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

Sanyipace

| Pipe Pulley | Protective Shell | Data Cable | Power Cable | Screwdriver |

Model No：F929DJTX

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

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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. If the user disassembles or damages the machine intentionally, it will not be covered by the warranty.

d. Please turn off the monitor and battery button, and disconnect all the connection joints 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. Specification

---Camera and Cable---

Sensor: 1/3 CMOS

Resolution: 1000TVL

Camera diameter：0.9in*1.7in/23mm*42mm

Camera type: built-in 512Hz transmitter

Viewable angle: 145 degrees

Camera material: stainless steel, sapphire lens, IP68 waterproof

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

Cable length: 66ft/20m, 100ft/30m, 164ft/50m (optional)

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

---Monitor Screen---

Size: 9-inch

Camera/monitor picture: TFT LCD color

Monitor input voltage: DC 12V

SD card: package includes 16GB card, support max 32GB

Display resolution: 960*480 TFT

Menu language: Chinese/English

Screen port: power input/video

Screen operation: press buttons

Video format: AVI

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. LCD Monitor Operation

TF: Insert TF memory card

REC/-: (a) Press it to start or stop recording video;

　　　(b) In system setting mode, press it to confirm the selection.

PLAY/+: Press it to start or pause video playback, and press "-" to play the next video.

-: (a) Press it to take a photo;

　　(b) In system setting mode, press it to flip to the next selection.

M: Press it to go into the system setting, such as Time/Contrast/Brightness /Colorful/Language setting; delete the videos, and pictures; or exit playback or setting mode.

+: (a) Press it to view pictures;

　　(b) In system setting mode, press it to back to the previous selection.

Power: Screen switch on/off

5. Counter Function

The screen will display distance by meters and feet at the same time automatically.

Clear key

Press the clear key first before using this function, it will be counted the distance when the cable rotates, and the data is displayed on the screen in real time.
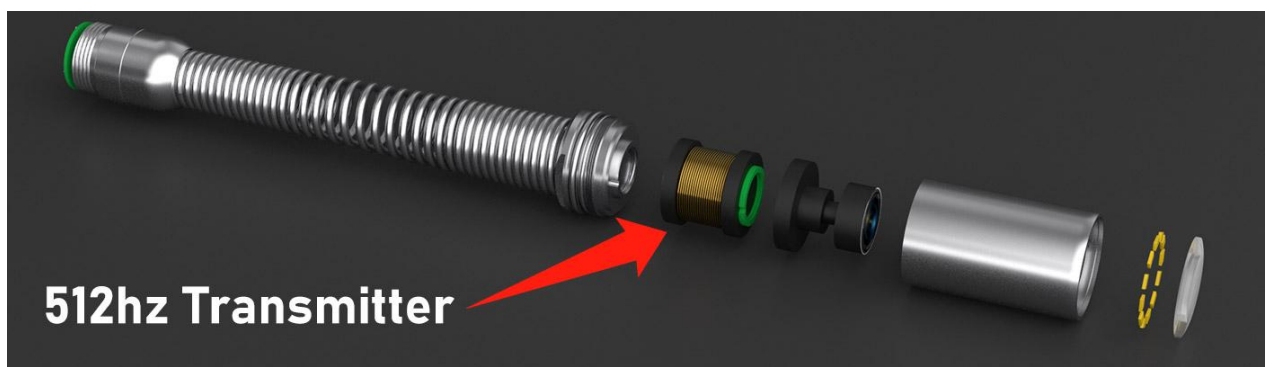
6. Camera Probe with 512Hz Transmitter

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

512hz Transmitter

7. 512HZ Detector Locator

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：

Detector Locator Frequency: 512Hz

Detect Distance: about 16.4ft/5m

Battery: built-in 3.7V 3000mAh lithium battery

Charger: 5V 1A

Charger time: about 6 hours

Battery Indicator: 3 gear, it will flash when the 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.

8. Device Charger

Charger: input 100-240V   output 12.6V 1000MA
Note: Charging time is about 6 hours. It can't work when the battery power is lower than 20%

AC: 100-240V

OUTPUT: 12.6V-1000MA

Indicator Light
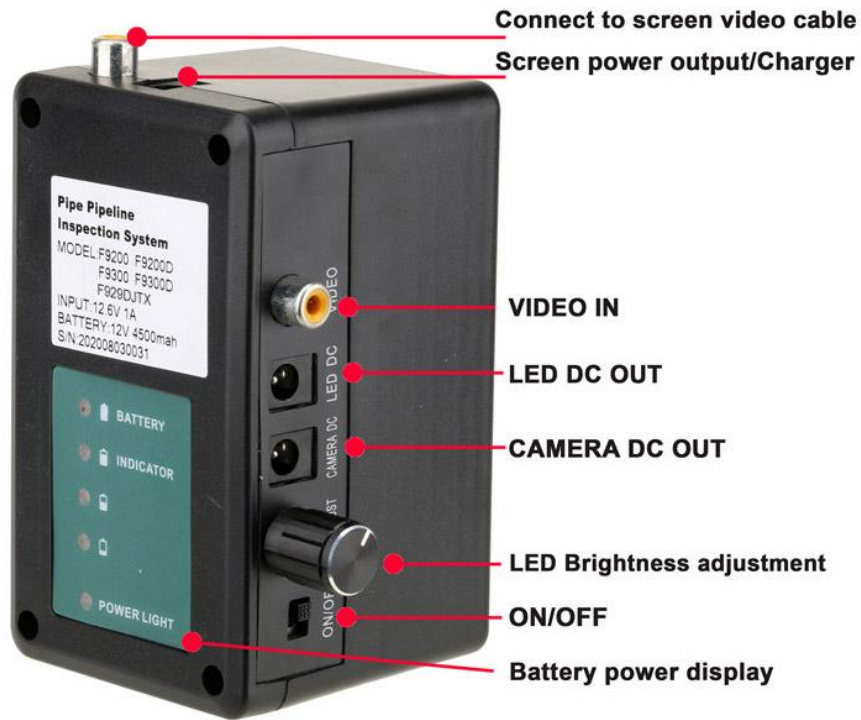Red Color - Charging
Green Color - Fully Charge

UK plug   EU plug   US plug

9. Battery

Connect to screen video cable
Screen power output/Charger

Pipe Pipeline
Inspection System
MODEL:F9200 F9200D
F9300 F9300D
F929DJTX
INPUT:12.6V 1A
BATTERY:12V 4500mah
S/N:202008030031

BATTERY
INDICATOR

POWER LIGHT

VIDEO IN
LED DC OUT
CAMERA DC OUT
LED Brightness adjustment
ON/OFF
Battery power display

10. Wire Diagram

Screen

Camera port

Line wheel port

Screen port

Contaction line 2M

7

11. Cable Operation

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

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 was 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 colourful.
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. Adjust the LED adjustment button on the battery box adjust the brightness; b. Tighten or loosen the camera probe slowly to check if it works; c. The battery is going to out of power, recharge battery and try again; d. 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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