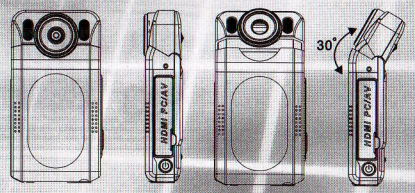
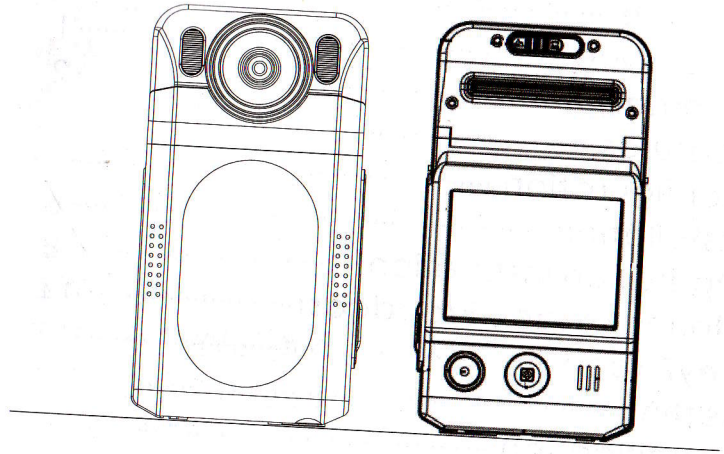


HDMI USB CE FC

HD DV

High Definition Video Camcorder

USER MANUAL



HD DV

High Definition Video Camcorder

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Preface

Thank you for purchasing this---- high definition digital camcorder. The Products appearance is mini with elegant impression. The unique swing type lens unitized design coordinates the multi-purpose uses, realizes the wide angle photography.

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 fully Understand before using the Product, keep this manual in the safe place. we hope our product could meet you standard. 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.

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 . . .

Features

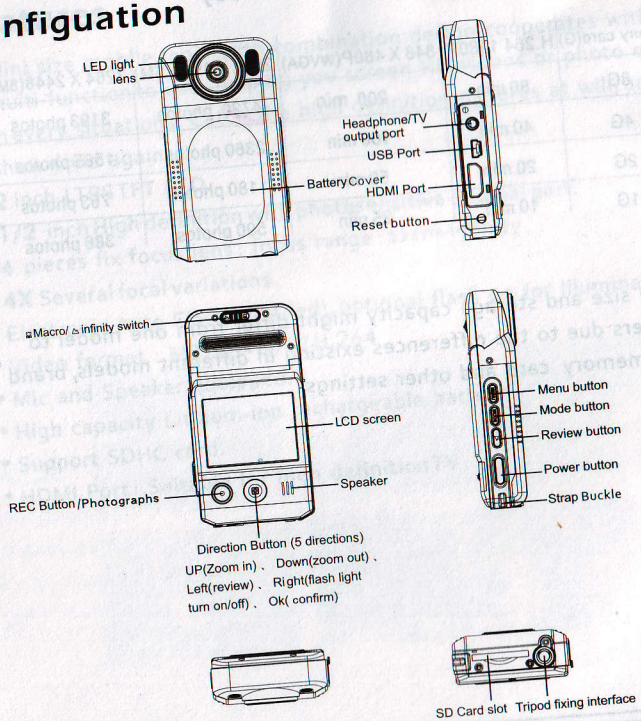
- Mini size mobile lens with combination design cooperates with multi-function to use, helping you screen HD videos or photo easily in every situations. Catch the high definition pictures at will, and show vivid again.
- **2** inch LTPS TFT LCD.
- **1/2** inch High definition with photosensitive original part.
- **4** pieces fix focus lens: focus range: 12cm-infinity.
- **4X** Several focal variations.
- 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.

Video Storage Capacity (for reference)

Memory card(G)	H.264 1080P	848 X 480P(WVGA)	2592 X 1944(5M)	3264 X 2448(8M)
8G	80 min	200 min	4720 photos	3193 photos
4G	40 min	100 min	2360 photos	1565 photos
2G	20 min	50 min	1180 photos	753 photos
1G	10 min	25 min	590 photos	386 photos

- 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.

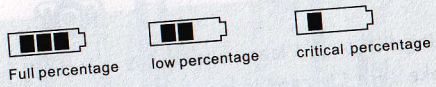
Configuation



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.



4. Battery cover must be open before take out the battery.

- **Charging the Battery**

1 Using the charger: One end of the USB cable connects the Charger and the other links the USB port of the camcorder. The charging will start when the camcorder is on.

Using USB cable to recharge: Connect USB cable to the computer USB slot could start charging the battery. While charging, the LCD screen will show "charging", after full charge, the screen will appear "charge completely", then the camcorder will turn off automatically.

- **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 card, Memory 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 insert to the right direction. Insert to direction it might cause damage to machine and SD card.
3. After SD card has been insert into the card slot, machine will automatically take SD card as default storage card, therefore all data stored before insert cannot be read until it has taken out.
4. If the memory card is not compatible with machine, the card might not be read. In this case, take out the card and insert it again or just change to another SD card.

- **Installing the Hanging Strap**

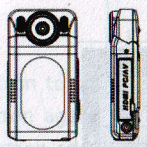
The ring in the camcorder is designed for hanging strap or buckle. Available for fashion style and convenience to use.

Operation Instructions

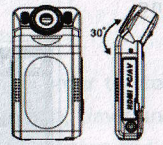
- **Turn on/off Machine Camcorder and Automatic shut-off setting**

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

2.Roatate lens as below:



(Figure 1)



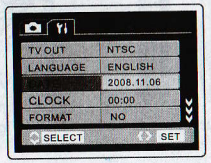
(Figure 2)

3.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 set time period, the machine will turn off automatically.

- Turn on machine, under any mode, press"menu"to Setting mode, then press direction key upwards and then press the right button. In order to choose menu" " press direction key to select "Auto off" and then press the right key to change the auto off period.

• Setting Date and Time

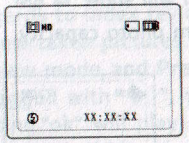
1.Turn on the power, under any mode, press "menu" to setting mode, press direction button upwards then turn rightwards to choose setting menu "[icon]", press the button downwards to select "Date/time", press the key rightwards again to confirm date/time, press"OK" in order to finish the setting.



2.Under video mode, press "MENU" button to enter set up mode. press direction button upwards then turn rightwards to choose setting menu "[icon]", Press down the direction button to select correct date and time for displacement.

• Video mode

1. Machine automatically goes to video mode after it is turn on. At this time "[icon] HD" appears upper left corner of the screen.



2.Press record button to start recording, in order to stop recording, press record button again. 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 "[icon]".

3.Options for flashing light

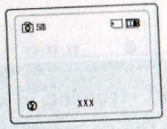
Press Speed flash switch button(right Key) at the Machine can start or stop using Auto Flash "[icon]" (which can automatically make up the light according to different conditions) or Fill "[icon]" (every time you take a picture, flash is used regardless of light conditions).

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

4. Using △ / 🌷 switch: under 🌷 macro mode for photography distance to close-up of small items, the effective distance is 12 cm, under △ infinity mode photography distance from 1.5 m to infinity.

• Photograph mode

1. Press power key to turn on Machine 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 Machine to the subject 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 "self-shoot", press rightwards to choose "self-shoot" 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 camera mode, press direction key leftwards could review the video or current photos.

• Review mode

1.Turn on machine to Video mode, Press review key to enter into single-picture review mode, Press direction key leftwards and rightwards to review pictures or videos.
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, Pressing "ok" again it will become to 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 delet display, 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.

• Setting mode

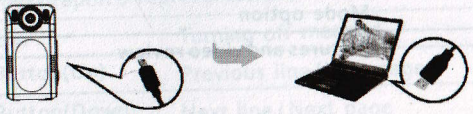
1.Regarding to video/ camera/ review Mode, press "Menu" button could enter into any corresponding setting menu.
(For details in setting information, please refer to the setting table).

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.

File backup

• USB backup Mode

Open "My computer" located on desktop from your computer, two removable disks can be found(one is internal storage, the other is external storage card); find the stored videos and pictures under "Removable hard disk/DCIM/**100**MEDIA", If SDHC Card has yet not been inserted into video camera, removable disk is an internal Machine storage; if SD card has been inserted into video camera, then the removable disk is SDHC card. Under memory card mode, date should be saved or transferred through, Windows system and files in video camera can be cut, copied and deleted through Windows system.



• Connecting Machine to TV

1.Connecting Machine to HDTV with an HDMI cable to review pictures and videos.
2.Connecting Machine to television with TV cable to review pictures and video.

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

Function keys

Video/camera mode

Power Button	Turn on or off machine
Shutter Button	video recording / pause
Direction Button(Up)	1 / 2 / 3 / 4 Digital zoom
Direction Button(Down)	4 / 3 / 2 / 1 Digital zoom
Direction Button(Left)	Fast switch to browerse picture video informations
Direction Button(Right)	Transformation for LED light : Auto / Compulsion / Off
Menu Button	Menu option
Mode Button	Mode option
Playback Button	Pictures and video review

Review Mode

Preview Mode(single-picture)

Power Button	Turn off machine
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 machine
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

Mode &Menu Setting

Reviewing(Video/Audio)

Power button	Turning off video camera
Direction Button(Up)	Volume+(o-8)
Direction Button(Down)	Volume-(8-o)
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 machine
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

• 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

Video recording	Auto Flash	Sunny
Photography	Compulsion Flash	Cloudy
Play	Flash off	Tungsten
System Setting	5M Picture size is 5M	Fluorescent
Memory Card	8M Picture size is 8M	HD High Definition
Battery percentage	WVGA WVGA	

Mode	Menu	Setting
Video Recording	Size	1920*1080/1440*1080/1280*720/848*480
	EV	+0/-0.3/-0.7/-1/-1.3/-1.7/-2/+2.0/ +1.7/+1.3/+1/+0.7/0.3
	White B	Auto/Sunny/Cloudy/Tungsten /Fluorescent
	Contrast	Standard/Hard/Soft
	Sharpness	Standard/Hard/Soft
	Effect	Vivid/monochrome/negative /sepia/art/off
	Duration	No/15min/30min/45min
	Recycle	On/15min/30min/45min
pictures	Size	8M/5M
	EV	+0/-0.3/-0.7/-1/-1.3/-1.7/-2/+2.0/ +1.7/+1.3/+1/+0.7/0.3
	Quality	Fine/good/normal
	White B	Auto/Sunny/Cloudy/ Tungsten Fluorescent
	Contrast	Standard/Hard/Soft
	Sharpness	Standard/Hard/Soft
	Effect	Off/Art/Sepia/Negative/Monochrome/Vivid
	Selftimer	No/Yes
	Burst	No/3pics/5pics/10pics
Review	Delete	No/Yes
	Slide Show	No/1Second/3Second/5Second
System	Volume	0/1/2/3.....8
	Language	English/ Chinese
	Date	Y/M/D
	Clock	Y/M/D/T
	Format	Cancel/Yes
	Sys.reset	No/Yes
	Auto off	Off/1minute/3minute/5minute
	Light freq	50HZ/Auto/60HZ
	Stamp	Off/on
	Version	V.0000 00 0000

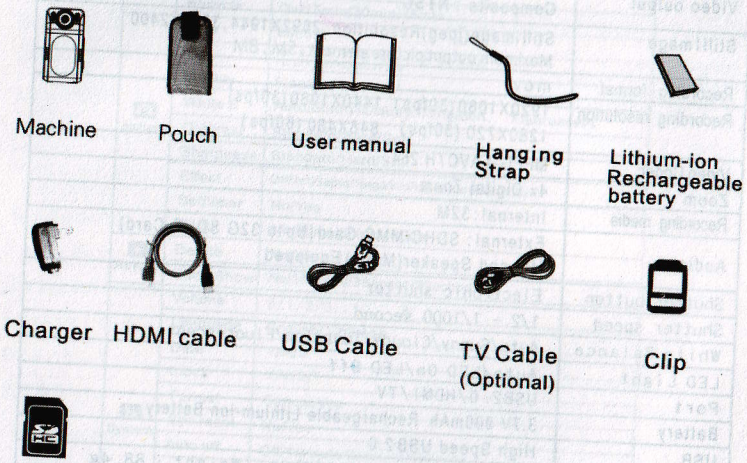
Specifications

Sensor	5M CMOS sensor
Lens	4 Pieces fix focus lens, 7.45mm
Focusing Range	12cm-infinity
Display	2.0"LTPS TFTLCD
Video output	HDMI: CTS1.2 Compliant, Support 1080i/720p output mode, Composite : NTSC
StillImage	Stillimage(jpeg)Resolution: 2592X1944, 3200X2400 Maximum output picture element: 5M, 8M
Recording format	mov
Recording resolution	1920X1080(30fps) 1440X1080(30fps) 1280X720(30fps) 848X480(60fps)
Video Codec	MPEG-4 AVC/H.264
Zoom	4x Digital Zoom
Recording media	Internal: 32M 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	USB2.0/HDMI/TV
Battery	3.7V 900mAh Rechargeable Lithium-ion Battery
USB	High Speed USB2.0
Size/Weight	98.7(L)X53.3(W)X23(H)mm Weight : 88.4g
Working humidity /Temperature	10%~80%/ 0℃~40℃

Accessories Contained

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

- **Optional Accessories**



Machine | Pouch | User manual | Hanging Strap | Lithium-ion Rechargeable battery

Charger | HDMI cable | USB Cable | TV Cable (Optional) | Clip

SD Card

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 Machine.
- **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
Machine video camera is similar to computer. If Machine 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 Machine is unusual .
3.Please do not press the reset button while Machine is in the normal condition, data might get lost.