

Sanyipace F5100DJKABTX Sewer Camera with Locator



Important Information

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!

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.

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

Product Specification

Camera and Cable

Sensor: 1/3 CMOS

Resolution: AHD 1080P

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

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

Camera angle: 145 degrees

Camera material: stainless steel, sapphire lens, IP68 waterproof

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

Camera pipe pulley: 5.1 in*1.1 in/130mm*28mm

Cable diameter and material: 164ft/50m and 230ft/70m of 0.2in/5mm harder high elastic cable; 131ft/40m of 0.28in/7mm hardest high elastic cable (optional)

Monitor Screen

Size: 9-inch

Camera/monitor picture: IPS LCD color

Function: Video recording, audio recording, speaker, capture photos, 5X digital zoom, battery level display, depth counter, 512Hz transmitter, self-leveling, 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

Screen port: power input/video

Screen operation: press buttons

Video format: AVI

Photo format: J PG

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

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

Control Panel

- Switch on/off
- Five-speed LED adjustment
- Meter/feet switch function
- Meter/feet cleared function
- Keyboard input

Battery

Charger: 100VAC-240VAC/DC 12.6V 1 000MA

Battery: lithium battery 4500mAh

Battery continuous working time: about 6-8 hours

LCD Monitor Operation



TF card: including 16GB, maximum support 128GB card Built-in microphone and speaker

Display Operation:

Turn On

Connect all the cables of the device, turn on the battery switch button and press the power button on the screen, and the system starts.

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 "REC/-" again 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 1 mins, 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.

Counter Function

Before using this function, please press the CLEAR button or F7 key to clear the counter information. You can toggle the display in feet or meters by pressing the F4 key. It will start counting feet/meters when the coil rotates, and display it on the screen in real time.



Control Panel & Keyboard Input

1. Power charging port
2. Battery switch (Note: Please turn off the switch when not in use)
3. Counter reset button
4. LED brightness adjustment (0–5 gear)
5. Power indicator light
6. Second keyboard USB port (The first USB port is under the control panel)
7. Esc: Clear characters
8. F4 key: Meter/Feet switch
9. F5 key: OSD switch (On-Screen Display)
10. F6 key: LED brightness adjustment (0–5 gear)
11. F7 key: Clear counter
12. F9 key: Factory setting (Press F9 then input password “3131” to enter settings; press Up/Down to select cable diameter and meters, Left/Right to select model [5100 is the correct model], then press F9 to save settings and exit)



The function of the keyboard: During working, you can input text/symbols/numbers to mark events.

Camera with Self-leveling Function & 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

Self-leveling can be defined as the ability of any instrument to level itself regardless of the angle of inclination.

Camera probe is equipped with a self-leveling gravity bearing on the camera probe that could automatically adjust direction and level when taking videos/pictures to deliver upright pictures all time, helping users to position.



Self Leveling

The image is always displayed correctly, without flipping



No Self Leveling

The picture will flip as the camera flips



Cable Coil

New stable and strong coil structure with steel bearing inside, can easily release or coil the cable with less time and force.

How to release the cable:

Take out the cable from the holder, then pull the coil clockwise to release.

How to coil the cable:

Turn the cable counterclockwise to coil the cable back while using your other hand to hold and rotate the coil, then lock the cable in the holder.



Battery & Adapter

The battery is built into the control panel with a capacity of 4500mAh, and the screen displays the battery power status. When the screen shows that the power is lower than 9V, please charge the battery.

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



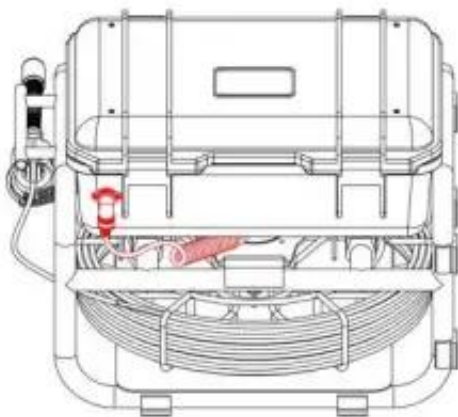
The steps of charging are as follows:

- a. Take out the DC adapter from the box.

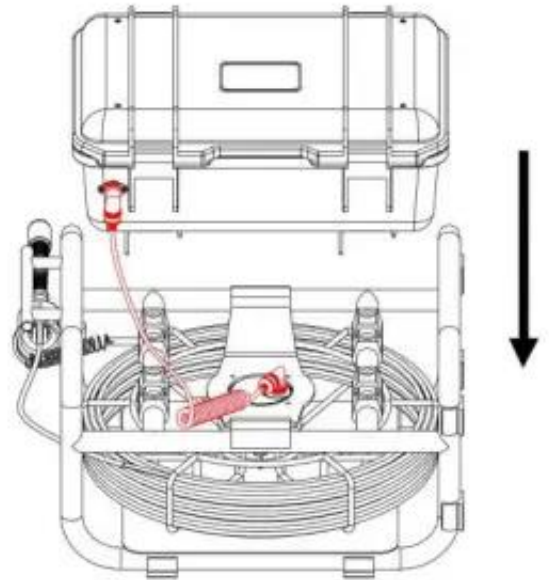
- b.** Connect the DC adapter port to the charging port (on the control panel).
 - c.** Plug the DC adapter into 100-240V AC, when the indicator light shows red, it means it is charging.
 - d.** When the indicator light turns green, it means it is fully charged, the fully charging time is about 5-6 hours.
- Note:** To ensure a longer battery life, please charge it in time; otherwise, the battery may be damaged and cannot be recharged.

Device Installation

- a.** Connect the side of the video cable to the port on the box and tighten.
- b.** Connect another side of the video cable to the cable coil bearing and tighten.
- c.** Press the ON/OFF button on the control panel to turn on the battery, then press the power button on the screen to turn on the screen. (As below pictures)



1



2



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



The following are the steps to install the protective case

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



Structure & Accessories

1. Plastic Box*1
2. Metal Sun visor*1
3. 16GB SD Card*1
4. 9-inch IPS Screen*1
5. Keyboard*1
6. instruction*1
7. Lithium Battery*1
8. Metal Bracket*1
9. Fiberglass Cable*1
10. Handle*1
11. Camera*1
12. 5in/130mm Pipe Pulley*1
13. 1.5in/38mm Protective Cover*1
14. DC Adapter*1
15. Screwdriver*1



Assemble & Disassemble Box

1. Assemble steps:

- Align the bottom pad of the plastic box with the card slot on the bracket and install;
- Push to the left (backward) to fix the plastic box on the coil holder;
- Insert the latch pin to prevent it from falling out

2. Disassembly steps:

- Pull out the latch pin;
- Push the box to the right and move out of the slot (as shown in the picture);
- Take out the plastic box.



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	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	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.

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.