



Pipe Inspection Camera with Locator User Manual



Model No: S8958MRT

Please contact us at first time if you got issues with the product

Amazon After-sale: support@sanyipace.com

Website After-sale: service@sanyipace.com



- Scan this QR code to get the electronic version of the instruction in **English**.
- Scannen Sie diesen QR -Code, um die elektronische Version der Anweisung auf **Deutsch** abzurufen.
- Scannez ce code QR pour obtenir la version électronique de l'instruction en **Français**.
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Attention: The illustrations and screenshots of this manual are to explain the product's operation, which may be a little different from actual products due to the products' version upgrades and different production batches. If the content in this manual does not match your machine, please refer to the machine!

1. Notice

- a. Please read the manual carefully before using the product.
- b. Handle the device with care when operating, do not drop or push hard.
- c. Do not dismantle the machine without permission.
- d. Please turn off the monitor and disconnect the device after use.
- e. Before inserting the TF card into the device, please back up the information on the TF card to avoid loss of information.
- f. Do not cut off the power suddenly during recording and playback, otherwise, the product and video files may be damaged.

2. Scope of Product Use

- a. Household pipeline blockage inspection
- b. Pipe inspection camera, pipeline tools
- c. Underground water pipes, HVAC systems, oil and gas pipelines
- d. Rescue operations in narrow spaces
- e. For underground exploration
- f. Scientific research on underwater riverbeds
- g. Sewer system inspection
- h. Any other hard-to-reach locations/areas

3. Product Specification

---Camera and Cable---

Sensor: 1/3 CMOS

Resolution: AHD 1080P

Camera diameter: 0.9in/23mm (built-in 512Hz transmitter)

Camera light source: 12pcs 1W high white LED (adjustable)

Camera angle: 145 degrees

Camera material: stainless steel, sapphire lens, IP68 waterproof

Camera protective cover size: 1.5in*1.1in/38mm*28mm

Camera pipe pulley: 4.25in*1.8in/108mm*45mm

Cable diameter and material: 0.2in/5mm diameter Semi-rigid

---Monitor Screen---

Size: 9-inch

Camera/monitor picture: IPS LCD color

Function: Video recording, Audio recording, capture photos, 5X digital zoom, Battery voltage display, Distance counter, 512Hz transmitter, keyboard input (support English), etc.

Monitor input voltage: DC 12V

SD card: package includes 16GB card, support max 128GB

Display resolution: 1024*600 IPS

Menu Language: Chinese/English/Russian/French/German optional

Monitor operation method: press buttons

Video format: AVI

Photo format: JPG

Working temperature: -4~140°F / -20~60°C

Storage temperature: -22~176°F / -30~80°C

---Battery---

Charger: 100VAC-240VAC/DC 12.6V 1000MA

Battery: lithium battery 4500mAh

Battery continuous working time: about 6-8 hours

4. Monitor Buttons Operation



Built-in microphone, if you want to play video with sound, please play it on a PC.

Display Operation:

① Battery Charger:

When the display shows that the power is lower than 9V or the “Low Battery” indicator light flashes, please recharge the device.

② Battery OFF/ON Switch:

Battery on/off switch (Note: please turn off the switch when not in use).

Connect the camera head to the cable coil, turn on the ON/OFF switch on the control panel, and the system starts.

③ CLEAR:

Counter reset button / meter and feet switch button.

④ LED:

LED brightness adjustment (0-5 gear).

⑩ Screen OFF/ON Switch:

Turn on/off the screen, not the system.

⑪ TF card Slot:

Including 16GB, maximum support 128GB card.

⑫ Battery Indicator:

It flashes when low battery.

- Menu Settings (need to exit REC mode):

Press the "MENU/EXIT" key to enter the menu settings.

Press "<" ">" to select, press "Rec/-" to confirm, and press "EXIT" to return.

Allow operating time setting/playback setting/display setting/recording setting/system setting.

- How to Record Video:

Press "REC/-" to start recording (video with audio), press again to stop recording.

- How to Playback Images/Videos:

Press "PLAY/+" to enter image browsing, press it again to enter video playback, press "<" ">" button to select, press "REC/-" to play, press "EXIT", then "PLAY/+" to exit.

- How to Take Photos:

Press ">/PHOTO" to capture a photo, press one at a time.

- How to Zoom the Image While Recording:

Press "<" to zoom in 0-5 times, press the 6th time to return to normal (0).

- How to Delete Pictures or Videos:

Press "PLAY/+" to enter photo/video viewing, press ">" to select one of the pictures or videos, press "MENU/EXIT" and ">" to enter delete or all delete options, press "REC/-" to confirm, press "PLAY/+" again to exit.

- How to Modify Video Length:

The recorded video will be divided into fixed-length videos and stored in the memory card, and the default length is 3 minutes. You can adjust it up to 10 minutes. Press "MENU/EXIT" and ">/PHOTO" to select "Video Menu", press "REC/-" to change it to 1mins, 3mins, 5mins, or 10mins, and press "MENU" to exit after setting.

- How to Set Recording without Audio:

Press "MENU/EXIT" and ">" to select "System Settings", press "REC/-" to enter sub-options, press ">" to find "Sound Settings", press "REC/-" to adjust turn on or off, press "MENU/EXIT" to quit.

5. How to fix the stand

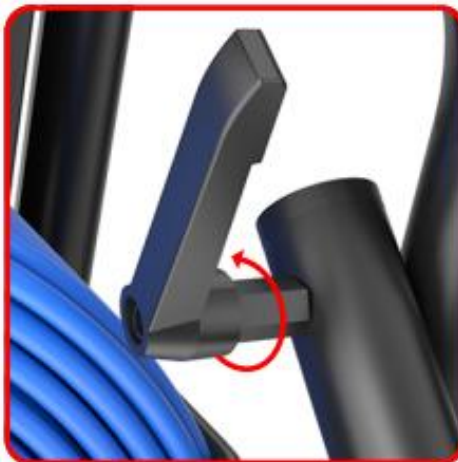
○ How to fix the stand



1. Rotate clockwise the handle to tighten the screw, rotate counterclockwise to loosen



2. When you can't continue to rotate, pull the handle out



3. When the handle is pulled out, the screw cannot be tightened

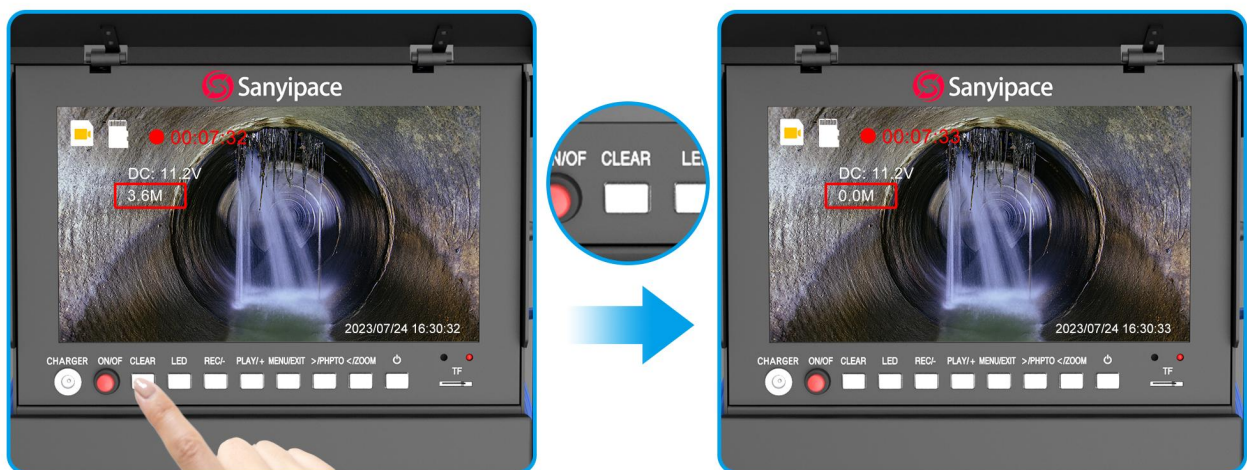


4. In the proper place, press the handle back and continue to twist the screws

6. Cable Coil and Distance Counter



5mm/0.2inch semi-rigid cable was coiled in the cable reel. It is easy to operate, just pull to release cable and push back to coil the cable.



Before using this function, please press the CLEAR button to clear the counter information. You can toggle the display in feet or meters by long pressing the CLEAR key. It will start counting feet/meters when the coil rotates, and display it on the screen in real time.

7. Camera Built-in 512Hz Transmitter

Camera probe size details:



The Camera probe has a built-in 512Hz transmitter, which transmits a 512Hz frequency signal through a built-in chip, compatible with any 512Hz pipe locator.

Transmit Frequency: 512Hz

Output Waveform: sine wave

Transmit Distance: about 16.4ft/5m



8. 512HZ Locator Detector

The detector locator has a built-in induction coil to receive the magnetic signal from the pipeline, and the coil generates an induced current to calculate the direction and position of the transmitter.

The detector locator has two detecting modes: far mode and near mode. Firstly, open the sensitivity to the strongest gear, and switch to far mode (about 16.4ft/5m) to detect and find the signal source, adjust the sensitivity knob, \when its signal is up to the full strongest signal position (far mode), switch to near mode (detecting depth: 3.3ft/1m) to detect until the 512Hz signal reach strongest signal position (near mode).



Detector Locator Technical Parameters:

Receiver Frequency: 512Hz

Detect Distance: about 16.4ft/5m

Battery: 3.7V 3000MAH built-in lithium battery

Charger: 5V 0.5A

Charger time: about 6 hours

Battery Indicator: 4 gear, it is flashing when battery is low

Battery working time: about 10 hours

Signal strength: 6 gear

Speaker: support

Detect Mode: Far/ Near

How to Use Detector Locator to Detect Camera Position:

- a. Turn on the detector, set the sensitivity knob to the strongest gear.
- b. Set it as far mode to detect first. When the signal light is on, it means that you have entered into the 512Hz locator position within 16.4ft/5m.
- c. Then move forward to the direction of the signal, keep finding and moving to the strongest signal, and try slowly reducing sensitivity, until finding out the position which is the strongest signal when sensitivity is weakest.
- d. After that, switch the button on the left side of the handle to the near mode and set the sensitivity knob to the strongest gear to continue to detect, keep moving, and find the signal source. when it reaches the strongest signal position, the receiver has entered into the 512Hz transmitter position within 3.3ft/1m.

9. Battery & Charger

The battery is built into the control panel with a capacity of 4500mAh, and the screen displays the battery power status. **When the display shows that the power is lower than 9V or the “Low Battery” indicator light flashes, please recharge the device.**

AC: 100-240V
OUTPUT: 12.6V-1000MA
Indicator Light
Red Color - Charging
Green Color - Fully Charge



The steps of charging are as follows:

- a. Take out the DC adapter from the box.
- b. Connect the DC adapter port to the charging port (on the back of the monitor).
- c. Plug the DC adapter into 100-240V AC, when the indicator light is in red, it means it is charging.
- d. When the indicator light turns green, it means it is fully charged, the fully charging time is about 5-6 hours.

Note: To ensure a longer battery life, please charge it in time; otherwise, the battery may be damaged and cannot be recharged.

10. Device Installation

- a. Open the box under the button and make sure the video cable is tighten.
- b. Take out the camera head, then connect the camera head to the cable coil end tighten.
- c. Press the ON/OFF button on the control panel to turn on the battery, then system starts.

(As below pictures)



The following are the steps to install the pulley



1. find the mini screwdriver in the package



2. put the camera protective case on the camera head

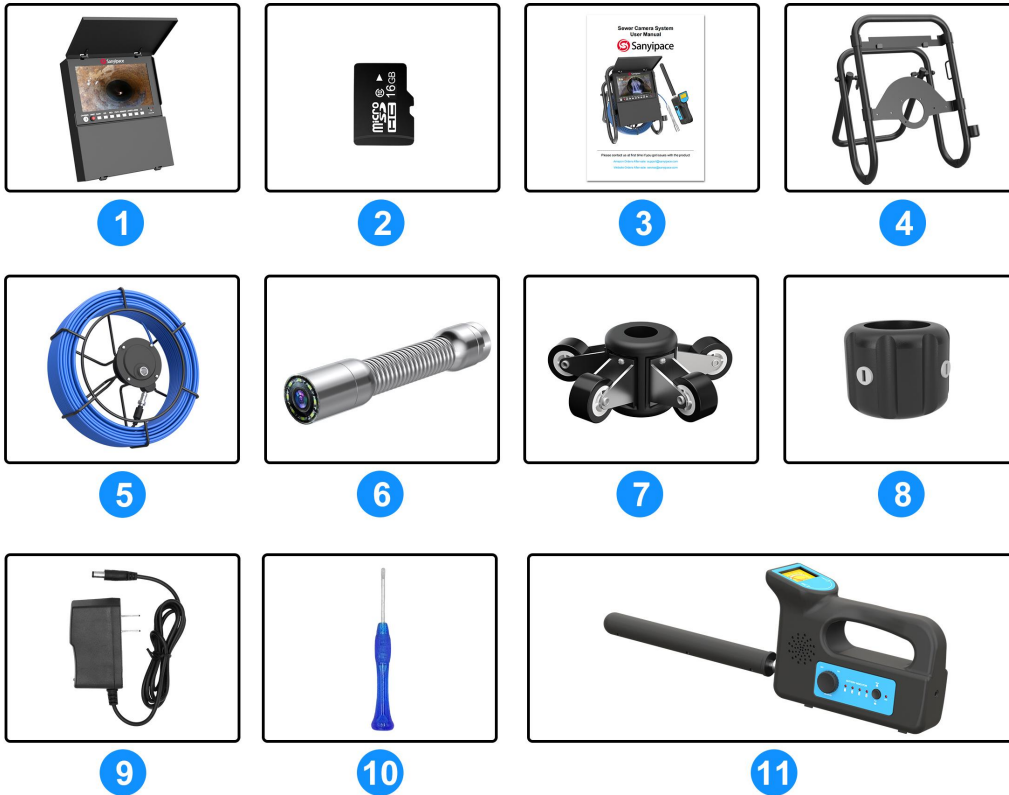


3. screw the 3 white screw on the protective case, until it was fixed on the camera head



11. Structure & Accessories

- ① Monitor and keyboard * 1 ② 16GB SD Card*1 ③ User manual * 1
- ④ Metal Bracket * 1 ⑤ Fibreglass Cable coil * 1 ⑥ Camera head * 1
- ⑦ 4.5in/108mm Pipe Pulley*1 ⑧ 1.5in/38mm Protective Cover*1
- ⑨ DC Adapter * 1 ⑩ Screwdriver*1 ⑪ 512Hz Locator * 1



12. Trouble & Troubleshooting

Trouble	Troubleshooting
No power	a. Check whether each interface is connected correctly; b. Check whether the battery is out of power, check the power display.
Can't be charged	a. Is the DC adapter plug-in correctly; b. Check if the indicator light of the DC adapter is on.
Can't record videos	a. Whether the SD card is inserted correctly; b. Insufficient SD card memory; c. Check whether the power off during the recording process.

Recording videos in black and white color	Adjust the LED light button to the appropriate brightness, observe the screen display, and select a brightness that is clearer and more colorful.
No signal, screen turns blue	<ul style="list-style-type: none"> a. Turn off the power and turn it on to confirm the problem again; b. Check that connections are well connected and make sure all cables are properly connected; c. Adjust the camera probe and turn it slowly to confirm whether it is loose.
LED lights not working	<ul style="list-style-type: none"> a. Check whether the LED lights setting is turned on, pressing the LED adjustment button on the panel or F6 to adjust the brightness; b. Tighten or loosen the camera probe slowly to check if it works; c. Use a voltage tester to test all connectors, find out the damaged part and contact Sanyipace to deal with it.

13. Warranty

We provide a one-year product quality warranty from the date of purchase and provide free lifetime product technical support. For normal faults or quality problems within the warranty period, we provide free replacement or repair services. For damage caused by manual operation, we will charge the cost of product parts for repair. Our technical support team is at your service 24 hours a day. If you encounter any problems during use, please feel free to contact us.

----Contact Us----

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