Packing list

ltem	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	Working platform	1pcs
8	32G USB disk	1pcs
9	Charge adaptor	1pcs
10	Waterproof ring	2pcs
11	Microphone	1pcs
12	Earphone	1pcs
13	User manual	1pcs
14	Tool bag	1pcs



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



Read these instructions completely before operating the device.

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
Zoom in/out and focus	10
Charge the battery	10
Wireless keyboard operation instruction	11
Recording video & photography function instructions	11
DVR menu operation instruction	12
System setting	13
Troubleshooting guide	18
Packing list	19

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 using the product.

3) Using the wireless keyboard, please make sure the battery for the keyboard is full. If the battery is low, it needs to change to a new 7^{th} battery.



Troubleshooting guide

Q: All parts are connected well, but the screen has no image.

A: 1. Check the video option (picture 1), if it switches to the corresponding signal input.





(Picture 1)

(Picture 2)

2. Find 1m test cable (picture 2), and connect the camera to the control box directly, please check if the camera has an image.

Q: I can't typewrite words

- **A:** 1. Check if the wireless keyboard battery is full or not.
 - 2. Check the wireless keyboard receiver to see 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 us.

Q: The meter counter is not accurate

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

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

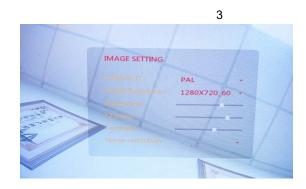
Overwrite: OFF/ON Default Value: OFF

17

Specification		
Monitor		
Screen size	13inch LCD	PS screen
Display ratio	16:9	
Resolution	1280x720	
Menu	Chinese Eng	lish and others
Sunshade function	Yes	
Audio power amplifier		
Power amplifier	Stereo Class-D Audio Power Amplifier	
Power	3W*1	
HD DVR		
	Video	H.264 encode, MP4 format
Support playback file format	Audio	Audio and video synchronization
	Picture	JPEG
Audio input	Built-in Micro	phone
Video input	AHD analog	high-definition signal (support CVBS
	signal input)	
Signal input	CAM1、CAM2 and ACR+BNC Option	
Video system	AHD PAL, AHD NTSC (Support CVBS signal input)	
Video input	Stereo audio	output (Internal Audio or External Audio)

Video output	Composite video signal output
Power support	
External charge	DC12V (Input voltage AC 100V~240V, Output voltage DC12.5V, Current 3000mA)

2		
Battery	11.1V 8800mA/H	
Power	20W (Max)	
Battery charge time	6hours	
Battery work time	8~10 hours	
Pan Tilt camera head with manual focus (512hz transmitter option)		
Camera diameter	Dia.50mm x L154mm	
View range	+/- 180°, rotation endless (slip ring)	
Lighting	6pcs white LEDS	
Camera sensor	1/3 CMOS, 1.3MP 960P	
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 Ø9mm or 11mm		
Cable length: 60 meters 80 meters 120 meters		
Other function		
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

VIDEO CLIP TIME	30 MINUTE	
FRAME RATE	1 MINUTE 5 MINUTE	
VIDEO QUALITY	10 MINUTE 15 MINUTE	
COMPRESS	30 MINUTE	
PHOTO QUALITY	60 MINUTE HIGH	
RECORD MODE	MANUAL	





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 (6 PCS)
- 2. Lens
- 3. Tilt rotation axis
- 4. Aluminum housing
- 5. Camera rear-ends



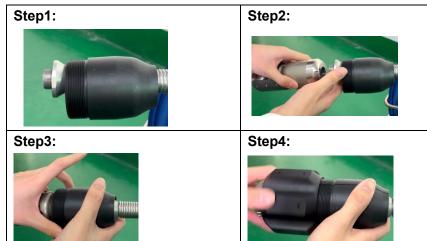
Camera skids

It includes below items.

2pcs/set (Diameter 85mm and Diameter 220mm) 6pcs spare wings for middle size (Diameter 150mm)

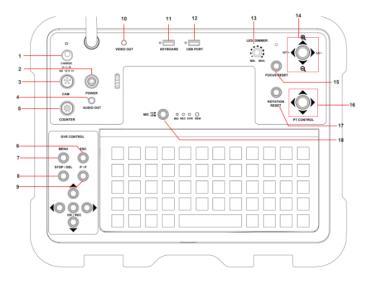


How to install camera skid



4

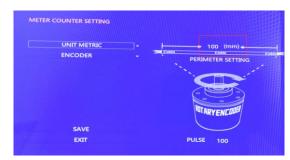
Control box panel



CHARGE: Indicating charging status
POWER: 12V/1A power input

5

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



The PREMITER SETTING value is different for different cables. For 7mm/9mm/11mm fiberglass cable, it is 100 For 8mm orange color soft cable, it is 157 For 6.5mm black color soft cable, it is 152

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



The default value is "DISK1".

4) **RESET:** Restore the factory default settings5) **TIME SETTING:** Setting the time, date

14

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.

3) CAM: Camera channel

4) AUDEO OUT: Stereo audio output (Using this audio output, speaker will cut off automatically)

13

5) COUNTER: Meter counter connector port

6) ESC: Exit

7) MENU

- 8) STOP/DEL: Stop recording or delete
- 9) P/P: Pause / Photography

10) VIDEO OUT

- 11) KEYBOARD: Connect wireless or wired keyboard
- 12) USB PORT: Connect external USB flash disk storage device
- 13) LED DIMMER: Adjusting LED brightness
- 14) ZOOM IN / OUT AND FOCUS:





MF+ : Far focus MF-: Near focus 15) FOCUS RESET 16) PT CONTROL:



17) ROTATION RESET

6

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

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.

7

3. **Record the audio:** Insert the external microphone to MIC port. Press 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 the MENU button to enter the main menu and choose "VIDEO" to play the video.

6. Press the MENU button to enter the main menu and choose "PICTURE" to scan the pictures.

DVR menu instructions

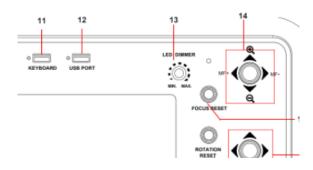
Press menu button to enter the main menu



1. Video: Playback the video file



Wireless keyboard operation instruction



- 1. Inset USB adaptor to keyboard USB port (No.11)
- 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

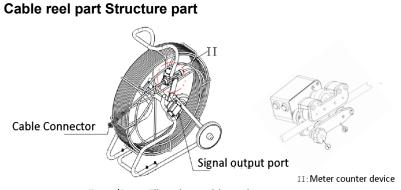
4. If the keyboard battery is low level, please change it to a new one. Otherwise, it can't typewrite the character.

HD DVR recording video & photography function instructions

Switch knob to "On" position, turn on the control unit box.

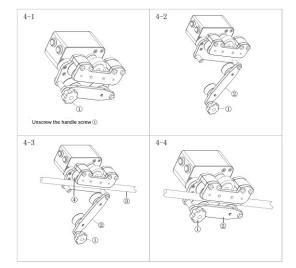


11



7mm/9mm Fiberglass cable reel

Fixing the cable to the meter counter slot



No.	Function	Details
1	RESET	Press this button, the counter is zero
2	M/F	Switch meters and feet; default value is meter

8

Meter counter device part



Connecting cable reel to control box

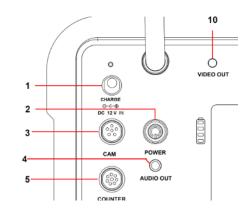
A) Using 8 pin link cable to connect cable reel "counter" with Control box "Counter" port

B) Using 5pin link cable to connect cable reel "5pin port" with Control box "CAM_2 pt" port

Control panel basic operation

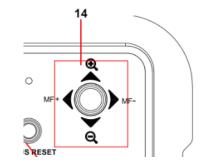
Signal input

Connect correct correspondingly link cable with CAM and counter channels



Charge the battery

Inset 12.5V/2A adaptor to (No.1)



ZOOM IN / OUT AND FOCUS

Zoom in



Θ

7.

Zoom out

MF+: Far focus MF-: Near focus