



High Speed Video Recording @60FPS

USER MANUAL



1920x1080 P
MEGAPIXELS

F980LS Operating Instructions

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Preface

Thank you for purchasing the DOD series products. This product F980LS has ultimate action snap of 60 pictures. It can capture the moving pictures at a high speed. With high-definition 5 million pixels lens, 1080P high-resolution video recording, unique 270° screen rotation and 180° lens rotation functions. This product is suitable for safety recording during automobile driving and DV recording/shooting. This product has exquisite appearance and has obtained many patents and certifications. F980LS will make your life more colorful.

This user's manual will describe how to use it in detail and provide detailed information including use, operation, installation cautions and technical specification. Please read it carefully and keep it appropriately before use. We hope that this product can meet your need and serve you for a long-term!

Summary

This product is a high image quality driving record to meet the market demand. This product has advanced high-resolution audio-visual recording, shooting, high-speed USB data transmission, USB charging and automobile charging.

Wide Range of Application, User-friendly Video Recording, Able to Memorize Every Wonderful Moment.



Features

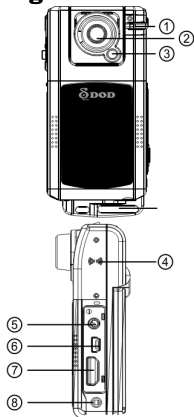
- Screen rotation function is designed with multiple functions for convenience of high-resolution video shooting and photographing, being capable of taking high-definition pictures at will at any place.
- 2.0 inches TFT LCD
- 1/2.5" high image quality sensor
- 4 prime lenses. Focal length ranges from 10 cm to infinity
- 8X digital zoom
- LED light
- Video specification: TS (H.264)
- Built-in microphone/speaker
- High-capacity rechargeable lithium ion battery
- High-capacity SD (SDHC) memory card
- High-resolution multi-media socket: TV/HDMI, suitable for high definition TV
- Loop video recording functions.
- Mobile monitoring function
- Seamless connection function
- Automatic power-off protection
- Set the video recording time
- Video recording while charging
- Automatic starting video recording when the automobile starts
- G-SENSOR gravity sensing function (collide with sensing recorder)
- SOS emergency locking file function (emergency manual forced recording)

Capacity display

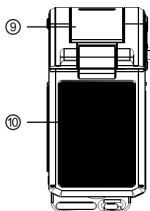
	1G	2G	4G	8G
1920*1080(FPS30)	11min	22min	45min	90min
1440*1080(FPS30)	17min	34min	69min	139min
1280*720(FPS60)	16min	32min	65min	130min
848*480(FPS60)	18min	36min	73min	146min
12M	287photos	574photos	1148photos	2296photos
8M	354photos	708photos	1416photos	2832photos
5M	572photos	1144photos	2288photos	4576photos
3M	1003photos	2006photos	4012photos	8024photos

The number of shot photos varies with the camera, memory card brand, file size and other settings.

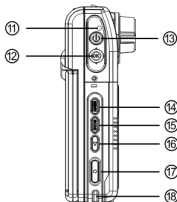
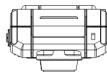
Configuration



- 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



Top surface

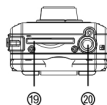


- ⑩ Flip screen
- ⑪ POWER indicator light
- ⑫ Five-direction buttons

UP button for page up
 DOWN button for page down
 LEFT button/EV value adjustment
 RIGHT button/LED lamp ON/OFF OK key
 OK button/Ok/SOS emergency recording lock file

- ⑬ POWER button
- ⑭ MENU

Bottom



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

Operation and installation

● Battery installation and removal

1. Slide the battery cover downward to open it.
2. Install the battery into the battery container according to the “+/-” symbol on the battery until it is installed properly.
3. For battery capacity indication, refer to the following figures:



4. Battery removal. Push the battery cover and take the battery out.

● Memory card installation and removal

1. Insert the card into the card slot along the indication direction until the card is fixed in the card slot.
2. To take out the card, press the card gently and take it out after the card ejection.

Notes:

1. **Install SD memory card before use.**
2. **Make sure that the write-protection switch on the card is turned on before use of SD memory card.**
3. **Note the insertion direction of memory card. Incorrect insertion direction may damage the machine and memory card.**
4. **If the memory card and machine are incompatible, insert it again or change another card to retry.**

Operation Guide

● **Setting menu mode**

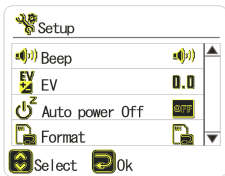
1. Under the mode of “camera/video/replay”, press MENU key to enter corresponding menu for setting. See setting contents for details.
2. Under any mode, press OK key to enter next menu. Press up and down key to select corresponding setting. Press OK key to confirm and press MENU key to exit.

● **Video camera on/off and auto off setting**


1. Press the power key for about 1 second to automatically start the machine. In the “On” status, press the power key for 3 seconds and then release it to shut down the machine.
2. To save the energy of battery, set the auto off time in the menu. If there is no operation within the setting time, the video camera will shut down automatically.
3. Turn on the power. Press the MENU key twice to switch to the setting menu. Press down key to select “Auto Off”. Press OK key to enter next menu to set the auto off time to be “OFF, 1min and 3 min”.

● **Setting data and time**



1. Turn on the power. Press “Menu” to setting mode. Press the down key to select “Date /time”. Press “Ok” key to enter year, month, day, hour, minute and second. Press up, down, left and right key to item to set and then press Ok key. Current item is red. You can adjust it with up and down key. After adjustment, press OK key to exit. Then move the down key to “√” and press OK key to finish setting.



● Video mode

1. Turn on the power to start the video camera. The screen displays the video mode, i.e. “” symbol appears in upper left corner of the screen. At this moment, it enters the video mode.




2. Press “REC” button to start video recording and then press down “REC” button to stop video recording.
3. During video recording, the red “” and timer will appear in upper part of the screen. When stopping video recording, red “” and timer disappear.

3.LED light

When the external lights are dim, right click to turn on the light supplement lamp (right click again to turn it off).

● Photograph mode

1. Turn on the power to start the video camera. In the photograph mode, press “MODE” key. At this moment, the photograph mode “

2. Alignment the video camera to the subject to be taken picture, using direction key to adjust the focus. At this moment, hold the video camera firmly without vibration.
3. Press down the “REC” button. The camera makes a sound and the sound indicates that the recording is finished.
4. Self-shoot

Under the photograph mode, press down “MENU” key and press down key to select “self-timing” and then press OK key to select self-shooting time to be “OFF, 5s and 10s”.

Tips:

1. During video recording/shooting, press “MODE” to switch over the mode “video”/ “camera” circularly.
2. Under the mode “video”/ “camera”, “press” key to enter playback mode.
3. During video recording/shooting, press left key to rapidly switch to AWM under the mode of “camera”.

● Playback mode

1. Under the mode of “video” or “camera”, press preview key to replay the pictures and video. Press left key or right key to select picture and video to browse. When browsing the video recording file, press REC key to play or stop playing. Press preview key to stop.


2. Delete

During replaying the pictures and video files, press MENU key to select one picture or video to delete. Press OK key to confirm, i.e. enter mode of “Delete”. At this moment, press OK key to delete current picture or video file. In the mode of “Delete”, press left and right key to browse. Press OK key to delete when you are browsing the file to delete.

3. Delete all

During replaying the pictures and video files, press MENU key to select all files to delete. Press OK key to display the sub-menu “×, √”. Select “×” to press OK key to confirm and return to the main menu. Select “√” and press OK key to delete all pictures and video files.

4. Protection

During replaying picture and video files, press MENU key to select protection. Press OK key to protection setting. Press left and right key to browse. Press OK key when you are browsing the picture or video files to protect. At this moment, current file will display “

5. Automatic play

When replay picture files, press MENU key, select auto play and press OK key to start automatic play.

Tips:

- 1. The write projection files cannot be deleted, but they can be formatted.**
- 2. When replaying video files, it has no automatic play function.**

● **Setting of motion detection function**

After starting of motion detection function, the relative motion in the video picture will be detected automatically. If the object motion exceed the setting motion, the machine will start video recording automatically. The trigger and recording lasts 30 seconds for every time. After recording, the main machine will detect continuously.


In the “ON” status, press MENU key to enter menu motion detection option. Press the up or down key to select ON/OFF. Press OK key to save the option and exit.

● **Setting of G-SENSOR gravity sensing function**

After starting of gravity sensing function, in case of vehicle collision or impact during video recording, it will lock and save current video automatically and set to avoid the previous video and following video files of loop recording cycle from being covered by the loop recording lock of the machine in order to guarantee safety of important video.

In the “ON” status, press MENU key to enter the option of gravity sensing strength. Press up or down key to select ON/OFF. Press OK key to save the option and exit.

● **Setting of SOS emergency file locking function**

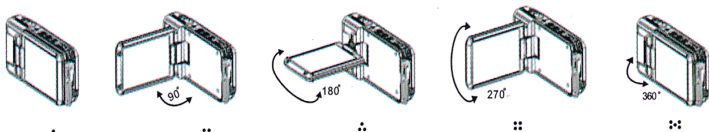
After starting of SOS emergency file locking function, you can save the video section you want at will during video recording, which will not be covered during loop recording. Press OK key for a long period in the mode of video mode, the “

● **Mode of “charging while video recording”**

In the “Off” status, connect the vehicle charger with the machine. After the automobile starts, the video camera will start automatically and begin to record video while charging the battery.

Notes: After the automobile stops, the battery will be used for power supply automatically until the low battery capacity to shut down automatically.

● Screen rotation



File Storage and Video Play

● USB backup mode

In the “On” status, connect the machine with the computer by using USB cable. The screen displays MASS STORAGE which indicates the USB mode. Open “My computer” on the computer desktop. Find the stored movies in the directory of “MEDIA/DCIM/100MEDIA”.

● Connecting the TV to play the video

1. Connect the video camera with high image quality TV by using the HDMI cable to record/shoot/view and play the picture and video.
2. Connect the video camera with high image quality TV by using TV cable to record / shoot / view and play the picture and video.

Tips: No drive is needed to be installed. Removable disk can be used only when the video camera is on.

Key Function

Video recording/shooting mode *

Power key	Power off/Shut down
Shutter key	Video recording/stop video recording/shooting
Arrow key (Up key)	Zoom out with UP key on the menu
Arrow key (Down key)	Zoom in with DOWN key on the menu
Arrow key (Left key)	EV value adjustment
Arrow key (Right key)	LED lamp ON/OFF OK key
OK key	Ok/SOS emergency recording lock file
Menu key	Menu selection
Mode key	Mode selection
Replay key	Browse picture and recording file

Replay mode *

Power key	Shutdown
Arrow key (Left key)	Previous photo/fast backward
Arrow key (Right key)	Next photo/fast forward
Menu key	Menu selection
OK key	Ok/replay: start/stop
Replay key	Return to record/return to shoot/stop playing

Menu Setting

Mode	Menu	Menu setting	Notes
Video recording	Audio	√/×	√: video recording while sound recording; ×: Video recording instead of sound recording
	Loop video recording	ON/OFF	ON: The earliest files are deleted due to card capacity and it continues to record.
	Mobile monitoring	ON/OFF	ON: Start video recording automatically after picture change is detected.
	Loop video recording cycle	1 min/3 min/15 min/OFF	
	White balance	Auto/Daylight/cloudy/fluorescent/tungsten	
	Image resolution	1080P/1080I/720P60/720P/480	
	Effect	Color/black and white/dark brown	
	Night shooting mode	ON/OFF	
Screen reverse	√/×		
Picture	White balance	Auto/Daylight/cloudy/fluorescent/tungsten	
	Image resolution	12M/8M/5M/3M	
	Effect	Color/black and white/dark brown	
	Night shooting mode	ON/OFF	
	Self-timer	OFF/5s/10s	Press shooting button and shoot pictures automatically after the setting time
	Shooting cycle	ON/5 s/10s	Press shooting button and shoot a picture within setting interval time
Screen reverse	√/×		
Replay	Delete		
	Delete all	√/×	
	Protection		
	Automatic play		
Setting	Prompt tone	√/×	
	EV	-2.0/-1.5/-1.0/-0.5/0/+0.5/+1/+1.5/+2.0	

	Auto OFF	OFF /1 min/3 mi	
	Auto screen off	OFF/1 min/3 min/5 min	
	TV output format	NTSC/PAL	
	Formatting	√/×	
	Factory setting	√/×	
	Language	English / simplified Chinese/ traditional Chinese/Russian	
	Light frequency	50HZ/60HZ	
	Date/time	YYMMDD/HHMMSS	

Product Specification

Sensor	5 Mage pixels CMOS		
Lens	3.4mm		
Focusing range	10cm - Infinity		
LDC	2.5" TFT LCD		
Video output	High image quality multi-media connector: HDMI CTS1.2 support 1080P/1080i/720P/WVGA output mode Composite: NTSC/PAL		
Picture format	Picture format: JPEG	Maximum output: 12M (4000×3000)	
Recording format	TS (H.264)		
ideo	1920*1080 (30 fps)	1280*720 (60 fps)	
	1440*1080 (30 fps)	848*480 (60 fps)	
Zoom	8 X digital zoom		
Recording media	External: Micro SD card (Up to 32G)		
Audio	Built-in MIC / speaker (Mono)		
Shutter	Electronic shutter		
Shutter speed	1/2-1/1000 seconds		
White balance	Auto/sunny/cloudy/Fluorescent/Tungsten		
LED light	ON/OFF		
Port	USB2.0/HDMI/TV		
Battery	External lithium-ion battery 3.7V 1000mAh		
USB	USB2.0 high speed transmission		
Size	98.2 (L)×53 (W)×22.5mm (H)		
Working temperature/humidity	-10℃-60℃/10%-80%		

Accessories Contained

Notice: Please check the accessories according to above diagram to avoid any unnecessary loss.

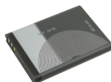
①



②



③



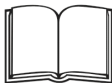
④



⑤



⑥



⑦



- ① USB cable
- ② Car charger
- ③ Li-ion battery
- ④ Back splint
- ⑤ Bracket
- ⑥ Instruction manual
- ⑦ HDMI Cable

Troubleshooting

● **It cannot take pictures, videos and voice recording?**

Change resolution for shooting or video recording or change for memory card with enough space. Check if the memory card is locked or not.

● **Image cannot be transferred to HDTV screen?**

Please make sure that the HDMI cable is completely plugged into TV's HDMI port. Use the HDMI cable along with this product.

● **Pictures and videos taken are not clear?**

Check if lens is covered with any dirt. If so, clean then lens before use. Or check the focus zone.

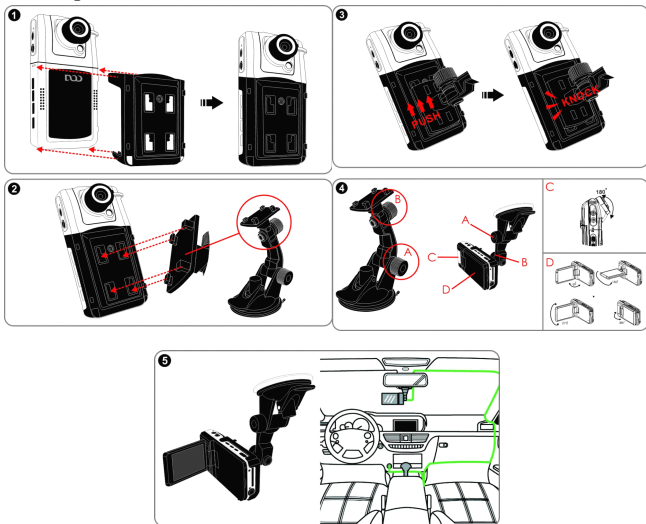
Tips for operating

This camera is similar to the computer. If the video camera is not working, please operate as follows:

- 1. Take out the battery. Reinstall it. Restart the video camera.**
- 2. Press the reset button when this video camera is in abnormal condition.**
- 3. Do not press the reset button while the video camera is in normal condition. Otherwise, the data may get lost.**

Bracket Installation Instruction

Installation step:



δ DOD
Dream Of Digit-tech

HDMI  USB  FC  CE 