FHD PIPEIINE INSPECTION CAMERA



Read these instructions completely before operating this system.

Please charge the battery first 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. 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
- 2. 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.
- 9. 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:Ø 38*232 mm Skid size: Ø 75/100/150/220mm 	√
Camera Head & Skids		 Camera Head size:Ø23mmX120mm Skid size: Ø40mm, Ø80mm 	
		 Camera Head size:Ø25mmX135mm Skid size: Ø40mm, Ø80mm 	
Control terminal		 10.1 inch LCD high brightness screen Monitoring & Video recording & text writing Storage medium: 64G SD card (maximum 256G) Battery: 11.1V 6000mAh 66.6Wh 	√
Keyboard		 size: 300.8 * 115.8 * 12.25mm Waterproof soft keyboard Language: English Keyboard interface: USB 	√
Cable		 Coil size: Ø517*143mm Cable material: fiberglass wire Cable length: 60m Cable diameter: Ø7.6mm 	√
Charger		 Input: AC100-240V~50/60Hz Output: DC 13.5V/5A Output plug specification: 5521 	√
Earphone		Frequency Response: 20-20KHzPlug diameter: 3.5mm	√
SD card and card reader	S COURT POOR S COU	64G SD card & card reader	√

Screw Driver		√
Waterproof Ring	00	√
Manual		√

1.2. Controller





1	Battery level indicator	13	Meter/Feet switch
2	Up / ZOOM +	14	Light brightness down
3	Right/volume+/fast forward	15	Video input switch
4	Down / ZOOM-	16	ON/OFF
5	Left button/volume-/reverse	17	USB port
6	Photo/OK/ Photo folder	18	Video input
7	Quick playback	19	Video output
8	Menu	20	HDMI video output
9	Record	21	DC JACK
10	Back	22	USB stick port
11	Counter reset	23	SD Card Slot
12	Light brightness up	24	Headphone/microphone jack

2. Quick Start Guide

2.1. Get accessories and charge the Battery

Get accessories

1. Plug in the charging power source.



2. Connect the charger plug to the controller port.



3. After charging is completed, the indicator light changes from red to green.



2.2. Connection

1. Install two casters.



2. Install the keyboard on the fixed plate with four screws.



3. Install the fixing plate on the coil and fix it with the hand screw.



4. Pull out the pins on both sides of the coil;



7. Loosen the guide wheel hand screw, clip the cable into the guide wheel, and then tighten the hand screw.



5. Raise the push handle and



8. Install the camera head.



6. Release the brake.

9. Install the controller to the coil mount.



Plug the keyboard cable into the back of the controller.



Insert the coil cable into the back of the controller;



Installation is complete.





Warning: Check the waterproof ring between all connections.

2.3. Assemble skid

1. Install the skid accessories;



4. Pass the cable through the back cover.





2. Accessories installation is

complete



3. Install the front cover of the skid.



6. The installation is complete.



2.4. Starting up

1. Insert SD Card Insert SD card or card reader & SD card



Plug in microphone.



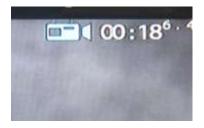
3. Staring up Long press the power button for 3 seconds to turn on.



4. Record video

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





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



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



Meter counter 7.



Press

button to reset

the counter.



button to switch meter/ feet.

8. Zoom in and out

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

0





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

Adjust volume

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





When play video or photo, also use these two buttons to choose video or photo.

10. **Adjust lights of** camera

Press these two buttons on control handle to adjust lights.









11. Play video

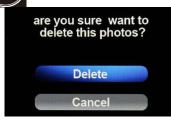
Press these two buttons to play video.



12. **Delete video**

Press these buttons to delete video.





When play back video, press button to pause the video, and press fast forward and backward the video.

Warning:

Do not insert two SD cards at the same time. Pay attention to the direction of the SD card

2.5. CVBS/HDMI Oput

1. Let the screen power up and light up



2. The CVBS/HDMI interface connects to an external display.



button for 3 seconds each time to switch CVBS/HDMI/body display.

2.6. CVBS Input

1. Power on the external camera.



2. RCA connector insertion "VIDEO IN".



3. Press and hold the "Back" button for 3 seconds to switch the CVBS/body display.





3. Menu

Press

o enter menu. Pre







choose the items. Press



enter submenu. Press

enter upper submenu until to homepage.

Play Video

Play Photo





Video settings

System settings

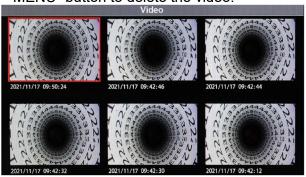


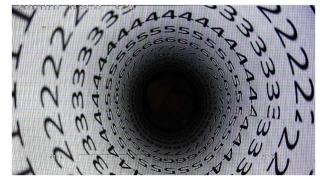


3.1. Play Video

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.

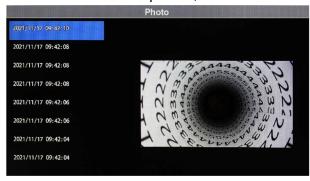


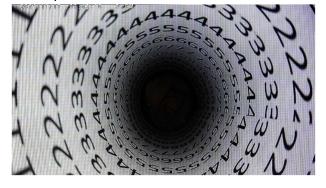


3.2. Play Photo

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. Audio record

- 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





3.3.5. Time watermark

- ON
- OFF

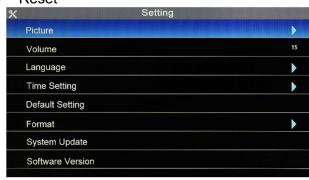




3.4. System settings

3.4.1. Image

- Brightness
- Contrast
- Chroma
- Reset





3.4.2. Volume

Press the left and right keys to adjust the volume



3.4.3. 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. Restore default

No: Cancel
 Vac: Confirm



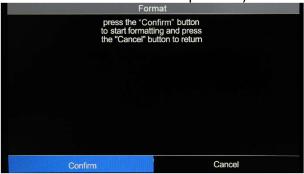


3.4.6. Format

No: Cancel

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

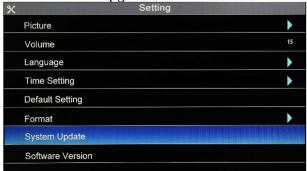




3.4.7. Firmware update

No: Don't upgrade system

Yes: Start to upgrade

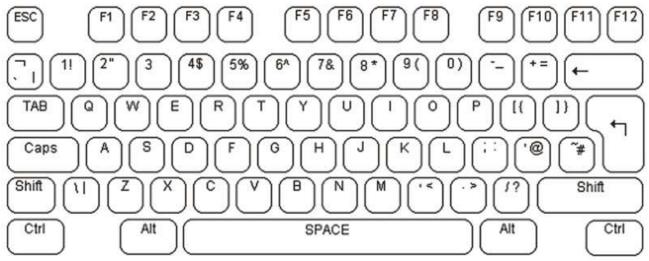


3.4.8. View software version





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
$\uparrow\downarrow\longleftarrow$	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.