SW021
MANUAL v1

Product Structure：

1）TV-OUT	2）Holder Interface	3) Reset
4）Power Button	5）SD Card	6）Mode Button
7）Indicator Light	8）LCD	9）Menu Button
10）Down Button	11) Up Button	12）OK Confirmation Button
13）USB Interface	14）MIC	15）HDMI Interface
16) Speaker	17）FHD Lens	18）Infrared lamp

Button and Interface Instruction：

POWER Button: on/off

OK Button: Confirmation/record/enter WIFI

MODE Button：switch among photograph, record, playback

▲**Up** Button: Up Button /Lock

▼**Down** Button: Down Button

MENU: menu/return

Reset: Reset slot

Button/Location	Function	Description
TV OUT	AV Output	1. Connect the camera from the TV out socket to the Tv input
Holder Interface	Install holder	1.Install the suction bracket to the camera, Slide and Click
Reset	Reset	1.Reset the camera to factory settings
Power	Power on/off	1.Power on：Short press to turn ON 2.Power off：Long press to turn OFF
SD Card Slot	SD Card Slot	1； Insert the SD Card into this Slot
Mode	Switches between photo/ record/playback settings	1： Switch between photo/ record/playback settings
Indication LED	Power on/off indication LED	1； When recording the LED will flash Green, when charging the LED will be solid blue, Once the device is fully charged the LED will go out.
LCD	2.0 inch TFT	1；Displays the video and menu
Menu	Photo/record/ playback, all function setting	1. To change video and camera settings
Up/Down	In the menu mode, choose up and down	1. In the menu mode : Up 2. In the menu mode : Down
OK Confirmation	Video start/stop/photo function Menu confirmation	1： In video mode- A short press start recording, to stop recording another short press 2： In the photo mode： short press to take a photo 3： In the menu mode: used for SET and CONFIRM
USB Output	storage/charging	1 The usb can be used for charging the device and viewing files on your computer
MIC	audio record	1；Audio record
HDMI Interface	High definition output	1.Connect the HD television by HDMI cable, To view Videos
Infrared Lamp	8pcs IR	Used for improved vison in dark surroundings

Charge and Power on/off instruction：

1.Charging

This machine is built in rechargeable lithium battery, when using the machine first time, please charge, the camera for 12 hours, this can be charged by the following ways:

1. Connect it to your computer via usb lead
2. Use the usb lead and a power adaptor to charge with an electrical socket
3. Car charger

Whilst charging a Blue LED will display, once the device is fully charged the LED will go out.

For best performance please leave the power connected whilst in the vehicle.

2. Operating Guide :

Auto power on/off:

When the camera is installed into the vehicle and the power lead if left connected to the vehicles cigarette socket, the camera will automatically turn on and record when you start your vehicle and switch off and stop recording when you turn your vehicle off .

3. Power On/Off Manual

3.1: A Short press the "POWER" Button, and then camera will turn on

3.2:After the start up, The system default in camera mode, press the "OK" button to start recording, press the "OK" button again to pause recording and save the document automatically.

4.Pause mode:

> **MENU**
>
> A Short press on the "MENU" Button will allow you to enter into the "Setting" when the cursor appear on the top of screen

> Press the "MODE" button to switch between the "record setting menu" and "system setting menu"; use the "▼""▲" button to choose the menu heading and press "OK" button to confirm. Use the "▼""▲" buttons and "OK" through the menu to set your device up. And press the "MENU" button to return and exit. Now the camera will return to video mode.
>
> **PHOTO MODE**
>
> When the camera is in pause mode, Press The "Mode" button to enter "Photo mode" and use the OK button to take a photo.
>
> **REPLAY**
>
> Press the "Mode" button again to enter the replay mode, use the "▼""▲" to choose to replay Events, Video or JPG (photos), make your choice and press OK.

When you have made your choice use the ▼""▲" to move through the videos and photos and press OK to view them.

Photo/Video/Playback basic operation instruction:
Video recording setting/system setting

1.A Short press on the "MENU" button to show "Video recording menu" homepage
Press"▼""▲" button to choose the menu setting option, press the "OK" button to set as follows:
（1）　Video size：1080P（30fps)/720P(30fps)/720P(60fps)；
（2）　Image quality：Very good/good/normal
（3）　Seamless video：off/1 minute/3 minute /5 minute – this is the size of the video files made, if you choose the "off" setting the camera will stop recording once the card is full, if you choose a "time" setting the camera will automatically overwrite the old files first
（4）　White balance：auto/sunlight/cloudy/ filament lamp/ fluorescent lamp / user-defined
（5）　Motion detection：on/off – this setting is used only if the camera is being used as a security camera and has been installed to a permanent power source.
（6）　Date on/off date and time – this option will imprint the time and date into the video file

2.Short press the "MENU" button to show the "Video menu" homepage, when the cursor appears on the top of screen, press the "MODE" button to switch to the "record setting menu" and "system setting menu";
press"▼""▲" button to set the options in the menu, press the "OK" button to set as follows:
（1）　Voice：on/off - this setting allows you to choose if you wish to record audio as well as video
（2）　Infrared lamp：(night vision) on/off
（3）　Auto power off/shutdown：on/off 1 minute/3 minute /5 minute – if you leave your device on without power it will automatically turns off after your chosen time
（4）　Screen protect: (screensaver) off 1 minute/3 minute /5 minute
（5）　Date and time：year/month/date
（6）　Language：multi-language
（7）　TV：NTSC/PAL
（8）　G-sensor: on/off low/middle/high
（9）　Parking mode: off low/middle/high
（10）　Frequency：50HZ/60HZ
（11）　System：factory default/system information/card information
（12）　Format：yes/no WARNING this will delete all video and photo data from your camera

3.photo /playback setting
Press the "MODE" button to enter "PHOTO" Mode then press the "MENU" button.
Please use the "▼""▲" to choose and OK to confirm.
（1）　Image size：10M/8M/6M/3M/2M/VGA
（2）　White balance：auto/sunlight/cloudy/ filament lamp/ fluorescent lamp / user-defined
（3）　Photograph mode：on/off - auto 2Sec - auto 10S - two at a time
（4）　Continuous capture：on/off 10fps 20fps 30fps
（5）　Date: on/off date and time (choose to have the data stamped into the photo)

"Video" Store standard video files

"Picture" Store pictures

press"▼""▲" to choose the file type that you need to open:

（1）　press the OK button to enter the file, press "▼""▲"to choose the file that want to view/scan, press the OK button to start playing. on the homepage of browsing files, short press the "MENU"button to enter into "Playback mode menu", long press "MENU"　button for 3 seconds to enter into delete or lock mode, press"▼""▲" to delete or lock, press the "OK" button to set, after the file plays, press "MENU" button to go back to　"playback mode homepage" and　press the "MENU" button again to exit.

Menu Setting Instruction

Functional Operation

Recording and Cycle recording

1．Turn the camera ON, press the "OK" button, the".REC" a red recording signal in the top right corner of the screen will start flash, this means it has started to record, while the camera is recording, if press "▲"button, the lock signal will show on the top left corner of the screen, it means this file has been　locked and stored in the accident file. Also while recording if the "▼"button is pressed this will pause and continue recording.

2．Standard videos will be stored in the VIDEO file automatically, and when the card is full, the machine will delete the first video in the file by itself and continue to recycle the recordings. (if the loop setting has been switched to OFF, the camera will stop recording when the card is full)

3．Emergency video：In the event of an accident in your vehicle, if the G-Sensor has been activated the video file will automatically be stored in the "accident" file automatically after 5 seconds, and then continue to cycle recording.

4．When the camera is recording in the vehicle, the screen saver will turn the screen off, press the button to turn on/off the backlight.

Computer connect mode

Connect the camera to the computer using the usb lead, the device will show on your computer as a removable disk. Open the disk to view the video and photos
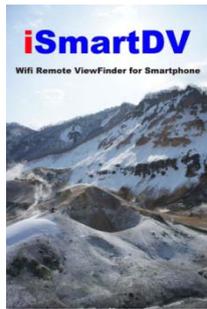
HDMI Output

Connect the camera via the HDMI socket to your tv's hdmi socket, choose the files you wish to view and share with others.

WIFI Mode

Ismart DV Operation

Android Users: Please visit the googleplay and search for **ISmart DV**

Apple Users: Please visit the app store and search for **ISmart DV**

Once the app has been downloaded and installed ,

1. Turn on your camera
2. Press and hold the OK button for 3 seconds , "waiting for wifi connection" will display
3. On your mobile device enter the wifi settings
4. Scan for new device
5. Choose the wifi camera
6. Enter the passcode 1234567890 and enter

The device is now paired with your camera, please open the app on your mobile device

With this app you are now able to view live streaming video, view videos and pictures and download them to your device.

- **Product Specification：**

Product Feature	HD Camera, HD Recording
G-sensor	Built-in(to save accidents to a non over write folder)
LCD Size	2.0 LTPS TFT LCD
Lens	170 Degree A+HD ultra wide angle
Language	Multi-language
Video Format	MOV.
Video Resolution	1920x1080 30fps Built in Camera 400W
Video Codec.	H．264, Audio: AAC
Color Effect	Standard
Loop Recording	Seamless recycling recording
Auto turn on/off while car power on/off	Support turn on while car starts. And turn off while car shutdowns.
Motion Detection	Support
Year/Month/Day/Hour/Minute	Support
Photo Mode	10M/8M/6M/3M/2M/VGA
Photo Format	JPEG
Memory Card	TF (up to 32GB Max)
MIC	Support
Built-in Sound	Support
TV Output	PAL/NTSC
WIFI	By connect with mobile phone
Frequency	50HZ/60HZ
USB Function	1：Storage 2：Charging
Power Interface	5V 1.5A　1+5-charge
Battery	Built-in Battery, 370mAh/3.7V

FAQ:

- **For problems in normal operating situation ,please try these methods below:**
- **Can't take photo and recording**

  Check the SD card for space, make sure the sd is not locked.

- **Automatically stop when recording**

  Make sure the SD card is high speed, Please make sure the SD card is Class 4 or 6

- **Appear "files error" when replay photo or video**

  Check SD card storage, if the SD is full the SD will need to be formatted to clear space.

  No photos appear HDTV

  Please make sure the hdmi cables are securely in the camera and tv

- **Unclear video**

  Check the camera lens, clean with a soft dry cloth

- **Black image when recording sky or water scene**

  Check you EV setting in the mode menu.

- **Color is not correct in cloudy day and outdoor light**

  Please check the white balance setting in the menu and adjust to Automatic

- **Cross stripe interference in image**

  This is because the"power frequency" is set incorrect, please set it to 50Hz or 60Hz

For more information and help please visit

www.silentwitness.co.uk