FHD Sewer Camera with
512Hz Transmitter and Detector Locator Set
User Manual

| Pipe Pulley | Protective Shell | Connection Cable | Power Charger | Screwdriver | Remote Controller |
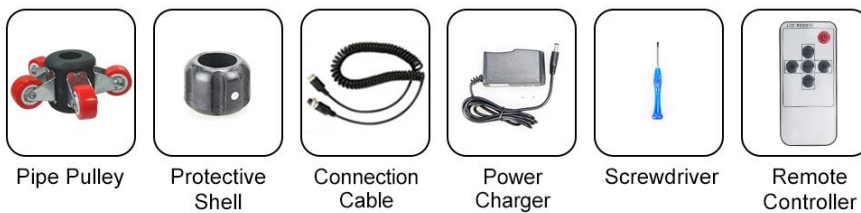
Model No: F929ADFBAB8R

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

SanyiMrchan@gmail.com

Catalog

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. Range 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 angle: 145 degrees

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

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

Camera material: stainless steel, sapphire lens, IP68 waterproof

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

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

Cable Length: 100ft/30m, 164ft/50m (optional)

Cable diameter and material: 0.2in/5mm high elastic cable

---Monitor Screen---

Size: 9-inch

Camera/monitor picture: IPS LCD color

Monitor input voltage: DC 12V

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

Display resolution: 1024*600 IPS

Menu Language: English/Germany/French optional

Screen port: power input/video

Screen operation: press buttons

Video format: AVI with Year,Month,Date,Time and Seconds

Photo format: JPG

Working temperature: -4~140℉/-20~60℃

Storage temperature: -22~176℉/-30~80℃

---Battery Box---

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

Charging time: about 5 hours

Battery: lithium battery 12V 4500mAh

Battery continuous working time: about 6-8 hours

4. 9" LCD Monitor Operation

(Built-in microphone and speaker)

9"TFT COLOR MONITOR

REC/- PLAY/+ MENU/EXIT > < POWER TF CARD

REC/- PLAY/+ MENU EXIT > < POWER TF CARD

Display Operation :

-Turn on

Connect each component, turn on the switch button on battery and press the power button on screen, the system starts working

-Menu setting (need to exit the REC mode)

Press MENU to enter, Press "<" ">" to select, press "Rec/- " to confirm your selection, Press EXIT to back. you can set display setting/playback/video setting/storage/system setting.

-How to zoom in image when recording

Press "<" to zoom in and 5 gears in total, press it 5 times to zoom in to the limit, and at the 6th time pressing to return to normal

-How to record a video

Press "Rec/- " to start recording , press "Rec/- " again to stop.

-How to take a snapshot

Press ">" to take photo quickly

-Video Browsing

press "PLAY/+" first time to enter photo viewing, press it second time to enter video playback, press it again to exit.

Press ">" "<" to select, press "REC/-" to play.

-How to delete the picture or video

press "PLAY/+" to enter photo/video viewing, press ">" to choose one of the pictures or videos, press "MENU" and ">" to enter selection of delete or delete all, press "REC" to confirm the selection, press "PLAY/+" again to exit.

-How to revise the video length of recording

The recorded video will be divided into fixed-length videos and stored on the memory card, the default duration is 3mins, you can revise it to up to 10mins. press "Menu" and ">" to choose "Video Menu" and press "REC/-" times to revise it to 5mins, 10mins, 1mins or 3mins, at last press "Menu" to exit

-How to turn off the audio record function

Press Menu "Menu" and ">" to choose "system setting", press "REC/-" go to the sub-option, press ">" to find "sound settings", press "REC/-" to turn on or off, press Menu to exit

5. 4500mAh Battery
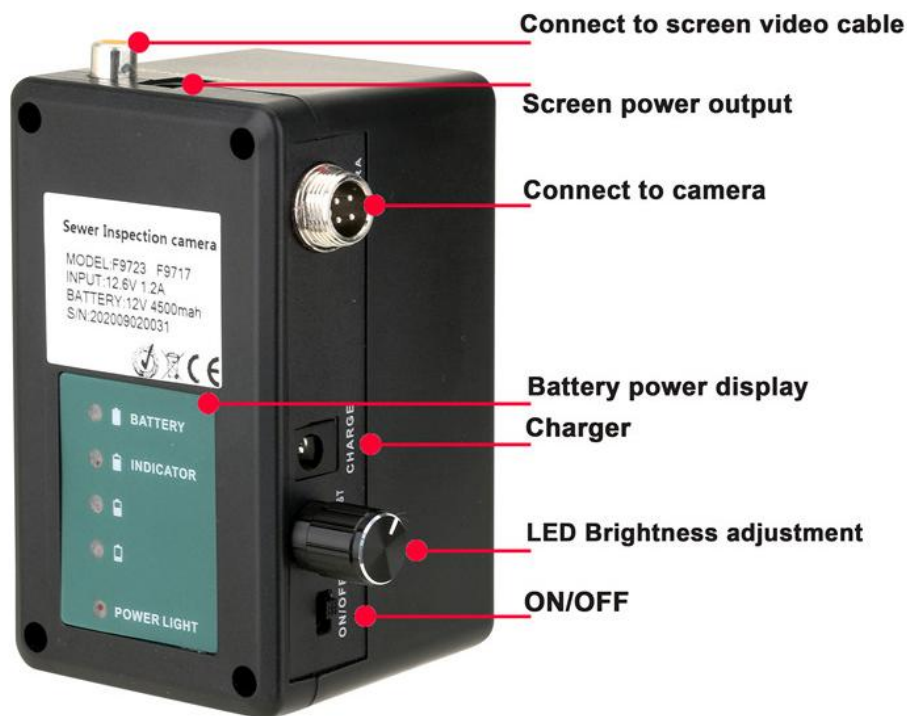
6. Power Charger

AC: 100-240V
OUTPUT: 12.6V-1000MA

Indicator Light
Red Color - Charging
Green Color - Fully Charge

UK plug   EU plug   US plug

When the battery is low power (< 20%), please recharge it, the charging time is about 4-5 hours. Working time is 6-8 hours after full charging

Note: To make sure the battery has longer use age, please recharge it timely; otherwise, the battery may be damaged.
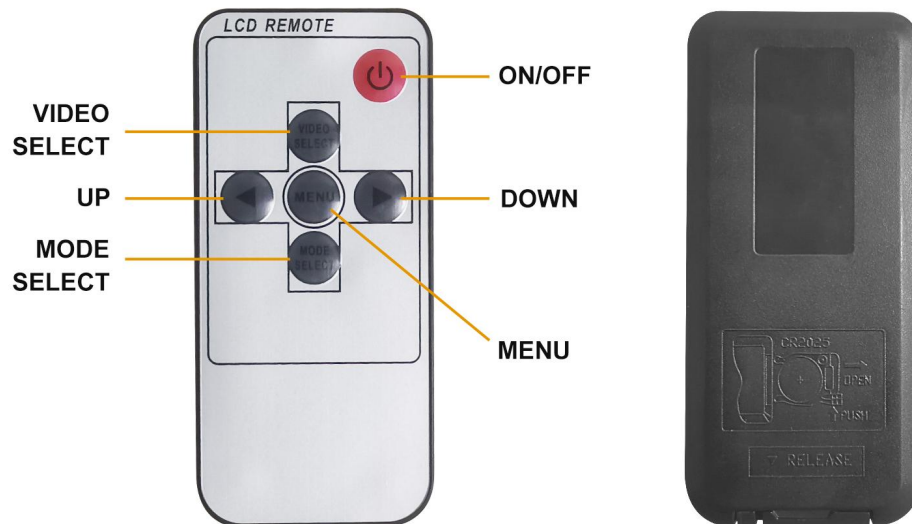
7. Cable Coil

put the cable on the hook, pull to release or push back to coil the cable.

Hold the handle,
Turn counterclockwise to
release the thread

Hold the handle
and turn clockwise to
retract the thread

8. Remote Controller

VIDEO SELECT: function same with the screen button "PLAY/+"

MODE SELECT: function same with the screen button "REC/-"

◄ : function same with the screen button "<"

► : function same with the screen button ">"

9. Camera with Self-leveling Function & 512Hz Transmitter

Camera probe size details:

Ø23mm

Ø38*28mm

Ø130*28mm

24mm

100mm

30mm

23mm

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.

512Hz Transmitter

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.

Our

Other

Self Leveling
The image is always displayed correctly,
without flipping

No Self Leveling
The picture will flip as the camera flips

Self Leveling

10. 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).

Antenna

Charger Base

Connector (Removable)

Signal Indicator

SENSITIVITY

Null Peak

MAOTEWANG

Speaker

ON/OFF
Sensitivity Adjust

Battery Indicator

Handle

Far/Near

Charger Indicator

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.

11. Wire Diagram

12. Failure and Diagnosis

Common problems / faults	Solutions
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 record	a. Whether the SD card is inserted correctly; b. Insufficient SD card memory; c. Check whether the power off during the recording process.
Can not be charged	a. Is the DC adapter plug-in correctly; b. Check if the indicator light of the DC adapter is on.
No signal	a. Check if the connection is well connected and make sure all cable is correct connected; b. Check the camera head. and slowly rotate the connection adjust its tightness.
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.
Screen display turn blue	a. Check the video cable if wrong connected, and reconnected it to battery; b. The video cable is broken, need to replace the new video cable. contact seller or our customer service email for help.
Video works ok but LED doesn't work	a. Check if you turn on the led or not, try to rotate the knob on the battery to adjust the brightness; b. Rotate the camera connector a little tighter or looser, check if it works or not; c. Use voltage tester pen to test all the connector, find out the broken part and contact seller for free replace.

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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