HD Recorder

<Instructions for use>

Friendly reminder

This product uses a high performance chip to provide high definition video with seamless motion picture .
Support FHD1080P true full HD camera. Please read this manual carefully before use and keep it properly, we hope this product can meet your needs and serve you for a long time!

I. Installation guide

1. Turn off the car engine.
2. Insert the SD card into the recorder card slot.

Note】Please use high speed SD card (Class10 or above), capacity not less than 8GB, SD card supports 128GB maximum.

3. Fix the recorder on the center console of the car.
4. Install the rear camera in the rear of the vehicle, pay attention to the direction when installing.
5. Adjust the lens position to make sure the lens is level with the ground.
6. Start the engine and check if the machine has been installed correctly.

Caution:

1. Note: Please do not unplug the SD card while the machine is working to avoid damage.
2. Please note the direction of SD card insertion, if inserted upside down, it may damage the machine and SD card.
3. When you insert the SD card into the machine, the machine will set the SD card as the preset storage device, and the data in the original SD card may not be read.
4. If the SD card is not compatible with the machine, please insert it again or try again with another SD card.
5. Please format the SD card first time you insert it.

2、Wiring method

3、Parameter analysis

Display parameters

7 inch single screen / 2 split / 4 split display 1080P

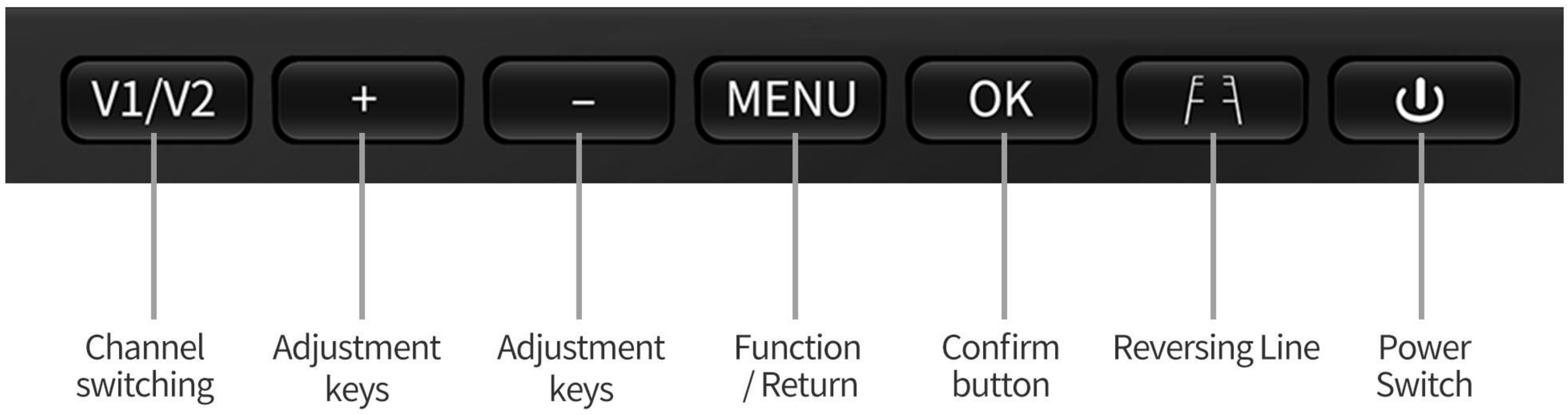
With built-in recording function

1. Type: IPS display
2. Voltage: 12-24V
3. Contrast ratio: 400:1
4. Brightness: 500cd/㎡
5. Physical resolution: 1280*1080P
6. Standard: PAL/NTSC
7. Screen backlight: led
8. Operating frequency: digital wireless
9. Modulation type: FSK / GFSK
10. Control: OSD
11. Ratio: 16:9
12. Viewing angle: L/R:70,UP:50,down:70°
13. Display mode: single / double / four
14. Video input format: 1080P
15. Video compressor: H.264 . Format: AVI
16. Power consumption: MAX 250mA (12V)
17.OSD control: multi-language OSD, reverse delay, shutdown screen TV mode, firmware version, backlight.
18. Operating temperature (°C): -20°C±75°C
19. Storage temperature (°C): -30°C±80°C
20. Built-in MDVR, support SD card, 32GB, 64GB, 128GB
21.Recording output file: one channel to one folder.
22. Power cable in direct contact with the car battery. Car key control cable to turn on/off the DVR. When the car stops and the car key is removed, the DVR stops recording and turns off.
23. Chip: Song-Han

Camera parameters

1. Chip: AHD 1080P, digital wireless
2. TV system: PAL50HZ
3. Effective pixels: 1280*1080P
4. Sensing area: 5.961 x 4.276mm
5. Horizontal resolution: 600TVL
6. Shutter speed: 1/60-20us
7. Minimum illumination: 0.2 Lux/ F1.8=1.2 (0 Lux with Led)
8. White balance: automatic
9. Waterproof: IP67
10. Video output: 1.0Vp-p, 75ohm
11. Viewing angle: 100-120 degrees
12. Power supply: DC12-24V
13. Working temperature: -20°C~ 70°C, RH95% Max.
14. Storage temperature: -30°C ~ 85°C, RH95% Max.
15. Horizontal synchronization frequency: 15625KHZ
16. Signal-to-noise ratio: <48dB
17.Power: 7W
18. Operating frequency: 2.4G
19. Video format: H.264
20. Lens: 2.8MM

4、Key Explanation



1.Click V1/V2 witching channel, can switch channel 1/channel 2/channel 3/channel 4.

2.Click MENU Pop-up menu settings menu.

3.Click OK Start Video，Click again OK Stop Video，The recording screen is the currently displayed channel screen.When you need to record other channels，Direct Click V1/V2 After switching channels，Click again OK You can start recording now;

4.Click Turn on the reversing line，Click again Eliminate the reversing line;

5.Click Start up，Click again Shutdown;

5、Setting

（1）Short press【MENU】，Go to the Setup Video screen

1、【Pairing a wireless monitor with a wireless camera】

Select ，Short press【OK】Start automatic search pairing, pairing completed automatically exit (need to pair which channel that switch to the corresponding channel can be)

2、【Brightness/contrast/tone/sound settings】

Select Enter

Short press【“—”/“+”】Skip selection，Press【ok】Enter，Press【“—”/“+”】Adjust the value,After setting, short press【MENU】Back。

3、【Screen flip】

Select Enter

Short press【“—”/“+”】Skip selection，【ok】Confirmation，【MENU】Return.

4、【Screen display screen settings】

Select Enter

Short press【“—”/“+”】Skip selection，Press【ok】Confirmation，After setting, short press【MENU】Return.

5、【Camera channel screen / channel screen dwell time】

Select Enter

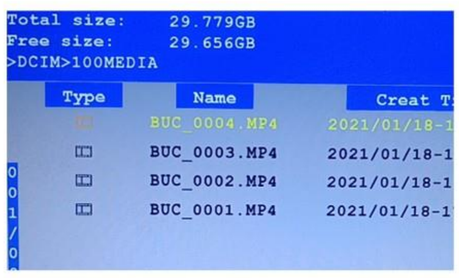
Short press【“—”/“+”】Skip selection，Press【ok】Confirmation，After setting, short press【MENU】Return.

6、【VCR settings】

Select Enter

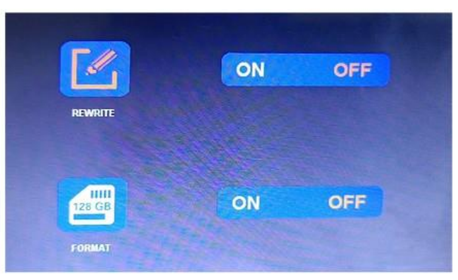
Short press【“—”/“+”】Skip selection，Press【ok】Confirmation，After setting, short press【MENU】Return.

7、【VCR settings】

Select Enter 

Short press【“—”/“+”】Skip selection，Press【ok】Confirmation，After setting, short press【MENU】Return.

8、【Formatting settings】

Select Enter 

Short press【“—”/“+”】Skip selection，Press【ok】Confirmation，After setting, short press【MENU】Return.

FCC Warnning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.