

Pipe Inspection System



Instruction Manual

Attentions

- 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 keep distance from the system when charging
- 5.After being used, turn off the display and pull out all the connection joints.
- 6.Due to the version upgrades, if mentioned in this manual content does not accord with your machine, please refer to our machine.

Description

- 1.Color TFT LCD Screen.
- 2.High resolution camera,clear picture
- 3.Night vision.
- 4.High quality special cable, waterproof and anti-corrosion/cold/tensile.
- 5.Lithium battery.
6. The lights can on/off.night lights adjustable.
- 7.Range of Application: Water-supply pipe、 Air-conditioner pipe、 Cable pipe、 Pipeline vacuum system、 PLUNBIN pipe、 Buildings、 Sunken pipe

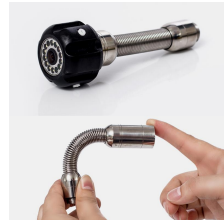
Product Specification

Item:	parameter
Charger:	AC100-240V
Battery:	Lithium battery
Investigation depth:	20M(selectable line length)
Material:	Fiber tube with high intensity
Camera light source:	With high while light
Camera material:	Stainless steel
Menu languages	Multi-language
Camera picture:	Color

Instruction for Product

1 Camera (A)

- 1、 metal contact chip
- 2、 spring
- 3、 highlight white LED
- 4、 camera lens



Product Specification

Item:	parameter
Camera diameter:	23MM
With the tube diameter:	>25MM
Camera light source:	12 LED with high while light(adjustable)
Camera working voltage:	5V
Lights working voltage:	12V
Water proof:	IP68
Camera material:	stainless steel
Camera size:	23MM
Camera protective cover parts material:	plastic-steel
Camera protective cover parts size 1:	29MM* 40MM

Camera (B)

1. metal contact chip
2. spring
3. highlight white LED
4. camera lens



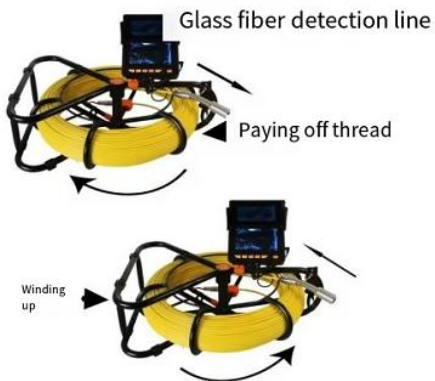
Product Specification

Item:	parameter
Camera diameter:	17MM
With the tube diameter:	>18MM
Camera light source:	6 LED with high white light(adjustable)
Camera working voltage:	5V
Lights working voltage:	12V
Water proof:	IP68
Camera material:	stainless steel
Camera size:	100MM* 17MM
Camera protective cover parts material:	metal
Camera protective cover parts size:	20MM* 25MM

2. Monitor



3 Coil



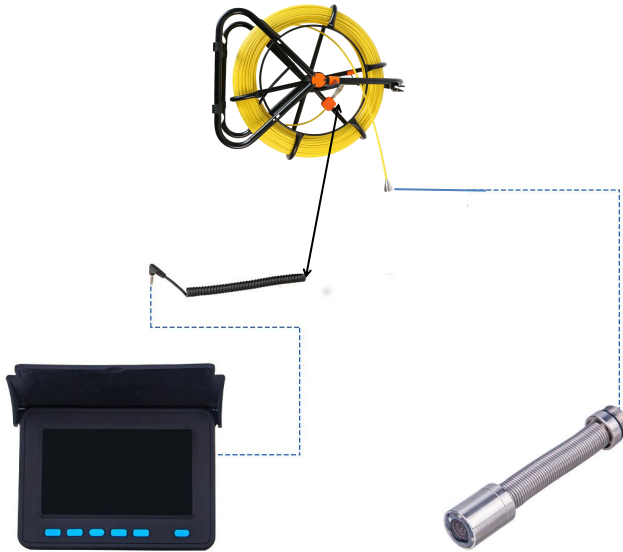
4. Install the monitor



System Installation

1. Vital: turn off the power switch, connect the video camera and the monitor, or the video camera and the monitor may be damaged.
2. Connect camera -coil -monitor .
3. Turn on the power switch in the power box, the switchboard starts.
4. Install the video camera with the protective cover slightly and put it into the pipe, rotate coil to proper depth.
5. Adjust LED light degree adjuster to proper light degree.
6. After utilization, mover the camera from the pipe carefully, take clean, soft and dry cloth to clear up it and put it back.

PRODUCT CONNECTION



Product components and accessories



Charging

When the battery power is low, it needs charging, and the method is as below:

- 1、 Take out the monitor and charger from the box.
- 2、 Connect the charger to the monitor.
- 3、 Connect the charger to the alternating current of 100-240v. The red indicator means charging.
- 4、 The green indicator means finishing charging.

Notes: to make sure the battery using age longer, please recharge it timely; otherwise, it will make it can not recharged.

5V power adapter or 5V power bank to charge

*With a dedicated charger,
please charge the machine with it



*The power bank are not included.
We only provide the power cable.

Pipe Failure Analysis

Failure analysis

Fault reasons and precautions

- ① Check whether the camera is loose, and tighten the camera.
 - ② Check whether the camera video cable is in full contact with the battery box.
 - ③ Check whether the video cable of the display screen and the power cable are in complete contact.
3. During use, pay attention to charging in time when the battery power light shows the last grid of power to prevent the battery from being lost and unable to be charged.
4. The cable should not be knotted when used, and the cable should not be bent less than 90°.
5. Do not drop the product violently to prevent the cable from being broken!
6. Please turn off the power before removing and inserting the memory card

Blue screen	<ol style="list-style-type: none">1. Check if camera connector is loose, and if camera is loose, caused poor contact.2. Check if cable and power supply connected loose.3. Check if monitor is connected with power supply normally.4. Check if cable is broken.5. Check if there is water leak to the front of the camera or if camera is damaged.6. When using the camera, put on the protective cover first, protect camera not to collide with hard objects and damage, cause unable to display images
LED light not on	<ol style="list-style-type: none">1. Read the manual to get the correct way to turn on the light.2. check if there is water in the camera, the water will damage the camera LED.
No Power	<ol style="list-style-type: none">1. Check if battery is fully charged.2. Check if display screen is damaged.3. check the power box and screen connecting, to be sure it is right.

<p>Cannot format</p>	<p>1. The memory card is damaged. Replace the memory card.</p>
<p>Unable to charge</p>	<p>1. Check if charging port is with foreign matters or deformation. 2. Check whether the charger is damaged. 3. If the power is too low, it should be charged in time to prevent the battery loss and unable to charge</p>
<p>Photo/video cannot be saved</p>	<p>1. Check if memory card is damaged. Replace the memory card., 2. Check if memory card slot with foreign objects or deformation.</p>
<p>Broken cable</p>	<p>1. It is recommended to use the cable on pipes with a diameter $\geq 60\text{mm}$. Pay attention to the force of pushing the cable to avoid breaking cable. 2. This product is only used for pipeline detection and inspection, and cannot be used for other purposes.</p>
<p>Cable knotting</p>	<p>1. When retracting and releasing cables, the cables can not be crossed and knotted, and the bending arc of cables should not be less than 90 degrees 2. When retracting the cable, pay attention to the orderly retract with the rotating iron frame, and do not use it violently</p>

Equipment cleaning	1. When cleaning the equipment, turn off the power before cleaning to avoid damage to the equipment.
Note	If the fault cannot be solved, do not disassemble it by user. Please contact the after-sales service team.