

F890LS Operating Instructions

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F890LS 使用說明書

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Preface

Thank you for purchasing DOD series product. This product F890LS has the limit action snap of 60 photos to capture moving picture in high speed and high image quality 5 million-pixel photographic lens, and 1080P high-resolution video recording and unique lens reversing function. This product is applicable to safety recording during automobile driving and DV recording/taking photos. It has exquisite appearance, patents and certifications. F890LS 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

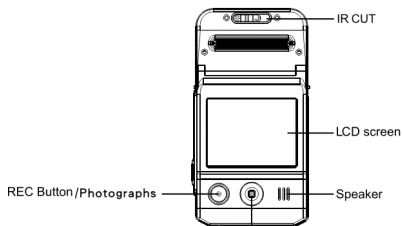
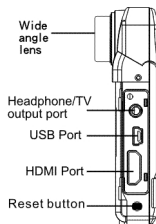
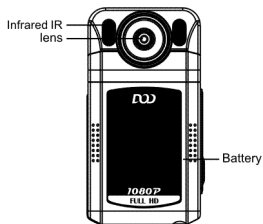
- Mini size screen rotation function design with multi-function enables easy high-resolution video recording and shooting and capturing high-definition pictures at will in any situations.
- 2.0 inches TFT LCD
- 1/2.5" high image quality sensor
- 4 prime lenses. Focal length ranges from 10 cm to infinity
- 8X digital zoom
- Infrared IR
- 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)
- Manual Day&Night Conversion Function

Capacity display

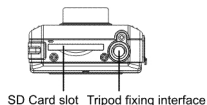
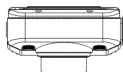
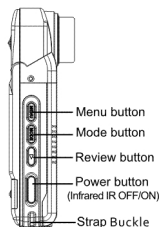
	1G	2G	4G	8G
1920*1080(FPS30)	11min	22min	45min	90min
1440*1080(FPS30)	17min	34min	69min	139min
1280*720(FPS60)	16min	32min	65min	130min
848*480(FPS60)	18min	36min	73min	146min
12M	287photos	574photos	1148photos	2296photos
8M	354photos	708photos	1416photos	2832photos
5M	572photos	1144photos	2288photos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

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

Configuration



Direction Button (5 directions)
 UP(Zoom in) . Down(zoom out) .
 Left(White balance) . Right(EV) .
 Ok(SOS)



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**

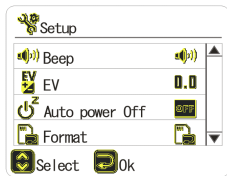
1. Under the mode of “camera/video/replay”, press MENU key to enter corresponding menu for setting. See setting contents for details.
2. Under any mode, press OK key to enter next menu. Press up and down key to select corresponding setting. Press OK key to confirm and press MENU key to exit.

● **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 videomode.





2. Press “REC” button to start video recording and then press down “REC” button to stop video recording.

During video recording, the red “” and timer will appear in upper part of the screen. When stopping video recording, red “” and timer disappear.

3. Infrared IR

When the external light is dim, set the night shoot menu to be “ON” to enhance the image brightness. After the night camera mode is on, if the image is still dark, press power key to start Infrared IR.

● 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.

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 Infrared IR
Shutter key	Video recording/stop video recording/shooting
Arrow key (Up key)	1/2/3/4/5/6/7/8X digital zoom
Arrow key (Down key)	1/2/3/4/5/6/7/8 X digital zoom
Arrow key (Left key)	White balance: Auto/daylight/cloudy/fluorescent/tungsten
Arrow key (Right key)	EV value adjustment
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

Function Icon

- **When you use this machine, you will find many functional icons. To make your master its use method rapidly, the icons are listed in detail as follows for your retrieval and understanding.**

 Video mode	 Camera mode	 Setting mode	 Auto	 Sunny
 Cloudy	 Fluorescent	 Tungsten	 Color	 Black and white
 Dark brown	 Night shoot off	 Night shoot on	 1080P	 1080I
 720P	 WVGA	 OK	 Cancel	 2048x1536
 2592x1944	 3200x2400	 4000x3000	 Gravity sensing	 Screen reverse
 Simplified Chinese	 Traditional Chinese	 Russian	 English	

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	
	White balance	Auto/Daylight/cloudy/fluorescent/tungsten	
	Image resolution	1080P/1080I/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	-1/-0.5/0/+0.5/+1	
	Auto OFF	OFF/1 min/3 mi	
	Auto screen off	OFF/1 min/3 min/5 min	

	TV output	NTSC/PAL	
	Power saving	√/×	
	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
LCD	2.0" 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)
Video	1920*1080 (30 fps) 1440*1080 (30 fps) 1280*720 (60 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
Infrared IR	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)
Workingtemperature/humidity	-10℃ -60℃/10%-80%

Accessories Contained

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



F890LS



Operating instruction



Rechargeable lithium
battery



Bracket



Vehicle power charger



HDMI cable



USB cable



AV cable
(optional)

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.

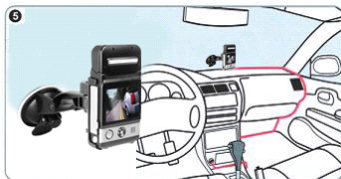
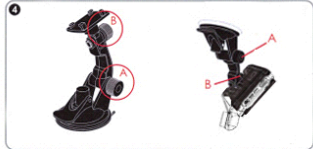
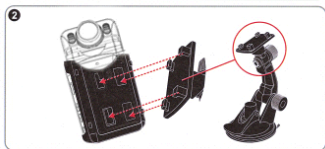
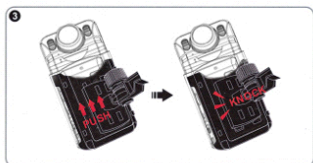
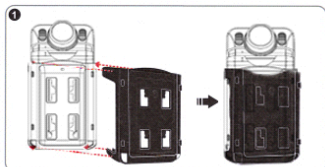
Tips for operating

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:



前言

感謝您購買 DOD 系列產品，本產品 F890LS 為極限動拍 60 張，可高速捕捉移動畫面，擁有高畫質 500 萬像素攝影鏡頭，1080P 高解析錄影，有獨特的鏡頭翻轉功能。本產品適合使用在汽車行車過程安全記錄，也可做 DV 錄影/拍攝相片本產品外觀精緻並榮獲各項專利及認證，F890LS 令你的生活更添精彩。

本用戶手冊將詳細說明如何使用，同時提供給你的詳細資訊，包括使用、操作、安裝注意事項及技術規格等，使用前請仔細閱讀並妥善保管本手冊，我們希望本產品能夠滿足您的需要並長期為您服務！

產品概述

此款產品是針對市場需求推出的一款高畫質行車記錄器。該產品具有領先群雄的高解析影音錄影、拍照、高速 USB 資料傳輸，USB 充電，汽車充電等功能。

使用範圍廣泛，可方便隨時隨地錄影



產品特性

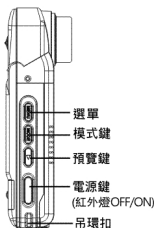
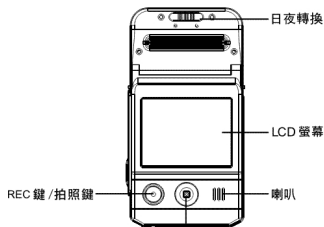
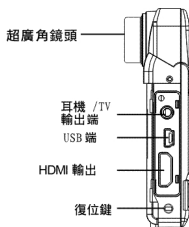
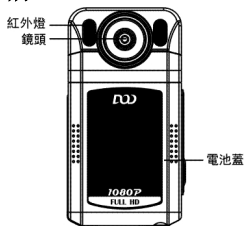
- 超小體積螢幕翻轉功能設計配合多功能使用，方便各種場合輕鬆高解析視訊拍攝、拍照，超清晰畫面隨意捕捉。
- 2.0 吋 TFT LCD
- 1/2.5"吋高畫質感光原件
- 4 片定焦鏡，焦距範圍 10cm 到無限遠
- 8X 數位變焦
- 紅外燈
- 視訊規格：TS(H.264)
- 內建麥克風/喇叭
- 大容量充電鋰電池
- 支持大容量 SD (SDHC) 記憶卡
- 高解析多媒體接孔：TV/HDMI 直播直錄，可直接與高畫質電視連接使用
- 循環錄影功能
- 移動偵測功能
- 無縫鏈接功能
- 斷電自動保存
- 錄影時間可自行設定
- 可邊供電邊錄影
- 汽車發動自動開機錄影
- G-SENSOR 重力感應功能(碰撞感應記錄器)
- SOS 緊急鎖檔功能(緊急手動強制記錄)
- 手動日夜轉換功能

容量顯示

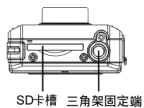
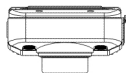
	1G	2G	4G	8G
1920*1080 (FPS30)	11min	22min	45min	90min
1440*1080 (FPS30)	17min	34min	69min	139min
1280*720 (FPS60)	16min	32min	65min	130min
848*480 (FPS60)	18min	36min	73min	146min
12M	287photos	574photos	1148photos	2296photos
8M	354photos	708photos	1416photos	2832photos
5M	572photos	1144photos	2288photos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

根據拍攝主機、記憶卡品牌、檔尺寸以及其他設定的不同，可拍攝的數量將會有所不同。

產品結構



五向鍵
 上鍵 (放大鍵)、下鍵 (縮小鍵) 左鍵 (白平衡)、右鍵 (EV調整)、
 OK 鍵 (確認鍵、SOS)



使用安裝

● 安裝和取出電池

1. 向下滑動電池蓋可將它開啟。
2. 按照電池上標識的正負符號指示把電池裝入攝影機電池槽內，直至安裝到位。
3. 電池電量指示，請參考圖示



4. 取出電池，推開電池蓋即可將電池取出

● 安裝和取出記憶卡

1. 按照指示方向將記憶卡插入記憶卡槽，直至記憶卡被固定在卡槽中為止。
2. 取出記憶卡時，輕輕壓下記憶卡，待卡片彈出後，即可取出

注意：

1. 使用前請先裝入 **SD** 記憶卡。
2. 使用 **SD** 記憶卡前請確定記憶卡上防寫開關是否打開。
3. 請注意記憶卡的插入方向，若倒轉插入，可能會損壞機器與記憶卡。
4. 如果記憶卡與機器不相容時，請重新再插一次或再換一張記憶卡重試。

操作指南

● 設定選單模式

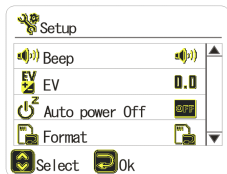
1. 在拍照/攝影/回放任意模式狀態下按選單“MENU”鍵可進入其相對應的選單設定，詳細請參考設定目錄表。
2. 在任何模式的選單設定下，按 OK 鍵進入下一級選單，按上下鍵選擇相應的設定後，按 OK 鍵確定，再按 MENU 鍵退出選單。

● 攝影機開啟/關閉及自動關閉設定


1. 按住電源鍵 1 秒左右自動開機，在開機狀態下，按電源鍵 3 秒後鬆開電源鍵即關機。
2. 為節省電池電量，可在選單內設定自動關機時間。當攝影機在設定時間內沒有操作便會自動關機。
3. 打開電源，按兩次 MENU 鍵切換到設定選單，按下鍵選擇到“自動關機”，在按 OK 鍵進入下一級菜單，可設定自動關機時間為“OFF, 1Min, 3Min”。

● 設定日期與時間

1. 打開電源，按兩次 MENU 鍵切換到設定選單，按下鍵選擇到“日期/時間”，按 OK 鍵進入年、月、日、時、分、秒，按上、下、左、右鍵調到需要設置的項上按 OK 鍵，當前項顯示為紅色，即可按上下鍵調整，調整好後按 OK 鍵退出，再按下鍵移動到“√”，再按 OK 鍵確定即可。





● 攝影模式

1. 打開電源，攝影機完成開機程式，螢幕顯示攝影模式，隨即左上角出現攝影模式“”符號，此時已進入攝影狀態。




2. 按下“REC”按鈕開始錄影，再按下“REC”按鈕停止錄影。

錄影進行時，螢幕下方將顯示紅色“”及計時器，錄影停止同時，紅色“”及計時器消失。

3. 紅外燈

當外界光線較弱時，將夜拍菜單設置為開，可提高影像亮度。如開啟夜拍後，影像還是偏暗，可短按電源按鍵將紅外燈開啟。

● 拍照模式

1. 打開電源，攝影機完成開機程式，在攝影模式，按下“MODE”鍵，隨即左上角將出現拍照模式“”符號，此時已進入拍照模式。



- 1.將相機對準拍照主體，並可按上下鍵進行數位變焦，此時要抓穩攝影機儘量不要抖動。
- 2.按下“REC”按鈕，相機發出“咔嚓”一聲，拍照完成。
- 3.自拍功能

在拍照模式下按下選單“MENU”鍵，然後按左鍵選擇“自拍計時”選項，再按 OK 鍵可選擇將自拍時間設置為“OFF, 5s, 10s”。

提示：

- 1.在攝影，拍照模式可按“MODE”鍵迴圈切換錄影，拍照模式。
- 2.在攝影和拍照模式，按“預覽”鍵可進入回放模式。
- 3.在攝影，拍照模式下，按左鍵可快速切換 AWB。

● 回放模式

1.在拍照模式或攝影模式，按下預覽鍵，分別可進入圖片回放及錄影回放，按左鍵或右鍵可對圖片及錄影進行選擇流覽。流覽錄影檔時，可按 REC 鍵播放或停止播放，按預覽鍵暫停。

2.刪除單張



回放圖片及錄影檔時，按選單 MENU 鍵，選擇刪除單張，按 OK 鍵確認，即進入單張刪除模式，此時再按 OK 鍵，可刪除當前圖片或錄影檔，進入單張刪除後，可以按左右鍵流覽，當流覽到想要刪除的檔上時，直接按 OK 鍵即可刪除。

3.刪除全部

回放圖片及錄影檔時，按選單 MENU 鍵，選擇刪除全部，按 OK 鍵會彈出子選單“×, ✓”選擇“×”按 OK 鍵確認即返回主菜單，選擇“✓”按 OK 鍵即刪除全部圖片或全部錄影檔。

4.保護

回放圖片及錄影檔時，按選單 MENU 鍵，選擇保護，按 OK 鍵可進入保護設置，按左

右鍵可進行流覽，流覽到需要保護的圖片或錄影檔時，按 OK 鍵確認，此時當前檔會顯示“”符號，即表示當前圖片已被保護，再次按 OK 鍵，當前圖片上“”消失，表示當前檔已經解除保護。

5.自動播放

回放圖片檔時，按選單 MENU 鍵，選擇自動播放，按 OK 鍵確認即開始自動播放。

提示：

1.被寫保護的檔不會被刪除，但可以被格式化。

2.回放錄影檔時沒有自動播放功能

● 位移偵測功能設定

位移偵測功能開啟後會自動偵測攝影畫面中的相對位移量，若物體移動超過預設位移量則主機自動開啟錄影，每次觸發並錄影持續 30 秒，錄製完畢後主機會持續偵測。

在開機狀態下，按 MENU 鍵，進入選單移動偵測選項，按上下鍵進行選擇 ON/OFF，按確認鍵保存選擇及退出。

● G-SENSOR 重力感應功能設定

重力感應功能開啟後，影像錄製過程中車輛受到碰撞或者撞擊時，會自動鎖定保存當前影像及設定循環錄影週期的前一段、後一段三段影像檔不被機器循環錄影鎖覆蓋，已保證重要影像的安全。

在開機狀態下，按 MENU 鍵，進入重力感應強度選項，按上下鍵進行選擇 ON/OFF，按確認鍵保存選擇及退出。

● SOS 緊急鎖檔功能設定

SOS 緊急鎖檔功能啟動後，在影像錄製過程中隨時隨意保存你想保存的影像片段在循環錄製過程中不被覆蓋

在攝像模式下長按確認鍵，畫面中會出現“”保存目前影像週期的視頻，進入下一視頻週期時影像自動消失。

● 邊供電邊錄影模式

開機狀態下，以車充電源與機器連接，汽車啟動後，會自動開機並開始錄影，同時會對電池行充電。

注意：汽車停止後，會自動使用電池供電，直到電池低電自動關機。

檔儲存及視訊播放

● USB 備份模式

開機狀態下，以 USB 線將機器與電腦連接後，屏上顯示為 MASS STORAGE,即表示已進入 USB 模式，打開電腦桌面“我的電腦”，在“MEDIA/DCIM/100MEDIA”路徑下找到被儲存的影像。

● 連接電視機視訊播放

- 1.用 HDMI 連接線可連接攝影機至高畫質電視機，進入錄影/拍照/流覽播放圖片及錄影。
- 2.用 TV 連接線可連接攝影機至電視機，進入錄影/拍照/流覽播放圖片及錄影。

提示：無需安裝驅動程式，在攝影機開機狀態下才能使用移動式磁碟。

按鍵功能

錄影/拍照模式

電源鍵	關機/紅外燈開啟關閉
快門鍵	錄影/停止錄影/拍照
方向鍵（上鍵）	1/2/3/4/5/6/7/8 倍數位變焦
方向鍵（下鍵）	1/2/3/4/5/6/7/8 倍數位變焦
方向鍵（左鍵）	白平衡：自動/白天/陰天/螢光燈/鎢絲燈
方向鍵（右鍵）	EV 值調整
OK 鍵	確認/SOS 緊急錄影鎖檔
選單鍵	選單選擇
模式鍵	模式選擇
回放鍵	流覽圖片及錄影檔

回放模式

電源鍵	關機
方向鍵（左鍵）	上一張/快退
方向鍵（右鍵）	下一張/快進
選單鍵	選單選擇
OK 鍵	確認/回放：開始/暫停
回放鍵	返回錄影/返回拍照/暫停播放

功能圖示

- 當您使用本機時，會出現不少功能圖示，為了您能更好更快的掌握本機的使用方法，特將圖示明細如下，供您檢索瞭解。

 錄影模式	 拍照模式	 設定模式	 自動	 晴天
 陰天	 螢光燈	 鎢絲燈	 彩色	 黑白
 棕褐色	 夜拍關	 夜拍開	 1080P	 1080I
 720P	 WVGA	 確認	 取消	 2048*1536
 2592*1944	 3200*2400	 4000*3000	 重力感應	 倒屏
 簡體中文	 繁體中文	 俄語	 英語	

選單設定

模式	選單	選單設定	注釋
錄影	音頻	√/×	√:錄影同時錄音; ×:只錄影不錄音
	移動偵測	ON/OFF	ON: 檢測到有畫面變動即自動開始錄影
	迴圈錄影週期	1分鐘/3分鐘/15分鐘/OFF	
	重力感應強度	ON/OFF	
	白平衡	自動/日光/陰天/螢光燈/鎢絲燈	
	圖像解析度	1080P/1080I/720P/480	
	特效	彩色/黑白/棕褐色	
	螢幕翻轉	√/×	
相機	白平衡	自動/日光/陰天/螢光燈/鎢絲燈	
	圖像解析度	12M/8M/5M/3M	
	特效	彩色/黑白/棕褐色	
	夜拍模式	ON/OFF	
	自拍計時	關/5秒/10秒	按下拍攝按鈕，經過設定的時間後自動拍照
	拍照週期	關/5秒/10秒	按下拍攝按鈕，間隔設定時間自動拍照一張
	螢幕翻轉	√/×	
回放	刪除單張		
	刪除全部	√/×	
	保護		
	自動播放		
設定	提示音	√/×	
	EV	-1/-0.5/0/+0.5/+1	
	自動開機	OFF/1分鐘/3分鐘	
	自動關屏	OFF/1分鐘/3分鐘/5分鐘	
	電視輸出格式	NTSC/PAL	
	日期郵戳	ON/OFF	
	格式化	√/×	
	恢復原廠設定	√/×	
	語言	英語/簡中/繁中/俄語	
	光源頻率	50HZ/60HZ	
日期/時間	年月日/時分秒		

產品規格

感光原件	5 Mge pixels CMOS
鏡頭	3.4mm
焦距範圍	10cm - 無限遠
液晶螢幕	2.0" TFT LCD
視訊輸出	高畫質多媒體接頭: HDMI CTS1.2 支持1080P/1080I/720P/WVGA 輸出模式 電視合成訊號: NTSC/PAL
照片格式	照片格式: JPEG 最高輸出: 12M(4000X3000)
錄影格式	TS(H.264)
視訊	1920*1080 (30張/秒) 1440*1080(30張/秒) 1280*720 (60張/秒) 848*480 (60張/秒)
變焦	8倍數位變焦
錄影媒介	外接:Micro SD卡 (最高支持32G)
音訊	內建麥克風/喇叭(單聲道)
快門	電子快門
快門速度	1/2-1/1000秒
白平衡	自動/日光/陰天/螢光燈/鎢絲燈
紅外燈	開啟/關閉
接頭	USB2.0/HDMI/TV
電池	外置鋰電池, 3.7V 1000mAh
USB	USB2.0高速傳輸
尺寸	長98.2×寬53×厚22.5mm
工作溫度/濕度	-10°C-60°C/10%-80%

包裝附件

溫馨提示：請您在購買本產品的時候，按圖示清點附件，以免造成您的損失。



F890LS



使用說明書



可充鋰電池



支架



車用電源



HDMI 連接線



USB 連接線



AV 連接線
(選購)

簡易疑難排除

● 不能拍照、攝影？

請更改拍照或錄影解析度或更換有足夠空間的記憶卡。並檢查記憶卡是否鎖住。

● 沒有影像顯示在高畫質電視螢幕上？

請確認 HDMI 視訊線接頭是否完全插入，請使用隨機提供的 HDMI 視訊線。

● 拍出的照片及拍攝錄影不清晰？

請將鏡頭擦拭乾淨後再使用，或檢查遠近焦設置是否正確。

操作小提示

本攝影機和電腦很相似，如果發生攝影機無動作的情況，請按照以下步驟操作：

- 1.取出電池，重新裝入電池，重新開機。
- 2.在攝影機出現異常情況，請按 **RESET** 鍵重啟攝像機。
- 3.請謹慎使用 **RESET** 鍵，否則可能會引起資料遺失。

支架安裝說明

安裝步驟:

