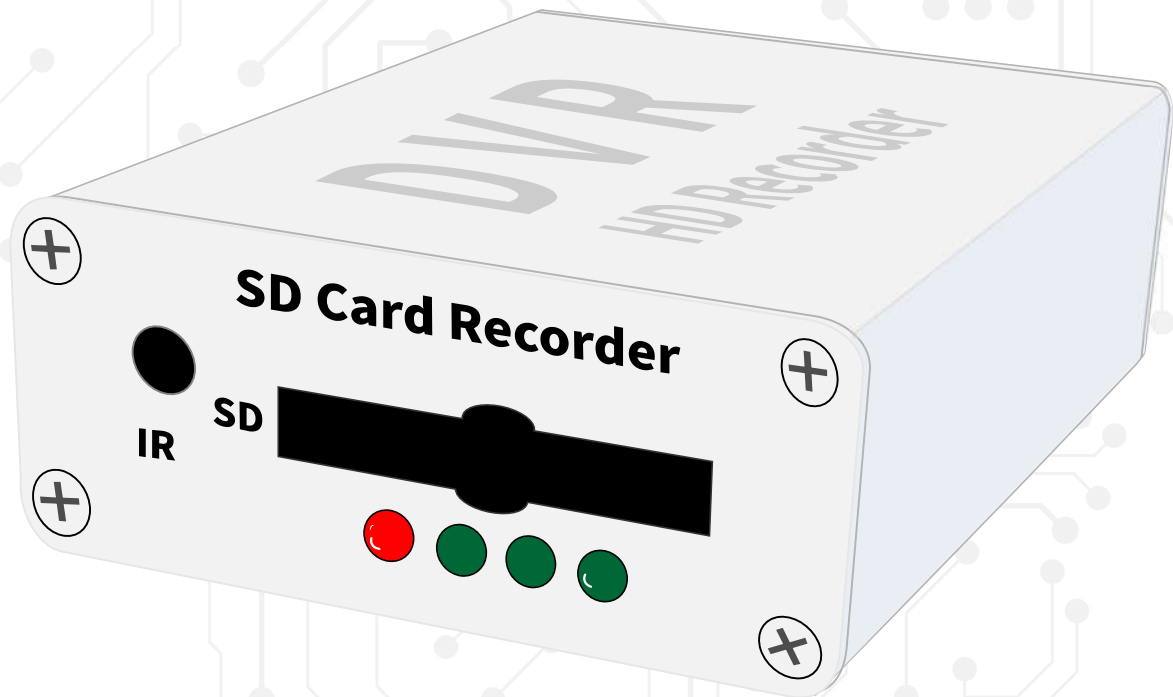


user's manual

D F S 1 2 1



before use
Please read the instructions carefully

directory

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Precautions

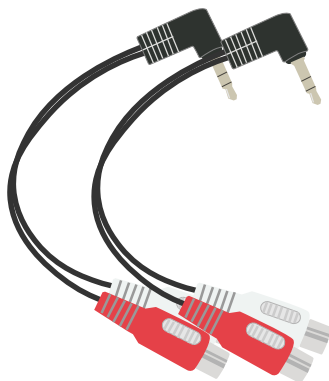
1. Do not pull out the card during recording
2. Please format for the first use
3. Please place the device in a dry and ventilated place
4. Please use genuine original SD card
5. During the warranty period, if the product is damaged due to human factors Will not be able to obtain warranty and after-sales service etc.。



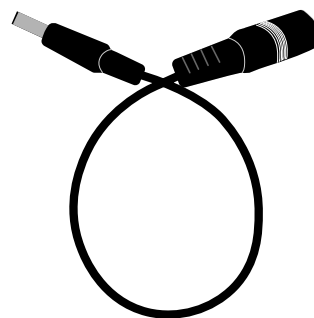
Accessories:



Remote control*1



AV line*2



power cord*1



说明书*1

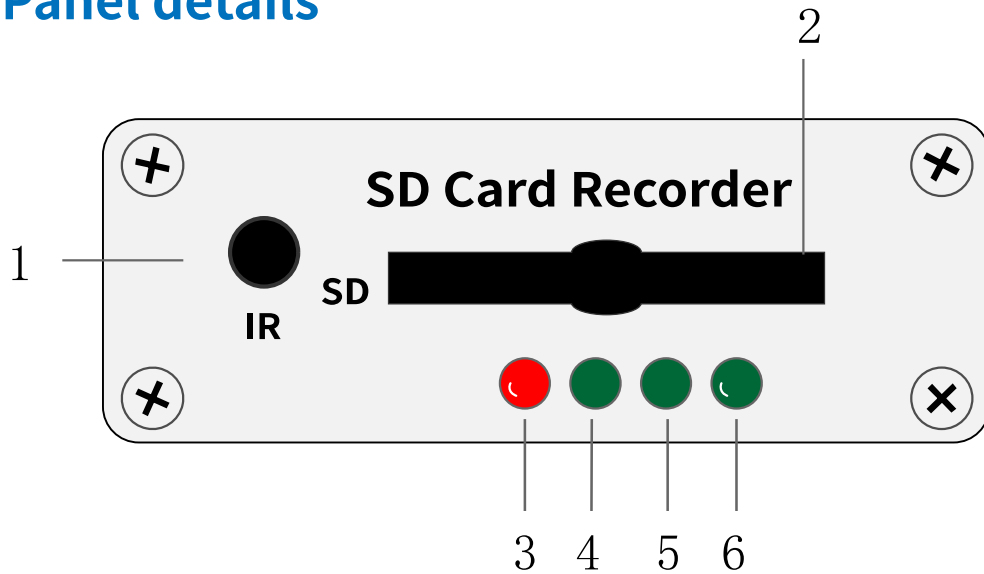
1.Features

This product uses the most advanced image processing technology to make the output image quality lossless, whether it is in the preview. It is almost equal to the original image quality when the video is played back, which solves the problem that many users use analog cameras as input. The image quality is seriously degraded after DVR processing. At the same time, we use H265+MP4 video technology to make video files smaller in size and have a wider application range, and video files can be played back on various multimedia devices.

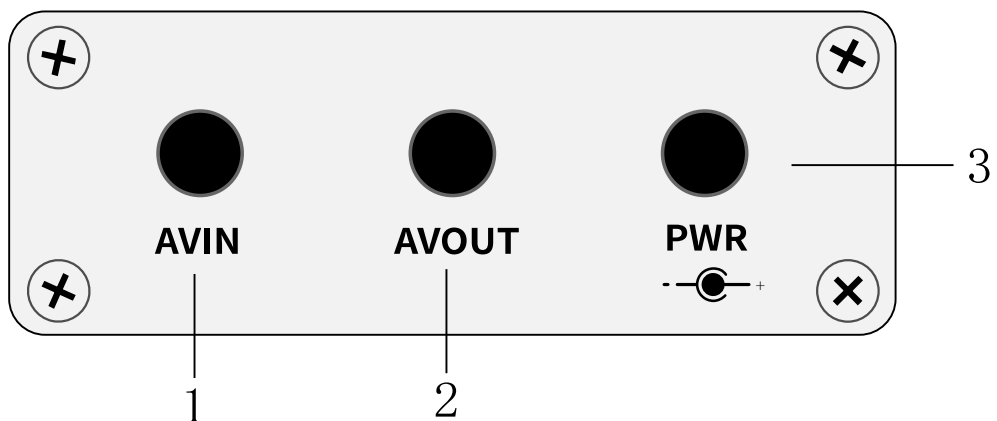
Product Features

- Support NTSC PAL camera
- Support H264 H265 image compression technology
- Support up to 512G SD card
- Support snap during video recording
- Support SD card upgrade firmware
- Support remote control operation
- Multi-language support Chinese, English, German, Spanish, Polish, French
- Support MP4 video file format
- Support power failure protection function

1.1 Panel details

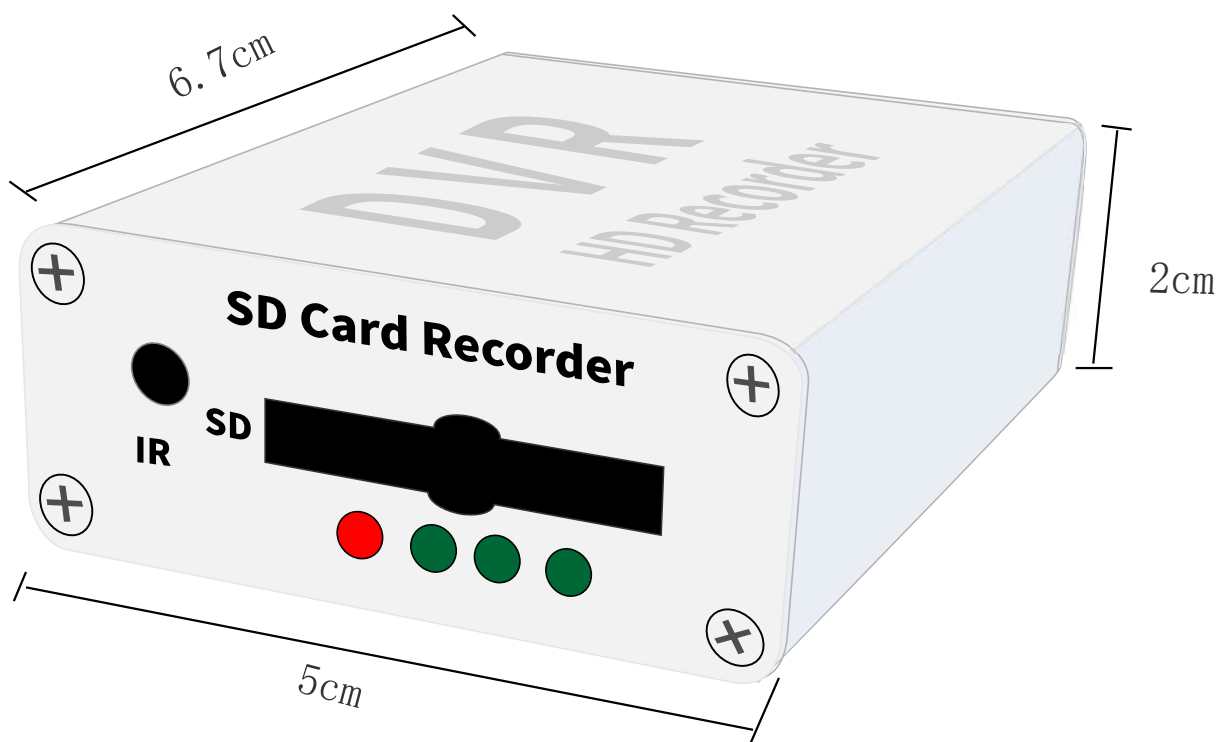


1	Infrared receiver
2	SD card slot
3	REC light
4	Video playback indicator
5	SD card indicator
6	charging indicator



1	Audio and video input
2	Audio and video output
3	Power input 9-30V

1.2 Dimensions



Dimensions: 5 * 6.7 * 2 (cm)

weight: 75 grams (Host net weight)

! For the first use, please format the SD card (FAT32)

1.3 remote control



button	Operation introduction
	Video button
	Take a picture button
	Up buttons
	down buttons
	right buttons
	Left buttons
	Confirm button
	return key
	Delete key
	Stop button
	Menu button
	Play button

Tips:



In the process of equipment recording, or in the real-time picture state, press the PLAY button
Can directly enter the playback file

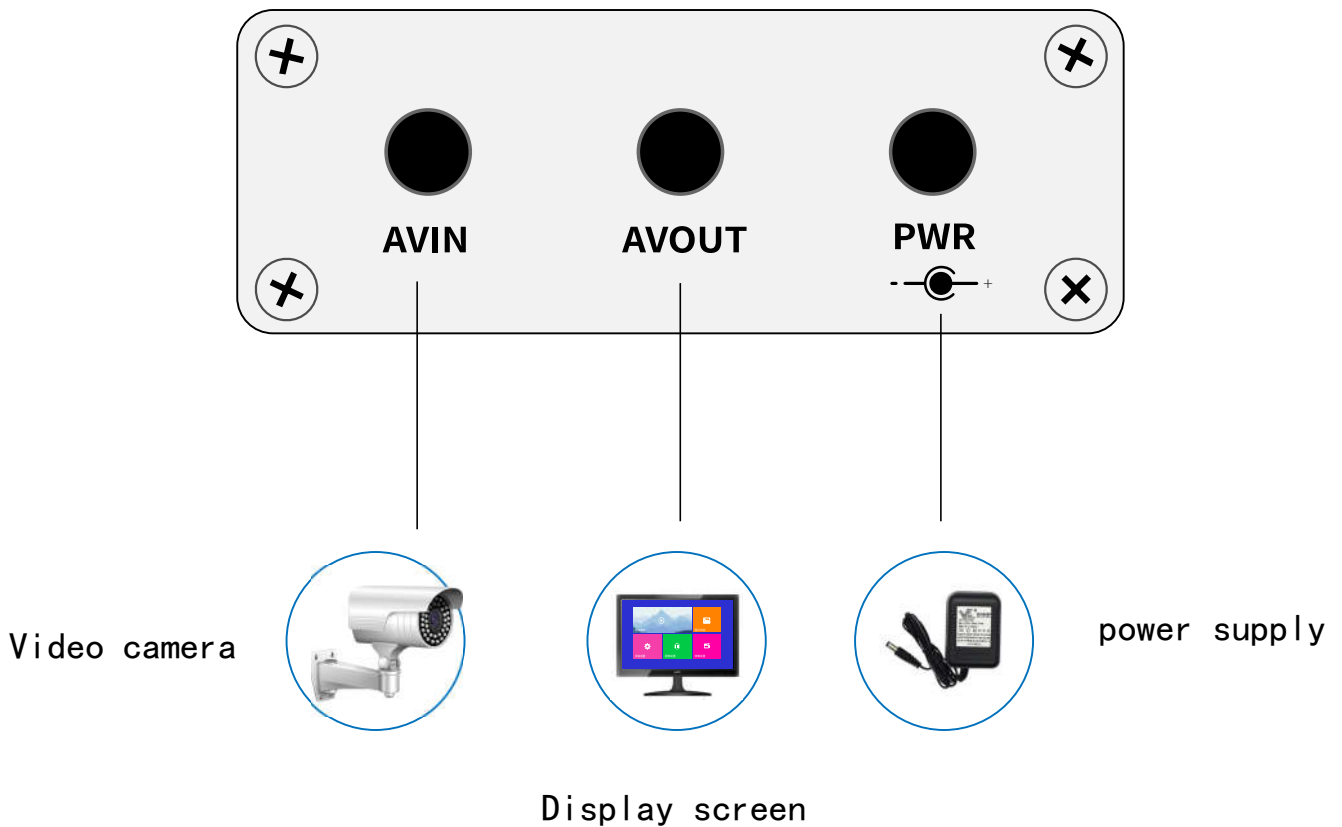
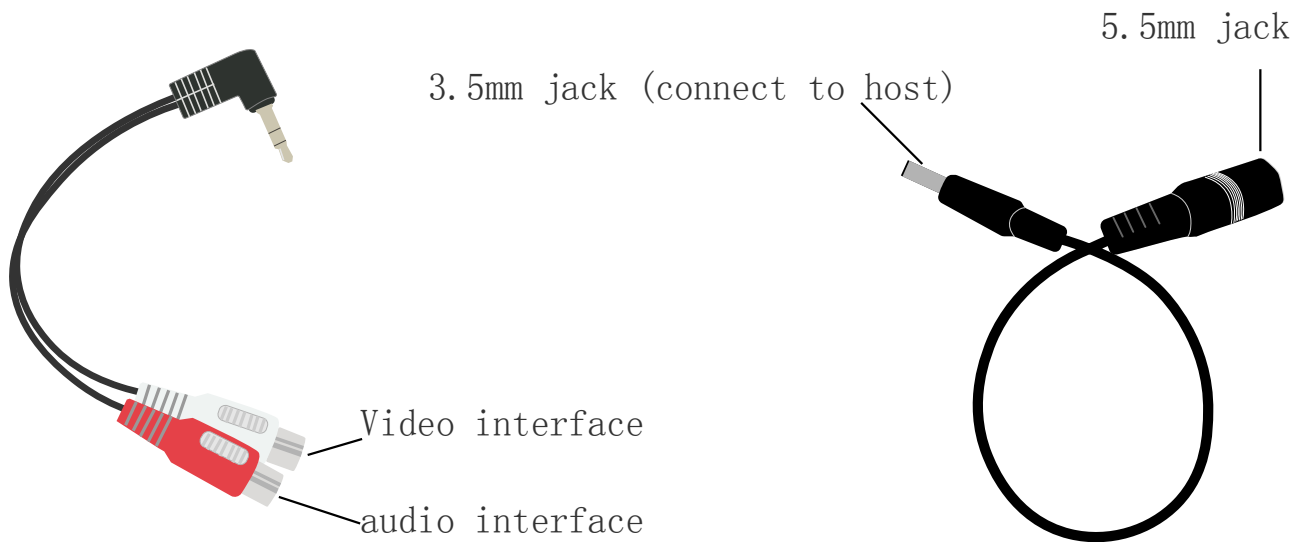


During video playback, press the left and right buttons to fast forward and rewind



During the playback of the video, press the up and down keys to automatically jump to the next video
Or the previous video, which is convenient and quick.

1.4 Interface definition



2. Software icon description

2.1 Menu image interface

current time



Audio icon



N(NTSC) P (PAL)



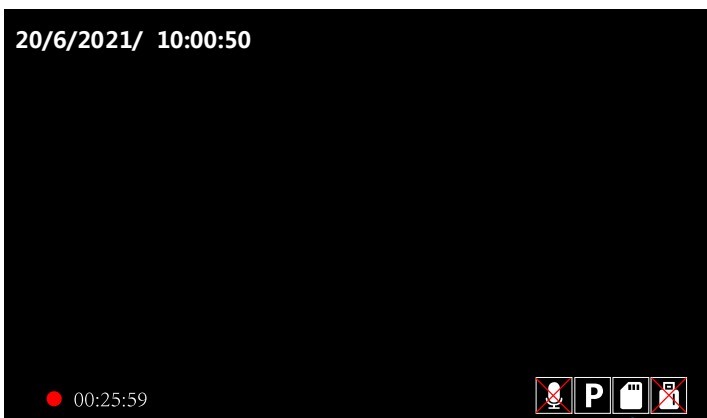
SD card display icon



U disk display icon




This icon indicates failure



Recording time period

This icon represents the SD card has been read



1. Please format the SD card for the first use, Format into FAT32 format


2. When the device reads the SD card,  The bottom right corner of the screen disappears, If it does not disappear, the reading fails, Need to format it again




Recording time period













This icon represents the SD card has been read

After the device reads the card, press the remote control  

The lower left corner of the screen during recording  00:25:59 Flashing

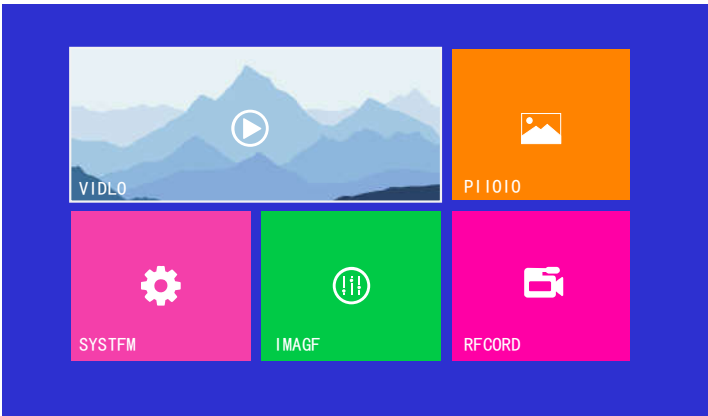
If you want to stop recording, click the  button



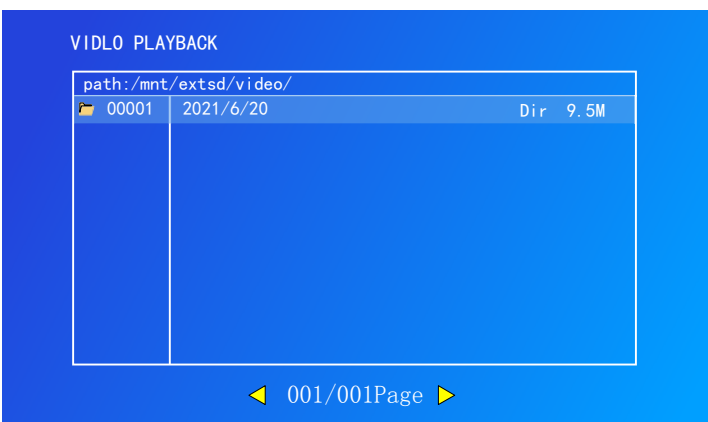
button	Operation introduction
	Video button
	Take a picture button
	Up buttons
	down buttons
	right buttons
	Left buttons
	Confirm button
	return key
	Delete key
	Stop button
	Menu button
	Play button

2.2 Menu playback interface

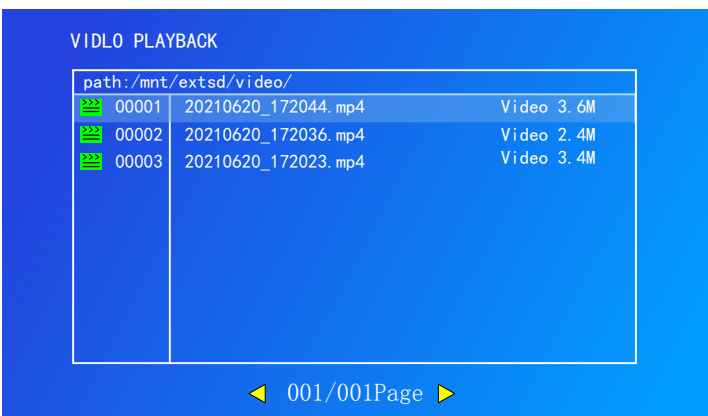
! Tip: In the file list state, Press the remote control or key DEL or STOP to delete the current file



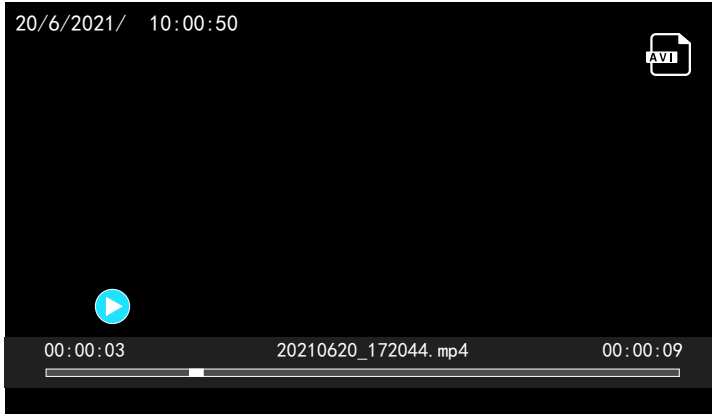
1. "MENU" button on the remote control Can enter directly Menu page to operate



2. Click the OK button on the remote control Can enter the play folder



3. Click the OK button on the remote control Enter video playback
The list can be in accordance with the time period Choose the video you want to play



4. Enter the current playback video interface

We have added shortcut keys during video playback



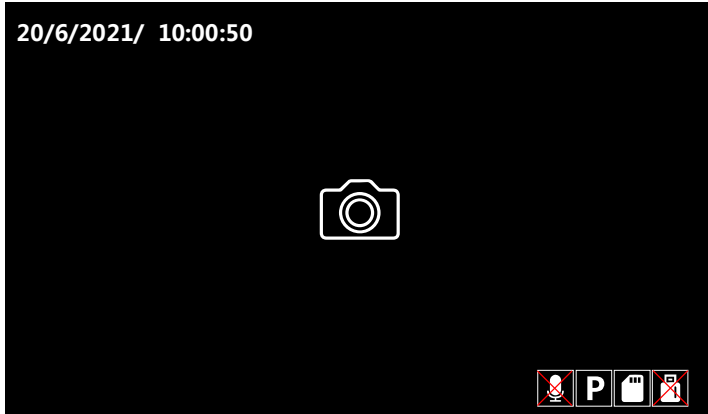
Preview image

1. Press **OK** to record directly
2. Press the **▲** button to take a photo
3. Press the **▶** key to enter directly Playback video interface **ESC** return

In playback mode

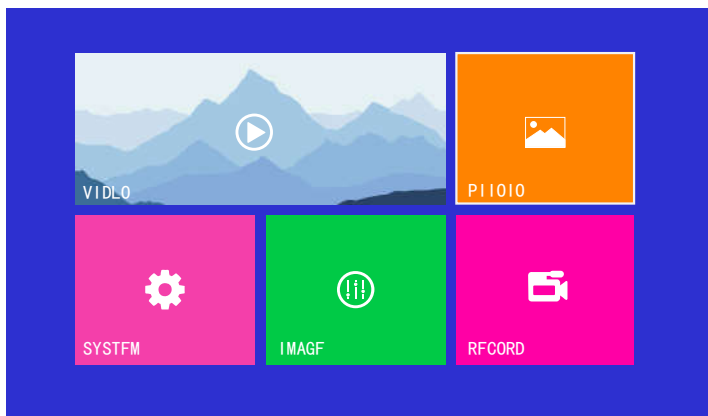
1. Press **▲** to play the previous video
2. Press **▼** to play the next video
3. Press **◀** **▶** to fast forward and rewind

2.3 Picture playback

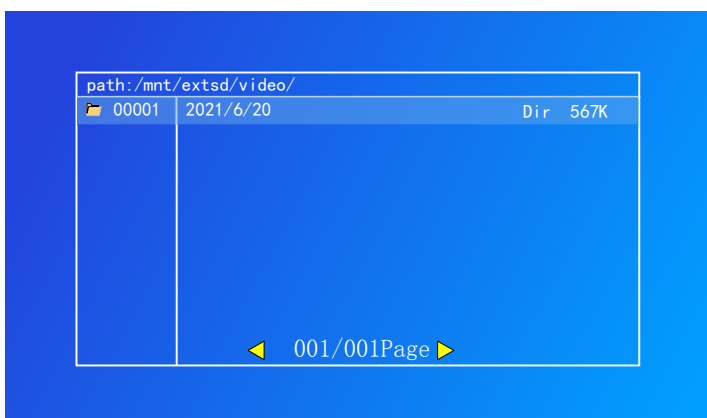


1. Press **SNAP**  to take a photo

File will be stored on SD card
Inside the picture folder



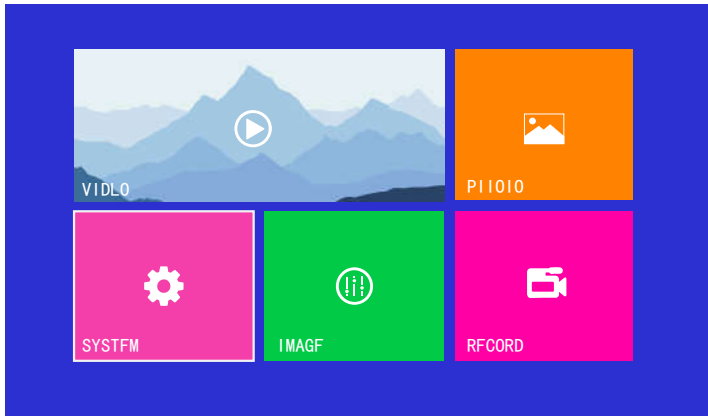
2. Press the remote **MENU** button
Enter the menu
Select picture playback



3. Press the remote **OK** button
Enter the picture folder

3. System settings

3.1 System settings



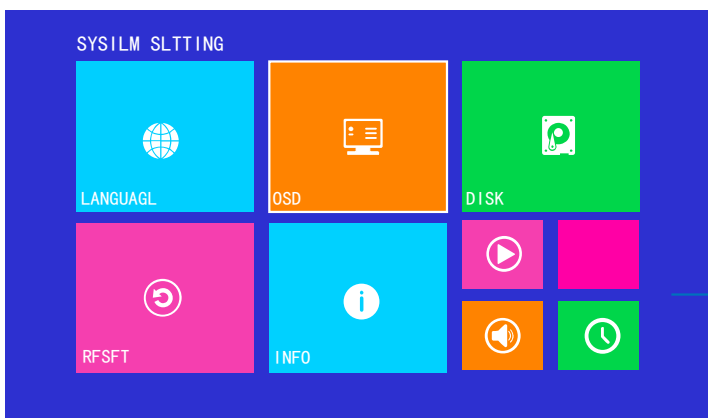
1. Press the remote **MENU** button
Enter the menu



key to select system settings



key to enter



Play settings



Sound settings



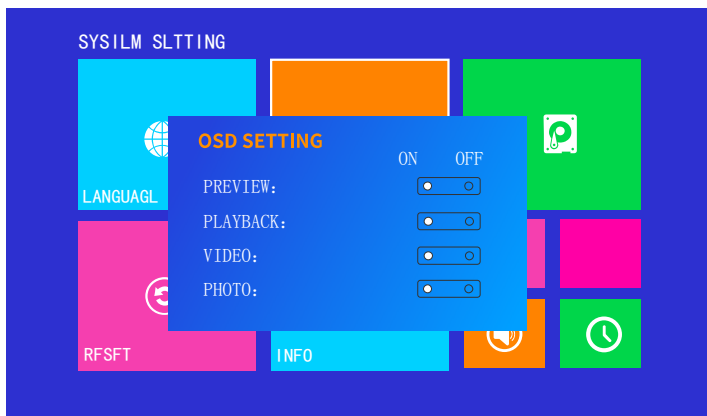
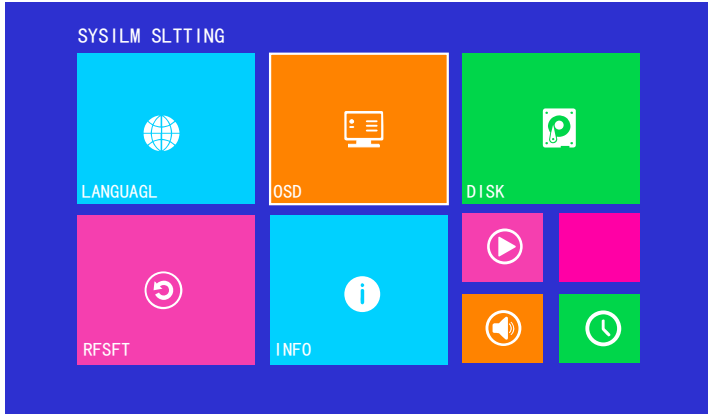
time setting

language settings: Include Chinese/English/German/Spain/Polish/French

Factory settings: This option can be used to restore the factory default settings (operate with caution)

system version: This setting is to view the system software version number

3.2 OSD settings



Preview: In the real-time preview state No watermark on the screen.

Replay: Refers to the playback of video or pictures No watermark

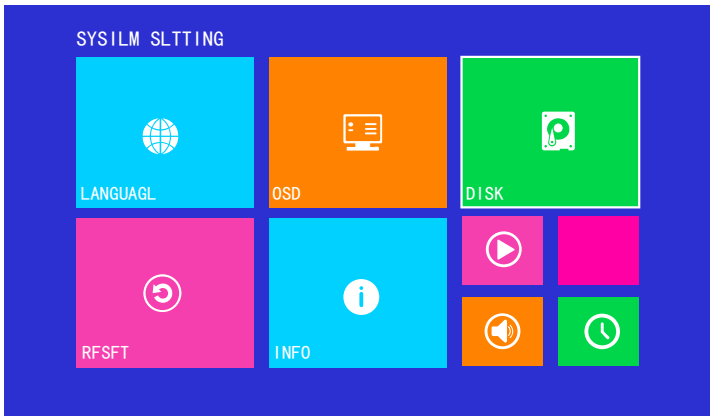
video: Video file watermark off

picture: Picture file watermark off

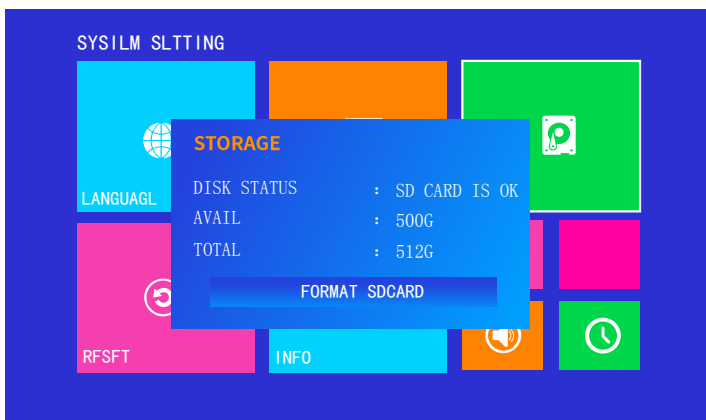
With and without timestamp



3.3 Save settings/format



Storage settings:
you can view storage usage
Capacity and remaining capacity.



If the device cannot be displayed
Storage status,
Available through this function
Format the storage device.



Fault judgment

Can't read card and can't record video?

1. Please use a genuine card.
3. If the card is not read, enter "Save Settings" to format
4. For SD cards that have not been used for a long time, please clean the pins of the SD card before inserting it into the device.
4. The card is not read, please restart the device.

4. Image settings

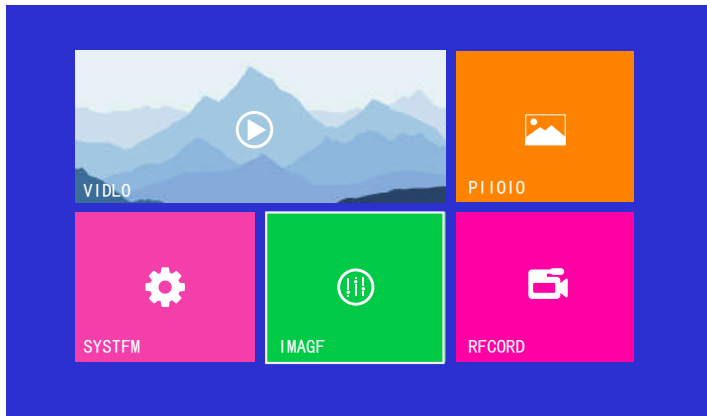
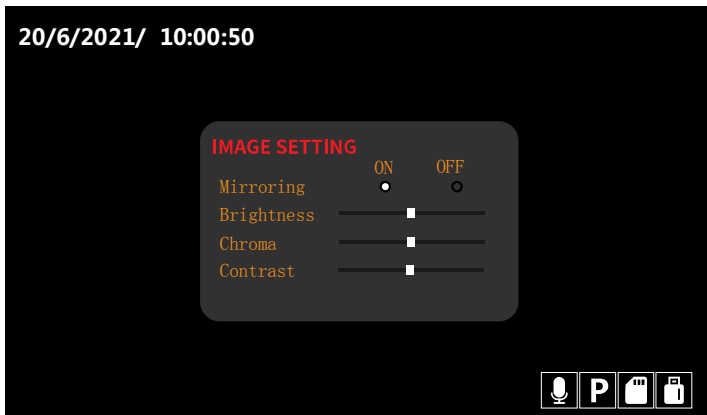





Image setting:
through color contrast
Brightness adjusts image
parameters in real time.



Mirror settings:

After entering the image settings
, the remote control   key to select
enable or disable, then press  key
It can be automatically saved.

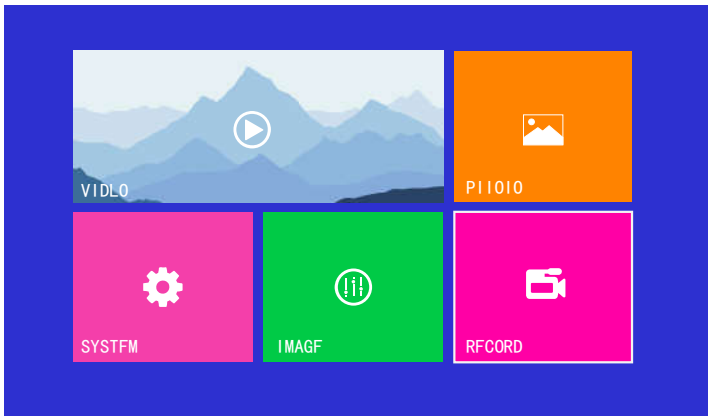
Chroma: refers to adjusting the brightness of the screen on the screen to high or low

Color saturation: refers to adjusting the color of the screen picture to dark or light

Contrast: A measure of comparison between the bright and dark parts of the same picture. The contrast is large, and the picture is very bright in black and white.

5.Video settings

5.1 Recording time/segment setting



Remote control **MENU** key to enter the menuSelect "Video Settings" **OK** button to enter



Video packaging time:

Press **OK** to pop up the option bar, then press **▲** to select **▼**. If you want the time period, press **OK** to confirm and save.

Video packaging time: After this function option bar is expanded, 1/5/10/15/30/60 minutes and other time periods, After the settings are saved, the device packs the video files according to this time period, For example: set to 1 minute, then the device will save the video as a video file per 1 minute when recording

5.2 Video frame rate

Video frame rate: low frame rate video, the advantage of saving storage space, if not necessary, you can press the default setting.

VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATL	NTSC30FPS/PAL25FPS
VIDEO QUALITY	NTSC30FPS/PAL25FPS
COMPRESS	15FPS 5FPS
PHOTO QUALITY	HIGH
RECORD MODE	MANUAL
OVERWRITE	ON
TV SYSTEM	PAL

Video frame rate:

Press **OK** to pop up the option bar,

then press  to select

If you want the time period,

press **OK** to confirm and save.

5.2 录像画质

VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATL	NTSC30FPS/PAL25FPS
VIDEO QUALITY	HIGH
COMPRESS	HIGH MIDDLL LOW
PHOTO QUALITY	LOW
RECORD MODE	MANUAL
OVERWRITE	ON
TV SYSTEM	PAL

Video quality:

High/medium/low, three modes

5.3 视频压缩格式

VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATL	NTSC30FPS/PAL25FPS
VIDEO QUALITY	HIGH
COMPRESS	H. 264
PHOTO QUALITY	H. 264 H. 265
RECORD MODE	MANUAL
OVERWRITE	ON
TV SYSTEM	PAL

Video compression method:

H. 264/H. 265 two compression methods

5.3 Picture quality

High/medium/low, three modes, the higher the picture quality, the clearer the picture.

VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATE	NTSC30FPS/PAL25FPS
VIDEO QUALITY	HIGH
COMPRESS	H. 264
PHOTO QUALITY	HIGH
RECORD MODE	HIGH
OVERWRITE	MIDDLE
TV SYSTEM	PAL

Picture quality:
High/medium/low, three modes

5.4 Video settings

VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATE	NTSC30FPS/PAL25FPS
VIDEO QUALITY	HIGH
COMPRESS	H. 264
PHOTO QUALITY	HIGH
RECORD MODE	MANUAL
OVERWRITE	MANUAL
TV SYSTEM	POWER UP PAL

Video mode:
Manual recording/automatic recording:
Set up manual recording
Need to use buttons, etc.
Power-on video: when the device is turned on
Automatically record

5.5 Loop recording settings

VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATE	NTSC30FPS/PAL25FPS
VIDEO QUALITY	HIGH
COMPRESS	H. 264
PHOTO QUALITY	HIGH
RECORD MODE	MANUAL
OVERWRITE	ON
TV SYSTEM	ON OFF

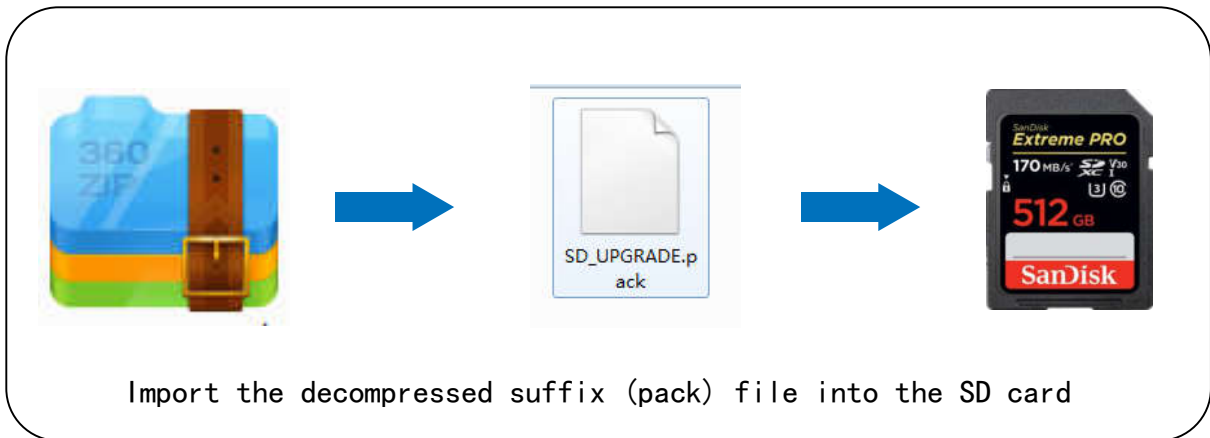
Video coverage: refers to the automatic
Loop, if closed, after the device is full automatically stop, it is recommended to turn on (default is on status)

5.6 Video format

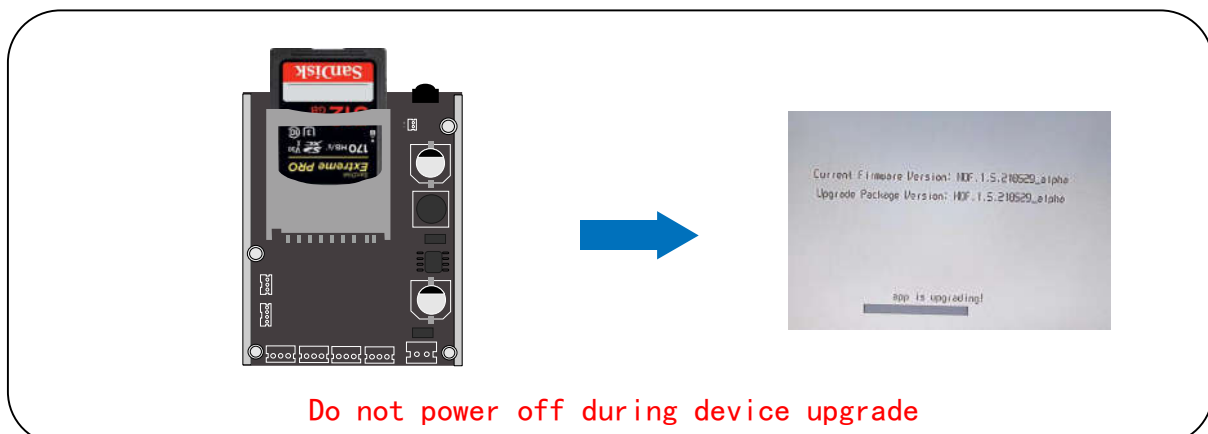
VIDEO SETTING	
VIDEO CLIP TIME	1 MINUTE
FRAME RATE	NTSC30FPS/PAL25FPS
VIDEO QUALITY	HIGH
COMPRESS	H.264
PHOTO QUALITY	HIGH
RECORD MODE	MANUAL
OVERWRITE	ON
TV SYSTEM	PAL
	NTSC

System video format:
Please make sure the system video format with input camera. Keep the video format consistent. Otherwise, the image will be abnormal or no image.

first step



Second step



6.Parameters Table

System language	Include Chinese/English/German/Spain/Polish/French
AV input	CVBS NTSC PAL
data storage	SD card (support up to 512G)
voltage range	Input 9-30V
Compression format	H. 264/H. 265
Video mode	automatic / manual
Video standard	CVBS
Video format	MP4
Playback software	VLC media pLayer/WINAMP
Operating temperature	-30° ~+70°
size	5cm*6.7cm*3(cm)
weight	Net weight 75 grams
Control Method	Remote control/button/serial port
Snap an image	Support to capture pictures during recording
Watermark	Support watermark off
Power protection	Support overload, short circuit and reverse connection
reset	support
Automatic coverage	Optional whether to be overwritten
Power consumption	1.3W
Powerfailureprotection	Support abnormal power failure protection
Mirror settings	Support mirror setting
Image adjustment	Support image adjustment
Fastforwardandrewind	support
Play video jump	press the up and down keys to jump to the next video
USB read	Connect to computer to read SD card data
U disk storage	To be developed

7. problem analysis

1. Cannot record after inserting the card

1. Check if the SD card indicator light is on

On: Press the remote control record button to still not start recording, please check whether the storage space of the SD card has been used up, if it has been used up, please empty itSD card, if it still fails to record, please check whether the SD card is genuine or the SD card is damaged.

No light: Please format the SD card into FAT32 file system format and insert it into the machine. If the problem is still not solved, please check whether the SD card is a genuine card or is damaged.

2. The remote control cannot be operated

Check whether the battery in the remote control is charged. If not, replace the battery with the same model.

3. Can't see the camera image

1. Please check whether there is any problem with the signal connection between the camera and the DVR, and check whether the power supply of the camera is normal.

2. Check whether the camera format is consistent with the DVR system format, if not, please modify the DVR system format to make it consistent.

(Please refer to 5.6 system video format for modification method)

4. No video output

1. Please check if the signal connection between the DVR and the monitor is normal.

2. Please check whether the power supply of the monitor and DVR is normal.

3. DVR output is CVBS video signal, check whether the monitor supports it.

4. Check whether the video input channel of the monitor is the channel currently connected to the DVR.

5. Preview screen freezes

1. Please re-set the DVR system format to be consistent with the camera, and restart the DVR after setting.

