

# Sewer Pipe Inspection Camera Manual



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Please read this user's guide carefully before using this products

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Attention:The illustrations and screens which in this manual are to explain the operation of this product. Due to the difference in version upgrades and production batches, they might a little different from the machine you actually use. If the content in this manual does not match your machine, please refer to the machine!

## 1. Notice

1. Please read the manual carefully before using it.
2. Handle it carefully during operation, avoid throwing down or pressing it heavily.
3. If the users disassemble or deliberately damage the machine, it will beyond the warranty.
4. Please turn off the display and pull out all the connection joints after using it.
5. Please copy your information before connecting the TF card.
6. Don't suddenly cut off the power during recording and playing. This may damage the product and video files.

## 2. Application:

- 1: pipe dredging machine
- 2: Pipe inspection camera Pipe tool
- 3: underground pipelines, air conditioning pipelines, oil and gas pipelines
- 4: Rescue work in a small space
- 5: For underground exploration
- 6: Underwater riverbed research
- 7: Underground TV

## 3 . Specification

### Camera and cable:

Sensor :1/3 CMOS

Resolution: 1200TVL

Camera Diameter: 17 (MM) \*31 (MM) / 22 (MM) \*42 (MM) optional

Depth/Material: 10m - 50M (optional)/fiber tube (diameter: 5MM)

LED: White LED (Brightness can be adjustable)

Angle: 145 degree

Camera Material: stainless steel/ IP68 Waterproof

Camera Type: 17MM: Normal type

22MM: Normal type/512HZ Locator/Self-Balance (Optional)

### LCD Monitor:

Size: 7inch/9inch/10inch (optional)

LCD Type: Normal type/ DVR Record type (optional)

Monitor input voltage: DC 12V

Display Resolution:1024\*600

Monitor Image: Color

TF Card: Max support 32 GB card; includes 8G card

Menu: Chinese /English Optional

Display Operation: Press button/ remote control

Operate Temperature:-20-60 degree

Storage Temperature:-30-80 degree

**Battery Box:**

Charger: DC12.6V 1200MA

Charge time: about 5 hours

Battery capacity: Lithium battery 12V 4500AH

Battery working time: about 6-8 hours

Function: Video switch and LED brightness adjustable/Power display

**Warm reminder: Please refer to the following related instructions for the product you purchased.**

## 4. Monitor Operation

### 7/9/10inch Normal type LCD Monitor :



#### 1. Turn on

Connect all cables, turn on the power battery box and screen power button, the system is starting up.

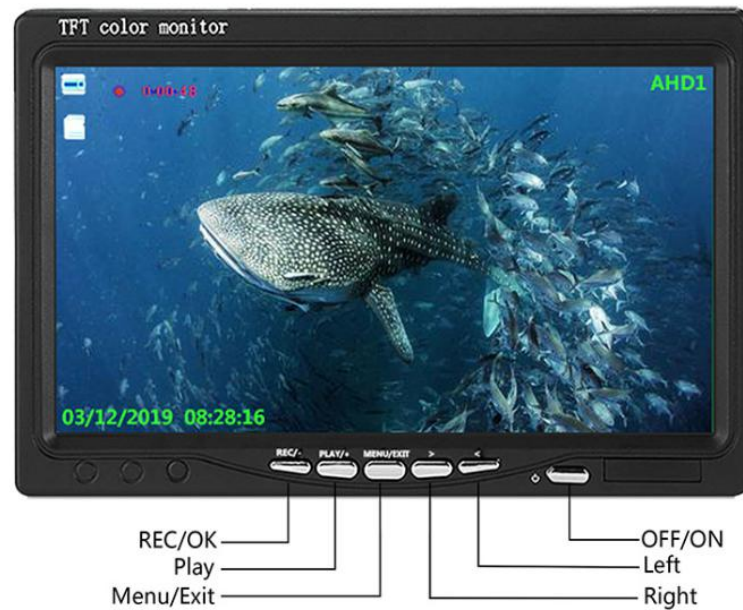
#### 2. Menu Setting

1>Brightness setting Press MENU button to enter into brightness setting, press +/- to set, press MENU button again to exit setting when completed.

2> Contrast setting Press MENU twice time to enter into Contrast setting, press +/- to set, press MENU button again to exit setting when completed.

3> Color Setting Press MENU 3 times to enter into Color setting, press +/- to set, press MENU button again to exit setting when completed.

## 7/9/10inch DVR Record Type LCD Monitor :



### 1. Turn on

Connect all cables, turn on the power battery box and screen power button, the system is starting up

### 2. Menu setting: needs to exit recording mode

MENU setting: press MENU/EXIT button to enter, < > button to select, REC button to confirm, press MENU/EXIT button to exit operation, can set REC/Photo/Time/Contrast/Brightness/Colorful, Language: Chinese/English/Russian Optional

**Recording operation:** Press REC button once time to record, press it again to stop

**Playback:** Press PLAY/+ to enter, press < > to select video, press REC/- to play, press MENU/EXIT to delete or save or preview

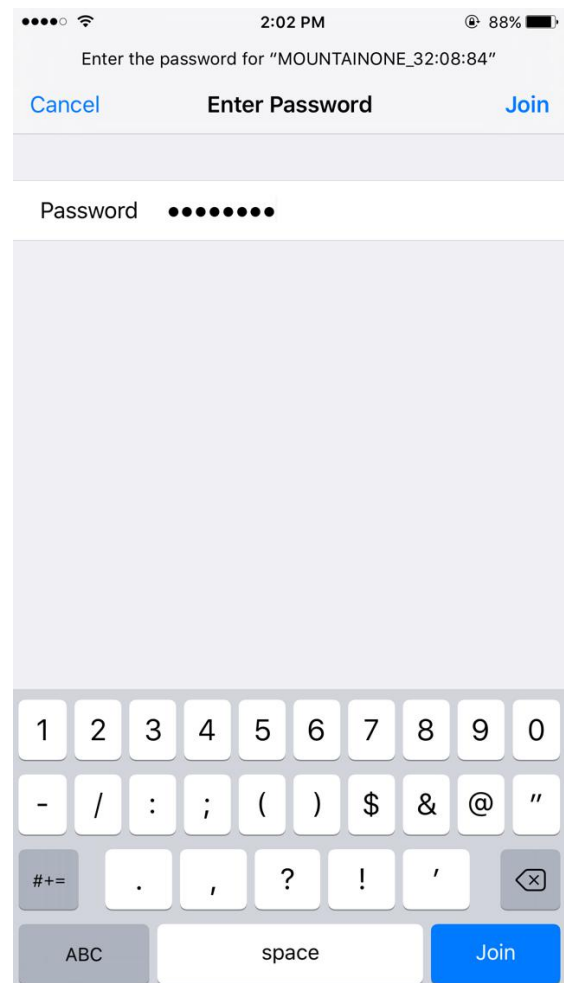
## 5. WIFI Hotspot Operation



**Step 1:** Scan QR code & download APP (Support Android & IOS)

**Step 2:** Click APP \*.APK to install

**Step 3:** Turn on the machine, after about 15 seconds, it will appear "WIFIImage\_\*\*\*\*" in mobile phone WLAN, input the password 88888888 to connect



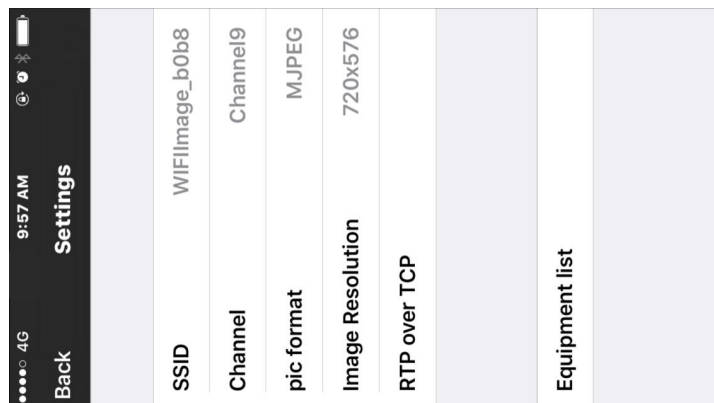
**Step 4:** Run APP,will popup **192.168.3.1**,click it (Note: If no image,please exit APP and reconnect)



**Step 5:** Function Key: 1.Photo 2.Record 3. File 4. Setting 5.Image selection



**Step 6:** Menu Setting



## 6. Meter Counter Function



**Meter Counter :**

**Simultaneous display/cleared Metric and Feet**



**Clear key**



Press the clear key first before using this function, it will be counted the meter when the wire reel rotates, and the data is displayed on the screen in real time.



## 7. Keyboard Operation

Keyboard: can enter the English letters, symbol and numbers, it can be saved and superimposed on the video



Easy Operation :

1. The keyboard uses wireless connection and automatically connects after power on
2. Rechargeable Low power consumption keyboard, long-term use.
3. ESC key can clear the input text at any time.

Can input the text information /symbols to mark events during the work

## 8. Build-in 512HZ Locator

It transmit a special frequency signal through the built-in chip

Transmit frequency : 512HZ

Output wave : Sine wave

Transmit Distance: about 5M

## 9. 512HZ Receiver

The receiver 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. There are two receiving modes: Far (note: about 5M) and Near (note: about 1 meter). Then adjust the sensitivity knob, peak mode (maximum) or null mode (minimum) to locate the transmitter

### Receiver Technical Parameters:

Receiver Frequency: 512HZ

Power consumption: <3W

Distance: about 5m

Battery: 3.7V 3000MAH built-in lithium battery

Charger: 5V1A

Charger time: about 6 hours

Battery Indicator: 3 gear, it is flashing when battery is low

Battery working time: about 10 hours

Signal strength: 6 gear

Speaker: Support

Detect Mode : Far/ Near

## 10. Charger

**Charger: input 100-240V output 12.6V 1000MA**

Note: Charging time: about 5-6 hours

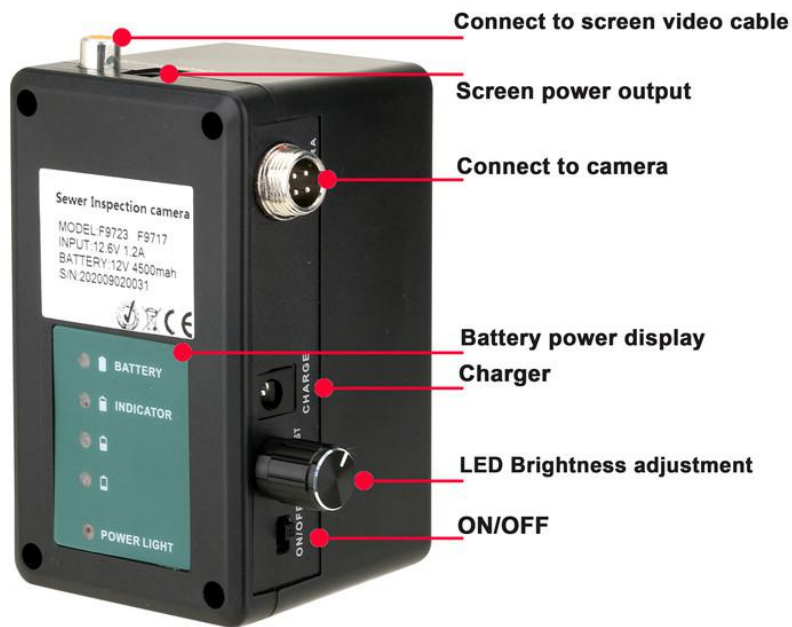
Charging status: Red LED on

Full charging: Green LED on

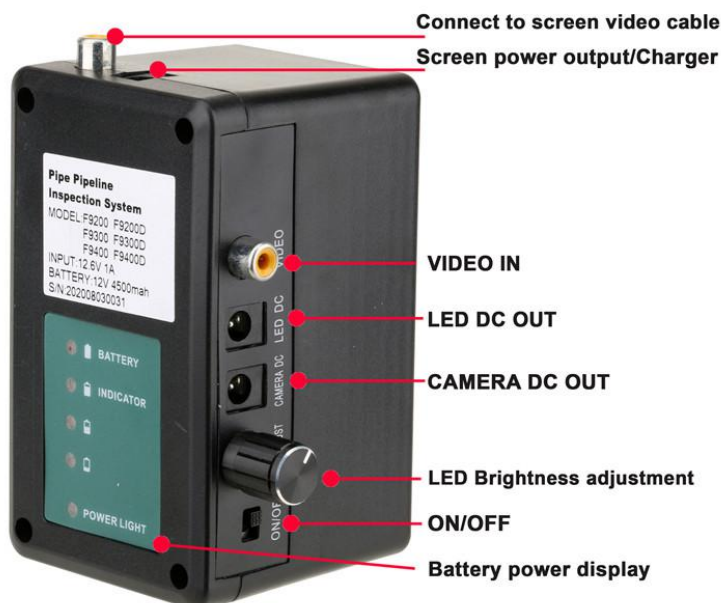
It can't work when the battery is less than 20%



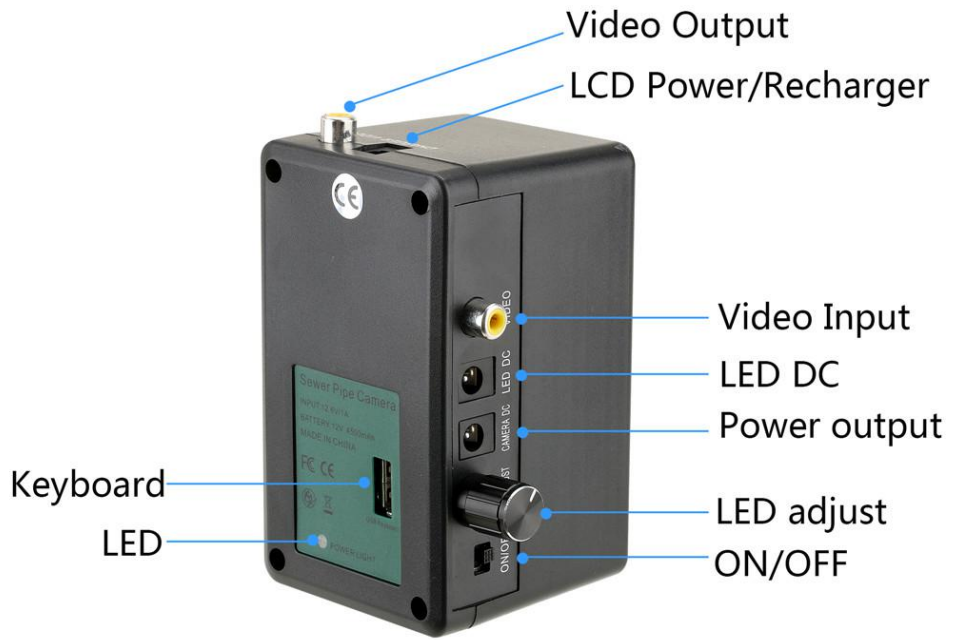
# 11. Battery Control Box



(1)



(2)



(3)

## 12. Camera Size

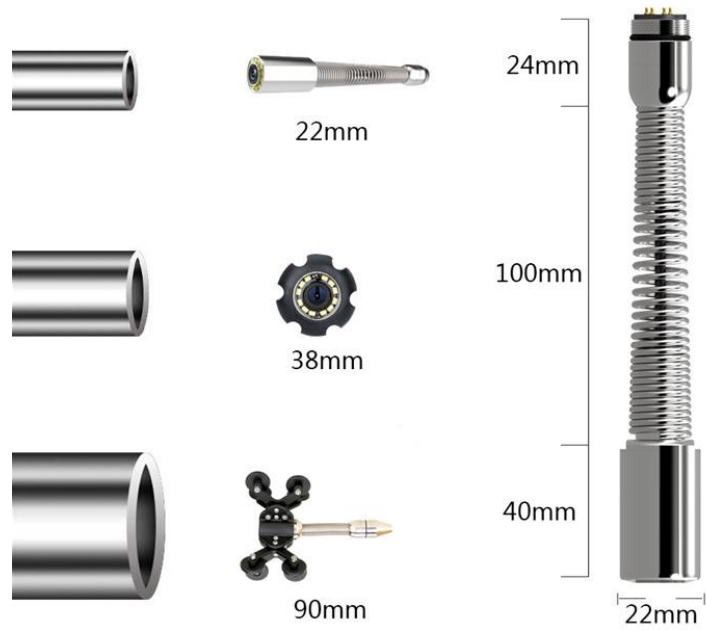
Diameter 17MM Camera head:



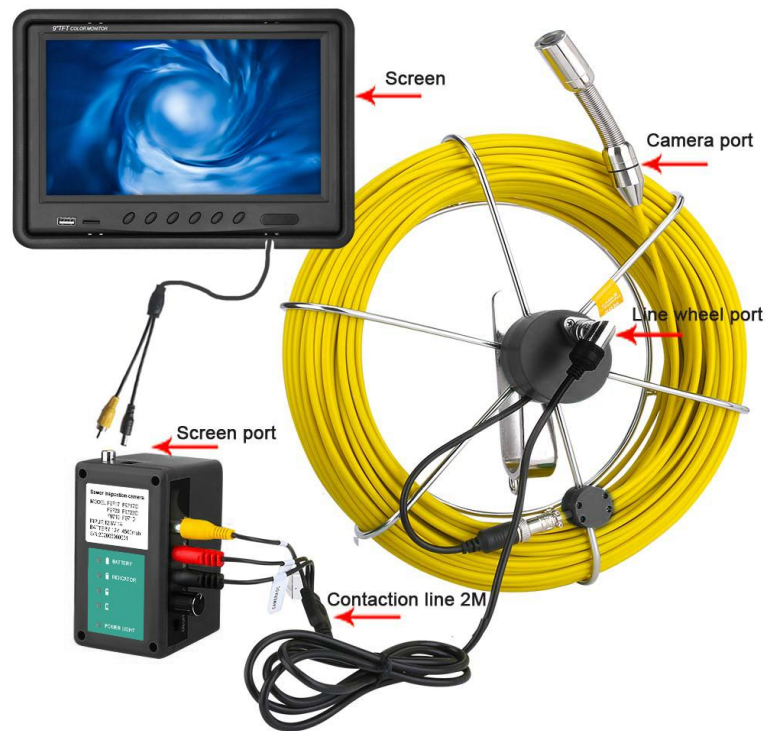
Diameter 22MM Camera head:



**Diameter 22MM 512HZ Camera head or Self-Balance Camera head:**

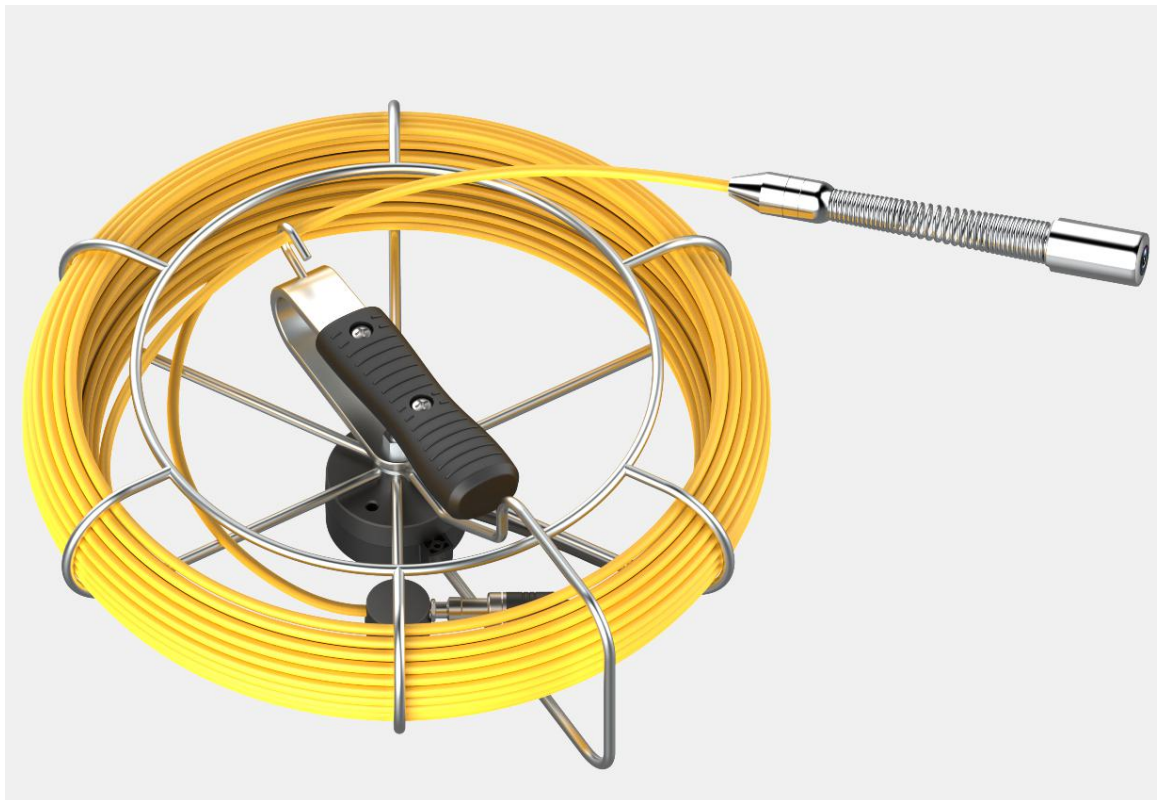


**13. Wire Diagram**





## 14. Cable Operation



## 15. Warranty

1. From the day you purchase the machine, our company will provide free maintenance for the normal breakdown of the product within the warranty period.
2. Products of our company could enjoy one year warranty and can be changed within 15 days, if there are any quality problems.
3. Within the warranty period, if the machine is man-made dismantled or damaged despite of the requirements for using, maintaining, taking care of in the product instruction, we will ask for the cost fee for the components.
4. Warranty place: the defective products will be sent back to our company by the distributors. The SHENZHEN factory of our company will arrange maintenance work.

Model NO:

Purchase Date:

Name		Contact	
Address			
Warranty Time	Warranty Record	Change Accessories	Warranty People



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.