.</p> <p>Press the line number 1 turn green, then push up or down to change the number. After select the line number, press the icon A small arrow symbol will come around, push left or right to choose the color of the currently selected line, push up or down to adjust the location of selected line.</p>

Specifications are subject to change without any obligation on the part of the manufacturer.



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