

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	Working platform	1pcs
8	32G USB disk	1pcs
9	Charge adaptor	1pcs
10	User manual	1pcs
11	Tool bag	1pcs

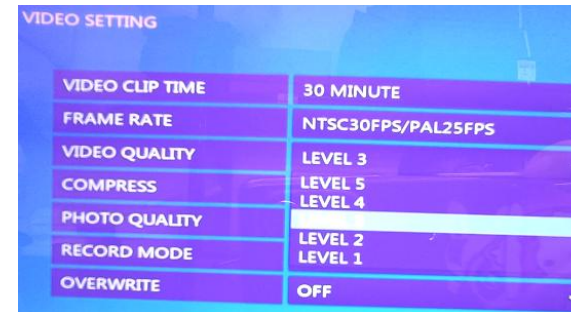
AHD UNDERWATER BOREHOLE CAMERA WITH DVR CONTROL BOX ASSEMBLY AND OPERATING INSTRUCTION



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

Specification

Monitor		
Screen size	8inch LCD IPS screen	
Display Ratio	16:9	
Resolution	1280x720	
Menu	Chinese English and others	
Sunshade function	Yes	
HD DVR		
Support playback file format	video	H.265 encode, MP4 format
	Audio	audio and video synchronization
	Picture	JPEG
Audio input	External Microphone	
Video input	AHD analog high-definition signal(support)	
Signal input	6pin Cam port	
Video system	AHD PAL、AHD NTSC（Support CVBS signal）	
Video Input	Stereo audio output	
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 10500mA/H	
Complete system power	20W （Max）	
Battery charge time	8hours	
Battery work time	5-6 hours	



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

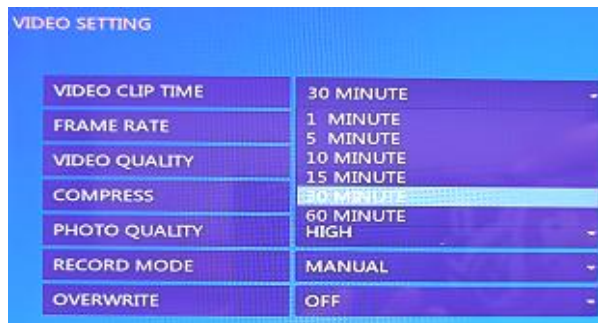


Adjust the LCD screen brightness, Contrast

Default resolution: 1280x720_60

Usually we suggest the customers don't change these value

RECORD Setting



Dual view Camera head	
Camera Diameter	Dia.45mm x L422mm
View range	90 degree
Lighting	6pcs high light LED for side camera 6pcs high light LED for down camera
Camera Sensor	1/3 CMOS, 1.3MP 960P
Operating temperature	5°C ~ 50°C
Camera housing material	304#Stainless steel
Waterproof	IP68,30bars
Cable wheel	
Special protective connector to camera	
Dia8mm special copper soft cable	
Cable length: <input type="checkbox"/> 100 meters <input type="checkbox"/> 150 meters <input type="checkbox"/> 200 meters	
Other function	
Meter counter	Feet and Meter switch. Display on the screen
Keyboard	Support wired and wireless keyboard.

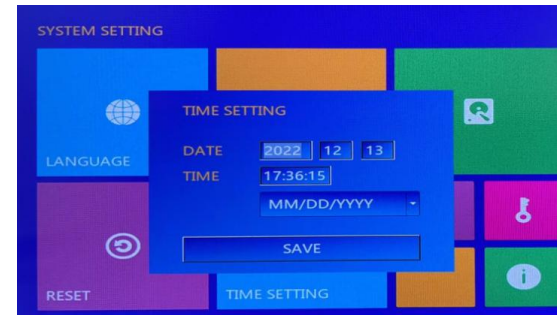
Attention

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, you need to change a new 7th battery.
4. Using original charger adaptor to charge battery or support unit work.

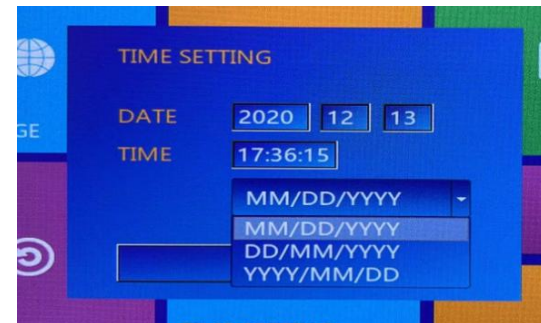
Know Your Device



- | | |
|---------------------------|-------------------|
| 1: Sun shade | 2: Control box |
| 3: USB wireless keyboard | 4: Guide rail |
| 5: Reel brake | 6: Cable reel |
| 7: Manual cranking handle | 8: Camera socket |
| 9: Camera head | 10: Depth counter |
| 11: Extend pole | |

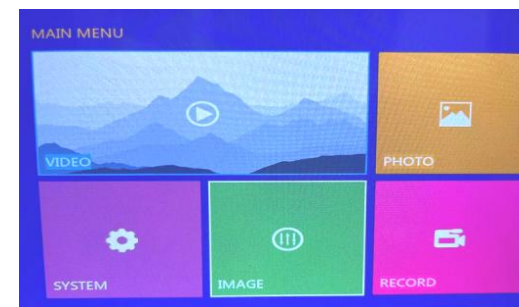


Press UP/Down/Left/Right arrows to set the date and time.
Press "Save" to save the setting



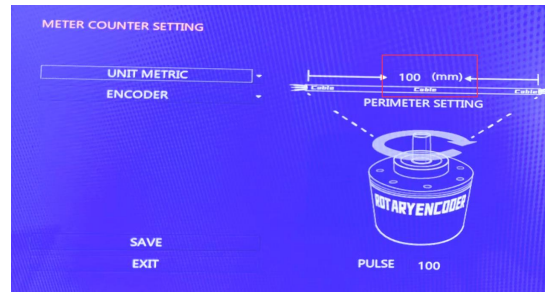
For date format, it has 3 different ways.

IMAGE SETTING



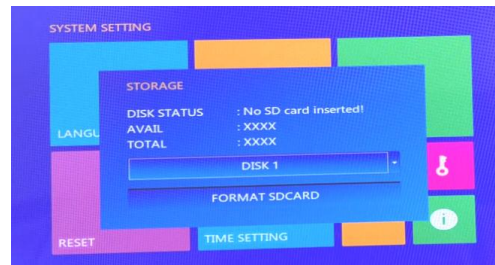
- 1、 **LANGUAGE:** Setting the menu language.
The box has 9 languages.(English,Chinese,French, Espanol German,Polish,Korea,Russian and Italian.

- 2、 **ENCODER:** Setting the counter value



The **PREMITER SETTING** value is different for different cables.
For V8-BCS borehole camera, the value is 157.

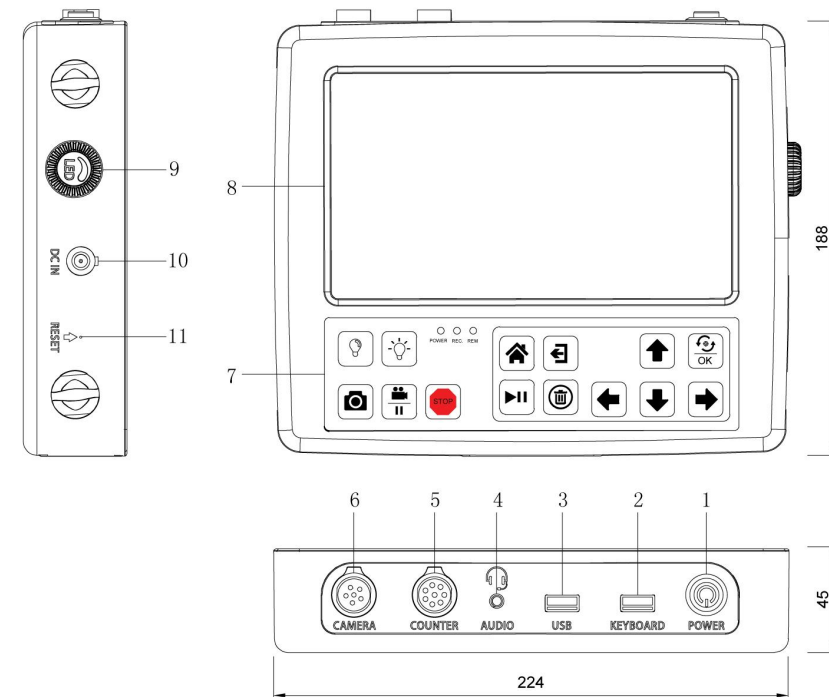
- 3、 **DISK:** Format the USB flash driver.



The default value is “**DISK1**”.

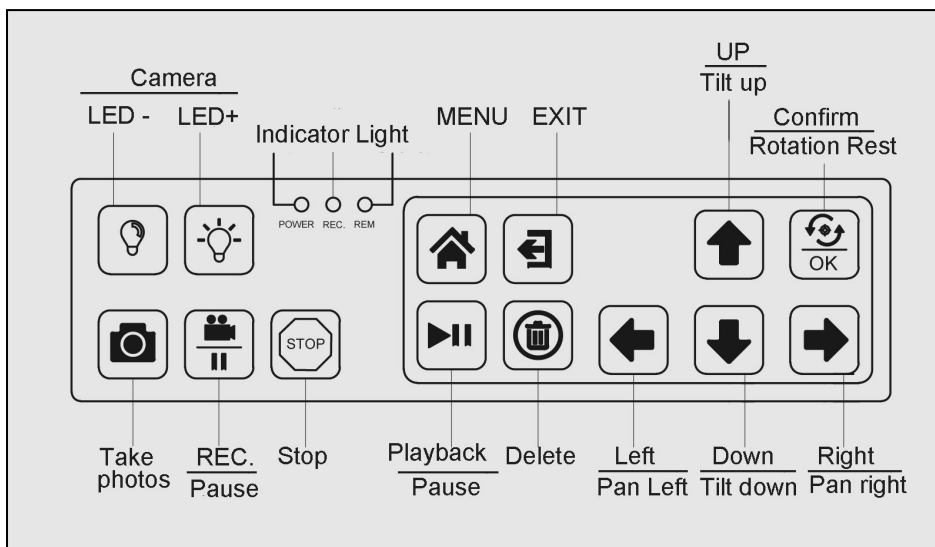
- 4、 **RESET:** Restore the factory default Settings
- 5、 **TIME SETTING:** Setting the time,date

DVR Control Unit



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	SWITCH CAMERA	Swith side and down camera	Turn on or off to switch side or down camera
10	DC IN	Charge for the battery	Connecting extra charge adaptor
10	RESET	Restart the DVR unit	When the system is halted



(1-1)

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

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

Press"  " key to play the file, "STOP, DEL key" to delete files.

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.

Operating instruction

1) Press menu button to enter main menu, then press

UP/DOWN/LEFT/RIGHT arrow to choose the submenu

2) Press  button to confirm.




3) Press  button to exit the submenu

System Setting




6. Press DVR “POWER” button with 5 seconds to turn on the system.

Recording Video

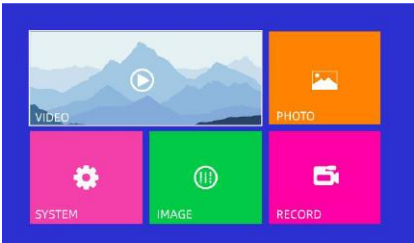
- 1.Insert the USB flash driver to control box“USB port”
- 2. Press “” to start record video .
- 3. Press “” again to pause recording video.
- 4. Press“”to finish the recording

Photographed function

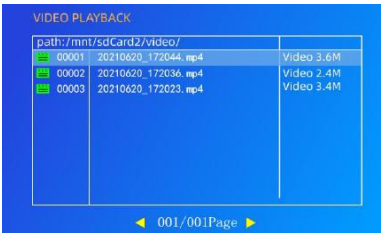
- 1. Press “” to take a picture
- 2. When you are recording the video, it also can take pictures. .

DVR menu instructions

Press menu button to enter the main menu



1. Video: Playback the video file



DVR remote controller



Button	Function
REC	Recording video
SNAP	Screenshot / Photography
▲	Up
▼	Down
◀	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

Quick Start Guide

1. Charging the battery

- 1) Connect the charger to the socket, the indicator of charger will turn into green.
- 2) Connect the plug to the jack of control box.
- 3) The battery is charging, the indicator light is red. When the battery is full of power, the indicator of charger will turn into green.

(1)



(2)



(3)

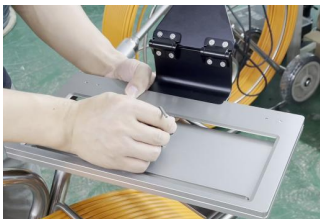


2. How to assemble the system

1. Connect camera head to cable reel.



2. Install the working platform to the cable reel



3. Take out the USB adaptor from the keyboard. Install the 7th battery. Put the keyboard into the platform.



4. Install the control box to the working platform.



5. Connect the link cable to cable reel and DVR control unit
8pin link cable is for meter counter
6pin link cable is for camera signal input

