

Table of Contents

Pre face.....	1
Assurance.....	1
Summary.....	2
Features.....	3
Configuration.....	4
Installation.....	5
Operating Instruction.....	6-8
Storing & Review.....	9
Key&Icon.....	10-11
Setting.....	12
Specification.....	13
Accessories Contained.....	14
Troubleshooting.....	15

Preface

Thank you for purchasing HDDV-MF504,high definition digital camcorder. Its mini exquisite special mobile Lens combined design cooperating with multi-function Could help you screen wide poin of view.

This user manual will give you full instruction of using the product , and also provide you information of the product in detailsuch as operation ,Specification please read this manual carefully and fully Understand before using the Product ,please keep this manual well , we hope our product could satisfy your heed and wish to serve You for long-term.

Assurance

This product has passed ISO 9001:2000 international standard and achieve all the standards set by the authorities of FCC,CE &SGS and got certificates from them.

Summary

This high-tech mini HD digital camcorder is designed for the Demand of the market ,This product has the most leading functions of the industry such as HD digital video,digital photo, USB data transfer,USB charger,It uses Multinomial inventions and patent as well.

Large range of application,memorize every wonderful moment.



Features

- >Mini size mobile lens combination design cooperates with multi-function to use,helping you screen HD videos or photos easily in every situation. Catch the high definition pictures at will,and show vivid again;
- >2 inch LTPS TFT LCD;
- >4 Element fix focus lens;focus bound :1.5m-∞; Macro:0.2m;
- >4X digital zoom;
- >Electronic Auto Flash light(led),optional flash on for illumination;
- >Video format:MPGE-4/Mov;
- 1080 30P:Shoot HD (high definition)quality movies in sizes suited for display on computer or high definition TV;
- 720 30P: Shoot HD(high definition) quality movies in sizes suited for display on computer;
- WVGA 60P: Shoot HD(standard defintion) quality movies in sizes suited for uploading on websites;
- >Mic and Speaker equipped,with playing function of Video;
- >High capacity Lithium-ion rechargeable battery;
- >Support SDHC card ;
- >HDMI Port:Suited for display on high definition TV directly.

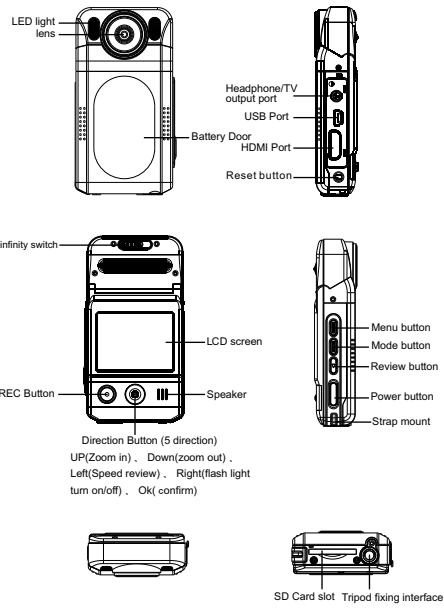
Video Storage Capacity (for reference)

Storage card(G)	H.264 720P(A)	H.264 1080P(B)	848 X 480P(WVGA)	2592 X 1944(5M)	3264 X 2448(8M)	3264 X 2448(12M)
8G	160 min	80 min	200 min	4720 photos	3193 photos	2400 photos
4G	80 min	40 min	100 min	2360 photos	1565 photos	1200 photos
2G	40 min	20 min	50 min	1180 photos	753 photos	600 photos
1G	20 min	10 min	25 min	590 photos	386 photos	300 photos

* File size and storage capacity might differ from one camera to camera due to the differences existing in shooting subjects,brand of storage card and other settings.

* A, B refers to two different type of camcorder.

Configuration



OPERATING INSTRUCTION

◆ Inserting and Taking out battery

1. open battery door by pushing it down.
2. Insert battery according to the "+" - " marks printed on camera.
3. Please refer to the following diagrams for battery status information.



4. To take out the battery slide the battery door open.

◦ Charging the Battery

- 1) Using the charger: One end of the USB cable connects the charger and the other links to the USB port of the camcorder. The charging will start under the camcorder is on.
- 2) Using the USB cable: Connecting the USB cable to the computer could start charging the battery as well while charging, the LCD screen will show "charging". After full charge, the screen will appear "charge complete", the camcorder will turn off automatically.

◆ Inserting & Taking out Storage Card (SDHC card)

1. Carefully insert the storage card into the card slot according to the diagram shown below until the card is tightly seated in the slot.
2. To remove the card, push the card in, and then release it, when the card is partially rejected then pull it out.

Note:

1. Before using SD card, please check whether it is locked;
2. Please make sure SD card is oriented in the right direction. Inserting SD card in the wrong direction might cause damage to the HDDV and the SD card;
3. After the SD card has been inserted into the card slot, HDDV will automatically take this SD card as default storage card and all the data stored before the insert cannot be read until it is taken out.
4. If the storage card is not compatible with the HDDV, the card might not be compatible with the HDDV, the card might not be read. In this case, take out the card and insert it again or just change it with another SD card.

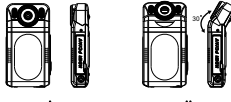
◆ Installing the hand strap

The ring in the camcorder is designed for installing hand strap or buckle. Once it is done, it makes the camcorder more convenient.

OPERATING INSTRUCTION

◆ Turning on/off the HDDV Camcorder and Setting Auto off

- 1). Press power button for 1 second to turn on/off.
- 2). Rotate the lens as below:



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

- ◆ Turn on the HDDV, under any mode, press "menu" to go to Setting mode, press direction key upwards then rightwards in order to choose setting menu "f1", press the direction key to select "Auto off", press the key rightwards could change the auto off period.

◆ Setting Date and Time

- 1) Turn on the Power, under any mode, press "menu" to go to Setting mode, press direction button upwards then rightwards to choose setting menu "f1", 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 step up mode, press direction button upwards then rightwards to choose setting menu "f1", Press down the direction button to select "stamp" to set recording date and time on or off.

OPERATING INSTRUCTION

◆ Video mode

- 1 HDDV automatically goes to video mode after it is turn on. At this time, "HD" appears the upper left corner of the screen.



- 2 Press shutter button to start recording. To stop recording, press shutter button again. During recording, timer and "REC" shown on the screen turn to blinking red circle to time the recording. As soon as the recording stops, the blinking red circle turns back to the "HD".

3 Selection of the led light

Pressing Speed flash switch button (rightwards of direction key) at the HDDV can start or stop using Auto Flash "A" (which can automatically compensate light according to lighting condition) or Fill "F" (every time you take a picture, flash is used regardless of light conditions).

Remark: LED light function will automatic turn off when the battery at critical percentage.

- 4 Using Δ / \square switch: under \square macro mode for shooting the close-up of small items, the effective distance is 0.2 m, under Δ infinity mode shoot subjects from 1.5m to infinity.

◆ Camera mode

- 1 Press power key to turn on the HDDV and it will go to video mode automatically. Press "mode" switch to the camera mode. The upper left corner of the screen will show "8M" and the bottom of the screen will display the maximum photo capacity.



- 2 Alignment the HDDV to the subject which to be taken, using direction key upwards and downwards in order to adjust focus.

OPERATING INSTRUCTION

3 While pressing shutter button, camera makes a sound, the sound signifies that the shooting 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 left wards could review the video or photo just took.

◆ Review mode

1) Turn on the HDDV to go to Video mode, Press review key to enter into single-picture review mode, Press direction key Leftwards and rightwards to review pictures or video taken.

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

• If the displayed picture is tagged with "Ⓢ", then it is a video, Pressing "ok" will play the video, Pressing "ok" again it will come to pause. While playing video, you can use direction key leftwards or right wards to for ward or backward playing, To exist playing mode, you haced to press "ok" to pause the playing video first, and then press direction key leftwards or rightwards 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 and press shutter button, until the sound coming out, this "current picture" will recorded to be a photo in your storage. Then press "ok" for continuing review video.

4) Delete

While reviewing (reviewing pictures/video), press "menu", delete Menu will appear on the screen, Press "ok" to go to deleting display, Press the direction key rightwards to choose deleting file, press "ok" to confirm.

◆ Setting mode

1) Regardless of video/camera/review Mode, pressing "Menu" could Mode, pressing "Menu" could enter each corresponding setting Menu. (For detailed setting information, please refer to setting table).

2) At any menu mode, pressing direction key rightwards will enable user to go to menu setting options to choose desired setting, then press "ok" to confirm.

File storing


◆ USB Storage 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/100MEDIA". If SDHC card has not been inserted into video camera yet, removable disk is internal HDDV storage; if SD card has been inserted into video camera, the removable disk is SDHC card. Under Storage card mode, data can be saved or transferred through Windows system and files in video camera can be cut, copied and deleted through Windows system.



◆ Connecting HDDV to TV

- 1) Connecting HDDV to HDTV with an HDMI cable to review pictures and videos.
- 2) Connecting HDDV to television with the TV cable to review pictures and videos.

 Tip: No drive is needed to be installed. U disc can only be used when the video camera is on.

Functions of keys

◆ Video/ camera mode	
Power Button	Turning on or off HDDV
Shutter Button	Take Videos/Pause take videos/Take picture
Direction Button (Up)	1/2/3/4 Digital zoom
Direction Button (Down)	4/3/2/1 Digital zoom
Direction Button (Left)	Speedy switch to browse taken video and picture
Direction Button (Right)	Switching LED light: Auto/Fill/Off
Menu Button	Menu Selection
Mode Button	Mode Selection
Playback Button	Review taken videos and pictures



















◆ Review Mode	
● Preview (single-picture)	
Power Button	Turn off HDDV
Direction Button (Down)	Index pictures
Direction Button (Left)	Last picture
Direction Button (Right)	Next picture
Ok Button	Playing video
Menu Button	Menu Selection
Mode Button	Mode Selection
Playback Button	Review taken videos and pictures
● Preview (Index pictures)	
Power Button	Turning off HDDV
Direction Button (Up)	Last line/Last page
Direction Button (Down)	Next line/Next page
Direction Button (Left)	Last picture/video
Direction Button (Right)	Next picture/video
Ok Button	Going into single file play mode
Menu Button	Menu selection
Mode Button	Mode selection
Playback Button	Review taken videos and pictures

Mode&Menu Stting





● 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 2,4,8times
Direction Button (Right)	Forward 2,4,8times
Ok Button	Play/Pause(Regardless of backward or forward)
Menu Button	Going to review menu
Mode Button	Stop playing and go into mode selection
Playback Button	Review taken videos and pictures

● Reviewing (Pictures)	
Power Button	Turning off HDDV
Direction Button (Down)	Zoom out (index pictures)
Direction Button (Left)	Last picture
Direction Button (Right)	Next picture
OK Button	Going into Single picture play mode
Menu Button	Going to review menu
Mode Button	Stop playing and go into video mode
Playback Button	Review taken videos and pictures

★ While using this product, you will find a lot of symbols and icons. In order to you can better use this product, please refer to the following table.

 Taking videos	 Auto Flash	 Sunny
 Taking pictures	 Fill Flash	 Cloudy
 Play	 Flash off	 Tungsten
 System Setting	 Picture size is 5M	 Fluorescent
 Storage card	 Picture size is 8M	 High Definition
 Battery percentage	 Picture size is 12M	 WVGA

Mode&Menu Stting

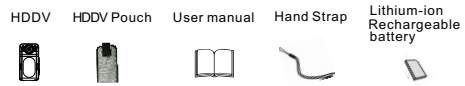
Mode	Menu	Setting	Note
 Taking Videos	Size	1920*1080/1440*1080/1280*720/848*480	
	EV	+9/-9, 3/-3, 1/-1, 3/-1, 1/-1, 1/-2/+2, 0/+1, 1/+1, 3/+1/+0, 1/0, 3	
	White B	Auto/Sunny/Cloudy/Tungsten/Fluorescent	
	Contrast	Standard/Hard/Soft	
	Sharpness	Standard/Hard/Soft	
	Effect	Vivid/monochrome/negative/sepia/art/off	
	Duration	No/15min/30min/45min	
	Recycle	On/15min/30min/45min	
 pictures	Size	8M/5M	
	EV	+9/-9, 3/-3, 1/-1, 3/-1, 1/-1, 1/-2/+2, 0/+1, 1/+1, 3/+1/+0, 1/0, 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	000 00 00	
	Clock	00:00	
	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

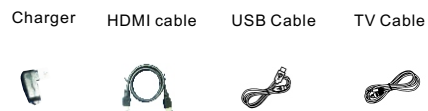
Sensor	5M CMOS sensor
Lens	4 Elements fix focus lens,Focus from1.5m infinity
Zoom	4X Digital Zoom
L Display	2.0" TFT LCD
Video Output	HDMI:CTS1.2 Compliant,Support 720P/1080I output mode, Composite:NTSC
Picture	Picture Format: JPEG 2592 X 1944 interpolation:8M
Video	Format: MPEG-4/MOV HD=H.264 720P (30 Fps 6 Mbps) (A) H.264 1080P (30 Fps 12 Mbps)(B) WVGA:848 X 480 (60 Fps 8 Mbps) VGA:640 x 480 (30 Fps 2Mbps) QVGA:320 x 240 (30 Fps 2Mbps)
Audio	Mic and Speaker(Mono)Equipped
Storage	Internal: 32M External : SDHC card
Shutter Button	Electronic shutter
Shutter Speed	1/2 -1/1000 second
White Balance	Auto/Sunny/Cloudy/Tungsten/Fluorescent
Flash Light	Electronic Auto Flash Light (LED),Optional flash on for illumination
Port	USB 2.0/HDMI/TV
Battery	3.7V 900mAh lithium-ion rechargeable
Size/Weight	Length98.7×Width53.3× Height23 88.4g
Working Humidity/ Temperature	0°C - 40°C / 10% - 80%

Accessories Contained

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



* Optional Accessories



Driver and Editing Software



Troubleshooting

- ◆ **Cannot take pictures, videos and record voice?**
Change resolution, image quality, frame frequency; change for a storage card with enough space; check whether the storage card is locked or not; delete part of files stored in the card.
- ◆ **Images cannot be transferred to HDTV screen?**
Please make sure that HDMI cable is completely plugged into TV'S HDMI port. Please use the HDMI cable comes along with the HDDV.
- ◆ **Pictures and videos taken are not clear?**
Please check whether lens is covered with any dirty. If so, clean the lens before using it. Or check whether the focus zone is Correct.
- ◆ **The flash LED can not light on?**
Under video or camera mode, if the battery is low, the flash LED can not work.

Tips for operating

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

1. Take out battery, Re-insert the battery, Restart the video camera.
2. Press the reset button when HDDV in unusual circumstance to reopen The HDDV.
3. Please do not press the reset button when HDDV in the Normal condition, That might Obliterated data.