









Real-time detection mode:

Press and hold the power button  for 3 seconds, the blue light in the upper left of the device will lights when the system starts up. The real-time detection mode will be entered by default. In this mode, the user can observe the image detected by the camera through the host display. The joystick can control the movement direction and speed of the front camera. Stop the joystick to lock the current position of the camera. Short press the power button to view the current screen. Freeze, press again to release the freeze.

1. The panel button  can adjust the brightness of the LED illumination, the brightness is adjustable at 7 levels, and the icon  in the upper right corner of the screen displays the current brightness level. Brightness adjustment can only be performed in real-time detection mode.

2. The  icon is displayed by default in the upper left corner of the screen, indicating that the camera is currently in the camera mode. Press the  button on the back of the main unit to take a photo. The  button on the main unit panel can switch between the photo/ video recording mode. The icon  indicates that the recording mode is currently in progress. Press  once to start recording. The screen shows the recording duration, and then press the recording again to end the recording.

System setting mode:

In the real-time detection mode, press the setup menu to enter the system setting mode, in which the following system parameters can be set:(FIG 1)

1.Image zoom: The up button presses the real-time image to zoom in, the down button image zooms out, and the number in the upper right corner of the screen indicates the current zoom factor, which can be magnified up to 4 times.

2.The image display is divided into 3 different effects: color, black/ white, and negative.

3.The reference line could be selected to turn off/on.(FIG 2)

4.The watermark information function could be selected to

turn off/on.

5.Image format could be stored in JPEG / BMP.

6.Image Rotation could be chosen to turn off/on. After turning on, the image will rotate 180°.

7.Image size could be selected from 960*720/ 1280*720. After re-selecting, the system will restart.

8.Time and date setting.




9.Language: Simplified Chinese, Traditional Chinese, English, Japanese, Korean, French, German, Portuguese, Spanish, Russian, available in ten languages.

10.Format the memory card, please use it with caution.

11.Restoring the default settings will restore all device settings to factory state.

12.Select the current version information of the system and perform system upgrade settings.

Playback mode:

In the real-time detection mode, please press the return / preview button  to enter the playback mode. Images and videos are stored separately and previewed in a list. The current file information will be displayed at the same time as the preview. After the file is selected, the icons  and  appear on the interface, and the current file can be viewed or deleted in full screen.(FIG 3)

1.In full-screen viewing mode, there are 7 icons at the bottom of the screen: "+ / - , Left / Right, Up / Down, Return", which can zoom in / out, move to the Left / Right, Up / Down, and return to the previous menu. The Left / Right, Up / Down keys are only available under the enlarged images and view the images.(FIG 4)

2.First select the file you want to remove. When "✓" and "x" appear on the interface, "x" means cancel the deletion operation, file will be deleted directly when you select "✓".

5.Reading photos and videos files

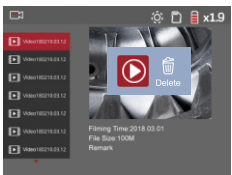
Please remove the TF card from the host card slot, insert it into the card reader. The data could be read directly through the computer. Storage path: "My Computer\Removable Disk\DCIM" .



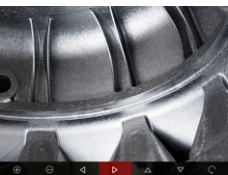
(FIG1) System setting mode



(FIG2) Reference line



(FIG3) Playback mode



(FIG4) Full-screen viewing mode

Note: Please do not pull out the TF card when reading data, otherwise abnormal errors may occur.


6.HDMI external output

The device host can be connected to the display through the mini HDMI cable, and the display will directly show the image detected by the camera.

7. Power off

During normal operation, keep pressing On/Off button for 1 to 2 seconds, it will shut off. It needs to store some system parameters and the image data, which will take a few seconds to finish the power offoperation.

8. Charging

The  in the upper right corner of the screen displays the current battery level. When the battery is running out, please charge the device online through the Micro USB interface of the host.

Note: This interface does not have a data transfer function.

9.Replace the insert tube

Part 1: Insert tube replacement (inserting)



Step 1:Please insert the tube from the opening at the top of the main unit so that the triangular arrow on the top cover is aligned directly above the opening.

Step 2: Hold the nuts and tube by one hand, push them to separate the pipe line from the main unit.



Step 2:Lock the main unit and the tube with a nut to complete the installation.



Step 3:Removed the nut, pull out the tube from the main unit.

Part 2:Insert tube replacement (extracting)



Step 1: Loosen the nut to release it from the tube.

Noted: Avoid grabbing the tube to push directly. Also should not push too hard, it may damage the optical fiber.

Standard Configuration:

C40 series borescope, Detachable magnetic base, Instrument case, Shoulder belt, Card reader, 8G SD card, Charger, Manual.

Optional:

HDMI cable

10.Instrument storage

- Please keep the instrument at regular room temperature, keep it clean, dry and stable;
- It is prohibited to store the instrument in high temperature, high humidity, strong light, strong shock, high dust, pollution or corrosive environment;
- Do not collide the instrument with other objects during storage.
- When the product is not in use for a long time, please take out the battery and regularly check the operation of the instrument.

11.Solutions to common problems

Problem	Reason	Solution
Boot without reaction	No battery or power shortage	Charge or install battery
Auto shutdown	Battery power shortage	Charge or change battery
Boot screen freezing	System boot failure or battery power shortage	Remove the battery to re install and restart or charge
The image cannot be recorded or found	The capacity of TF card is not enough	Replace TF card or delete useless files



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