

Packing List

Item	Name	Quantity
1	Camera head	1pcs
2	Cable reel	1pcs
3	DVR control unit	1pcs
4	Video Link cable(6pin)	1pcs
5	Meter counter link cable(8pin)	1pcs
6	Camera skid	1set
7	32G USB disk	1pcs
8	Charge adaptor	1pcs
9	Waterproof ring	2pcs
10	Earphone	1pcs
11	User manual	1pcs

**FHD PT CAMERA INSPECTION SYSTEMS
WITH DVR AND MANUAL FOCUS
ASSEMBLY AND OPERATING INSTRUCTION**



**Read these instructions completely before operating the device
PLEASE CHARGE BATTERY FIRST BEFORE USE!**

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Attention

- 1) Please read the user manual carefully,
- 2) Please format the USB flash disk or USB hard disk on the DVR control box before first use the product
- 3) Using wireless keyboard, please make sure the battery for keyboard is full. If battery is low, it needs to change a new 7th battery.
- 4) Using original charger adaptor to charge battery or support unit work.

Trouble shooting guide

Q: All parts are connected well ,but there is no image on the screen.

A:



Find 1m test cable, connect camera to control box directly, please check if the camera has image.

Q: I can’t typewrite words

- A:
- 1. Check the wireless keyboard battery is full or not.
 - 2. Check the wireless keyboard receiver if it is inserted well .
If not , please restart the system after reinserting
 - 3. Please press below keys on the keyboard
 - F8----Display the character
 - F9--- Hide the character
 - F10-- Clear all characters

Q:The control box can’t read USB flash disk

A: Please use another USB flash disk to test. If the product still can’t read this , please contact with us.

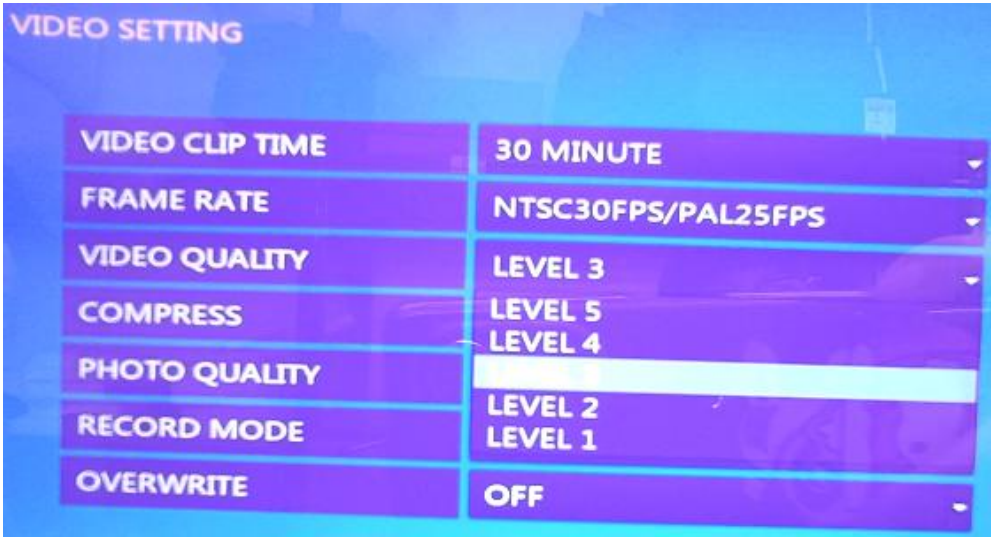
Q: The meter counter is not accurate

A: Please check if the counter value is correct or not.

Specification

Monitor		
Screen size	13 inch LCD IPS screen	
Display Ratio	16:9	
Resolution	1920x1080	
Menu	Chinese English and others	
Sunshade function	Yes	
Audio power amplifier		
Power Amplifier	Stereo Class-D Audio Power Amplifier	
Power	3W*1	
HD DVR		
Support playback file format	video	H.264 encode, MP4 format
	Audio	audio and video synchronization
	Picture	JPEG
Audio input	Built-in Microphone	
Video input	HD ,AHD, CVBS	
Signal input	CAM	
Video system	HD PAL ,HD NTSC, AHD NTSC	
Video Input	Stereo aduio output (Internal Audio or	
Video Output	Composite video signal output	
Power support		
External charge	DC12V 2000mA adaptor	
Battery	11.1V 8800mA/H	

Power	20W (Max)
Battery charge time	8hours
Battery work time	6 hours
Pan Tilt camera head with manual focus (built in 512hz transmitter)	
Camera Diameter	Dia.33mm x L225mm
View range	+/- 180°, rotation endless (slip ring)
Lighting	4pcs white LEDS
Camera Sensor	1/3 CMOS,2.0MP
Operating temperature	5°C ~ 50°C
Camera housing material	304# Stainless steel
Waterproof	IP68
Cable wheel	
Special gold point touch connector to camera	
Fiberglass rod push cable Ø7mm	
Cable length: <input type="checkbox"/> 40 meters	
Other function	
Meter counter	Feet and Meter switch. Display on the screen
Keyboard	Support wired and wireless keyboard.



Video clip time:1 MINUTE / 5 MINUTE / 10 MINUTE
15 MINUTE / 30 MINUTE / 60 MINUTE
Default value: 30 MINUTE

FRAME RATE:NTSC 30FPS / PAL 25FPS

Video Quality: It has 5 options. Usually we choose Level 3.
The level is bigger, the video resolution is higher

Compress:H265
Photo Quality: High / Middle / Low
Default Value : High

Record Mode: Manual / Auto
Default Value : Manual

Overwrite:OFF/ON
Default Value : OFF

Know Your Device

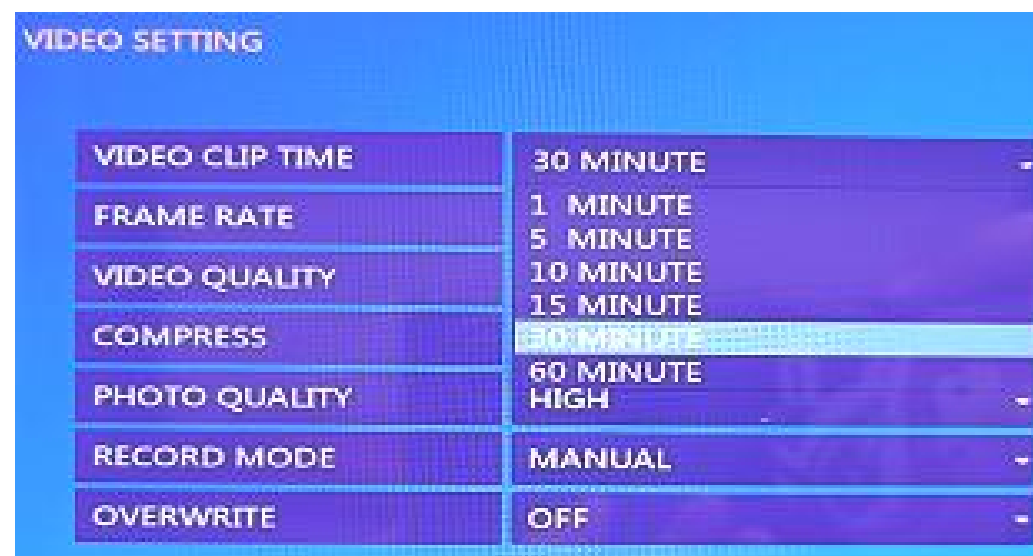


Adjust the LCD screen brightness, Contrast

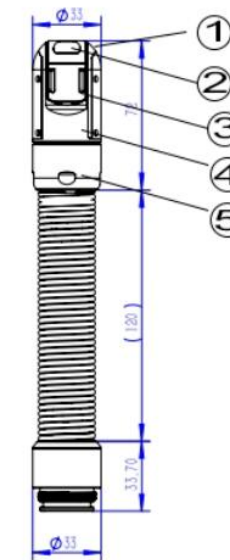
Default resolution: 1280x720_60

Usually we suggest the customers don't change these value

RECORD Setting



Camera head



1. White LED lights (4 PCS)
2. Lens
3. Tilt rotation axis
4. Aluminum housing
5. Camera rear-end

Camera skids

It includes below items.

2pcs/set (Diameter 65mm and Diameter 105mm)



105mm

65mm

How to install camera skid

Step1:Loose the screws



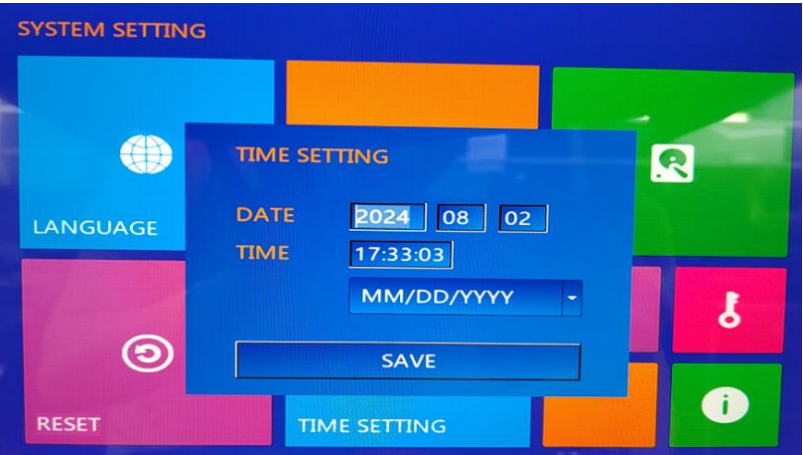
Step2:Install skid to camera



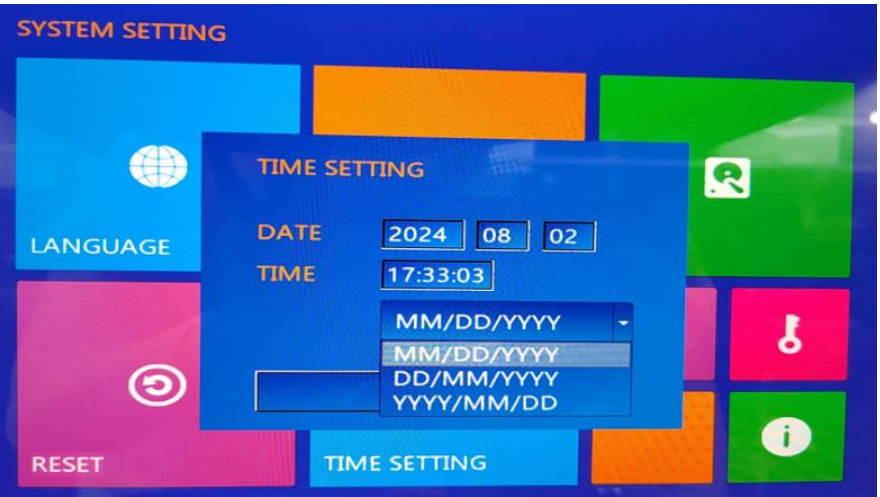
Step3:find the screws gap



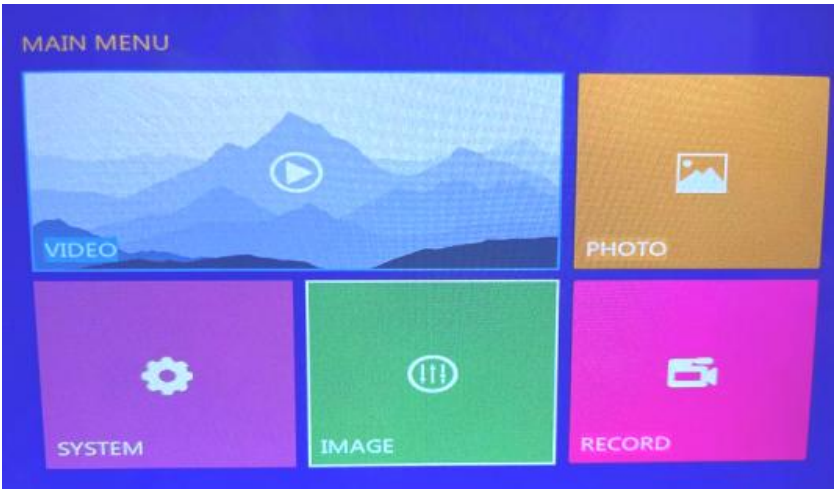
Step4:Screw it tightly



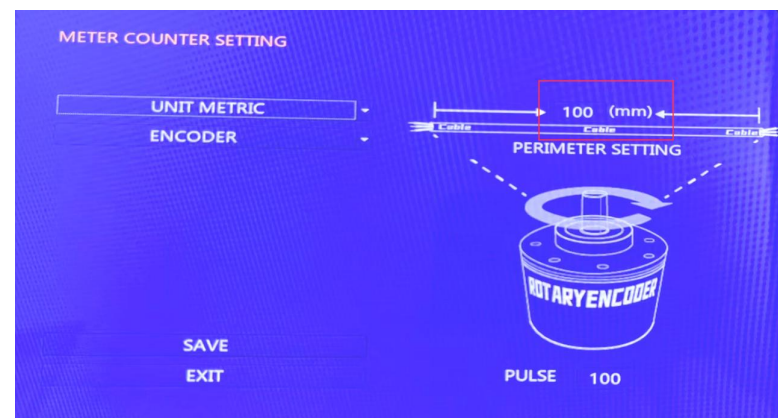
Press UP/Down/Left/Right arrows to set the date and time.
Press“Save ”to save the setting



For date format, it has 3 options
IMAGE SETTING

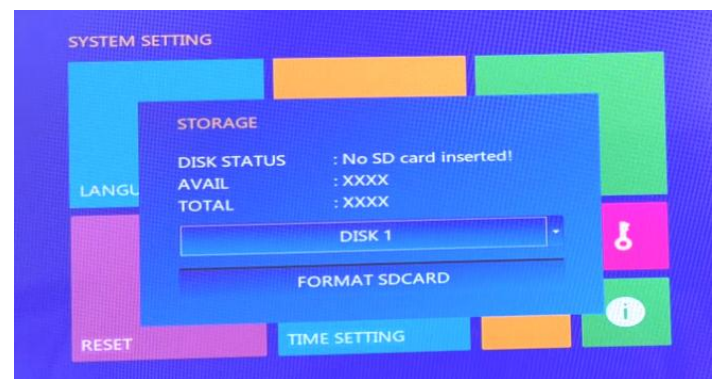


2) **ENCODER:** Set the value to get the accurate meter counter



The **PREMETER SETTING** value is different for different cables.
For 7mm fiberglass cable, it is 582

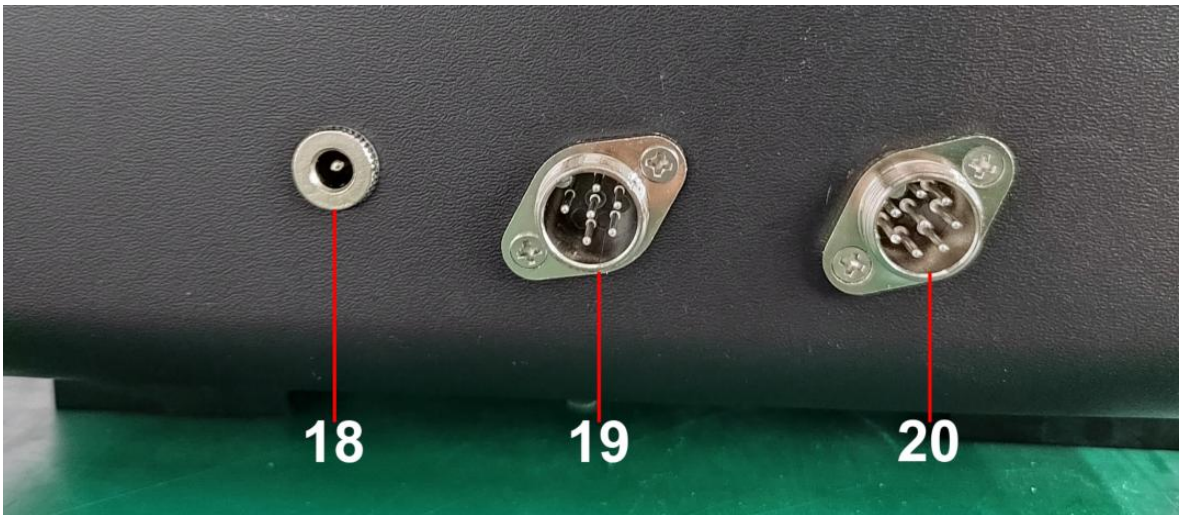
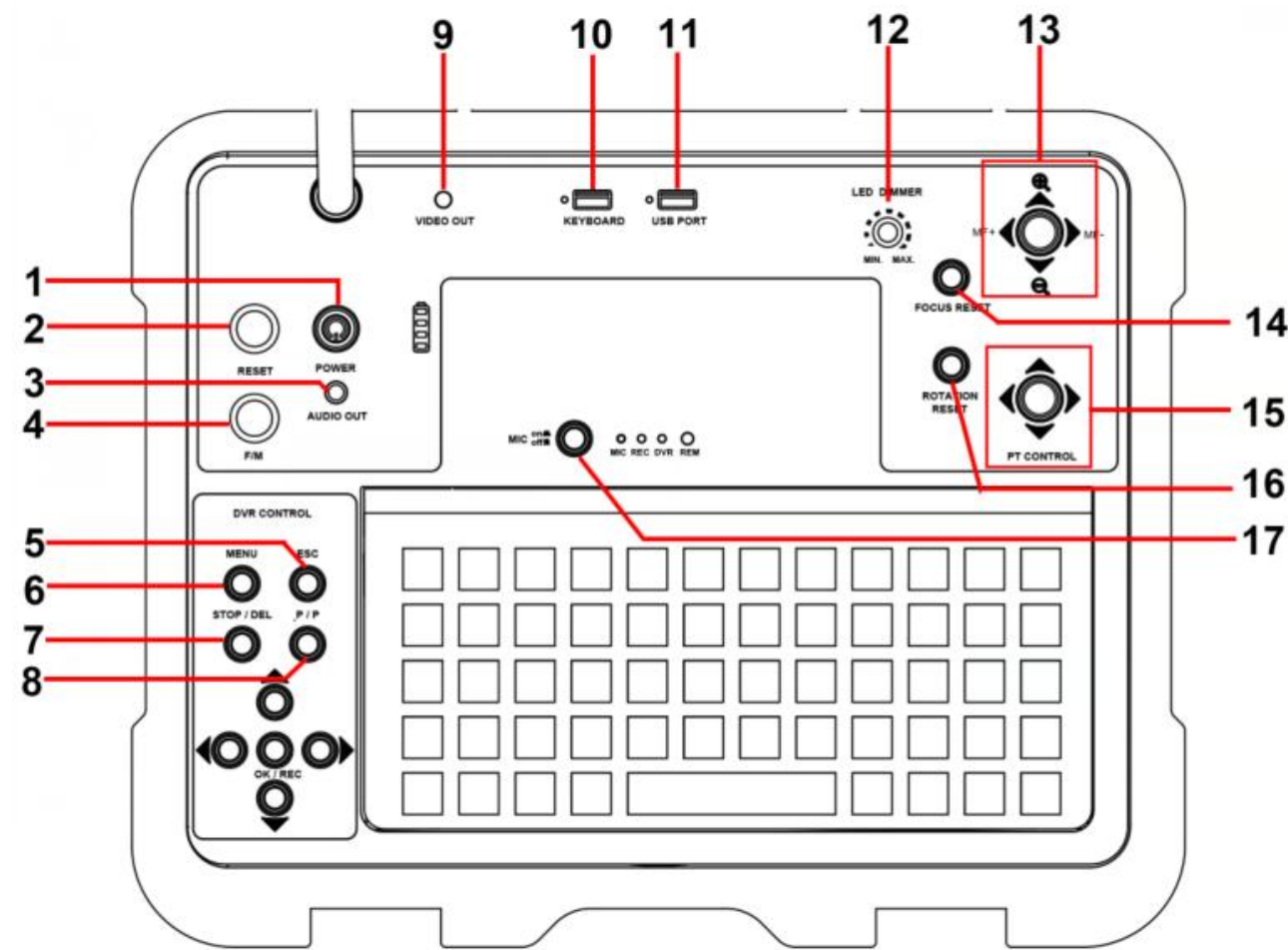
3) **DISK:** Format the USB flash driver.



The default value is “**DISK1**”.

- 4) **RESET:** Restore the factory default Settings
- 5) **TIME SETTING:** Setting the time,date

Control box panel



- 1) POWER: Power key.Press it down, turn on the conton box.
- 2)RESET: Press this button ,the counter is zero
- 3) Audio out:Connect external earphone
- 4) F/M: Switch Meters and Feet ; Default value is Meter
- 5) ESC:Exit
- 6) Menu: DVR main menu
- 7) STOP/DEL: Stop recording the video . Delete the files in menu
- 8) P/P:Pause / Photography

Up: Move up /Zoom in Down:Move down /Zoom out

Right:Move right Left:Move Left

OK/REC: Confirm / Record the video
- 9) Video out: Video output.(Connect outside monitor)
- 10) KEYBOARD: Connect wireless or wired keyboard
- 11) USB PORT: Connect external USB flash disk storage device
- 12) LED DIMMER: Adjust camera led brightness

613) Joystic: (**Zoom function is only avaiable for zoom camera**)

🔍 :Zoom out 🔍 :Zoom in

MF+ :Far focus MF-: Near focus
- 14) Focus reset:one key to original focus
- 15) PT CONTROL: Camera rotation joystick
- 16) Rotation reset: camera backs to original direction
- 17) MIC:record the auido.
- 18) CHARGE: Insert charge adaptor,charge the battery.

Press the "UP" and "DOWN" arrows to select files

Press the "LEFT" and "RIGHT" arrows to turn pages,

Press"OK/REC " button to play the file, "STOP/DELETE " button to delete the file.

2.PHOTO: Playback the picture file

3.SYSTEM:Setting language,date,time ...

4. IMAGE: Image setting,such as CVBS out, HDMI Resolution,brightness,chroma, contrast, noise reduction

5.RECORD: Video setting, such as video clip time, frame rate, compress, photo quality, record model,overwrite.

System Setting



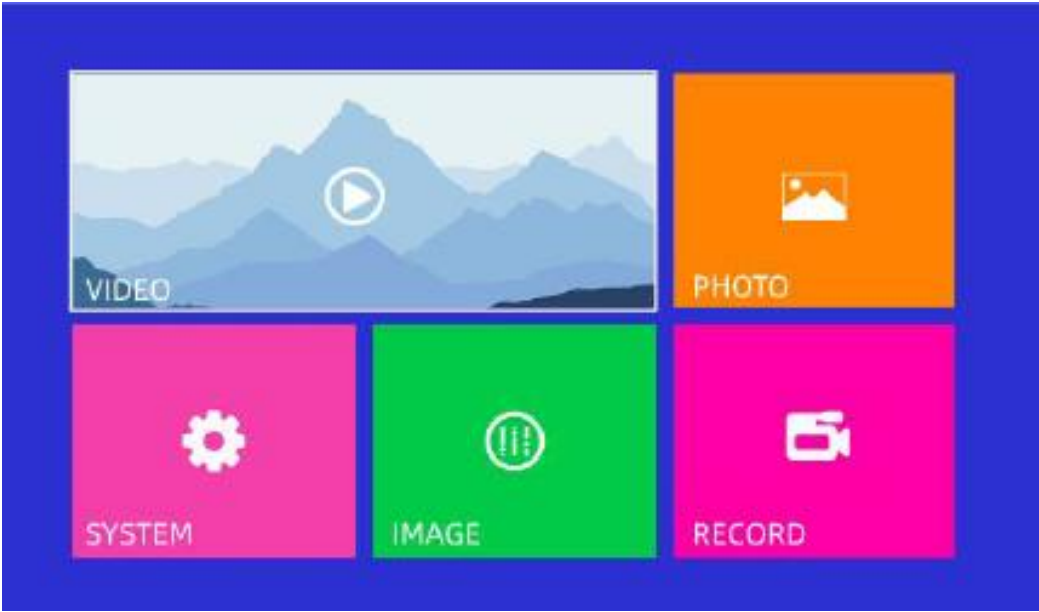
1) **LANGUAGE:** Setting the menu language.

The box has 9 languages.(English,Chinese,French, Espanol German,Polish,Korea,Russian and Italian.

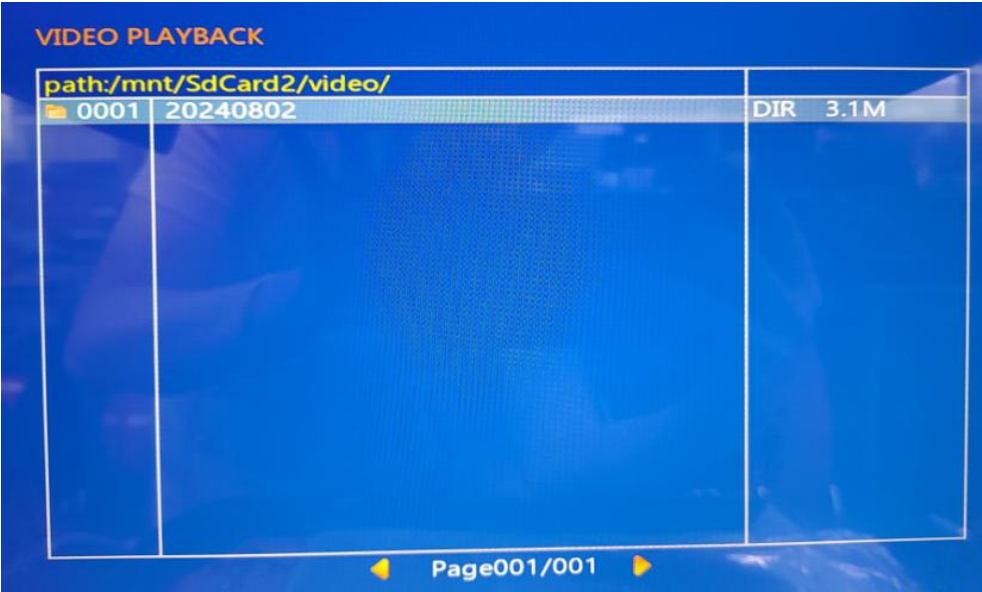
6. Press MENU button to enter the main menu ,and choose “PICTURE” to scan the pictures.

DVR menu instructions

Press menu button to enter the main menu



1. Video: Playback the video file



- 19) CAM: 6pin port .Signal input.
- 20) COUNTER: 8pin port. Connect meter counter link cable

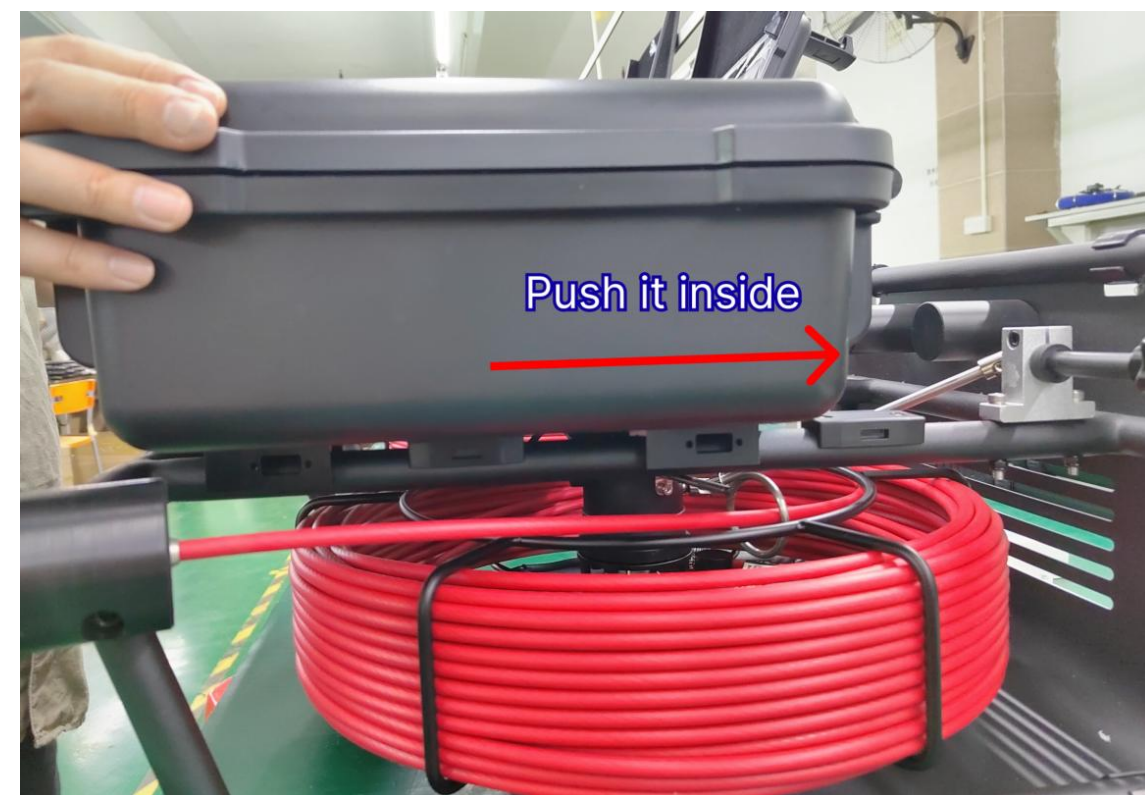
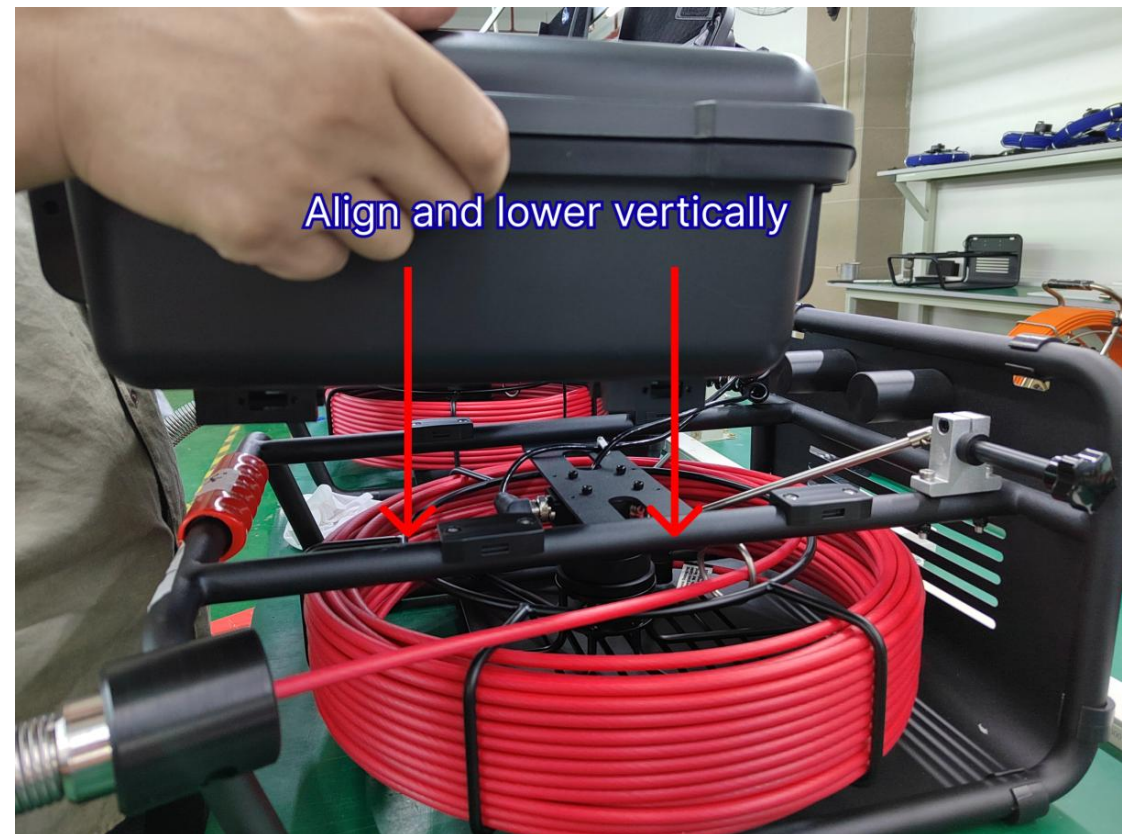
Remote controller



Button	Function
REC	Recording video
SNAP	Screenshot / Photography
▲	Up / Zoom in
▼	Down / Zoom out
◀	Left/Backward(Playback Model)
▶	Right/Forward(Playback Model)
OK	Confirm
MENU	DVR menu
STOP	Stop recording
ESC	Exit
PLAY	Playback the video
DEL	Delete the video or picture file

Cable reel part

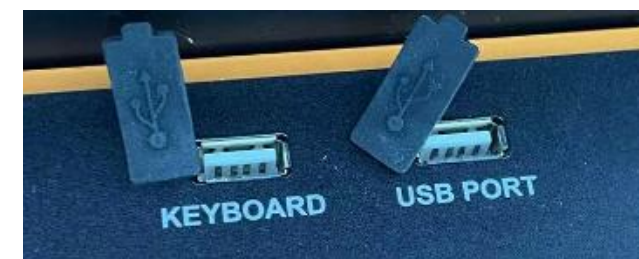
Control box and cable rack installed as one unit



6. Take out the wireless keyboard adaptor from keyboard



7. Insert USB flash driver and Keyboard USB adaptor to the control box

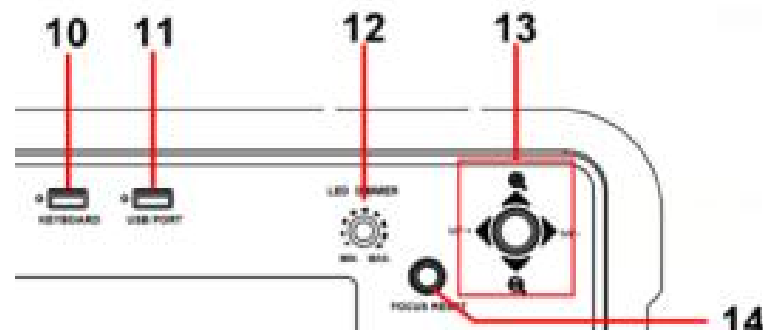


8. Power on the control box.

Operating instruction

1. Insert the USB disk to USB port.
2. **Record the video:** press "OK/REC" button to start, and press "STOP" button to stop recording.
3. **Record the audio:** Press down the MIC button. When it is recorded the video, you can record the audio at the same time.
4. **Take pictures:** Press remote control "SNAP" button or control box "P/P" to take picture (No matter whether it is recording or not)
5. Press MENU button to enter the main menu, and choose "VIDEO" to play the video.

Wireless keyboard operation instruction



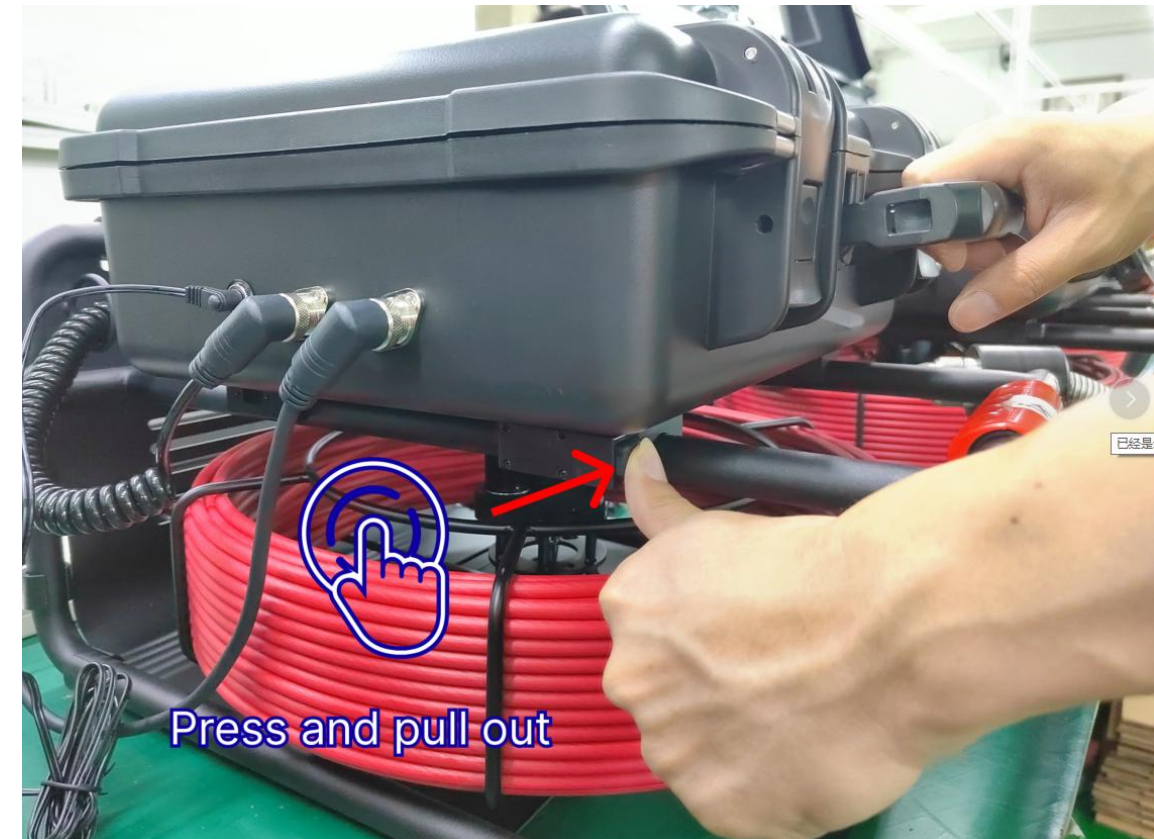
1. Inset USB adaptor to Keyboard USB port (No.10)
2. Switch Knob to “ON”, The screen display cursor,then typewrite the character.
3. F8 :Display the character F9:Hidden the character
F10 :Clear the character
4. If the keyboard battery is low level, please change a new one.
Otherwise it can't typewrite the character.

Assemble the equipment

- 1.Take out all parts from the package.Count the items as the packing list.
2. Connect camera head to the cable reel.
3. Install the centralizer guide to camera head
4. Put the control box on the cable reel
- 5.The counter and signal wires of the cable reel are directly connected to the side of the control box.



Separation of control box and cable rack



Meter counter device part



No.	Function	Details
1	RESET	Press this button ,the counter is zero
2	M/F	Switch Meters and Feet ; Default value is Meter



Cable brake



Charge the battery

- 1) Inset 12.5V/2A charge adaptor to charge port 1
- 2) Charge adaptor indicator light is red, the battery is charging
- 3) Charge adaptor indicator light is green, the battery is charged full

