

## Packing List

Item	Name	Quantity
1	Camera head	1pc
2	Cable reel	1pc
3	DVR control unit	1pc
4	Camera skid	1set
5	32G USB disk	1pc
6	Charge adaptor	1pc
7	Waterproof ring	2pcs
8	Earphone	1pc
9	User manual	1pc

## **AHD 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!**

## Contents

Specification.....	2
Camera head.....	4
How to install camera skid.....	5
Control box panel.....	5
Remote controller.....	7
Cable reel & Meter counter .....	8
Control panel basic operation.....	9
Switch power supply between charge and battery.....	10
Charge the battery.....	10
Wireless keyboard operation instruction.....	11
Recording video & photography function instructions.....	11
DVR menu operation instruction.....	12
Troubleshooting guide.....	19
Packing List.....	20

## 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 7<sup>th</sup> battery.
- 4) Using original charger adaptor to charge battery or support unit work.

## Troubleshooting 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.**

**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

## Specification

Monitor		
Screen size	8 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
	Picture	JPEG
Audio input	Built-in Microphone	
Video input	AHD analog high-definition signal(suport	
Signal input	CAM	
Video system	AHD PAL、 AHD NTSC (Support CVBS	
Video Input	Stereo aduio output (Internal Audio or	
Video Output	Composite video signal output	
Power support		
External charge	DC12V (Input voltage AC 100V~240V, Output voltage DC:12.5V , Current 3000mA)	
Battery	11.1V 7000mA/H	

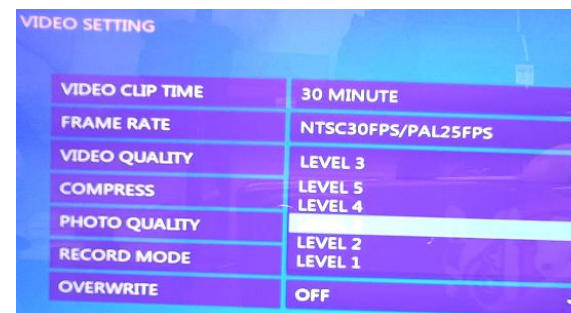
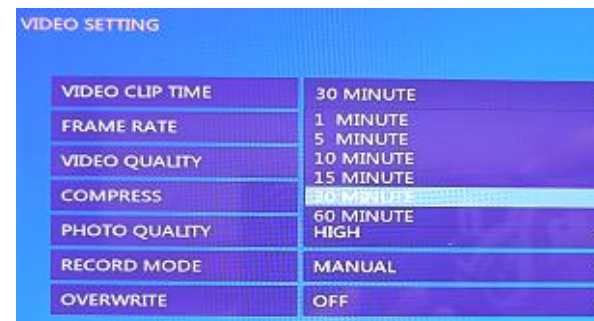
Power	20W (Max)
Battery charge time	8hours
Battery work time	6 hours
<b>Pan Tilt camera head with manual focus (512hz transmitter option)</b>	
Camera Diameter	Dia.33mm x L225mm
View range	+/- 180°, rotation endless (slip ring)
Lighting	4pcs white LEDS
Camera Sensor	1/3 CMOS, 1.3MP 960P
Operating temperature	5°C ~ 50°C
Camera housing material	304# Stainless steel
Waterproof	IP68
<b>Cable wheel</b>	
Special gold point touch connector to camera	
Fiberglass rod push cable Ø7mm	
Cable length: <input type="checkbox"/> 60 meters	
<b>Other function</b>	
Meter counter	Feet and Meter switch. Display on the screen
Keyboard	Support wired and wireless keyboard.

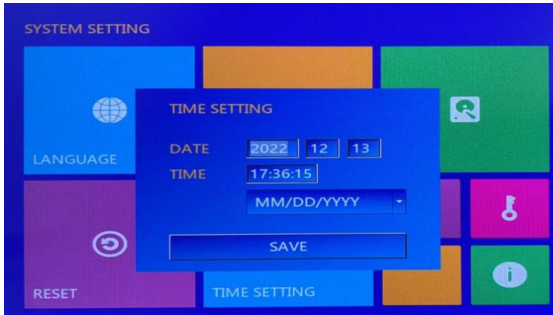


Adjust the LCD screen brightness, Contrast  
Default resolution:1280x720\_60

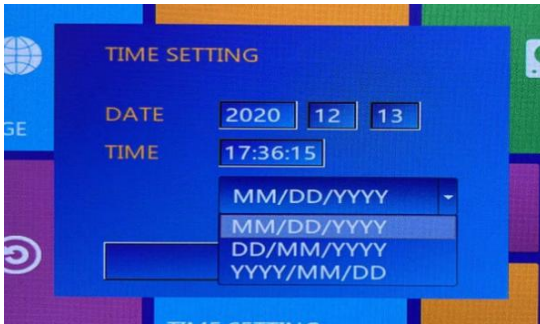
**Usually we suggest the customers don't change these value**

### RECORD Setting



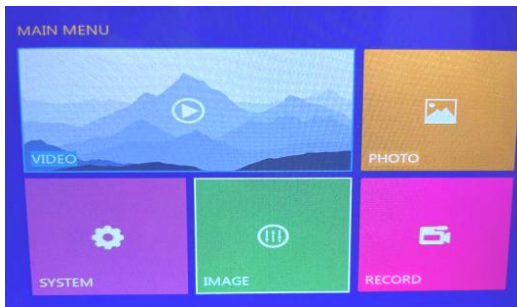


Press UP/Down/Left/Right arrows to set the date and time.  
 Press "Save" to save the setting



For date format, it has 3 options

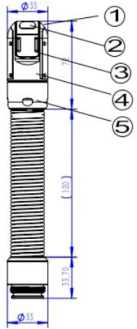
**IMAGE SETTING**



**Know Your Device**

**Camera head**

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



**Camera skirts**

It includes below items.  
 2pcs/set (Diameter 65mm and Diameter 105mm)



105mm



65mm

## How to install camera skid

Step1:



Step2:



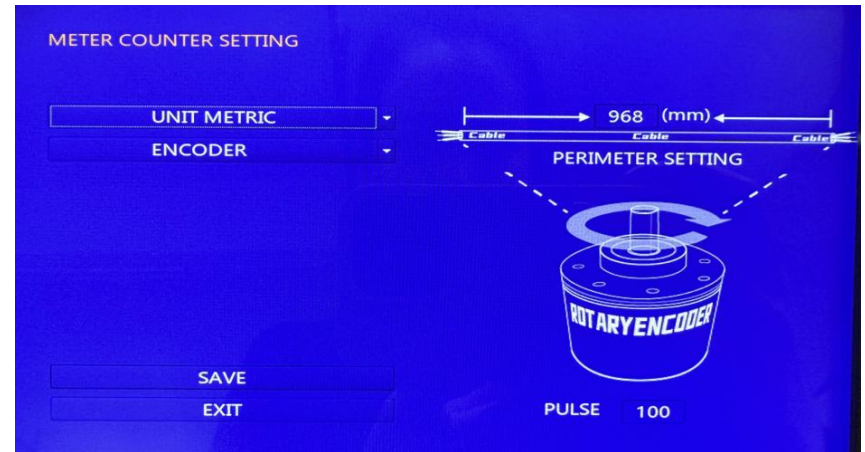
Step3:



Step4:



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



The **PREMETER SETTING** value is “968” .

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

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.

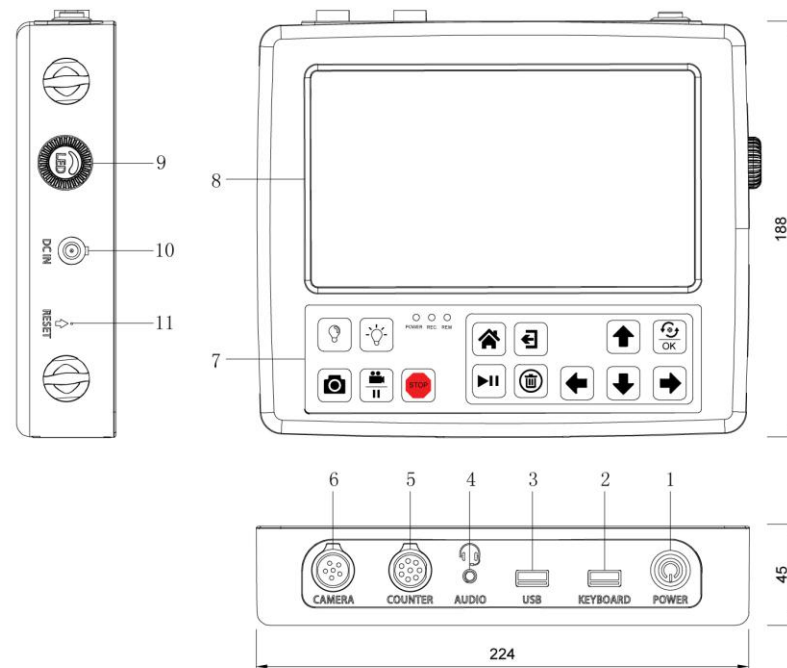
**2.PHOTO:** Playback the picture file

**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.

### DVR Control Unit



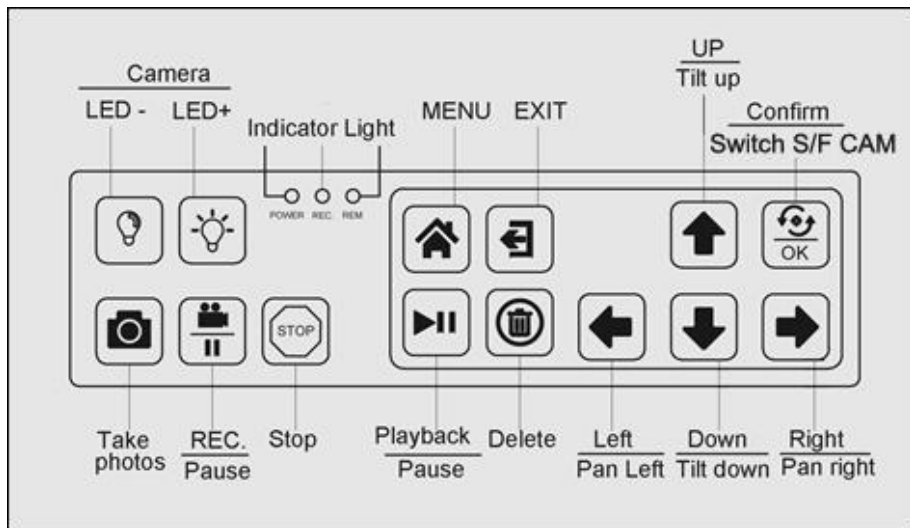
### System Setting



1) **LANGUAGE:** Setting the menu language.  
**The box has 9 languages.(English,Chinese,French, Espanol German,Polish,Korea,Russian and Italian.**

No	Name	Function	How to use
1	POWER	On/Off	Press the button for 3 seconds to turn on /off the control box
2	KEYBOARD	Connect wireless /wired keyboard	Insert 2.4G wireless keyboard adaptor
3	USB	Connect USB disk	Insert external USB disk to record and save the video& picture files. Please don't remove the USB flash disk when it is recording.
4	AUDIO	Earphone/Microphone	Insert the 3.5mm earphone

5	COUNTER	Meter counter	Use 8pin link cable,one port to "COUNTER"port, the other to cable reel "Meter counter port".
6	CAMERA	Signal input	Connect 6pin link cable to cable reel
7	CONTROL PANEL	DVR MENU	Details reference picture(1-1)
8	MONITOR	Display the image	8inch HD screen ,1280x720 resolution
9	LED DIMMER	Adjust the camera LED brightness	Adjust 18mm, 23mm,29mm,40mm and 55mm camera LED brightness
10	DC IN	Charge for the battery	Connecting extra charge adaptor
11	RESET	Restart the DVR unit	When the system is halted

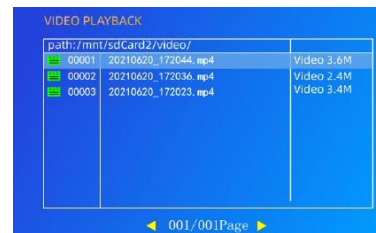


### DVR menu instructions

Press menu button to enter the main menu




#### 1. Video: Playback the video file



## HD DVR recording video & photography function instructions



### 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:** Insert the external microphone to MIC port. 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.
6. Press MENU button to enter the main menu ,and choose "PICTURE" to scan the pictures.
7. **Rotation camera head:** " ← " / " → "
8. **focusing:** Press "  " Then press " ← " / " → "

## 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

### 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



Not enabled



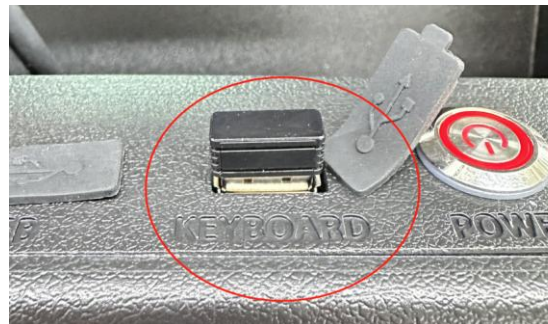
Enabled

### Keyboard

1.Flip over to the back of the keyboard, insert the battery, and remove the USB connector



2..Insert the USB connector into the keyboard socket



**F8**---Display the character

**F9**--- Hide the character

**F10**-- Clear all characters