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User Manual



F900LS

操作指南

中文
English

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Preface

Thanks for purchasing Ultra HD 1080P traveling data recorder F900LS. This product is a digital video with the high resolution of 5 million pixels, which has mini appearance, 1080P HD image quality, unique 270°rotating screen, anti-screen function and 108° flip lens.

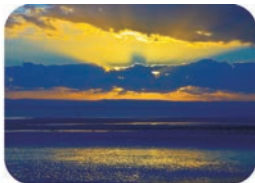
This product is suitable for safety record during driving, and also can be used as a DV for recording / shooting, or playing HD pictures.

This user manual shall not only describe how to use and operate this product in details, but also provide details about installation precautions and technical specifications. Please read this manual carefully before use and keep it properly, we hope that this product can meet your demands and serve you for a long term.

Product introduction

This product is a subminiature HD digital camera for the market demand, which a lots of functions, such as audio/video recording, picture taking, high-speed USB data transmission, USB charging and car charging, etc.

This product has a wide range of application, which is convenient for recording/shooting any time any where



Product features

- The subminiature and flip screen function is convenient for recording or shooting HD images or pictures randomly.
- Lens : 180° rotation
- Lens: Wide-angle 150°
- Exposure compensation: EV (-2/0/+2 adjustable)
- Screen: 2.5" HD TFT LCD
- LED fill-in light for night
- Built-in microphone/speaker
- 1000ma/H rechargeable Li-ion battery
- Support 32G SD card (SDHC)
- High resolution multi-media jack: TV/HDMI connection, can be used by connecting with HD TV directly
- Loop recording function
- Motion detection function
- Seamless connection function
- Auto-save after power failure
- Power on while turning on the screen , power off while turning off the screen
- The recording time can be set by yourself
- Recording while supplying power
- Automatic power-on and recording after launching the car

Operating instruction

• Power On/Off setting for the DV

1. The DV powers on automatically while turning on the screen , and the screen shall display and green light lights on, the DV powers off automatically while turning off the screen (When the car charger is not plugged.)
2. Press POWER button for one second to power on the DV, and press the POWER button for two second in boot-up state to power off the DV.
3. When the car launches, it shall charge the DVR and the DVR shall record automatically (The red light lights on during charging and lights off after full charged.). The DVR shall turn off automatically after the car stops. (Additional function: When the car charger is unplugged, the DV is set to motion detection after power on, then plug the car charger (It is loop recording at this moment.), but the DV shall switch to motion detection function after the car charger is unplugged.).

Note:

When using the car charger (Some cars have two charging holes), please connect with the interface which switches on/off synchronously with the car, so that the DV shall work synchronously with the car. If inserting to the car battery interface, the power of the car may keep working until the DV powers off because of low battery (Selected by the users).

4. When the user records a video and chats at the same time in the car (Press OK button to enter synchronous recording function when recording is needed.), or only recording is available.

Prompt :

During long-time recording, the DV shall delete the earliest videos and save the latest videos automatically when the SD card has no enough capacity, but the DV shall not delete the other data saved in the SD card.

5. For automatic recording/shooting, press MENU to enter motion detection function, then press UP button to set the motion detection as “On” so that the DV records a video or takes a picture automatically when any object moves on the screen.
6. If motion detection function is not set (Car charger is not connected), press RECORD button for recording or taking pictures, or stop recording/taking pictures.


● **Set MENU mode**

1. Press MENU button under record/camera/playback mode to access the corresponding menu settings, please open the setting list for details (There is graphical representation in the user manual).
2. Under menu setting of any mode, press OK button to enter the next menu, press UP/DOWN button to select the corresponding settings, and press OK button to confirm, and then press MENU button to exit the menu.



• **Set date and time**

Turn on the DV, press MENU button once to switch to the setting mode, press DOWN button to select “Date/Time”, press OK button to access Month, Day, Year, Hour, Minute, then press UP/DOWN button to adjust to the data desired to set; when the current option displays yellow, press UP/DOWN to adjust, and press OK to confirm the adjustment, and then press MENU button to exit.

• **Record mode**

Turn on the DV, the screen displays record mode after the DV starting up, and “” icon of record mode appears on the top left corner, on which the date displays, and timing displays on the bottom right corner, the recording light of the DV flickers which indicates that the DV has entered automatic recording state.

1. Press down “REC” button to stop recording, and then press down “REC” button again to starting recording.

During recording, the screen shall display red “” and timer on the bottom right corner, and the red “” and timer disappear when the recording stops.

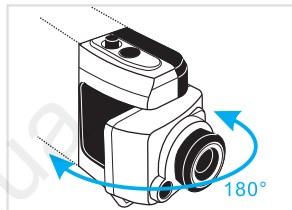
2. Fill-in light

When the light is weak outside, press RIGHT button to turn on the fill-in light (Press again to turn off the fill-in light.).


3. Brightness adjustment for the lens

Consecutively press LEFT button to set to the optimal brightness for shooting.

Angle adjustment for the lens is 180°



● Camera mode

1. Turn on the DV, the screen displays camera mode after the DV starting up, press down “MODE” button in camera mode and “” icon of camera mode appears on the top right corner which indicates that the DV has entered automatic recording state.
2. Aim the camera at the object desired to be captured, hold the camera and try not to shake when the picture is clear.
3. Take a picture: Press down “REC” button and the camera makes a “click” sound which indicated the picture is captured.

4. Self-timer function

Press down “MENU” button under camera mode, then press DOWN button to select “Self-timer”, and then press OK button to choose to set the self-timer time to be “OFF, 5s, 10s”, which indicates to take one picture every 5 seconds or 10 seconds.

Prompt:

1. Press “MODE” button under record/camera/setup mode to switch among record/camera/setup mode circularly.
2. Press “Preview” button under any mode to access playback mode.

● **Playback mode**

1. Press PREVIEW button under any mode to respectively access picture playback or video playback, press UP/DOWN button to selectively browse the pictures or videos. When browsing video files, press “OK” button to play or pause, and press PREVIEW button during playing to return to the video lists.

2. Delete one

When playing pictures or videos, press MENU button to delete one, and press OK button to confirm to access delete one mode, and then press OK button again to delete the current video or picture. After accessing delete one mode, press UP/DOWN button to browse, press MENU button to select delete one when the file desired to be deleted appears, choose the menu from “Yes/No”, and press OK button to confirm the deletion.

3. Delete all

When playing pictures or videos, press MENU button to delete all, sub-menu “Yes/No” pops out when press OK button, and then press OK button again to confirm the deletion.

4. Priority storage function

When the memory capacity of the SD card is nearly full, the latest captured files shall be saved while the earliest files shall be deleted automatically.

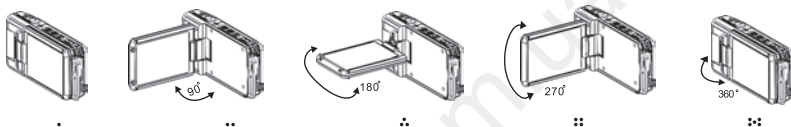
Prompt:

1. The files not named as DVR shall not be deleted, but the whole SD card can be formatted.
2. For video playback, press PREVIEW button to access previewing.
3. Plug USB cable into the PC and access SD card to open the video file.

• Screen sleep mode

Under power save mode, set the auto screen-off time in the LCD backlight menu. The DV shall turn off the screen automatically when there is no operation within the set sleep time, and press any button to reopen.

• Screen flip



File storage and video playing

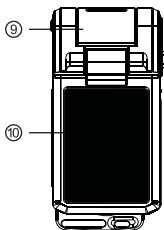
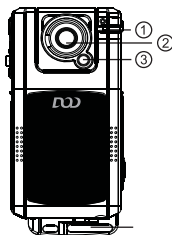
• USB backup mode

In the boot-up state, connect the DV with a PC by USB cable, and the PC shall display MASS STORAGE which indicates it has accessed USB mode, open “My Computer” on the PC desktop, and find the videos stored on “DVR” path in the SD card.

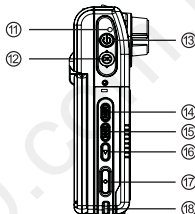
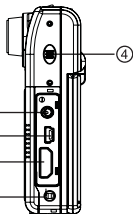
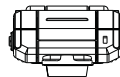
• Connected to the TV for video playing

1. The DV can be connected with a HD TV by a HDMI cable for picture browsing and video playing.
2. Use TV cable to connect the DV to a TV for picture browsing and video playing.

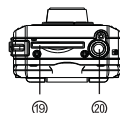
Product structure



Top surface



Bottom



- ① Bracket
- ② Lens
- ③ LED light
- ④ Speaker
- ⑤ TV earphone terminal /Output terminal
- ⑥ USB terminal
- ⑦ HDMI output
- ⑧ Reset button
- ⑨ 180°rotating lens

- ⑩ Flip screen
- ⑪ POWER indicator light
- ⑫ Five-direction buttons
 - UP button for page up
 - DOWN button for page down
 - LEFT button/Exposure compensation
 - RIGHT button /LED light
 - OK button
- ⑬ POWER button
- ⑭ MENU

- ⑮ MODE button
- ⑯ PREVIEW button
- ⑰ REC button/Camera
- ⑱ Rings buckle
- ⑲ SD card slot
- ⑳ Fixed end of the tripod

Usage and installation

• Install and take out the battery

1. Slide the battery cover downward to open it.
2. Load the battery into the DV battery case according to the markings on the battery until the battery is loaded in place.
3. Battery indicator, dynamic icons display during charging, and please refer to the following icons.



Note:

The DV shall power off automatically within 10 seconds when low battery is continuously monitored.

4. Push to open the battery cover so as to take out the battery.

• Battery charging

1. **Charging the battery by charger:** In shutdown state, connect one end of the USB cable with USB joint of the charger, and another end of the USB cable with USB end of the DV, the red indicator light on the charger shall flicker at this moment and it shall goes out after the battery is fully charged.
2. **USB charging:** In boot-up state, connect the DV to a PC by a USB cable; icon indicates USB connected shall display on the PC, and the DV battery shall be charged at this time

3. Charging the battery by car charger : The DV battery shall be charged when connecting to the car charger
(Red indicator lights on, and it goes out after fully charged)

• **Install and take out the memory card**

1. Insert the SD card into the SD card slot according to the accurate indication until the SD card is fixed in the card slot.
2. To take out the SD card, lightly press down the SD card, and take it out after the SD card pops out.

Note:

1. If the SD card is new, please install it into the DV to format it before use.
2. Please make sure whether the write-protect of the SD card is open or not before using a SD card. (To avoid not deleting the previous videos automatically)
3. If the SD card is incompatible with the DV, please re-insert it or try another SD card.
4. Please take out or insert a SD card in shutdown state so as to avoid losing the contents in the SD card.

Key functions

Record/Camera mode

POWER button Power on/off

SHUTTER button Record/take pictures

Five-button switch

UP button UP button for zooming in

DOWN button DOWN button for zooming out

LEFT button Exposure compensation

RIGHT button Fill-in light: Turn on/off

OK button Confirm (Turn on/off recording during recording)

MENU button Switch menu mode

MODE button Switch between record/camera mode

PLAYBACK button Browse recorded videos

MENU mode

Five-button switch

UP button Select upwawrd

DOWN button Select downwawrd

OK button Confirm

MENU button Exit menu mode

MODE button Switch between record/camera mode

PLAYBACK button Browse recorded videos

Key functions

Browse videos

Five-button switch

OK button Confirm/Play this video

UP button Select upwawrd

DOWN button Select downwawrd

MENU button Access file managemeth menu mode

MODE button Exit file browsing mode

PLAYBACK button Exit file browsing mode

Playback mode

POWER button Power off

Five-button switch

UP button Play the previous part

DOWN button Play the next part

OK button Play/Pause

MODE button Exit file browsing mode

PLAYBACK button Return to video (During playing)

MENU setting

Mode	Menu	Settings	Notes
Record	Video size setting	1920*1080/1280*720/640*480	
	Audio recording	ON/OFF	
	Volume	0-7	
	Motion detection	ON/OFF	ON: Start recordin
	Frame rate	20FPS/30FPS	
	Recording time	2MIN/5MIN/10MIN/OFF	
	LCD backlight	15s/30s/60s/ON	
	Date stamp	ON/OFF	
	Date/Time	Month Date Year/Hour Minute	
	Language	Simplified Chinese/Traditional Chinese/English/Russian/Japanese/	
	Frequency setting	50HZ/60HZ	
	Default setting	Yes/No	
	Version	Latest	
DV	Image size setting	1280*960/1600*1200/2048*1536/2592*1944	
	Motion detection	ON/OFF	ON: Start taking pictures
	Self-timer	OFF/5 seconds/10 seconds	Take pictures automat
Replay	Delete one	Yes/No	
	Delete all	Yes/No	
	Format	Yes/No	

Product specification

Sensor	1080p Full HD color CMOS image sensor
Lens	3.8mm
Focal range	55cm – infinity
LCD screen	2.5" IPS TFT LCD
Video output	HD multi-media joint: HDMI 720 NTSC output mode TV synthetic signal: NTSC/PAL
Picture format	Picture format: JPEG HD output
Video format	H.264
Video	1920*1080(30 pcs/sec) 1280*720 (30 pcs/sec) 640*480(30 pcs/sec)
SHUTTER	Electronic shutter
SHUTTER speed	1/30 – 1/1000 sec
White balance	Auto
LED light	Turn on/off
Joint	USB2.0/HDMI/TV
Battery	External lithium battery, 3.7V 1000mA/H
USB	USB 2.0 high-speed output
Size /Weight	Lenght 106.8 X width 53.8X thickness 33.3mm/Weight: 128g
Working temperature/humidity	-10°C/+80%

Accessories

Warm prompt: Accessories of the DV

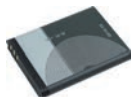
①



②



③



④



⑤



⑥



① USB cable

④ Back splint

② Car charger

⑤ Bracket

③ Li-ion battery

⑥ Instruction manual

Trouble shooting

- Cannot take a picture or record a video?
Please change the resolution for shooting or recording or change with a new memory card with enough capacity. Check whether the memory card is locked.
- No image displays on the HD TV screen?
Please make sure the HDMI cable is completely plugged in, use the HDMI cable provided as accessory together with the DV.
- Picture or image is not clear?
Please clean the lens before use, or check the focal setting is correct or not.

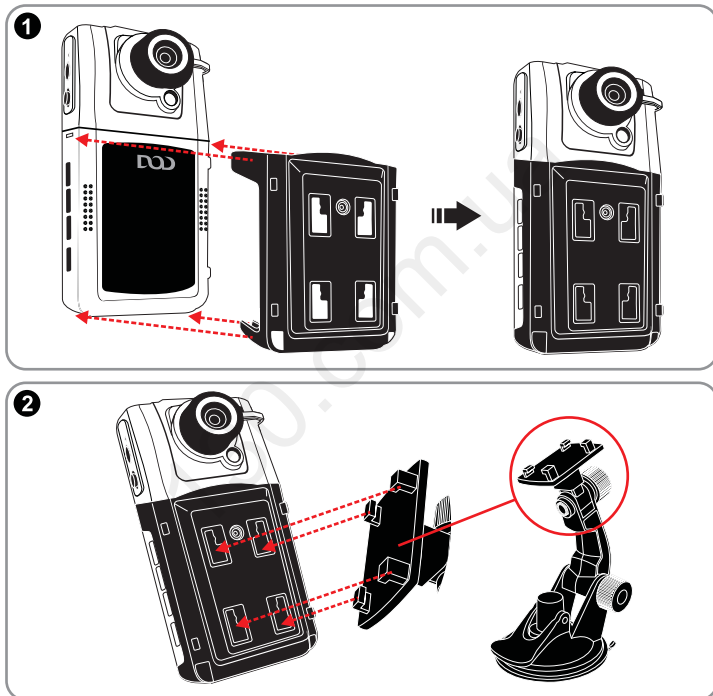
Operation tips :

The DV is similar to a PC, please follow below steps if the DV has no operation:

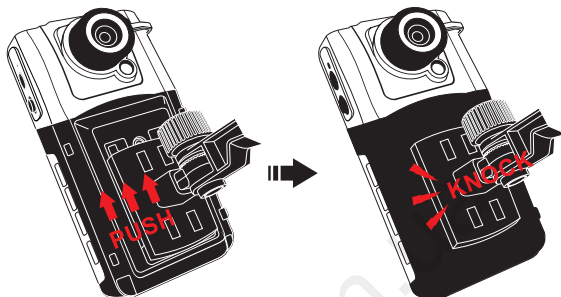
1. Take out the battery and re-load it, then restart the DV.
2. Please press RESET button to restart the DV when it has abnormal situations.
3. Please use RESET button carefully, or the data of the DV may lose.

Bracket mounting instructions

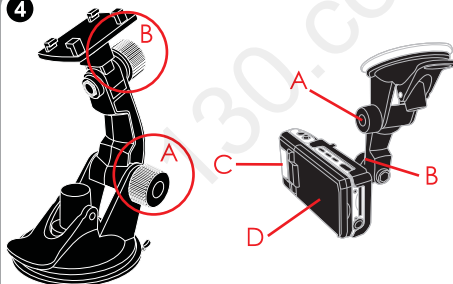
Mounting steps:



3



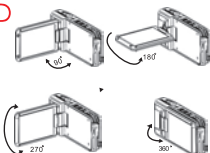
4



C



D



5

