Product user manual



Beijing Garexon Technology Co., Ltd.

Thank you for using our industrial endoscope, and before you use this product, please read it carefully. user manual

Please keep the book in good custody so that it can be consulted at any time.

WARNING and Notes

Before using this device, you must read carefully the following notes and DANGERWARNING, which, if improperly operated, could trigger DANGER!


:DANGER


:WARNING


Note:



• This equipment is restricted to the detection of common industrial equipment and is not used for any other purpose, in particular, for non-use
Internal observation or examination of human or animal cavities!
• The flammable explosive environment should not use this equipment to prevent explosions and fires.
• Do not use this equipment at high temperatures, at very cold temperatures, with strong radiation, filled with dust and larger particles.
• Before using this equipment, it is essential that the detection instrument be used to disable electrical power and prevent electrical contact.



• Insert head-linking equipment in strict compliance with the indicator sign, if the violent wring can cause damage to the plug.
• Insert a tube detection in a state where the machine is completely suspended in order to avoid damage to the machine and equipment.
• When holding the plug, do not pull the mainframe so strongly that it may cause damage to the plug and equipment.
• If HDMI, etc. are to enter water, dry towels should be used for the first time to absorb internal moisture.
• If the snake bone is stuck in the instrument during use, do not pull it to cause a fracture.
• Displayers are advised not to be exposed to severe impacts that may cause damage by causing screen break-ups.
• Do not put a collision or strong pressure on the surface of LCD. LCD
• None of the components of this product has been designed for water protection except for the insertion of tubes for waterproof design, and be careful to avoid equipment when used
Into the water, causing electrocution, etc.
• Avoid looking directly at the front end of the detector, otherwise it may cause eye damage.
• Avoiding direct hand contact with various ports, which may cause short circuits and malfunctions.
• Be careful to keep your feet on the line and be careful to avoid tripping.
• In the event of a noise during use, smoke and so forth should be stopped immediately and touch should be prohibited after power cuts.



• When removing plugs, be careful not to step on them, which may cause damage to the camera.
• When you play pictures, videos, etc., do not pull TF cards, which may cause data storage damage.
• When equipment is not used, ensure that interfaces such as USB HDMI are secured to prevent dust and water dripping.
• When charged, do not overwhelm the charger with clothing or other articles to prevent DANGER from occurring.

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Introduction to Chapter I Product Components

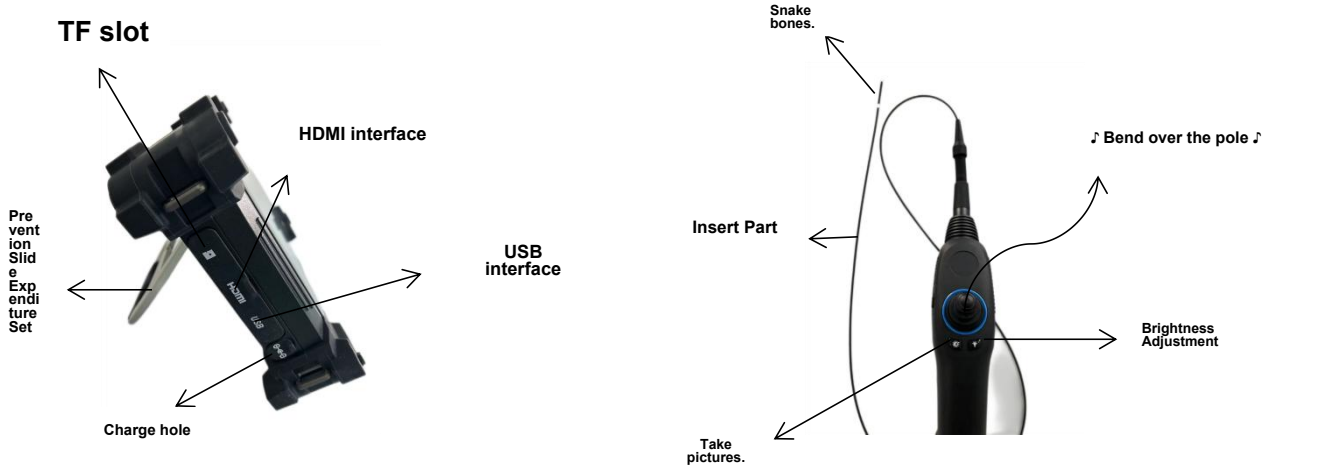
This product uses 1280*800 high resolution, 10.1 inches screen; internal battery module highest time of renewal

6 hours may be exceeded; 3 languages are supported; full series of tubes may be replaced by insertion; and water-proof levels may be used
SWCXAB. IP55

The following is a preview of the machine:



Positive **Backchart**



side map (1) **Insert pipe**

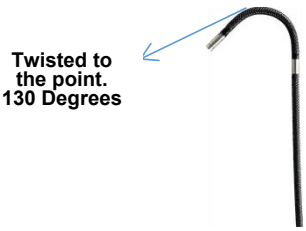


side map (2)



Aviation material link

Human engineering handle.



The details of the snake bones.

Chapter II Description of use

Important information - Read before using

Purpose

This product is mainly a probe at the depths of the curved pipe, which allows the observation of the position where the naked eye and body cannot be seen directly or in direct contact, and

and capable of observing the internal space structure and state within a sealed cavity, without having to dismantle or disrupt the assembly and equipment's defunct condition

A non-destructive detection was achieved, and the fault areas were transported back through photographs or videos to facilitate the analysis of the reasons for the fragmentation by technicians.

Do not use this device for any other purpose other than the above, in particular for internal observation of human or animal cavity or for the purpose of the human or animal cavity.

Check.

Use user manual

This user manual contains basic information on the safe and effective use of this device.

Read this user manual and all equipment to be used in its use carefully before using it, as described below.]

Use the equipment.

Please keep this user manual and all related user manual in a safe and convenient place.

If there is any doubt about the information in this user manual, contact the manufacturer.

Repairs and alterations

This device does not contain parts that can be repaired by the user.

or equipment damaged.

Chapter III Access to an endoscope

Device extraction: After opening the inner-scope airbox, remove the host, then slowly remove the second layer of plugs, and remove them.

Be careful to avoid a single pull-out resulting in a plug-in tube damage;

Equipment storage: When the equipment is stored, the plugging pipe is inserted in the liner in the direction of the clockwise and then placed in the host, in the container.

(Note: Failure to entangle the wire as required may result in the crushing of the snake bones)

Chapter IV Description of the operational step

Turn on the power.

Press the power button above the host  At least three seconds until the screen is up and the word "WELCOME" appears loose

Turn on the power button, just wait for the machine to start. (Note: Try again if the screen is up late)

Connect host to handle

(c) The use of the airline (white) to connect the mainframe with the handle, and visual inspection of any damage or other defects in the surface of the plugged hose.

Check the corner.

(c) Lightly push the bend to operate the shaker, and observe the smooth and correct bending of the bend and achieve the maximum curve.

Check image interface icon function/light source

Visually check the normality of the display screen images, open the led light control switch, and observe the normality of the light source at the end of the plug,

The slow-inputing of the equipment being tested begins in-house, and the brightness of the screen and the light is regulated according to observation needs.

(Note: When lights are turned on, like black vertical stripes on the screen, you just have to turn off the lights, use your fingers to block front-end cameras, and be in the kitchen.

Click " Camera calibration" in the column, move your finger back and turn on the light.

Chapter V Keys and Software Interface Description

5. 1 Key Description

Light Source Control

Left-hand handle round button  , slides open and closes the front end of the snake bone.

Brightness Adjustment

Press the lever.  key, adjust the brightness of the screen to the working environment, and display the brightness mark in the middle of the screen; press it again

(a) A flash-change key, which regulates the brightness, divided into 5-class brightness cycles;

The replacement or heat insertion of the insertion tube during the start-up will result in a failure of the brightness reconciliation function and will require re-entry

Start the device.

Photo Key

Press the manipulator.  , you can take a one-click photograph of the current image interface and store it automatically in the album.

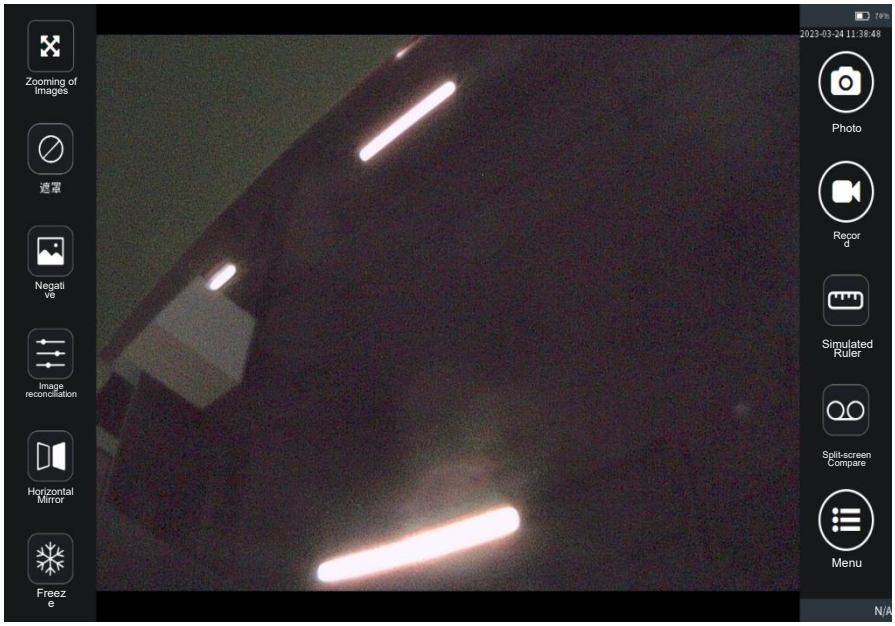
A bend control pole.

Hand handle corner control control control control of the front end of the snake bone lighting, customizing the 2 to the angle/4 to the angle of 130,

Drive the roller, right, right, right, right, and right to the bend, depending on the thrust. 180

Strength controls the bend angle size.

5. 2 Interface Description



1, Image Scale **2, photo.**

3, Mask **4, Video**

5, negative **6, Simulation Ruler**

7, Image Reconciliation **8, split screen.**

9, Horizontal Mirror **10, Menu**

10, Freeze

5.2.1 Image Scale

The default storage format for this image is JPG, the image supports 4 multiplication, the default value is 0, and click on the image scaling

Magnify 2 times or 4 times, adjust as needed to observe object size.



5.2.2 Photo

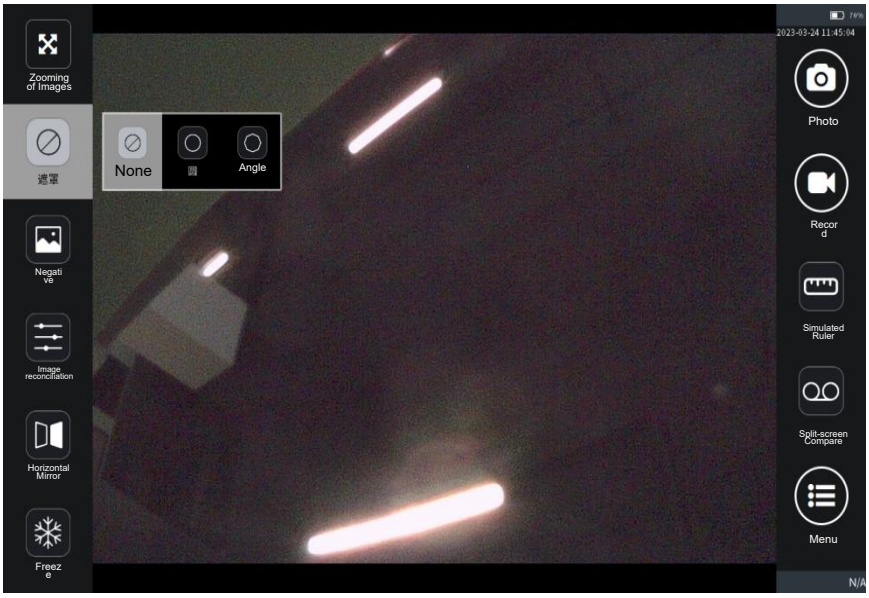
The default format for this image is JPG, which is appropriately adjusted to make it clearer during the photo shoot

Shoot, file is stored by default in TF cards.



5.2.3 Mask

With the "shading" model, the systems are: maskless, round, and eight-pointer.



5.2.4 Video

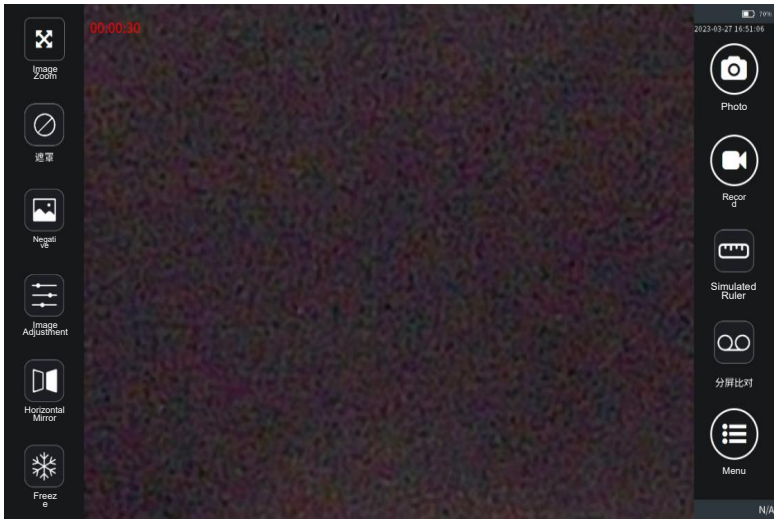
Preparation: Please insert SD card before preparing the photograph/video;

Note: If the SD card is removed during the photograph/video, it may damage the data recorded in the SD card;

(b) Do not remove SD cards from the photograph/video;

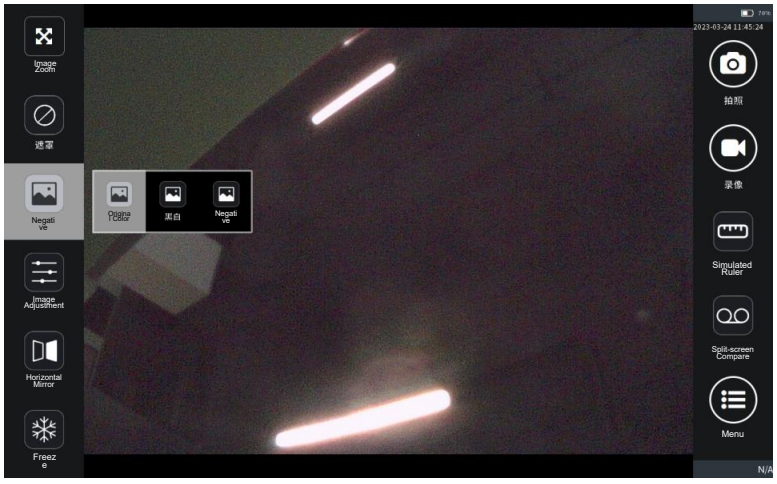
Click " Photos ", where the photo was successfully stored and the image was stored under the screen;

Click Video Start recording, the video will be recorded on the screen after success, and the video will be clicked again **Like.**



5.2.5 Negative

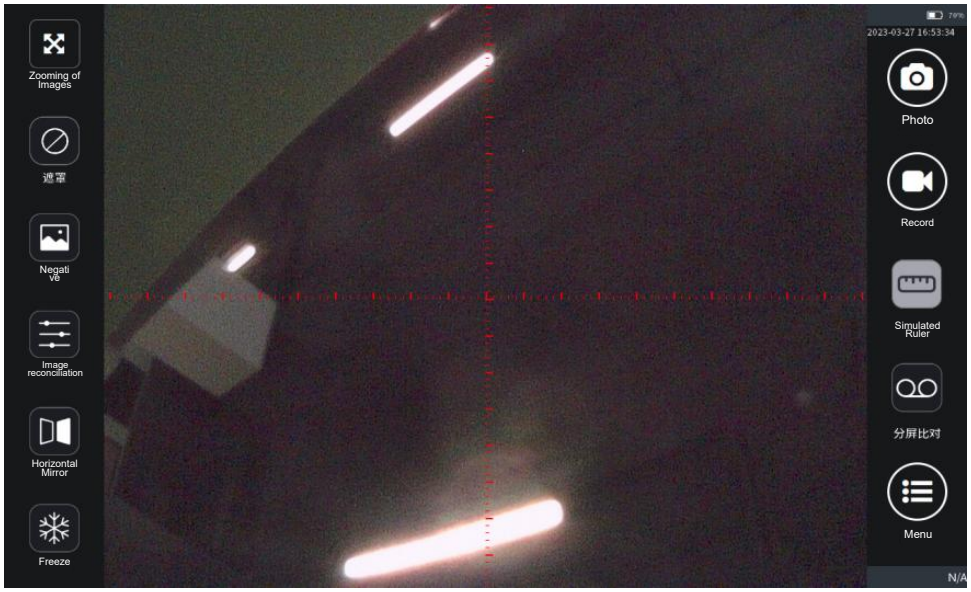
Clicking on the " negative " mode, the image can be coloured, black and white, negative, and the appropriate mode can be selected depending on the situation.



5.2.6 Simulation Ruler

Clicking on the Simulation Ruler to measure the size of the object being measured in the condition, and to match the Frozen pattern.

Data recording.



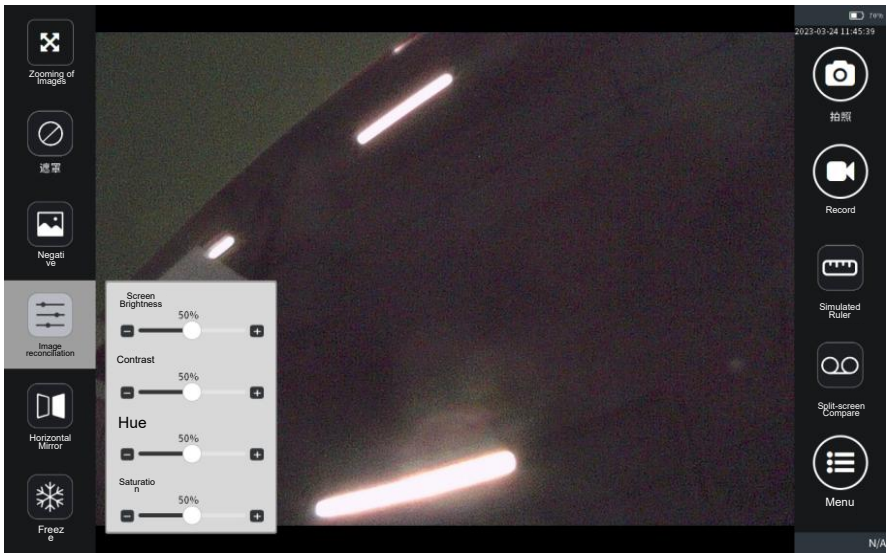
5.2.7 Image Reconciliation

Screen brightness: regulate image brightness, default 50%;

Contrast reconciliation: reconciliation of contrast of image, default 50%;

Hue reconciliation: Hue reconciliation, default 50%;

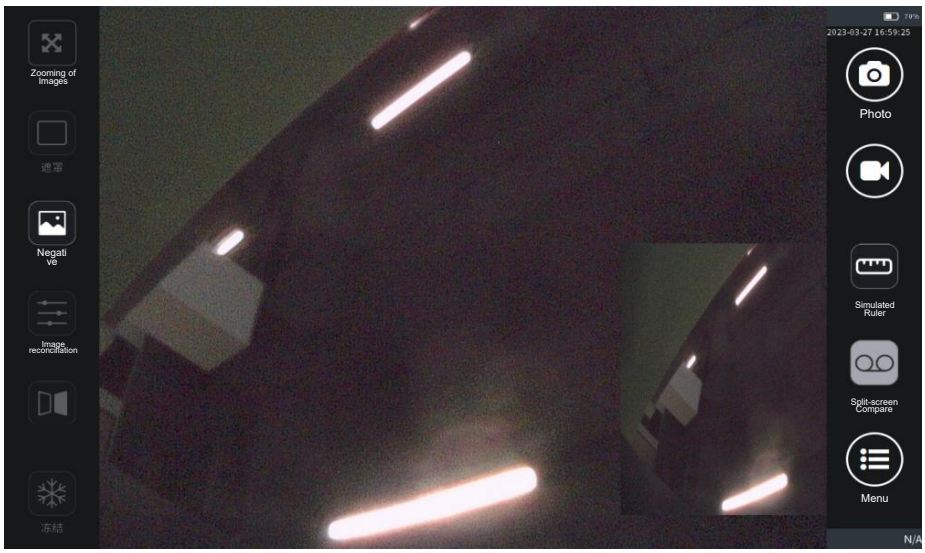
Saturation reconciliation: reconciliation of colour saturation, default 50%;



5.2.8 score pair

Click on the "System Match" to automatically intercept the current image, place the lower right corner box, and continue working as a camera

In addition, the large image on the left continues to move inside, and the operator enables it to reach its assigned position, comparing the small frame on the lower right.



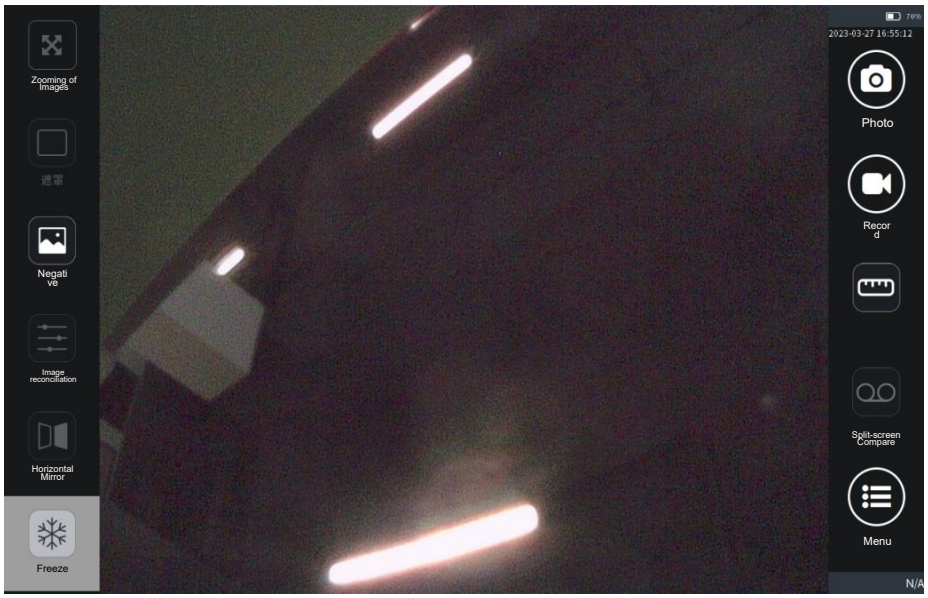
5.2.9 Horizontal Mirror

Click " Horizontal Mirror " to flip horizontally the interface that you want to split the screen, where the operator can switch with different hands.



5.2.10 Freeze

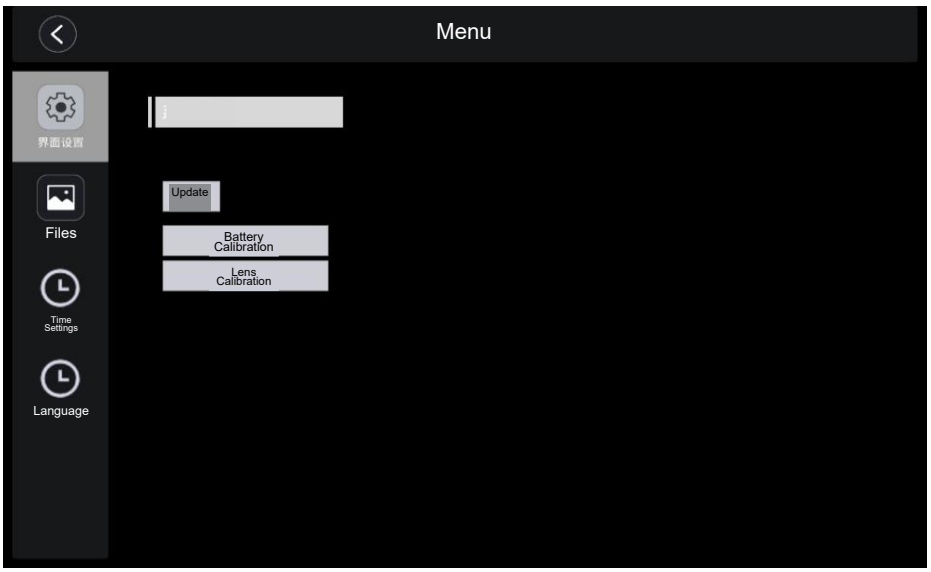
Click Freeze to lock the image to keep the current interface unalterable and to mark images after the freeze.



5.2.11 menu

5.2.11.1 Interface Settings

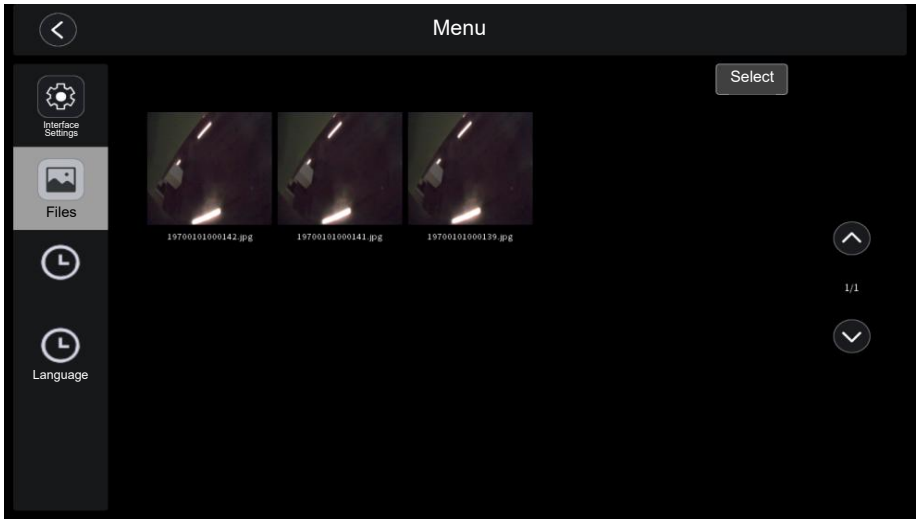
Click on the Screen 'menu 'to enter the Interface Settings for lens calibration and battery calibration, and enterable if the system is updated
Line system upgrade.



5.2.11.2 File Storage

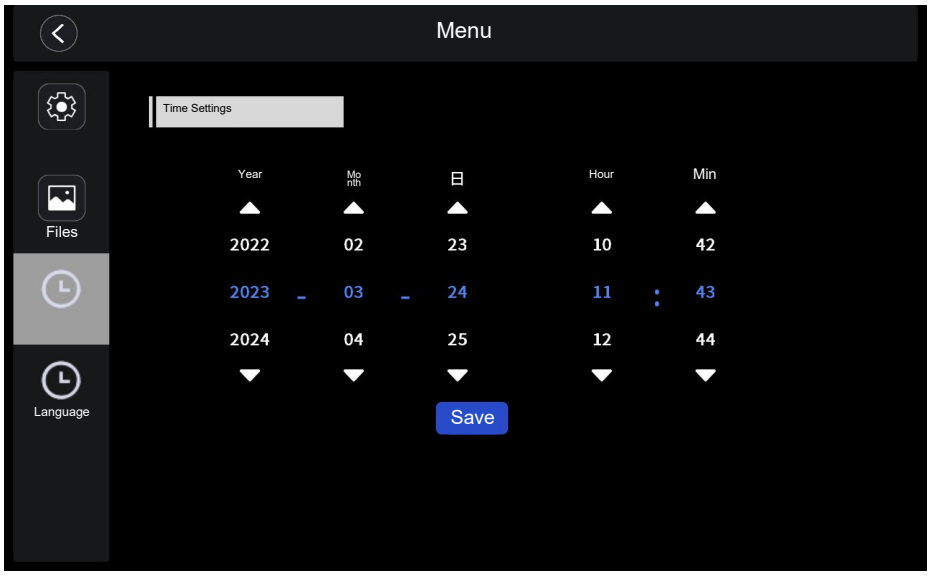
Click on the Screen Menu to enter the interface settings, find the File option, for saved jpg images and avi

Format video for editing and deletion.



5.2.11.3 Time and Date

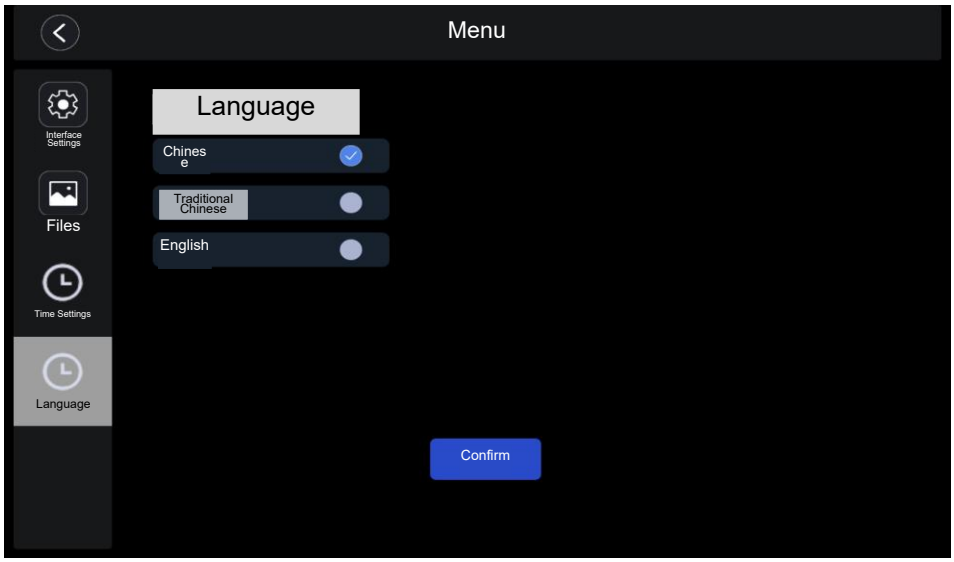
Click on the Screen Menu to enter the interface settings, find the Time Settings option, and adjust the device time to local time.



5.2.11.4 Language Settings

Open the Screen Menu, select Interface Settings, then Language Settings. Three languages are available: Simplified Chinese, Traditional Chinese, and English.

Select the required language and tap OK to apply the change.



Chapter VIII recharge and external use criteria

Charge

In preview mode, press buttons lightly to shut down; open battery silos, remove batteries, use equipment after confirmation of power outage by the host

Specialized battery charger charged; battery battery fully required 5 hours in depleted condition, after battery charger
The light will automatically switch to green;

Data Export of SD Cards

Internal storage data is exported by inserting a card reader with SD.
Insert SD card with a secondary SD card reader, connect to the computer USB interface, move the computer terminal to the hard drive, and it can be straight
Take the log data for export.

TYPE-C interface data export

Opens the menu function, ticks USB; connects computers with TPYE-C data lines that can read the hard drive directly.
Operations the export of recorded data.

Chapter IX Common issues resolved

- **Cannot open: check battery status.**
- Could not close temporary folder: %s
- Could not close temporary folder: %s
- **Cannot show preview mode: Check battery state.**
- Could not take a picture or video: check if SD card is inserted and is working properly.
- When failure cannot be judged, no self-repair may be performed, either under the guidance of an engineer or by sending it back to the manufacturer.

Fault performance	It could cause a cause.	Approach
I don't know.	Mirror Blur	Wipe the mirror surface.
	The beads were found in the sights.	Discontinuation, timely delivery of plant maintenance
Head bends are abnormal.	Curved angle below specification value	Please send the endoscope to your company to adjust.
	The swing pole's resistance is abnormal.	We must work hard on the poles, or else it will lead to the premature grinding of the bending apparatus. Damage or injury.
	♪ The bend is broken ♪	Discontinuation, delivery to the factory for repair.

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