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F900L HD

DOD
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1080P

1920X1080P

H.264

WIDE ANGLE LENS

120°

FULL HD

HIGH Definition Video Recorder

1080P Full HD

NEW PLUS

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Preface

Thank you for purchasing F900LHD, high definition digital camcorder. The Products appearance is mini with elegant impression. The unique Screen-rotation function and movable lens unitized design realizes with multi-purpose uses.

This user manual provides full instructions for the usage of the products. At the same time, gives you the details of the products, such as operation, warning installation, and product specification. Please read this manual carefully and full understand before using this product , keep this manual in the safe place. we hope our product could meet your need. and wish to serve you for long-term.

Assurance

This product has passed ISO **9001:2000** international quality control system authentication and achieve all the standards set by the authorities of FCC, CE&SGS with certificates to assure safety for our great customers.

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Summary

This high-tech mini HD digital camcorder is designed for market demand . This product has the most leading functions for the industry such as HD digital video, digital photo, USB data transfer, USB charger. It has many inventions and the technical monopoly.

Wide range of applications, memorize every wonderful moment . . .

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Features

- Mini size, with screen-Rotation design cooperates with multi-function use, help you see HD videos and photoes easily on the screen in every situation. Catch the high definition pictures at will, and display and play back at real time.
- Wide Angle Lens 120°
- **2.5** inch LTPS TFT LCD.
- **1/2"** high definition video sensor parts
- **4** picese fixed lens; focus range: 10cm-infinity .
- **4 X** digital zoom
- Electronic Auto Flash light(led), optional flash on for illumination.
- Video format : MPEG-4 AVC / H.264
- Mic and Speaker equipped.
- High capacity Lithium-ion rechargeable battery.
- Support SDHC card.
- HDMI Port : Suitable for high definition TV.
- Motion detection recording functions.
- Loop video recording functions.
- Set video recording time freely.
- Set 180-degree reverse shot lens.
- Record when get power supply.
- Can be set to automatically start recording when the car engin starts.
- Screen sleeping mode.

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Video Storage Capacity (for reference)

	Memory card(Gbyte)			
	1G	2G	4G	8G
1920X1080 (FPS30)	10min	20min	40min	80min
1440X1080 (FPS30)	16min	32min	64min	128min
1280X720 (FPS30)	20min	45min	90min	180min
848X480 (FPS60)	21min	42min	84min	168min
848X480 (FPS30)	32min	64min	128min	256min
640X480 (FPS30)	66min	133min	266min	533min
320X240 (FPS120)	47min	94min	188min	376min
320X240 (FPS30)	188min	376min	752min	1504min
3M	957photos	1914photos	3828photos	7656photos
4M	672photos	1344photos	2688photos	5376photos
5M	586photos	1148photos	2386photos	3996photos
8M	386photos	753photos	1565photos	3193photos
12M	300photos	600photos	1200photos	2400photos

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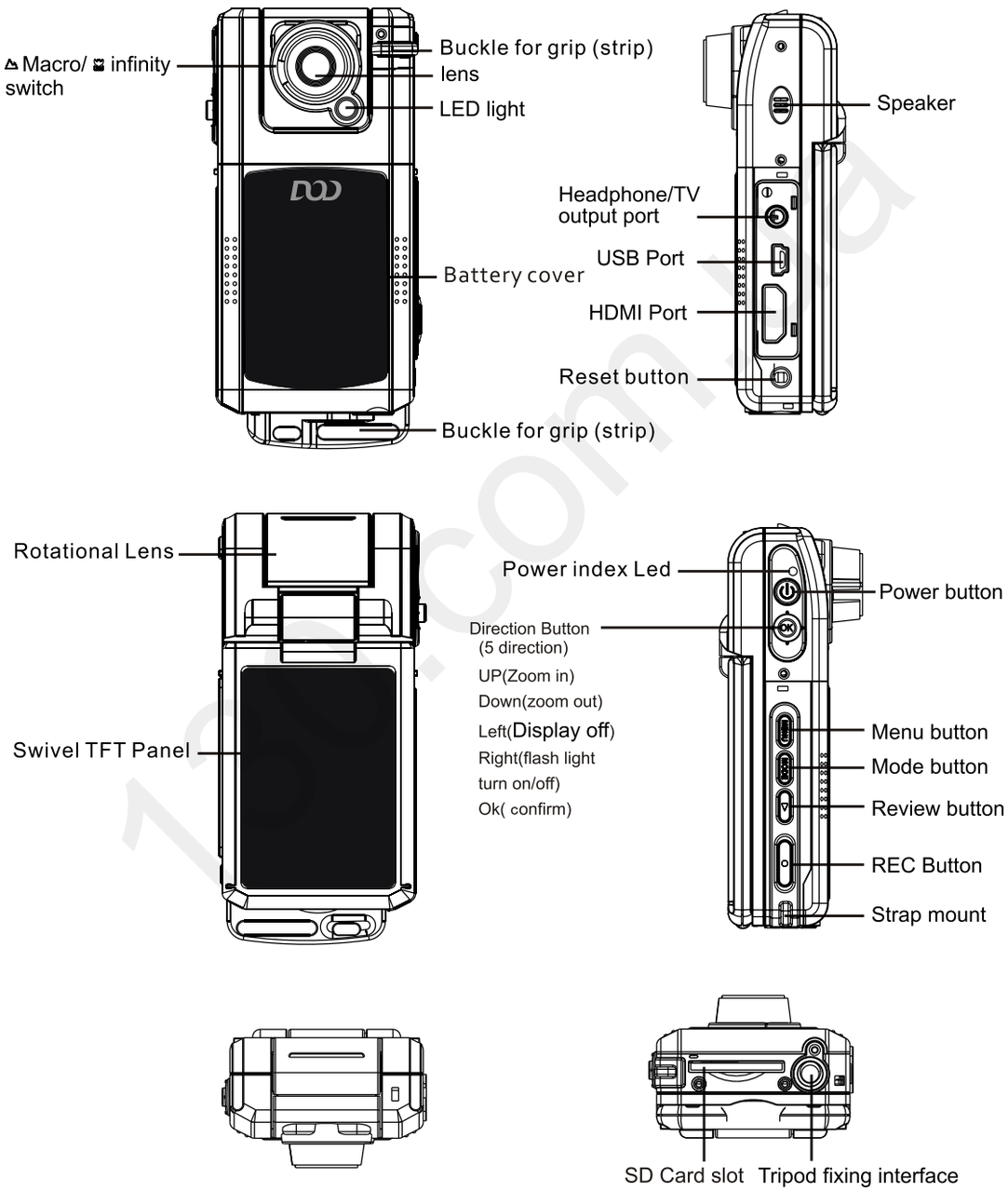
- File size and storage capacity might differ from one model to others due to the differences existing in different models, brand of memory card and other settings.

Configuation



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Instruction

- **Inserting and Taking out battery**

1.Open battery cover by pushing it down.

2.Insert battery according to the "+ -" marks to the right positions.

3. Please refer to the following diagrams for battery status.

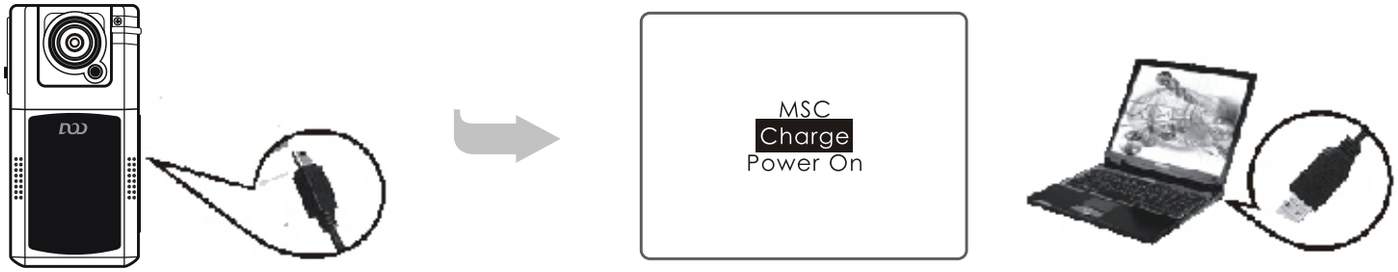
Full percentage low percentage critical percentage

4. The battery cover must be open before taken out the battery.

- **Charging the Battery**

1.Using the charger: One end of the USB cable connected with the charger, and the other end pluged into the USB port of the camcorder.

2. Using USB cable to recharge : Use USB cable to connect computer screen, the screen appears as following picture: select the “CHARGE” to begin charging.



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- **Inserting & Taking out Memory Card(SDHC Card)**

1.Carefully insert the memory card into card slot until the card is tightly fixed.

2.To remove the SD card out, push the card softly, and then it will bounce out.

NOTE:

1. Before using SD card, Please check if it is locked;
2. Please make sure SD card is inserted to the right direction. If inserted to the oposite direction, it might cause damage to both cam corder and SD card.
3. After SD card has been inserted into the card slot, F900LHD will automatically take SD card as default storage, therefore all the data stored before inserted can not be read until it has taken out.
4. If the memory card is not compatible with F900LHD, the card might not be read. In this case, take out the card and insert it again or just change to another SD card.

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Operation Instructions

- **Setting mode**

1.Regarding to video/photo/review mode, press "Menu" button could enter into any corresponding setting menu. (For details in setting information, please refer to the setting table).

2.At any menu mode, press direction key rightwards will enable user for menu setting options to choose preferred setting , then press "ok" to confirm.

- **Turn on/off F900LHD Camcorder and Automatic shut-off setting**

1.Press power button for 1 second to turn on/off.

2.In order to save the power of the battery, auto off can be set in the "setting menu". If no operation is conducted during the time setting, period , the F900LHD will turn off automatically.

- Turn on F900LHD, under any mode, press "menu" to select "System Setup", press direction key downwards to select " Auto off " and then press the right key to change the auto off period.

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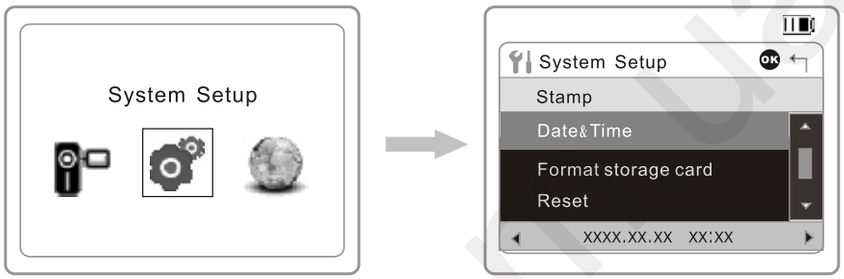
• Setting Date and Time

1.Turn on F900LHD, under any mode, press "menu" button to select "System Setup ", press direction key downwards to select "Date&Time", and then select the right year, month, day, hour, minute, press the arrow keys to adjust time to set up.



2.Under video mode, press "menu" button to select "System Setup", press direction key down wards to select the "Stamp" ,set to "On", the time and date will be displayed on the video.

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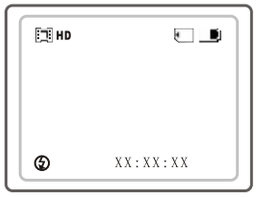
• Video mode

1.F900LHD automatically goes to video mode after it is turned on. At this time " HD" appears upper left corner of the screen.



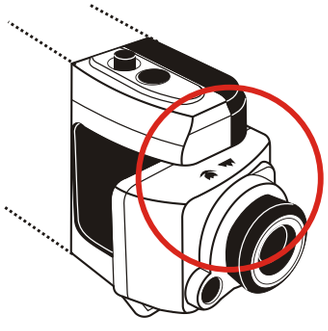
2.Press the "REC" button to start recording, then press "REC" button to stop recording. During recording, timer and " ● " symbol shown on the screen and it will flash for timing and recording. As soon as the recording stops, the flash red circle turns back to the " " .

3.Options for flashing light

Press Speed flash switch button(right Key) at the F900LHD can start or stop using Auto Flash " " (which can automatically make up the light according to different conditions) or Fill " " (every time you take a picture, flash is used regardless of light conditions).

Attention : LED light function will automatically turn off when the battery at critical percentage.

4.Using / switch : under macro mode for photography distance to focus on the small items, the effective distance is 10 cm, under infinity mode photography distance from 1.5 m to infinity.



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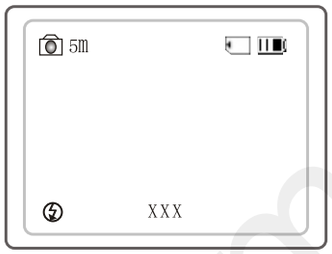
• Photograph mode

1. Press power key to turn on F900LHD and it will go to video mode automatically, Press "mode" switch to the Photograph mode, The upper left corner of the screen will show "8M" and the button of the screen will display the maximum photo capacity.



2. Alignment by F900LHD to the object which to be taken, using direction key upwards and downwards in order to adjust focus.
3. While pressing record button, camera makes a sound, the sound signifies that the recording is finished.
4. Self-timer

   Under camera mode, press "menu", then press direction key down wards to select "Image Param", press right wards to choose "Self timer" time in order to take the picture.

Tips: 1. Under any mode (video, camera), press "mode" could change the mode "video"/"camera" circularly.

2. Under video and photography mode, press direction key leftwards could enter screen sleep mode.

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• Review mode

1.Turn on F900LHD to Video mode, Press review key to enter into single-picture review mode, Press direction key leftwards and rightwards to review pictures or recorded video.

2.Press direction key downwards to index review mode. User can press direction key to review taken pictures or videos. Press "ok" to enter single-picture review mode, and Press "mode" to exit.

- If displayed picture is tagged with " ▶ ", then it symbolize a video information, Pressing "ok" will play the video, press ok again, it will pause. While playing video, you can use direction key left or right to forward or backward playing, To exist playing mode, you have to press "ok" to pause the playing video first, and then press direction key left or right to go to the next file .

3.Truncation chart function

When you see the "current picture" while reviewing video, then press "ok" to pause the video then press record button, until the sound is coming out. This "current picture" will recorded to be a photo in your storage file, Then press "ok" for continuing review video.

4.Delete

While reviewing(reviewing pictures/video),press "menu", then delete key will appear on the screen, Press "ok" to delete the displaying video or picture, and press the direction key right to choose deleting file, then press "ok" to confirm.

5.Slide Review

During review condition(play/record), you may select "menu" key, then press downwards button to set for "slide review". Then press "ok" to confirm.

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• Record when get power supply

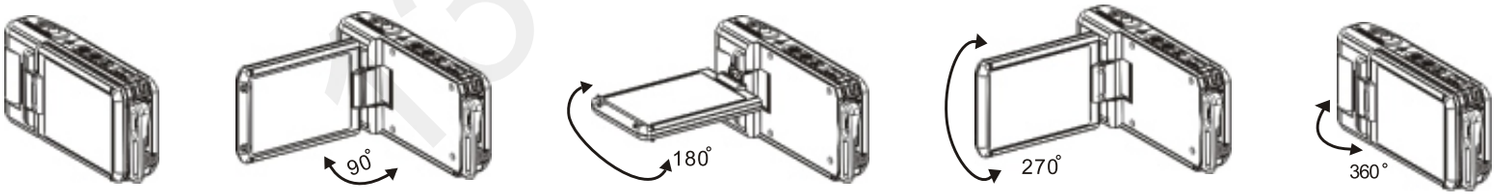
Connect USB power backup battery with the camcorder , then the screen appears as following , select the “POWER ON”, at this time can be used normally, which is charged from an external power supply (Not charging)

Tips : Any case, disconnect the USB, the camcorder will automatically shut down

• Screen sleep mode

In the photography or camera video capture mode , press left key , you can enter into the screen sleep mode , press left key once again reverted to the original mode.

• TFT display swivel instruction image



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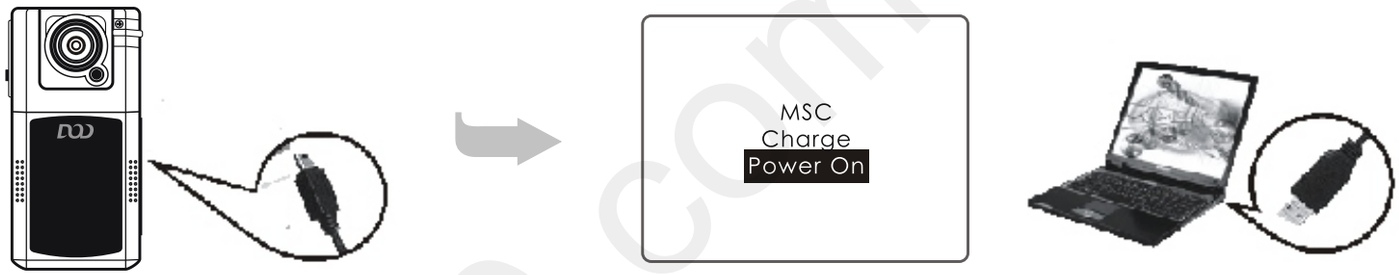
File backup

• USB backup Mode

With USB cable connected to the machine and computer, this time the screen appears as following: select "MSC", open the desktop "My Computer", there are two removable disks (one is internal memory, the other one is the SD memory card) : Under the "Removable Disk / DCIM/100MEDIA" path to find the stored movies. If you do not insert the SD card, internal memory corresponding to as a removable disk..



• Connecting F900LHD to TV

1.Connecting F900LHD to HDTV with an HDMI cable to review pictures and videos.

2.Connecting F900LHD to television with TV cable to review pictures and video.

Tips:

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

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Function keys

Video/camera mode

Power Button	Turn on or off F900LHD
Shutter Button	video recording / pause
Direction Button(Up)	1 / 2 / 3 / 4 Digital zoom (1080 P video recording can not be used)
Direction Button(Down)	4 / 3 / 2 / 1 Digital zoom (1080 P video recording can not be used)
Direction Button(Left)	Screen sleep mode
Direction Button(Right)	Transformation for LED light : Auto / Compulsion / Off
Menu Button	Menu option
Mode Button	Mode option
Playback Button	Pictures and video review

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Review Mode

Preview Mode(single-picture)

Power Button	Turn off F900LHD
Direction Button(Down)	Index graphical representation
Direction Button(Left)	Last page
Direction Button(Right)	Next page
Ok Button	video playing
Menu Button	Menu Option
Mode Button	Mode Option
Play back Button	Review pictures and video informations

Preview(index graphical representation)

Power button	Turning off F900LHD
Direction Button(Up)	Previous line / Last page
Direction Button(Down)	Next line / Next page
Direction Button(Left)	Last picture / video
Direction Button(Right)	Next picture / video
Ok Button	Enters the document broadcast pattern
Menu Button	Menu option
Mode Button	Mode option
Play back Button	Review pictures and video informations

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Mode &Menu Setting

Reviewing(Video/Audio)

Power button	Turning off video camera
Direction Button(Up)	Volume+(0-8)
Direction Button(Down)	Volume-(8-0)
Direction Button(Left)	Backward 2,4,8 times
Direction Button(Right)	Forward 2,4,8 times
OK Button	Play/Pause(no matter forward/backward)
Menu Button	Go to review menu
Mode Button	Stop playing and going into video mode
Play back Button	Review pictures and video informations

Reviewing(Pictures)

Power button	Turning off F900LHD
Direction Button(Down)	Zoom out(index pictures)
Direction Button(Left)	Last picture
Direction Button(Right)	Next picture
OK button	Go into Single picture play mode
Menu Button	Go to review menu
Mode Button	Stop playing and go into video mode
Play back Button	Review pictures and video informations

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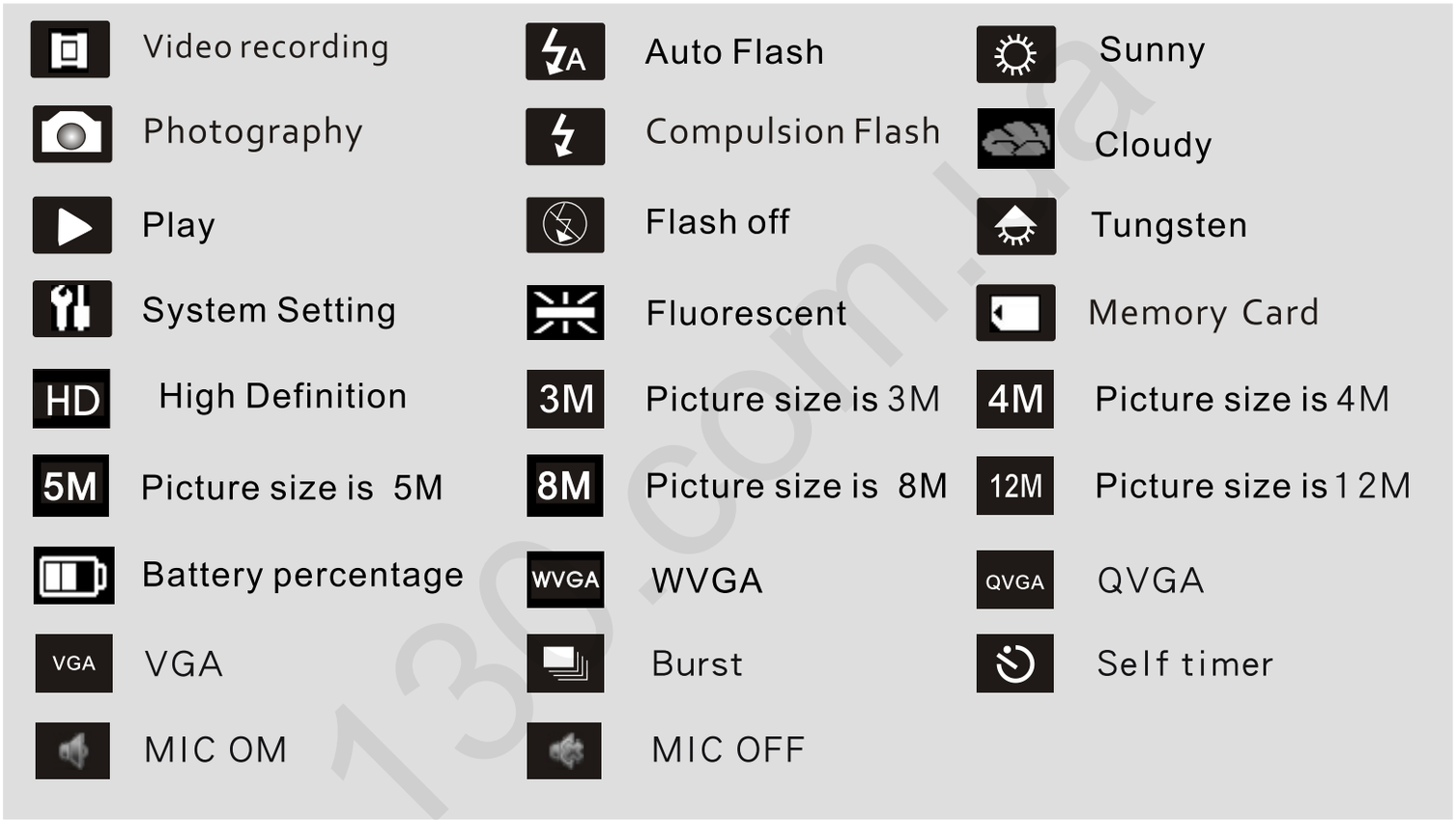
- While using this product, you will find a lot of symbols and icons. In order to enable you to understand this product, please refer to the following table



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Setting

	Mode	Menue	Setting	Note
Image Param	Video Recording	Video resolution	1920*1080/1440*1080/1280*720/848*480 /640*480/320*240	
		Scene	Auto/Night Portrait/Night Scenery/Sports /Landscape/Portrait/Sunset	
		Digital effect	Off/Art/Sepia/Negative/Monochrome/Vivid	
		White Balance	Aute/Incandescent/Sunny/Cloudy/Fluorescent	
		ISO	Auto/100/200/400/800/1600	
		EV	0/+0.3/+0.7/+1.0/+1.3/+1.7/+2.0/-2.0/-1.7/-1.3 /-1.0/-0.7/-0.3	
		Contrast	Standard/Hard/Soft	
		Sharpness	Standard/Hard/Soft	
		Duration	NO/15 minutes/30 minutes/45 minutes	
		Recycle record	NO/1 minutes/5 minutes/10 minutes/15 minutes /30 minutes/45 minutes	
		Usb in	NO/YES	NO：Connect USB, it will get into the USB menu settings YES：After connect USB, it will get into USB menu setting quickly and then it will automantically start recording after five seconds.
		Video FLIP	NO/YES	
		MOD SENS	Off/On	
	Pictures	Photo size	3M/4M/5M/8M/12M	
		Scene	Auto/Night Portrait/Night Scenery/Sports/ Landscape/Portrait/Sunset	
		Digital effect	Off/Art/Sepia/Negative/Monochrome/Vivid	
		White Balance	Aute/Incandescent/Sunny/Cloudy/Fluorescent	
		ISO	Auto/100/200/400/800/1600	
		EV	Standard/Hard/Soft	
		Contrast	Standard/Hard/Soft	
		Sharpness	1Pic/2Pics/3Pics	
		Burst	NO/3 seconds/5 seconds/10 seconds	
		Self timer	NO/3seconds/5seconds/10seconds	Press the picture button, after set the time will take pictures automatically
	Playback	Delete file	NO/Delete	
		Slideshow	NO/1Second/2Second/3Second/5Second/ 10Second/	
		Display all files	YES/NO	
System Setup		Volume	0/1/2/3/4/5/6/7/8/9/10	
		Flicker	50HZ/60HZ	
		Auto power off	Off/1 minute/3 minutes/5 minutes	Without action, after set the time will automatically power off
		TV out	NTSC/PAL	
		Stamp	Off/On	Video recording / pictures whether add into the time and date
		Date&Time	(0000:00:00 00:00)	
		Format storage card	NO/YES	
		Reset	NO/YES	
		Version	(V.0000 00 0000)	
		MIC	Off/On	
Language		English	日本語	
		简体中文	Русский	
		繁體中文	한국의	

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Specifications

Sensor	5 Mage pixels CMOS
Lens	7.0mm
Wide Angle Lens	120°
Focusing Range	10cm-infinity
Display	2.5"LTPS TFTLCD
Video output	HDMI:CTS 1.2Compliant , Support 1080i/720p output mode , Composite:NTSC/PAL
Still image	Stillimage(jpeg)Resolution：JPEG 4000x3000 Maximum output picture element:12M
Recording format	MOV
Recording resolution	1920x1080(30fps) 1440x1080(30fps) 1280x720(30fps) 848x480(60fps) 848x480(30fps) 640x480(30fps) 320x240(120fps) 320x240(30fps)
Video Codec	H.264
Zoom	4X Digital Zoom
Recording media	Internal:32 External:SDHC/MMC Card(Upto 32G SDHC Card)
Audio	Mic and Speaker(Mono)Equipped
Shutter button	Electronic shutter
Shutter speed	1/2 - 1/1000 second
White Balance	Auto/Sunny/Cloudy/Tungsten/Fluorescent
LED Light	Auto/LED On/LED Off
Port	USB 2.0/HDMI/TV
Battery	3.7V 1000mAh Rechargeable Lithium-ion Battery
USB	High Speed USB 2.0
Size/Weight	106.7(L)x53.9(W)x33.3(H)mm Weight:128g
Working humidity/ Temperature	-10℃～60 ℃ /10％～80％

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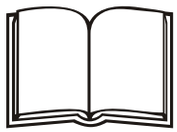
Accessories Contained

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

• Optional Accessories

F900LHD

F900LHD Pouch



User manual

Lithium-ion Rechargeable battery

Charger

HDMI cable

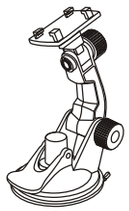
USB Cable

Hanging Strap

TV Cable (Optional)

SD Card (Optional)

Vehicle power charger (Optional)



Bracket (Optional)

Handle rope (Optional)

USB cable (long) (Optional)

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Troubleshooting

- **Cannot take pictures, videos and voice recording?**
  Change resolution, image quality, frame frequency; change for a memory card with enough space; check whether if the memory card is locked or not; delete part of files stored in the card.
- **Images cannot be transferred to HDTV screen?**
  Please make sure that the HDMI cable is completely plugged into TV'S HDMI port. Please use the HDMI cable comes along with the F900L HD.

- **Pictures and videos taken are not clear?**
  Please check if lens is covered with any dirty. If so, clean the lens before using it. Or check the focus zone if is Correct.

- **The flash LED cannot light on?**
  Under video or camera mode, if the battery is low, the flash LED cannot work.

Tips for operating F900LHD video camera is similar to computer.
If F900LHD video camera is not working, please operate as follow:
1.Take out battery, Re-insert the battery, Restart the video camera.
2.Press the reset button when F900LHD is unusual .
3.Please do not press the reset button while F900LHD is in the normal condition, data might get lost.

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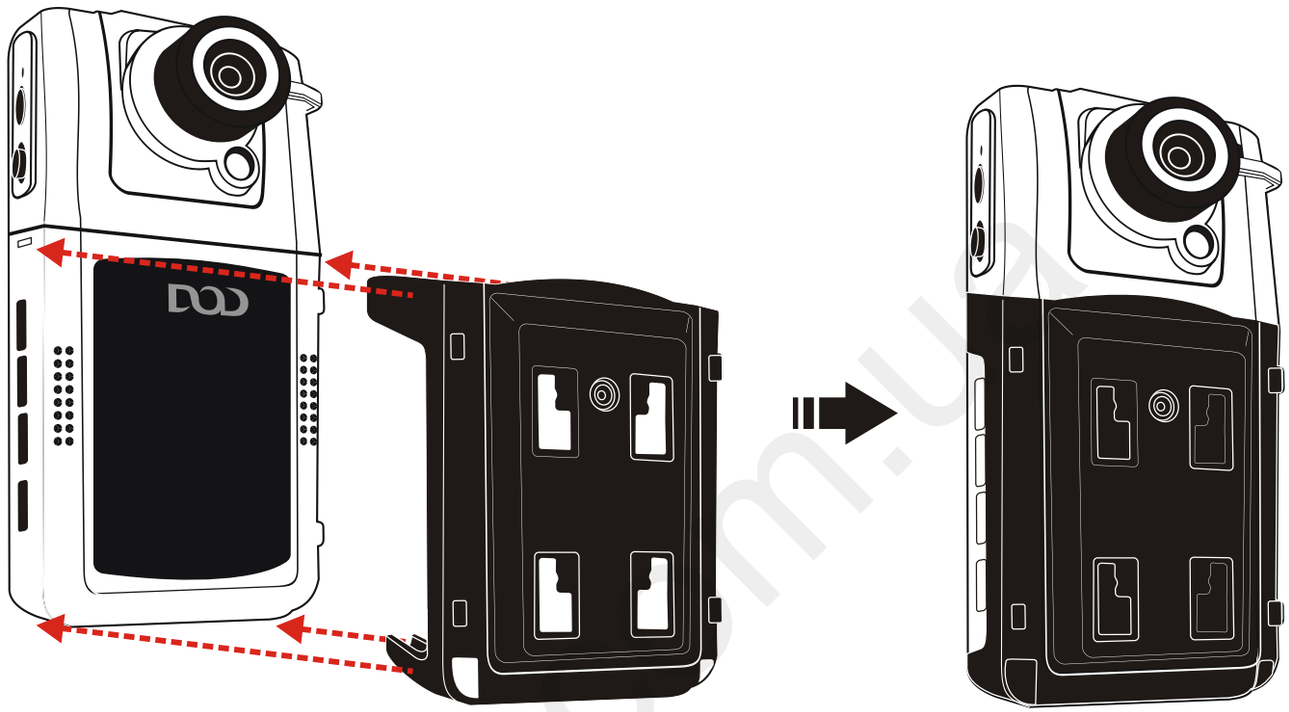
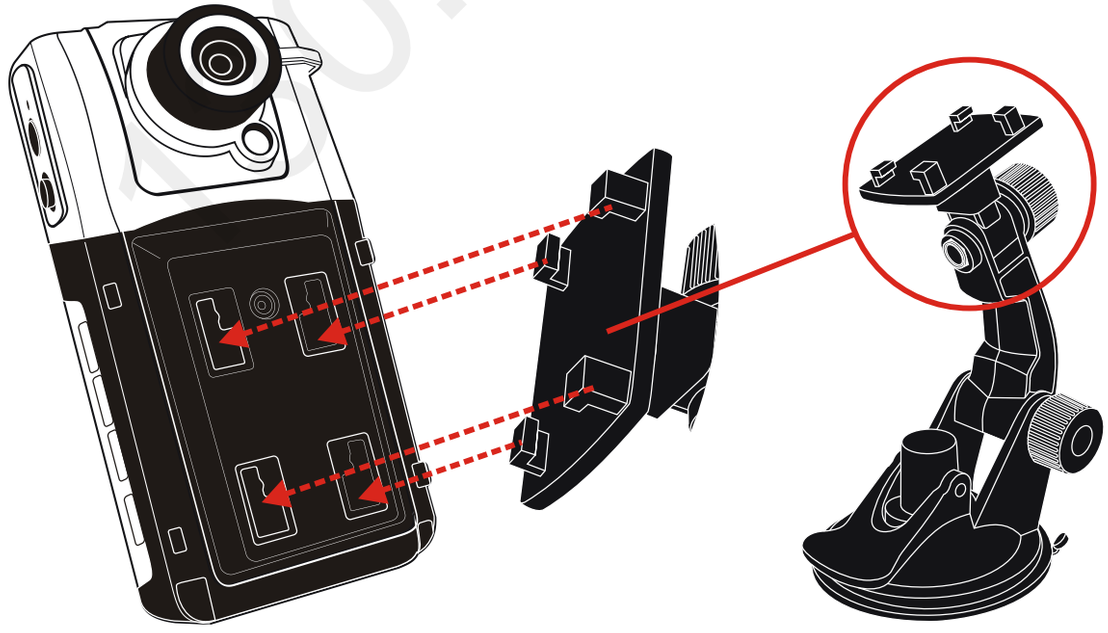
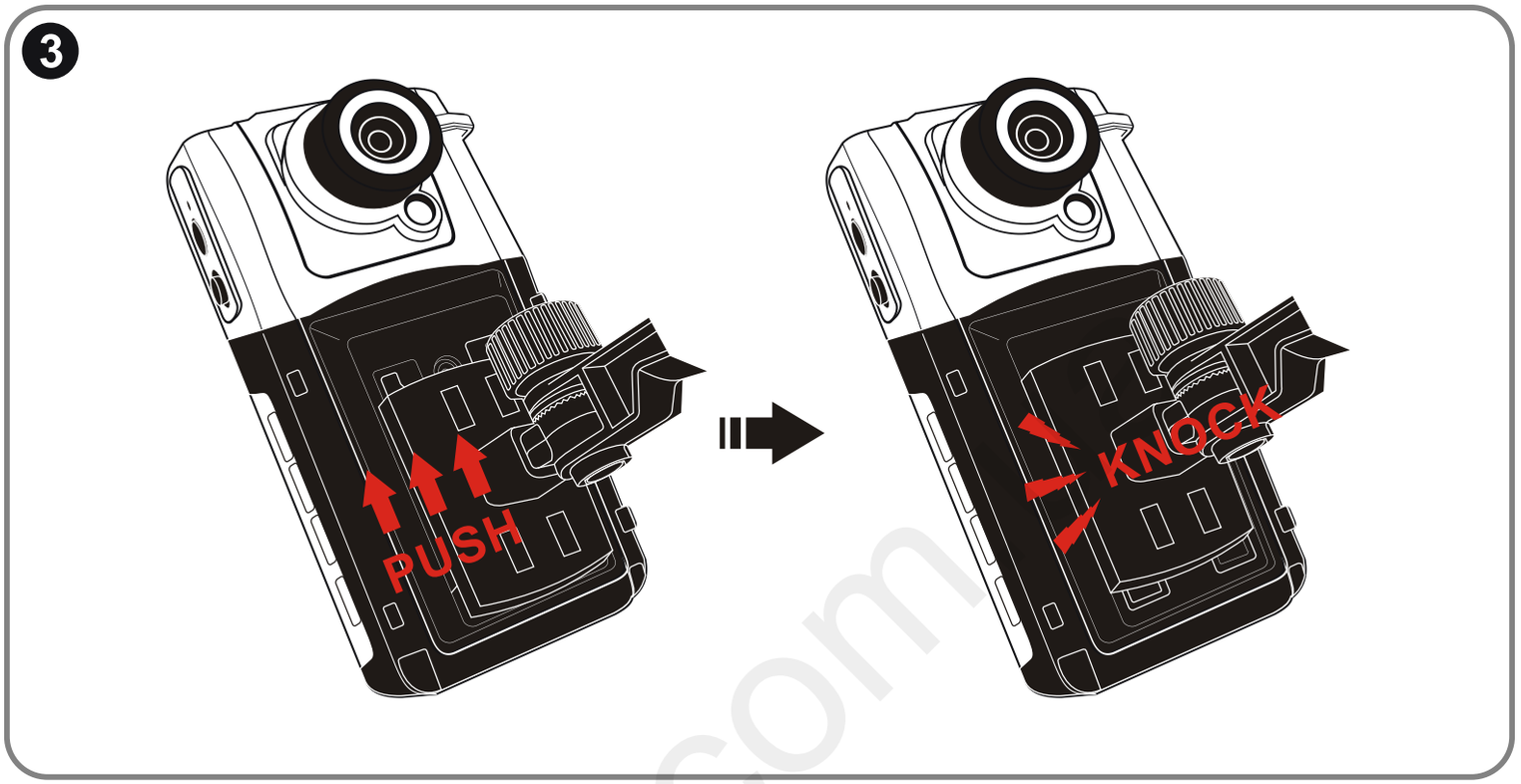
Installation instruction

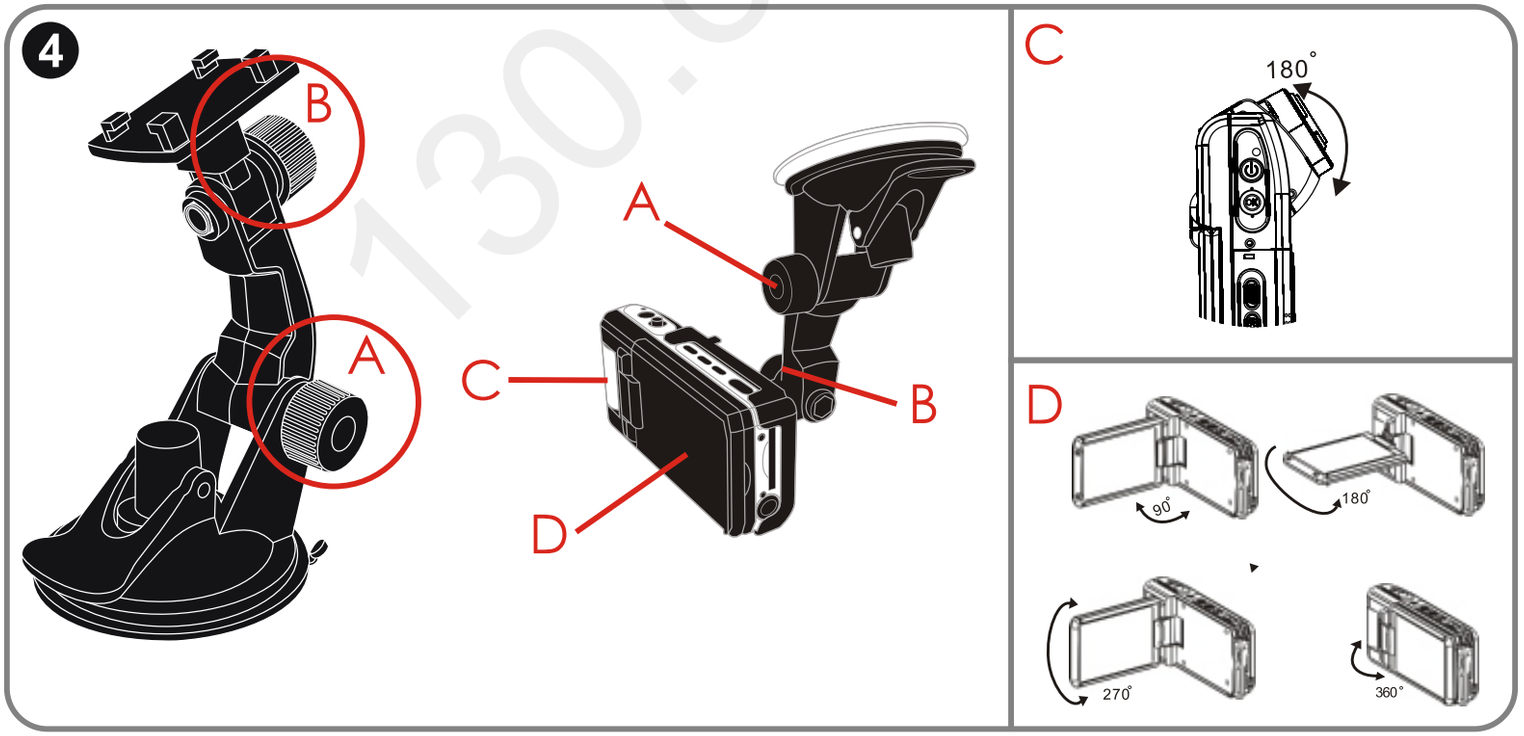
1



2







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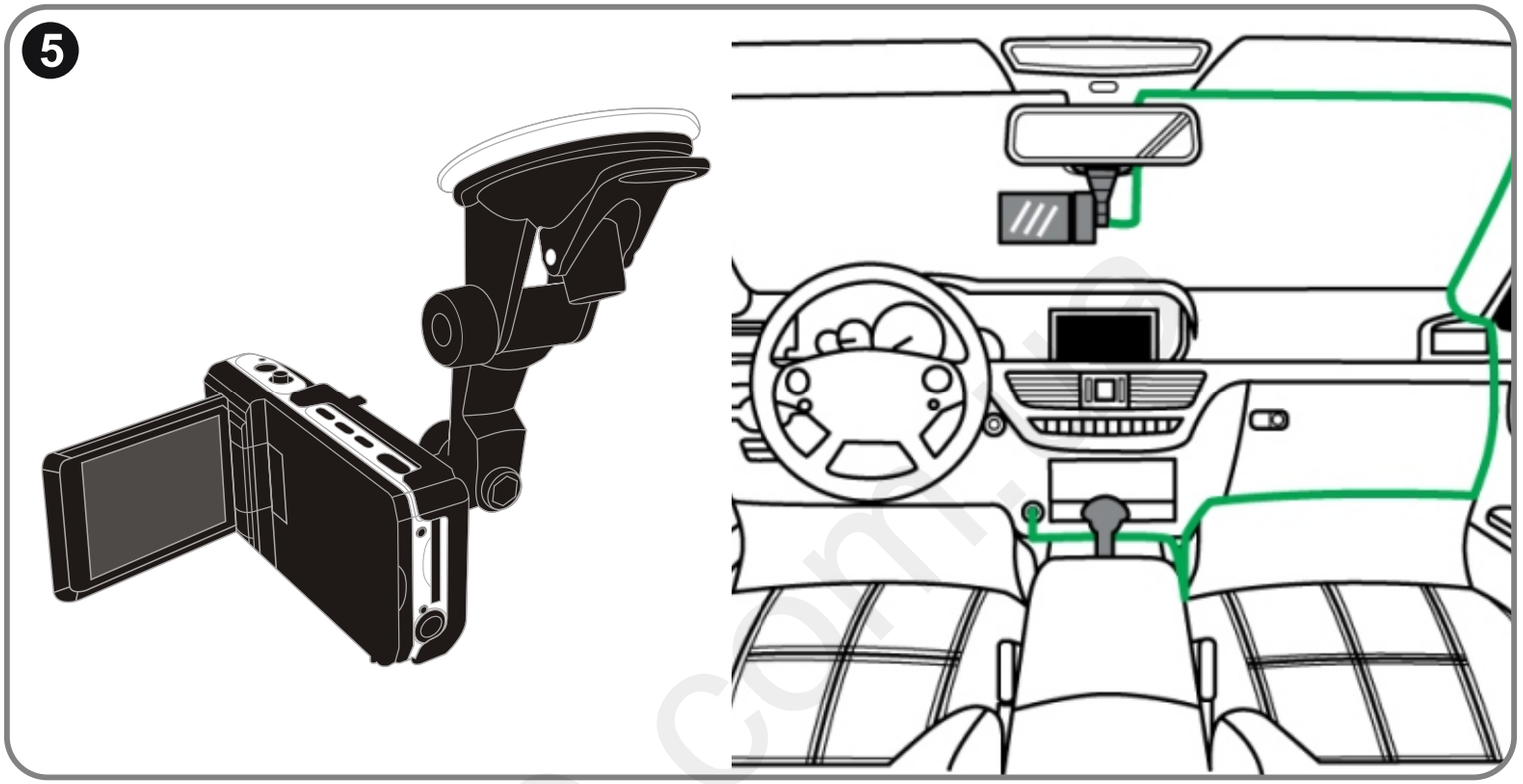

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