

**WATER WELL INSPECTION SYSTEMS
WITH DVR & KEYBOARD FEATURE
ASSEMBLY AND OPERATING INSTRUCTION**



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

- 1、 Copyt the upgrade software to USB flash disk
- 2、 Inset this USB disk to control box USB port
- 3、 Choose the upgarde menu to updgrade the system software.
- 4、 When the system upgrade is finished ,then you can use this device.

FAQ

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

A: 1. Check if all parts connect right,
 2.Check the video setting is “Auto” or not. If not, please set it to”AUTO”.

Q: The keyboard can’t work, there is no character when when it is typed in.

A: Please press the keyboard key function:
F8----Display the character
F9--- Hide the character
F10-- Clear all characters

Q: The product 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 control unit can read USB flash disk,but it can’t record the video

A: Please back up the USB flash disk data and then use the control unit format the USB flash disk

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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.
5. Please use cover to protect the cable reel connector when removing the camera head from cable reel

Specification

Monitor		
Screen size	10inch LCD IPS screen	
Display Ratio	16:9	
Resolution	1280×720	
Menu	Chinese English and others	
Sunshade function	Yes	
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	AHD analog high-definition signal(support CVBS signal)	
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 DC:12.5V, Current 2000mA)	
Battery	12V 8800mA/H	
Complete system power	20W (Max)	
Battery charge time	6hours	
Battery work time	5-6 hours	



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: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

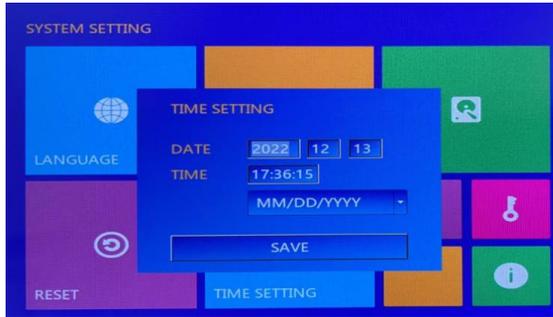
Default Value : High

Record Mode: Manual / Auto

Default Value : Manual

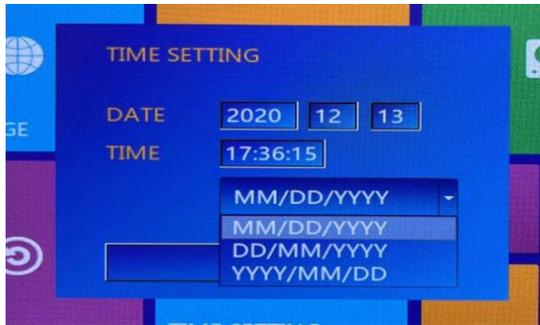
Overwrite:OFF/ON

Default Value : OFF



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

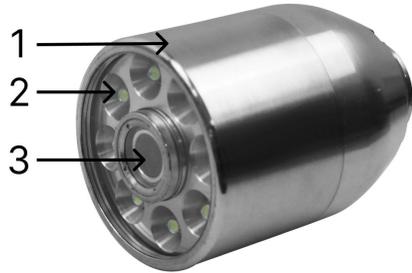


Camera head	
Camera Diameter	Dia.55mm x L87mm
View range	90 degree
Lighting	8pcs white LEDS
Camera Sensor	1/3 CMOS,1.3MP 960P
Operating temperature	5°C ~ 50°C
Camera housing material	304#Stainless steel
Waterproof	IP68
Cable wheel	
Special gold point touch connector to camera	
Flexible coaxial cable Ø7mm	
Cable length: <input type="checkbox"/> 30 meters <input type="checkbox"/> 100 meters <input type="checkbox"/> 150 meters	
Other function	
Meter counter optional	Feet and Meter switch. Display on the screen
Keyboard	Support wired and wireless keyboard.

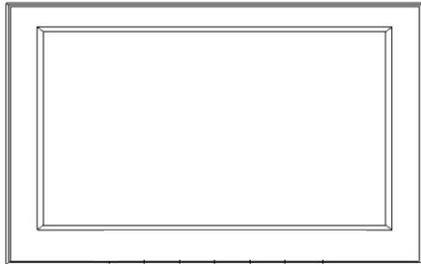
Know Your Device

Camera head

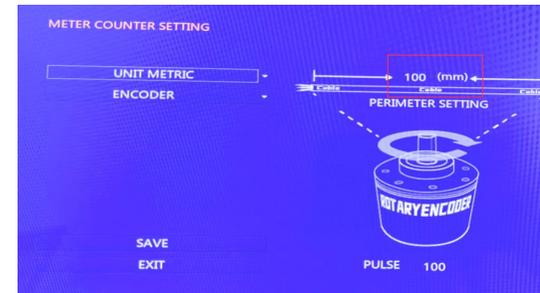
1. Stainless steel housing
2. White LED lights (8PCS)
3. Lens



Monitor



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 black soft reel, the value is 152.**

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" keys to select files

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

Press "OK" 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.

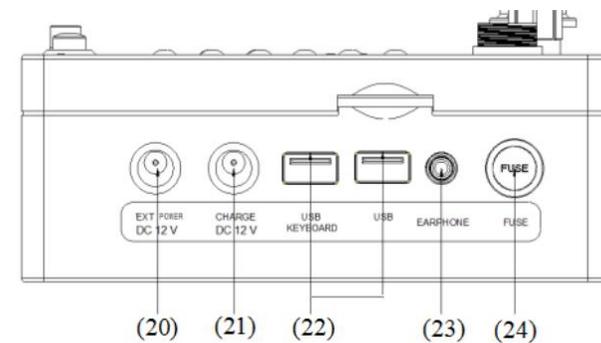
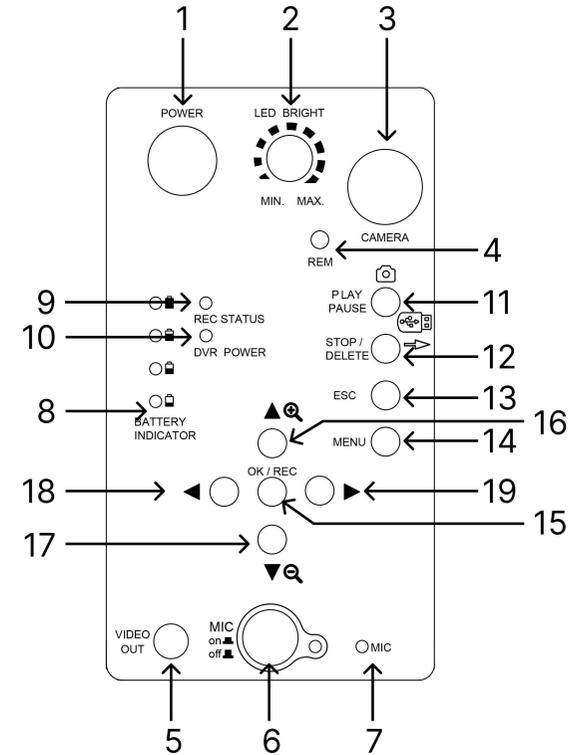
Operating instruction

- 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



DVR Control bo



- 1) POWER
- 2) LED BRIGHT: adjust the camera LED brightness
- 3) CAM: signal input port.
- 4) REM: remote controller receiver
- 5) VIDEO out: video output.(Connect outside monitor)
- 6) MIC on/off: recording audio button.
- 7) MIC: microphone window
- 8) BATTERY INDICATOR
- 9) REC STATUS: when the system is recording the video , the light is lighting
- 10) DVR POWER: when the system is in DVR status, the light is lighting
- 11) PLAY/PAUSE: play or pause the video
- 12) Stop:stop to record video
- 13) ESC: exit the menu
- 14) Menu:Enter the main menu
- 15) OK/Rec:recording the video and confirm button
- 16) UP:move up/Zoom in the image
- 17) Down:move down/Zoom out the image
- 18) Left:move left
- 19) Right:move right
- 20) EXT.POWER DC 12V:connecting charge adaptor as power supply

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



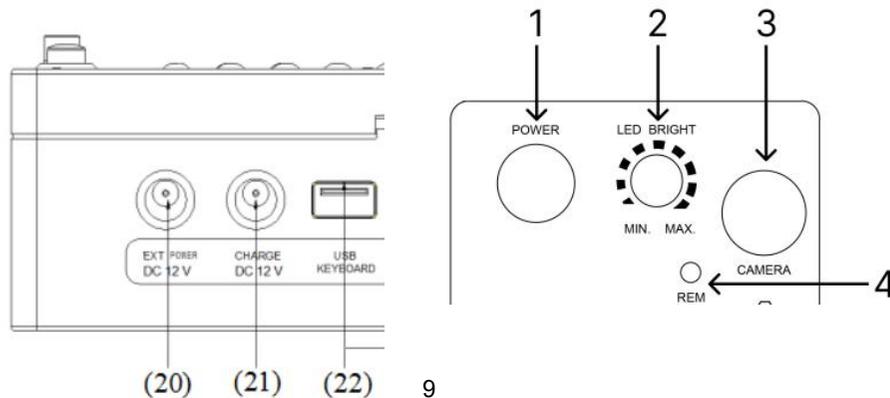
5. Press "OK/REC" button to record the video.
Press "OK/REC" button again, pause to record the video.
Press "STOP" to stop recording the video.
6. Press UP/DOWN button to zoon in/out the image.
7. Press "PLAY/PAUSE" button to take remote control "SNAP" button to take picture (No matter whether it is recording or not)
8. Press MENU button to enter the main menu, and choose PLAY MP4 to play the video

Charge for the battery

1. When the battery indicator is flicking, it shows that the battery level is low. It needs to charge for the battery
2. Connecting charge adaptor to (21).
3. The charge adaptor indicator light is red, it means that the battery is been charging. The indicator light turns to green; it means the battery is charged full.
4. If you need to use external charge adaptor to support unit working, please connecting charge adaptor to (20).
5. You also use charge adaptor to charge the battery pack directly.

- 21) CHARGER DC 12V: connecting charge adaptor to charge for battery
- 22) USB KEYBOARD/USB PORT: connecting wired USB keyboard or wireless USB keyboard
- 23) EARPHONE
- 24) FUSE

DVR 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
Structure part**



Fixing the cable to meter counter slot

1. Adjust the two pieces black rubber direction, they must be the same direction as the cable fixing slot
2. Pull out the fiberglass cable about 50cm length, then put the cable into the meter counter slot
3. Rotating the two pieces black rubber with 180 degree, avoiding the cable out of the meter counter slot
4. Tighten up the screw to fix the black rubber.

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 Meters

Connecting cable reel to control box

Using 4 pin link cable connecting cable reel to Control box



How to record the video and take photography function

1. Connecting camera head to cable reel
2. Connecting 4 pin cable to DVR control box "CAMERA " port.
3. Turn on the device. Switch knob to DVR position
4. Insert USB flask disk to USB port.