PIPE INSPECTION CAMERA



Please read the manual carefully before operating the system.

Please charge the battery before use.



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Safety and Notice



Warning

To avoid electrical shock put the item indoor when charging



Warning

Use only input AC 100~240V output DC 13.5V 5A charger. This machine can only use the original charger and lithium battery, reminding the charging time is 5 hours. Please charge the battery before use!

- 1. Please check the appearance and functionality of the goods upon receipt. In the event of dama ged or missing goods, please forward images to us within 3 working days, Otherwise, we will not be able to provide after-sales service
- Working environment of camera system -10°C~50°C(14°F~122°F)≤95% RH; Storage environment: -20°C~70°C(-4°F~158°F) ≤95% RH.
- 3. The warranty becomes void if any physical damage is present by user or force majeure factors or if the system is disassembled or connect non-factory parts by the user
- 4. Do not disconnect the SD card while recording or playing as this may damage the system and/or the SD card
- 5. Remember to always back up the data on your SD card
- 6. Before using the SD card for the first time, it is recommended to use the check system to format the SD card.
- 7. Remember to slide the write protection tab to the unlocked position. Otherwise, all data on the SD card is protected and cannot be edited or formatted.
- 8. Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.
- Keep controller dry.
- 10. Do not drop, knock, or shake the inspection system. Inappropriate behavior when using the camera system may damage the internal electronic circuit board or deform the lens shape.
- 11. Make sure all accessories are connected before starting up.
- 12. Do not remove or install camera, keyboard, coil, SD card and other accessories when the machine is turned on. If replacement is required, please replace it in the power off state.

1. Parts list

1.1. Accessories

Item	Image	Description	Optional
		Camera Head size: ø17mmX115mmSkid size: ø24mm	
Camera Head		 Camera Head size: ø23mmX134mm Skid size: ø40mm & ø80mm 	
& Skids		 Camera Head size: ø23mmX134mm Transmitter: 512Hz Skid size: ø40mm & ø80mm 	
		 Camera Head size: ø23mmX240mm Transmitter: 512Hz Self-balancing Skid size: ø40mm & ø80mm 	
		 Controller size: 280*220*37.5mm Resolution: 1024x600 Monitoring & Video recording & text writing Storage medium: 8G SD card & card read or USB stick (max 256G) Built-in battery:11.1V 6000mAh 66.6Wh 	√
Controller &	A STATE OF THE STA	 Wire rack size: 360*455*215mm Wire rack material: aluminum alloy 	V
Cable Wileel		 Size:Ø332*59mm Coil material: glass fiber Wire diameter: ø6.3mm Coil length: 30 m 	V
		Hard KeyboardSize: 300.8*115.8*12.25mm	V

Item	Image	Description	Optional
Charger		 Input: AC100-240V ~ 50 / 60Hz Output: DC 13.5V / 5A Plug specifications:5521 	√
Microphone	-1 %-	Frequency Response: 20-20KHz	√
SD card & Card reader		8G SD card & card reader	√
Waterproof Ring	00		√
Manual			√
Screwdriver			√
Pipe Receiver		Frequency 512hzSignal: AnalogDistance: 4.5-5m	

1.2. Control Box



1	10.1 inch display	12	Light brightness down
2	UP/ZOOM+	13	Counter reset
3	Record	14	ON/OFF
4	Photo/OK/ Photo folder	15	Light brightness up
5	Left/ backward	16	DC JACK
6	Down/ZOOM-	17	USB stick port
7	Right/ Fast forward	18	SD Card Slot
8	Back	19	Headphone jack
9	Quick playback	20	Video input
10	Menu/ Delete	21	Video output
11	Meter/Feet switch	22	

2. Quick Start Guide

2.1. Connection

1. Loosen the screw, open the sunshade and tighten the screw.

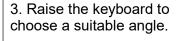




2. Raise the screen to choose a

suitable angle.

5. Loosen the brake screw





6. Can be used horizontally



7. Can be used vertically



8. Loosen the screw to open the coil plug.



9. Rotating coil exits camera head and secures cable



illead and secures capie

WARNING:

Check the waterproof ring between all connections.

2.2. Charge the Battery

- 1. Connect the adapter to the AC 100~220V power supply.
- 2. Connect the DC plug to the jack on the controller.



3. The red light of the charger lights up and the battery charging status is displayed on the screen.



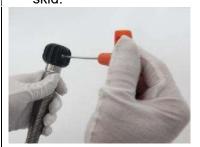
2.3. Assemble skid

2.3.1. Install 40mm skids

1. Put the camera in the stand.



2. Tighten the screws on the outside of the skid to fix the skid.



3. The skid is installed.



2.3.2. Install 80mm skids

1. Loosen the skid screws and install the camera head;



2. Tighten the screws on the outside of the skid to fix the skid.



3. The skid is installed.



2.4. Starting up

1. Insert SD Card

Insert SD card or card reader & SD card.



4. Take photo & playback Press this button to take photo. Long press button to playback.





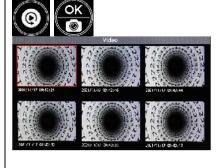
7. Zoom in and out Press these two buttons to zoom in and zoom out image when recording.(max 8 levels)



When playing a video, you can use these two buttons to adjust the volume

10. Play video

Press these two buttons to play video.



2. Staring up

Press and hold the On/Off button to power on.



5. Audio and text record Support to record audio by microphone and input text by keyboard when recording video

(requires a headset)



8. Adjust volume

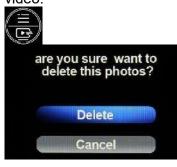
When recording a video, you can use these two buttons to adjust the volume



When playing a video, press these two buttons to fast forward/rewind

11. Delete video

Press these buttons to delete video.



3. Record video

Press this button to record, press again to stop recording.



6. Meter counter



button to reset the

counter.



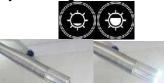
button to switch

meter/ feet.

 $0.0FT \rightleftharpoons 0.0M$

9. Adjust lights of camera Press these two buttons to

adjust the light



12. CVBS video out

Long press the menu button for 3 seconds to switch the screen connected to other RCA jacks. Operate in the same way to turn off this feature



forward and backward the video.

OK

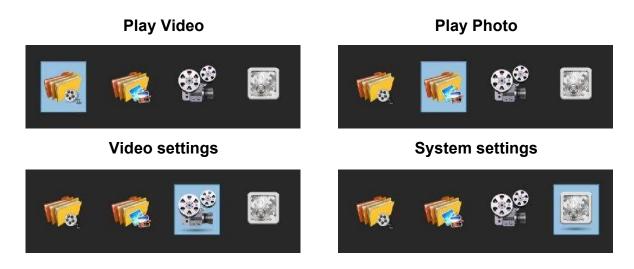
When play back video, press button to pause the video, and press



Warning: Do not use "USB STICK" and "SD card" at the same time. Pay attention to the direction of the SD card. Do not insert or remove the U disk or SD card during the photo/video process.

3. Menu

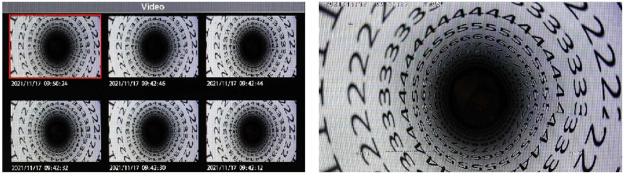




3.1. Play Video

The video folder can be opened in the menu, or it can be opened quickly by pressing " Quick playback ".

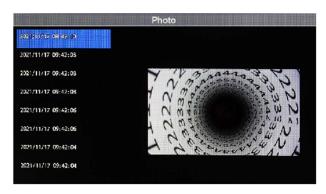
"OK" button to play the video, "◀▶"backward/ Fast forward, "▲▼"adjust the volume,
 "MENU" button to delete the video.

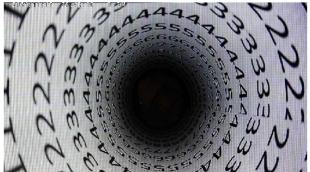


3.2. Play Photo

The photo folder can be opened in the menu, or you can press and hold the "OK" button for 3 seconds to quickly open it.

"OK" button to view photos, "MENU" button to delete photos.





3.3. Video settings

3.3.1. Set the length of time to record video

- 5 minute
- 15 minute
- 30 minute





3.3.2. Record Audio

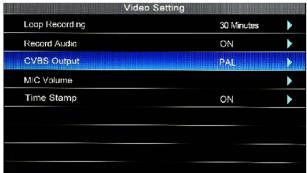
- ON
- OFF





3.3.3. CVBS output

- NTSC
- PAL





3.3.4. .Mic volume

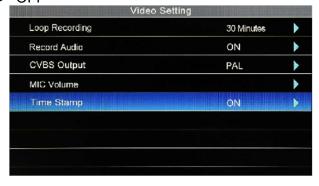
First press the OK key, press the left and right keys to adjust the volume
 Video Setting
 Video Setting

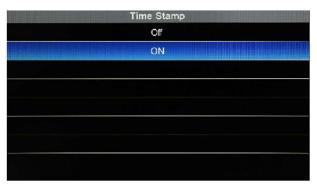




3.3.5. Time Stamp

- ON
- OFF





3.4. System settings

3.4.1. Picture

- Brightness
- Contrast
- Chroma
- Reset





3.4.2. Volume

Press the left and right keys to adjust the volume



3.4.3. Language

Press the up and down keys to set the language





3.4.4. Time

Date and time

Press the up and down keys to set the date and time, and press the left and right keys to select the time and date





3.4.5. Default Setting

No: Cancel

Yes: Confirm

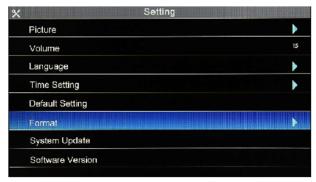




3.4.6. Format

No: Cancel

• Yes: Format SD card(Note: please back up the data in the SD card before operation)

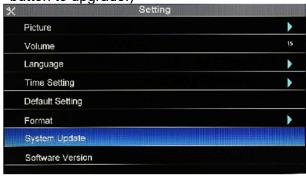




3.4.7. Firmware update

No: Don't upgrade system

 Yes: Start to upgrade (Need to insert the SD card with the upgrade program, press the "OK" button to upgrade.)



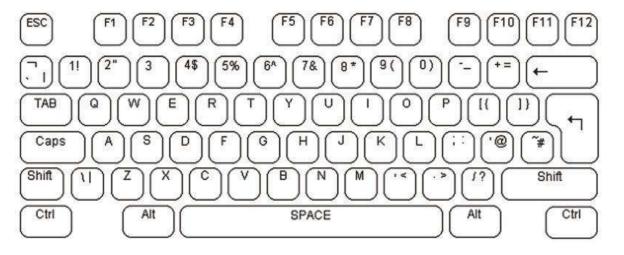
3.4.8. View software version

View software version, date





4. Keyboard



- 1. The font and character size have been set and cannot be changed.
- 2. The basic operation of characters is to automatically push back, covering the input characters on the image.
- 3. The cursor flashing indicates the current position of the character to be input on the screen. The cursor position can be controlled by the direction key on the keyboard. The cursor will move from left to right, from top to bottom and back. After typing a character, the cursor flashes quickly at the position of the next character, and then disappears. Press F6 to switch between cursor flashing and cursor clearing.
- 4. Video character overlay input uses a standard American keyboard. The alphabetic characters in the QWERTY area and the numeric characters of the keypad can be directly input to the screen. Normally, lowercase letters are entered. When you press and hold the shift key or press caps lock, you can enter uppercase letters. When exiting uppercase input, press caps lock again. Use the backspace key to move the characters on the screen, which will quickly replace the characters to the left of the cursor with blank characters, and the cursor will move to the left. The delete key on the keyboard does not give any function. Press enter to move the cursor to the start of the next line.

F6	The switch cursor flashes
F9	Clear screen
$\uparrow\downarrow\longleftarrow\rightarrow$	Move cursor position
CTRL+1~8	Quick jump page

5. The video text superimposing unit displays it in the current screen page. The text written to these pages will be saved in the local nonvolatile memory until it is overwritten. To move between screen pages, use the page up and page down keys. To quickly jump to page 1 ~ 8, press Ctrl + X (x stands for 1 ~ 8). Supports up to 64 page editing. To clear the screen page of the text, press F9.