

HDV527W

User's Manual

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Thank you for purchasing this product. Please read these operating instructions carefully in order to use the digital video camera correctly. Keep the instructions in a safe place after reading so that you can refer to them later.

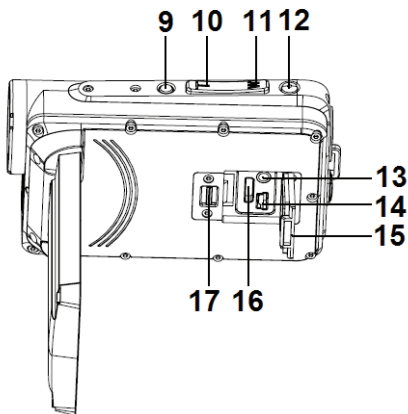
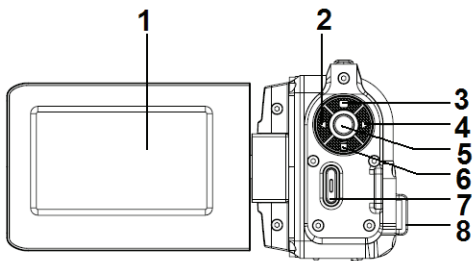
Precautions

Before using the camcorder, please ensure that you read and understand the safety precautions described below.

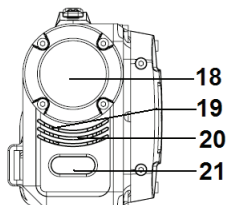
- Do not try to open the case of the camcorder or attempt to modify this camcorder in any way. Maintenance and repairs should be carried out only by authorized service providers.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.
- This camcorder can be used up to 3 meters underwater.

1. Parts of the camcorder

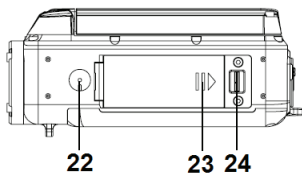
- 1: LCD screen
- 2: Left/Mode button
- 3: Up/Playback button
- 4: Right/Self-timer button
- 5: OK/MENU button
- 6: Down/Delete button
- 7: Shutter button
- 8: Strap
- 9: Power button
- 10: T/Zoom in button
- 11: W/Zoom out button
- 12: LED button
- 13: AV out jack
- 14: USB jack
- 15: Jacks cover
- 16: HDMI jack
- 17: Cover lock



- 18: Lens
- 19: Speaker
- 20: Microphone
- 21 Camera Light



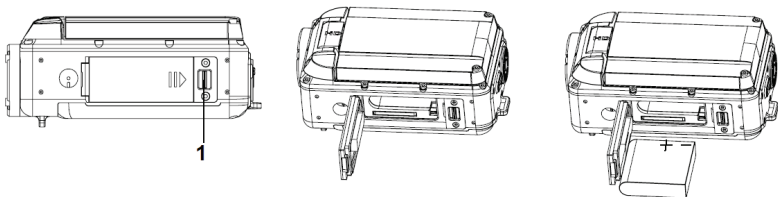
- 22 Tripod socket
- 23 Battery cover
- 24 Cover lock



2. Preparing for using

Installing the Battery

1. Push the lock on the battery cover (1) to the right to open the battery cover.
2. Insert Lithium-ion battery into the compartment. Note that the metallic contacts must be aligned with the contacts in the compartment.
3. After the battery is properly installed, close the battery cover.



Charging the battery

When the battery level is low please charge the battery.

- 1: Turn the camcorder power off .
- 2: Connect the camcorder and PC via the attached USB cable. When the battery is being charged the charger lamp will light blue.
- 3: When the charge is completed the charger lamp turns off. Disconnect the camera and the PC.

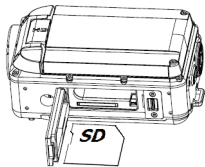
Caution:

- It is normal that when it is charging the camera body is warm.

Inserting the Memory Card


If you want record more you have to use a SD or MMC card. Turn off the camcorder before inserting or removing the memory card. Be sure to orient the card correctly when inserting it. Never try to force the memory card into the slot when you feel resistance. The SD memory card has a write protect switch, which used to protect data from accidental deletion. Therefore, whenever you want to record, format or delete files in the SD card, disable the write protection beforehand.

1. Turn off the camcorder.
 2. Push the lock on the battery cover to the right to open the battery cover.
 3. Insert the memory card as illustrated.
 4. After the memory card is properly inserted, replace the battery cover.
- **To release the memory card press the edge of the card gently in.**




Format the memory card

It is important to format the memory card when it is the first time you use this camcorder. All data will be deleted including protected files. Be sure to download important files to your computer before formatting.

- 1: Turn the power on, press the **OK/MENU** button to display the menu, and then press the **RIGHT** button to select [Setup ]. Press the **OK** button to display the setup menu list.
- 2: Press the **UP** or **DOWN** button to select [**Format**] then press the **RIGHT** or **OK** button to launch the submenu.
- 3: Press the **UP** or **DOWN** button to select the item [YES] and then press the **OK** button to erase all data.
- 4: Press the **LEFT/MODE** button three times to close the menu.

Setting the Language


When using the camcorder for the first time after purchasing it, be sure to choose a language and set the date & time before using the camcorder.

- 1: Turn the power on, press the **OK/MENU** button to display the menu, and then press the **RIGHT** button to select [Setup ].
- 2: Press the **UP** or **DOWN** button to select [**Language**] and then press the

RIGHT or **OK** button to launch the submenu.

- 3: Press the **UP** or **DOWN** button to select the desired language and then press the **OK** button to confirm the setting.
- 4: Press the **LEFT/MODE** button three times to close the menu.

Setting the date and time

- 1: Turn the power on, press the **OK/MENU** button to display the menu, and then the **RIGHT** button to select [Setup ], press **OK** button to launch the submenu.
 - 2: Press the **UP** or **DOWN** button to select [**Time Setup**] then press the **RIGHT** or **OK** button to display the year, month, date, hour, minute.
 - 3: Press the **UP** or **DOWN** button to change the highlighted value. Press the **LEFT** or **RIGHT** button to move the cursor between settings.
 - 5: Press the **OK** button to confirm the setting.
 - 6: Press the **LEFT/MODE** button three times to close the menu.
- **The date and time can be added to still images by setting the function [Date Stamp] in capture menu.**

3. Using the camcorder

Turning the Camcorder On and Off




1. Open the LCD screen to turn on the camcorder.
2. Close the LCD screen to turn the camcorder off.

Attention: You can also press Power button to turn the camcorder on/off.

To save battery power, the camcorder will automatically turns off 1/3/5 minutes after the last control accessed. You can change the power-off time by setting the function [Auto Power off] in the Setup menu.

Change the record mode

There are three modes in this camcorder. Press the **LEFT/MODE** button to change the mode, each time the **LEFT/MODE** button is press the mode is changed.

Display	Title	Description
	Capture mode	For taking still photos.
	Video mode	For recording movie clips.
	Audio mode	For recording audio files.

Press the UP/PLAYBACK button to navigate and preview movie clips in the movie folder, photos in the photo folder and audio files in the audio folder. Press the Shutter button to enter video record mode.

Recording a video clip

1: Turn on the camcorder and set the camcorder to video record mode



2: Zooming:

Press the **T** or **W** button to zoom in or zoom out the subject. The value of

magnification level appears on the LCD monitor.

3: Press the **SHUTTER** button to start recording.


4: Press the **SHUTTER** again to end the recording. If the memory is full the video camera will stop recording automatically.

- **On the bottom of the LCD monitor displays the recorded time.**
- **When the light is insufficient press the LED button to turn on the camera light. Press it again to turn the light off.**

Setting the quality

1: Turn on the camcorder and set the camcorder to video record mode



2: Press the **OK/ MENU** button to display the setup menu. The [Video ] menu is selected.

3: Press the **OK** button to enter the menu.

4: Press the **UP** or **DOWN** button to select [Quality].

5: Press the **OK** button to enter the submenu.

6: Press the **UP** or **DOWN** button to change the quality: [Super fine]/[Fine]/

[Normal].


7: Press the **OK** button to confirm the setting.

8: Press the **LEFT/MODE** button twice to close the menu.

Setting the resolution

1: Turn on the camcorder and set the camcorder to video record mode



2: Press the **OK/MENU** button to display the setup menu. The [Video ] menu is selected.

3: Press the **OK** button to enter the menu.

4: Press the **UP** or **DOWN** button to select [Resolution].


5: Press the **OK** button to enter the submenu.

6: Press the **UP** or **DOWN** button to change the resolution: [720P30]/
[WVGA60].



7: Press the **OK** button to confirm the setting.

8: Press the **LEFT/MODE** button twice to close the menu.

Taking still images



1. Set the camcorder to capture mode, the icon  appears on the LCD screen.
 3. Zooming:
Press the **T** or **W** button to zoom in or zoom out the screen. The zoom bar appears on the LCD monitor.
 5. Hold the camcorder steady and then press the **SHUTTER** button down to take a picture.
- **When the light is insufficient press the LED button to turn on the camera light. Press it again to turn the light off.**

Setting the quality

- 1: Turn on the camcorder and set the camcorder to capture mode ().
- 2: Press the **OK/MENU** button to display the setup menu. The [Photo ] menu is select.
- 3: Press the **OK** button to enter the menu.
- 4: Press the **UP** or **DOWN** button to select [Quality].

- 5: Press the **OK** button to enter the submenu.
- 6: Press the **UP** or **DOWN** button to change the quality: [Super fine]/[Fine]/
[Normal].
- 7: Press the **OK** button to confirm the setting.
- 8: Press the **LEFT/MODE** button twice to close the menu.

Setting the size


- 1: Turn on the camcorder and set the camcorder to capture mode ().
- 2: Press the **OK/MENU** button to display the setup menu. The [Photo ] menu is select.
- 3: Press the **OK** button to enter the menu.
- 4: Press the **UP** or **DOWN** button to select [Size].
- 5: Press the **OK** button to enter the submenu.
- 6: Press the **UP** or **DOWN** button to change the quality: [12M]/[8M]/ [5M].
- 7: Press the **OK** button to confirm the setting.
- 8: Press the **LEFT/MODE** button twice to close the menu.

4. Using the menu in record mode

When a menu is displayed, the **UP**, **DOWN**, **LEFT**, **RIGHT** button are used to make the desired setting.

Setup menu

You can set the system items in setup menu.


- 1: Turn on the camcorder and set it to capture, video or audio mode.
- 2: Press the **OK/MENU** button to display the menu.
- 3: Press the **RIGHT** button to select [setup ], and then press the **OK** button to display the menu.
- 4: Press the **UP** or **DOWN** button to select an item.
- 5: Press the **RIGHT** or **OK** button to enter the submenu.
- 6: Press the **UP** or **DOWN** button to set the item.
- 7: Press the **OK** button to confirm the setting.
- 8: Press the **LEFT/MODE** button three times to close the menu.

Menu item	Function
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TV Type	You can preview images on a television with the supplied AV cable. TV Out should be set to either NTSC or PAL depending on your region. [NTSC]: America, Japan and others; [PAL]: Europe, Oceania and others.
Auto Power off	To save power, the camcorder is turned off automatically after a period of time. There are four options: [Off] / [1Min] / [3Min]/[5 Min].
Volume	Adjust the volume from 0 to 64.
Time setup	Refer to page 9.
Language	Select a language for the Display menu and other information from the following languages: [English] / [French]/ [German]/ [Italian]/[Portuguese]/ [Spanish]/ / [Dutch].
USB selection	You can use this camcorder as a PC camera or removable disk. [USB Cam]:Use as a PC camera; [Mass storage]: Use as a removable disk.

Default setting	To reset the entire menu and button operation settings to initial default. [Yes]/[No].
Format	To erase all data stored on the memory card if you are using a memory card, or all data stored in the internal memory if there is no card inserted. All data will be deleted including protected files. Be sure to download important files to your computer before formatting. [Yes] / [No].
FW Ver	This function will show the software version.

AAA Menu

- 1: Turn on the camcorder and set it to capture or video mode.
- 2: Press the **OK/MENU** button to display the menu.
- 3: Press the **RIGHT** button twice to select [AAA ], and then press the **OK** button to display the menu.
- 4: Press the **UP** or **DOWN** button to select an item.
- 5: Press the **RIGHT** or **OK** button to enter the submenu.

6: Press the **UP** or **DOWN** button to set the item.

7: Press the **OK** button to confirm the setting.

8: Press the **LEFT/MODE** button four times to close the menu.

AAA (auto exposure, auto white balance, auto focus) **menu list**

Menu item	Function
Flicker	Light Frequency should be set to either 60Hz or 50Hz depending on your region. [Auto]/ [50HZ] / [60HZ].
Contrast	Adjust the contrast of the picture. There are three items for option:[Hard]/[Soft]/[Standard].
Sharpness	Adjust the sharpness of the picture. There are three items for option: [Hard]/[Soft]/[Standard].
AE ISO	Specifies required sensitivity setting of the ambient light around the subject. The larger value of the sensitivity, the higher sensitivity is obtained. The higher sensitivity setting allows you to take pictures in darker locations. [800]/[400]/[200]/[100]/[Auto].
White	Adjust the white balance to suit different light sources.

Balance	There five items for option: Auto / Sunny / Cloudy / Fluorescent/ Incandescent
AE bias	Set the AE bias manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting. The value range is -2.0 to 2.0.

5. Playback

Playing back movie clips

- 1: Set the camcorder to video record mode, and then press the **UP/PLAYBACK** button to set the camcorder to playback mode. All movie clips saved in the movie folder show in thumbnail mode.
- 2: Press **OK** button to show it in full screen. Then press the **LEFT** or **RIGHT** button to select the movie clips you want to playback.
- 3: Press the **OK** button to start playing. When the video is playing press the **OK** button to end the playing. Press the **UP** button to pause it and press **OK** button to continue.

4: When all the files show in the thumbnail mode, press the UP/PLAYBACK button to navigate and preview movie clips in the movie folder, photos in the photo folder and audio files in the audio folder.

Press the **Shutter** button to enter video record mode.

Playback still image

1: Set the camcorder to capture mode and then press the PLAYBACK button to preview all photos saved in the photo folder. If there are no images stored, a message [No Files] appears.

2: Press the **RIGHT** or **LEFT** button to preview the previous or next image.

Press the **OK** button to preview it in full screen mode.

3: Zooming:

Press the **T** or **W** button to zoom in or zoom out the image. When the picture is enlarged you can press the **UP, DOWN, LEFT, RIGHT** button to browse the details of the image.

4: When all the files show in the thumbnail mode, press the UP/PLAYBACK button to navigate and preview movie clips in the movie folder, photos in the photo folder and audio files in the audio folder.

Press the **Shutter** button to enter video record mode.

Playing back audio files

- 1: Set the camcorder to audio record mode and then press the **UP/PLAYBACK** button to preview all audio file stored in the audio folder..
- 2: Press the **RIGHT** or **LEFT** button to select the audio file you want to playback.
- 3: Press the **OK** button to start playing and press it again to end the playing.
Press the **UP** button to pause it and press **OK** button to continue.
- 4: When all the files show in the thumbnail mode, press the **UP/PLAYBACK** button to navigate and preview movie clips in the movie folder, photos in the photo folder and audio files in the audio folder.
Press the **Shutter** button to enter video record mode.

Delete files

If you want to delete a single file you have to select the file first and then press the **Delete** button. The dialog box “Delete file? All, Yes, No” will appear. Select “Yes” and then press the **OK** button to delete

current file. Select “All” and then press the **OK** button to delete all files.

6. Making connections

Connecting the Camcorder to a TV

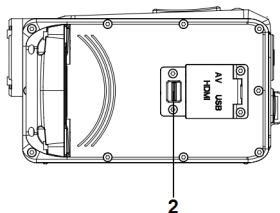
When plugging in the TV-out cable (supplied) to the camcorder AV out jack the LCD screen turns black, Connect the camcorder to a TV and the TV screen now performs as the camcorder LCD screen.

1. Push the cover lock (2) to the left to open the cover.
2. Connect the camcorder to a TV via the TV-out cable (supplied) .
3. Turn on the TV and the camcorder, and then set the TV to “AV” mode.
4. When the camcorder is set to record mode, you can preview the subjects you want to record on the TV screen.
5. When the camcorder is set to Playback mode, you can review all the pictures, video and audio clips stored in the camera on the TV.

Connecting the Camcorder to a HDTV

HD-TV hereby means the HDTV built-in component input ports, thus can perform HD (720P) high resolution quality while connected.

1. Push the cover lock (2) to the left to open the cover.
2. Connect the camcorder to HDTV with the HDMI-cable.
3. Power on HDTV and switch to HDMI-mode.
4. Power ON the camcorder. Set the camcorder in playback mode.



- Press the **UP/PLAYBACK** button to enter movie clips folder, photo folder or audio folder.
5. Press the **LEFT** or **RIGHT** button to select a file which you want to preview.
 - 6: If a movie clip or audio file is selected press the **OK** button to start playing. When the file is playing press the **OK** button to end the playing. Press the **UP/PLAYBACK** button to pause it and press **OK** button to continue.

Connecting the Camcorder to a PC

There are two ways to download files from the camcorder's internal memory or memory card to a computer:

- By inserting the memory card into a card reader.
- By connecting the camera to a computer using the supplied USB cable.

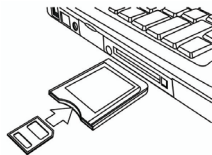
Using a Card Reader

1: Eject the memory card from the camcorder and insert it into a card reader that is connected to a computer.

2: Open [My Computer] or [Windows Explorer] and


double-click the removable disk icon that represents the memory card.

3: Copy images from the card into a directory of your choice on the computer's hard disk.



Connecting the Camcorder to a PC with the USB Cable

1: Turn on the camcorder; Press the **OK/MENU** button to display the menu.

- 2: Press the **RIGHT** button to select [setup ], and then press the **OK** button to display the menu.
- 3: Press the **UP** or **DOWN** button to select [USB selection].
- 4: Press the **RIGHT** or **OK** button to enter the submenu.
- 5: Press the **UP** or **DOWN** button to set it to [Mass storage] mode.
- 6: Press the **OK** button to confirm the setting.
- 7: Press the **LEFT/MODE** button three times to close the menu.
- 8: Connect the supplied USB cable to the computer's USB port . A message "USB connecting" appears on the screen when connection to the computer has been successfully completed.
- 9: Open [My Computer] or [Windows Explorer]. A "Removable Disk" appears in the drive list. Double-click the "Removable Disk" icon to view its contents. Files stored on the camera are located in the folder named "DCMI".
- 10: Copy the photos or files to your computer.

7. Software Installation

Installing the Software

The bundled software CD has the drivers and software that come with video camera.

Insert the CD into your CD-ROM drive. The autorun menu appears:





The following software is listed:

- Arcsoft Media Impression: Installs software for editing movie clips and photos. If the autorun menu does not appear automatically, open the CD-ROM in [My Computer] or [Windows Explorer] and double-click the file named [autorun.exe] to start the program. You can also click [Run] in the

Windows Startup menu, enter "D:\autorun.exe" (where D is your CD-ROM drive letter) in the text box, and click [OK].

How to use the PC Camera function

1. First copy the PC camera driver from the CD to your PC.
2. Turn on the camcorder, Press the **OK/MENU** button to display the menu.
3. Press the **RIGHT** button to select [setup , and then press the **OK** button to display the menu.
4. Press the **UP** or **DOWN** button to select [USB selection].
5. Press the **RIGHT** or **OK** button to enter the submenu.
6. Press the **UP** or **DOWN** button to set it to [USB CAM] mode.
7. Press the **OK** button to confirm the setting.
8. Press the **LEFT/MODE** button three times to close the menu.
9. Connect the camcorder with the PC by USB-cable. A message "USB Cam connecting" appears on the screen when connection to the computer has been successfully completed.
10. Double click the icon "My Computer" (on the PC-desktop).
11. Double click the icon . Then you can start to use the PC-Camera function.

8. Troubleshooting

Power does not turn on.	
1. Battery is insufficient to power on.	★ Recharge the battery.
The camcorder does not take pictures.	
1. Memory is full.	★ Insert a new memory card.
2. Memory card is not formatted correctly.	★ Format the memory card again or use a new card.
Image is blurry or out of focus.	
1. The camcorder was moving when the image was captured.	★ Hold the camcorder steady when shooting picture.
Image is not displayed on the LCD monitor.	
1. A memory card with non-JPG images (recorded with other camera) is loaded.	★ This camcorder cannot display non-JPG images.
Recorded files are not saved in memory.	
1. The camcorder was turned off	★ If the battery low indicator

before the files are saved in memory.	appears on the LCD monitor, recharge the battery immediately.
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9. Technical Specifications

Function	6-in-1 Multi-functional Camera (Digital Still Camera, Digital Video Camera, Digital Voice Recorder. Video Player, USB Mass Storage and PC Cam)
Image Sensor	5MP CMOS Sensor
Lens (Focusing)	Fixed Focus
Aperture Ratio	F=3.1mm
Focus Length	f=6.5mm
Optical Zoom	N/A
Digital Zoom	4X

Display	2.7" TFT LCD
Exposure Mode	Auto
White Balance	Auto / Sunny / Cloudy / Fluorescent / Incandescent
Shutter Speed	1/2 ~ 1/1800 sec.
Digital Effects	N/A
Internal Memory	32 NAND Flash
Memory Card Slot	SD/MMC Up to 16GB
Microphone	Yes
Speaker	Yes
Interface	HDMI / USB 2.0 / AV Out
Television System	NTSC / PAL

Battery Type	Li-ion Battery
Power Source	Rechargeable Li-ion Battery
Digital Still Camera	
Resolution	4000 x3000 (Interpolated) 12M 3200 x 2400 (Interpolated) 8M 2592 x 1944 5M 2048 x 1536 3M
Sensitivity	Auto
File Format (Image)	JPEG Compatible
Scene Mode	N/A
Digital Camcorder	
Resolution	1280 x 720 @ 30 fps 848 x 480 @ 60 fps

File Format (Video)	MOV (H.264)
Digital Voice Recorder	
File Format (Audio)	WAV
Windows Mass Storage	
Windows Mass storage (Driver)	Windows 2000/XP/VISTA32-bit//7 32-bit (Mass Storage only) above