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Pipe Inspection System

Instruction Manual

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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 4-core(3-core) box 2-core(mir 1 (Pic 1)
3. Turn on the power switch in the power box, the indicator light on the monitor is on, 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.
   For videotape, refer to the DVR operation details (display operation Recording Type)
6. Turn on/off another large screen through video line.
7. After utilization, mover the camera from the pipe carefully, take clean, soft and dry cloth to clear up it and put it back.

Picture 1
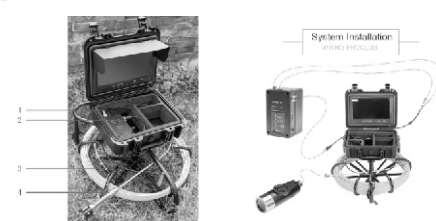
Charging

When the battery power is low, it needs charging, and the method is as below:
1. Take out the battery and charger from the box.
2. Connect the charger to the battery.
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.
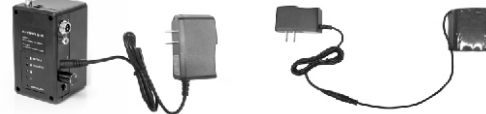
Attentions

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. 12V4500MA lithium battery.
6. With sun-visor for bright environment outside
7. Range of Application：Water-supply pipe、Air-conditioner pipe、Cable pipe、Pipeline vacuum system、PLUNBIN pipe、Buildings、Sunken pipe

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Product Specification

Item:	parameter
Charger:	AC100-240V DC12.6V 1000MA
Battery:	Lithium battery 12V4500MA
Continuous use time for battery:	Approximate 6h
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
Water proof:	IP68
Camera material:	stainless steel
Camera size:	120MM* 23MM
Camera protective cover parts material:	plastic-steel
Camera protective cover parts size 1:	29MM* 40MM
Camera protective cover parts size 2:	40MM* 90MM

cell box(D)

1. power light   2. key   3. power switch   4. charging connecting base
5. camera connector   6. power of monitor   7. monitor video

(1) Startup& shutdown
  ①Connect all connectors (camera aviation line and monitor line); turn the power switch to ON, the power light is on.
  ②Press "ON" on the keyboard, the machine starts operating under auto mode.
  ③Press "L" and "R" at the same time, the machine stops.
  ④Turn the power switch to "OFF", and disconnect the connectors.
(2)Turn on the night-vision light.
  Press "LED" on the keyboard to control the switch of night-vision of the camera. The light is on when starting up.
(3) Rotate manually and automatically
  ①Press "AUTO/MANU" to switch manual and auto rotation. It will be auto when starting up, the camera will rotato right under auto status.
  ②Turn left. Press L under manual status, the camera turns left, press L again the camera stop.
  ③Turn right. Press R under manual status, the camera turns right, press R again the camera stop
  ④Rotate to specified angle: Press R under auto status to choose angle A, then press R to choose angle B, the camera rotates between A and B. Press R again to cancel the rotation and turn to auto status.
(4) Rotation speed control
  ①Press SPEED under auto status and start high-speed rotation. Press SPEED again to go back to normal speed.

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3 cell box(A\B\C)

1. monitor video   2. power of monitor   3. adjacent coil plug   4. AV output
5. battery indicator   6. power input for charger   7. light-degree adjustment
for white light LED   8. power switch   9. power light

cell box （E）

1. monitor video   2. power of monitor   3. camera wire interface
4. power input for charger   5. power switch   6. battery indicator
7. lens switch   8. power light

Camera (B)

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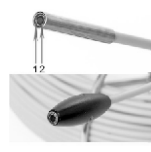

Product Specification

Item:	parameter
Camera diameter:	17MM
With the tube diameter:	16~100MM
Camera light source:	6 LED with high while light(adjustable)
Camera working voltage:	12V
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

Camera(C)

1. highlight white LED   2. camera lens

Product Specification

Item:	parameter
Camera diameter:	6.5MM
With the tube diameter:	7~30MM
Camera visual distance:	10~60MM (approximate)
Camera light source:	6 LED with high while light(adjustable)
Camera working voltage:	3.3V
Lights working voltage:	3.3V
Water proof:	no
Camera material:	stainless steel
Camera size:	45MM* 6.5MM
Camera protective cover parts material:	metal
Camera protective cover parts size:	45MM* 15MM

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Camera(D)

1. transparent case   2. lens   3. highlight white-vision   4. metal contact chip

Product Specification

Item:	parameter
Camera diameter:	145MM
With the tube diameter:	>150MM
Camera light source:	LED with high while light
Camera working voltage:	12V
Lights working voltage:	12V
Water proof:	IP68
Camera size:	160MM* 94MM
Camera protective cover parts size:	170MM* 145MM

Camera(E)

Product Specification

Item:	parameter
Camera diameter:	42MM
With the tube diameter:	>45MM
Camera light source:	LED with high while light
Camera working voltage:	12V
Lights working voltage:	12V
Water proof:	IP68
Camera size:	136MM* 42MM
Camera protective cover parts size 1:	41MM* 99MM
Camera protective cover parts size 1:	54MM* 149MM

2 Coil

Cable length scale   Fixed buckle
the scaled cable can show the cable length   fixed the cable wheel