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
- 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		 Camera Head size: ø17mmX115mm Skid size: ø24mm 	
		 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 	
	E & (0) + + + + + + + + + + + + + + + + + + +	 Controller size: 280*220*37.5mm Resolution: 1024x600 Monitoring & Video recording & text writing & WIFI image transmission (Optional) Storage medium: 8G SD card & card read or USB stick (max 256G) Built-in battery:11.1V 6000mAh 66.6Wh 	\checkmark
Controller & Cable Wheel		 Wire rack size: 456*395*200mm Wire rack material: aluminum alloy 	\checkmark
		 Size: Ø376*70mm Coil material: glass fiber Wire diameter: Ø6.3mm 5-core+coaxial Coil length: 30 m 	\checkmark
		 Hard Keyboard Size: 300.8*115.8*12.25mm 	\checkmark

Item	Image	Description	Optional
Charger		 Input: AC100-240V ~ 50 / 60Hz Output: DC 13.5V / 5A Plug specifications:5521 	√
Microphone		 Frequency Response: 20-20KHz 	\checkmark
SD card & Card reader	1	• 8G SD card & card reader	√
Waterproof Ring	00		\checkmark
Manual			\checkmark
Screwdriver			\checkmark
Pipe Receiver	0	 Frequency 512hz Signal: Analog Distance: 4.5-5m 	

1.2. Control Box

1234	21 22

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

2. Quick Start Guide

2.1. Connection

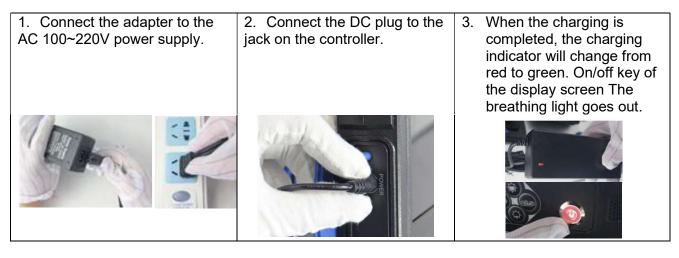
1. Loosen the screw, open the 2. Raise the screen to choose a 3. Lift the keyboard to open the sunshade and tighten the suitable angle. toolbox. screw. • 42) 6. Loosen the brake screw 2. 4. Loosen brake screw 1. 5. Open the coil bracket. 8. Put the camera at the wire 9. Clamp the camera on the top 7. Press the top screw firmly and pull out the camera. hook when using. after use 10. It can be placed vertically 11. It can be placed for operation. horizontally.

WARNING:

Check the waterproof ring between all connections.

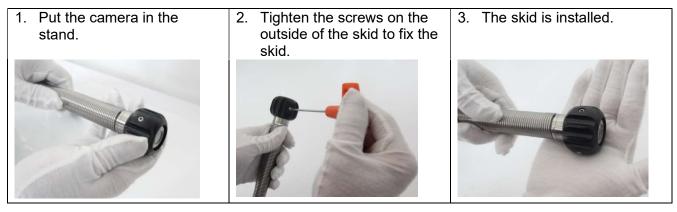
2.2. Charge the Battery

Initial charging for more than 5 hours



2.3. Assemble skid

2.3.1. Install 40mm skids



2.3.2. Install 80mm skids



2.4. Starting up

1. Insert SD Card Insert SD card or card reader & SD card.	2. Staring up Press and hold the On/Off button to power on.	3. Record video Press this button to record, press again to stop recording.
4. Take photo & playback Press this button to take photo. Long press button to playback.	5. Audio and text record Support to record audio by microphone and input text by keyboard when recording video (requires a headset) 11/10/25 15:18:31 abcdefghijkImnopqrstuvwxyz 0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ ~1@#\$%^&*()_+:* T[]\;',./</p	 6. Meter counter Press button to reset the counter. Press button to switch meter/ feet. 0.0FT 0.0M
 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 	 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. 	9. Adjust lights of camera Press these two buttons to adjust the light
10. Play video Press these two buttons to play video. Image: Comparison of the set of the	11. Delete video Press these buttons to delete video. are you sure want to delete this photos? Delete Cancel	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

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

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.

2.5. WIFI (Optional)

Note: When WFI mode is turned on, the USB flash disk cannot be used and the SD card is available. **2.5.1. Switch WIFI**

1. No WIFI icon in the lower right corner of the display indicates that WIFI is not turned on. Long



for 5 seconds to display the transfer in switch between USB flash disk and WIFI,



USB flash disk ->>WIFI or WIFI ->>USB flash disk. After pressing the key, the automatic restart takes effect. After turning on WIFI, the lower right corner of the display screen displays WIFI icon, and the icon has an "X". At this time, the WIFI power is not turned on.





2. Enter the video settings, select WIFI, select "ON" to open, and return to the main interface. If there is no "X" in the WIFI icon, the WIFI power has been turned on.

Video	Setting	WIFI
Loop Recording	30 Minutes	Off
Record Audio	ON	ON
CVBS Output	PAL	
MIC Volume		
Time Stamp	ON	
WIFI	ON	

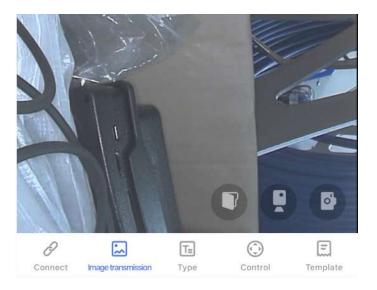
2.5.2. Connect WIFI

1. Install the APP "WPS CAM" on Android/iOS system devices; APP networking and storage permissions must be allowed.

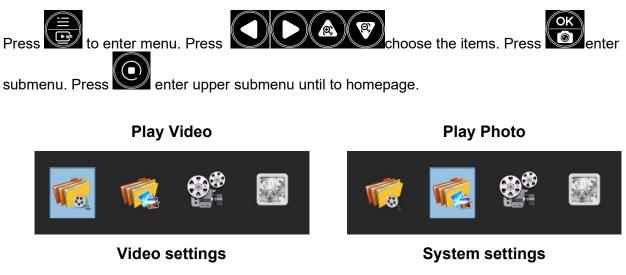


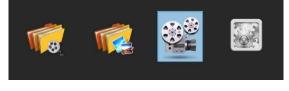
- 2. Search for WIFI and connect. WIFI name:WPS-HDWIFI; Password: 12345678; The WIFI indicator light at the lower left corner of the controller will change from slow flashing to fast flashing after successful connection;
- 3. Open the app and select "Image transmission" to view the image; Can perform photo, video, and playback operations. If there are no images, please restart the app; The WIFI transmission distance is about 5 meters.

Note: Other functions of the APP require optional Bluetooth usage.



3. Menu



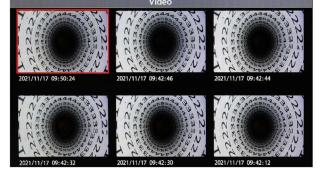


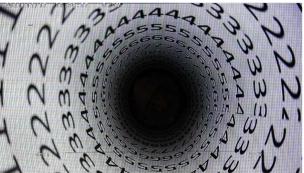


3.1. Play Video

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.

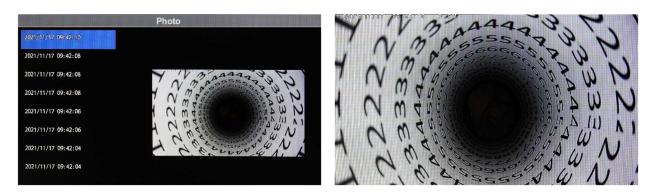




3.2. Play Photo

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

Video	Setting	Loop Recording
Loop Recording	30 Minutes	5 Minutes
Record Audio	ON 🕨	15 Minutes
CVBS Output	PAL	30 Minutes
MIC Volume		
Time Stamp	ON 🕨	
WIFI	Off	

3.3.2. Record Audio

- ON
- OFF

	30 Minutes	
Record Audio	ON	
CVBS Output	PAL	
MIC Volume		
Time Stamp	ON	
WIFI	Off	

Record Audio	
Off	
ON	

3.3.3. CVBS output

- NTSC
- PAL

Loop Recording	30 Minutes	
Record Audio	ON	
CVBS Output	PAL)
MIC Volume		
Time Stamp	ON	
WIFI	Off	



3.3.4. Mic volume

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

Video	Setting	Same .		Video Setting		
Loop Recording	30 Minutes		Loop Recording		30 Minutes	
Record Audio	ON		Record Audio		ON	
CVBS Output	PAL	•	CVBS Output	Record Audio	PAL	•
MIC Volume			MIC Volume	\cap		
Time Stamp	ON		Time Stamp		ON	
WIFI	Off		WIFI	¥	Off	

3.3.5. Time Stamp

- ON
- OFF

Video	Setting	Time Stamp
Loop Recording	30 Minutes 🕨 🕨	Off
Record Audio	ON 🕨	ON
CVBS Output	PAL	
MIC Volume		
Time Stamp	ON 🕨	
WIFI	Off	

3.3.6. WIFI (Optional)

- ON
- OFF

Video	Setting		WIFI
Loop Recording	30 Minutes		Off
Record Audio	ON	•	ON
CVBS Output	PAL	•	
MIC Volume		•	
Time Stamp	ON	•	
WIFI	Off		

3.4. System settings

3.4.1. Picture

- Brightness
- Contrast
- Chroma
- Reset

×	Setting	COLOR	
Picture		BRIGHTNESS	
Volume	15	CONTRAST	10
Language		COLOR	10
Time Setting		RESET	
Default Setting			
Format	•		
System Update			
Software Version			

3.4.2. Volume

• Press the left and right keys to adjust the volume

Setting	
Picture	•
Volume	
Language	
Time Setting	Þ
Default Setting	
Format	
System Update	
Software Version	

3.4.3. Language

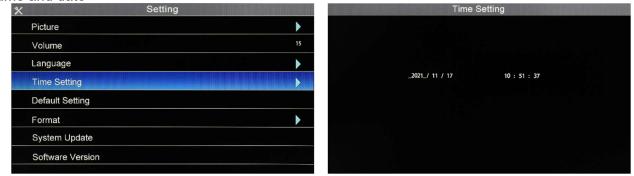
• Press the up and down keys to set the language

Setting		Language
Picture		English
Volume	15	Français
Language		Deutsch
Time Setting	•	Italiano
Default Setting		Español
Format	•	čeština
System Update		Nederlands
Software Version		

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

	Default S	etting	
•		press the "Confirm" button to restore the factory settings	
15	and press the "Cancel ^{®"} button to return		
•			
•			
		Cancel	
		restore the factor and press the	

3.4.6. Format

- No: Cancel
- Yes: Format SD card(Note: please back up the data in the SD card before operation)

Setting		Form	at
Picture Volume	•	press the "Confirm" button to start formatting and press the "Cancel" button to return	
	15		
Language	•		
Time Setting	•		
Default Setting			
Format			
System Update			
Software Version		Confirm	Cancel

3.4.7. Firmware update

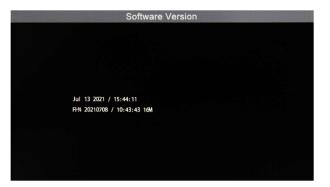
- No: Don't upgrade system
- Yes: Start to upgrade (Need to insert the SD card with the upgrade program, press the "OK" button to upgrade.)

×	Setti	ing
	Picture	•
	Volume	15
	Language	
	Time Setting	
	Default Setting	
	Format	
	System Update	
	Software Version	

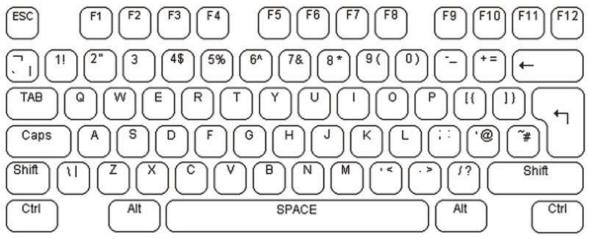
3.4.8. View software version

• View software version, date

×	Setting	
Picture		•
Volume		15
Language		►
Time Setting		
Default Setting		
Format		
System Update		
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
$\uparrow\downarrow \longleftrightarrow$	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.