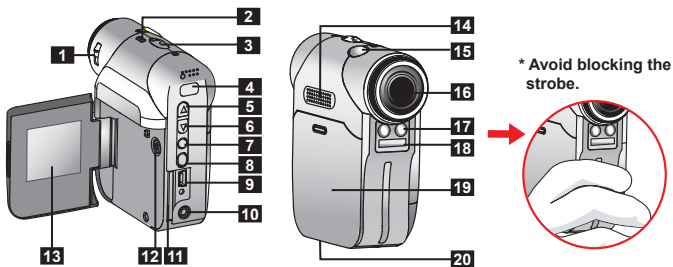


## ***Digital Camcorder***

***English***

## ● Camcorder Parts

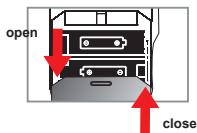


- |                                 |   |                              |
|---------------------------------|---|------------------------------|
| <b>1</b> Focus switch           | <b>8</b> Mode/⏮ button                      | <b>14</b> Speaker            |
| <b>2</b> Microphone             | <b>9</b> USB Port                           | <b>15</b> Shutter Button (📷) |
| <b>3</b> Strap hook             | <b>10</b> TV-out Connector/<br>Earphone     | <b>16</b> Lens               |
| <b>4</b> *Record button (📹)     | <b>11</b> SD/MMC Card Slot                  | <b>17</b> Video light        |
| <b>5</b> Up button (Zoom in)    | <b>12</b> Power Button (🔌) /<br>Video light | <b>18</b> Flash strobe       |
| <b>6</b> Down button (Zoom out) | <b>13</b> LCD Panel                         | <b>19</b> Battery cover      |
| <b>7</b> Menu/OK Button         |   | <b>20</b> Tripod Port        |

## ● Loading the battery

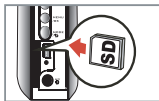
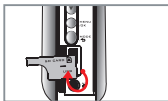
Please use two AA batteries.

- Slide open the battery compartment cover as indicated.
- Load the batteries into the battery compartment with + and - ends correctly installed.
- Replace the cover.



## ● Inserting the SD/MMC card (optional)

1. Lift the SD card cover.
2. Insert the card in the direction of indication until it reaches the end of the slot.
3. When using a SD card, the built-in memory will become inaccessible.
4. To remove the SD card, gently push the card until it pops up.



❗ The serial number of the file name (PICTxxxx) will be counted continuously even you delete all files on the SD card or insert a new one. If you want to restart the serial number, please use the camcorder "Format" function to format the card.

## ● Turning on the camcorder

Open the LCD panel.

OR

Press and hold down the **Power** button (  ) for 3 seconds.




## ● Turning off the camcorder





Close the LCD panel.

OR

Press and hold down the **Power** button (  ) for 3 seconds.

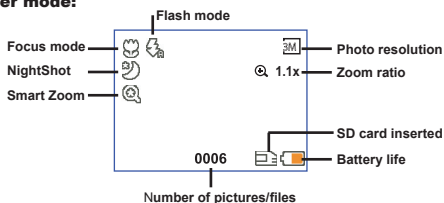
❗ Press the **Power** button (  ) shortly will turn the video light on/off.

## ● Setting Language

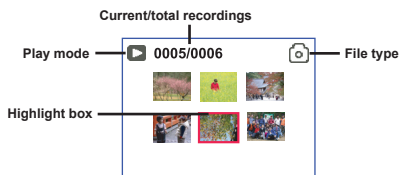
Power-on → Press the **Mode** button → Enter the **Setting** (  ) mode → Use the **Zoom** buttons (  ) to select the **Language** (  ) item → Use the **Zoom** buttons (  ) to select a suitable language and press the **Menu/OK** button to confirm.

# ● Reading LCD indicators

## Digital Camcorder mode:



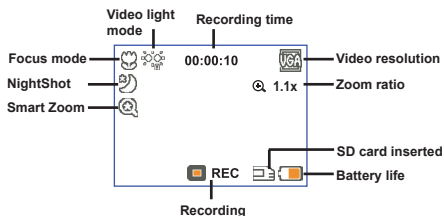
## Playback thumbnail mode:








## Playback full mode:



## Video REC mode:









## ● Recording a video clip

1. Set the focus to an appropriate setting. Normally, you may set the focus to (  ) for most filming conditions. Select (  ) only for close-ups.
2. Press the **Record** button (  ) to start recording.
3. Use the **Zoom** buttons (  ) to zoom in or zoom out the screen.
4. Press the **Record** button (  ) again to stop recording.







## ● Taking a still picture

1. Set the focus to an appropriate setting. Normally, you may set the focus to (  ) for most filming conditions. Select (  ) only for close-ups.
2. Use the **Zoom** buttons (  ) to zoom in or zoom out the screen.
3. Press the **Shutter** button (  ) to take a still picture.





	70cm ~ ∞
	50cm ~ 70cm

## ● Playing back your recordings

1. Press the **Mode** button.
2. Use the **Zoom** buttons (  ) to select the **Playback** (  ) mode.
3. Press the **Menu/OK** button to enter.
4. Use the **Zoom** buttons (  ) to shift between files.
5. Press the **Menu/OK** button to review/play the file.

❗ Press the **Shutter** button (  ) to delete files.

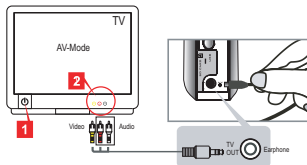
## ● Recording a voice clip

1. Press the **Mode** button.
2. Use the **Zoom** buttons (  ) to select the **Voice** (  ) mode.
3. Press the **Menu/OK** button to confirm. (\*)
4. Press the **Record** button (  ) to start recording.
5. When you are done, press the **Record** button (  ) again to stop recording.

❗ When entering the **Voice** mode, the remaining recordable time will be displayed on the LCD.

## ● Connecting the camcorder to a TV

Connect your camcorder and TV via the accessory AV cable for real-time display. You can display your video clips, still pictures, and audio recordings directly on your TV, sharing them with your friends and family.



1. Turn on your TV and switch the TV to AV mode.

! The TV system is different across countries. If you need to adjust the **TV-out** setting, please refer to page 8 for more information. (Taiwan: NTSC; America: NTSC; Europe: PAL; China: PAL)

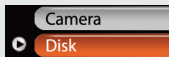
2. Connect the audio and video ends of the AV cable to the TV.
3. Turn on the camcorder.
4. Connect the other end of the AV cable to your camcorder.

## ● Connecting the camcorder to your PC

1. Turn on the camcorder.
2. Connect the camcorder to your computer by the USB cable.

! The default is set to "Disk" mode. When connected to a PC, the camcorder will automatically enter Disk (Removable disk) mode.


! If you set the USB Mode to "Menu" mode, the following screen will appear.





Please select the desired connection mode.

! If you would like to change the setting, please refer to page 9 for more information.

## ● Mode selection

1. Turn on the camcorder.
2. Press the **Mode** button.
3. Use the **Zoom** buttons (  ) to select the desired item.
4. Press the **Menu/OK** button to confirm.

## ● Basic operation


How to...	Action
Move the highlight bar	Use the <b>Zoom</b> buttons (  ) to move up or down.
Confirm an item	Press the <b>Menu/OK</b> button.
Exit menu/Go back to upper menu	Press the <b>Mode</b> /  button (when in sub-menu).

## ● Menu items in Camera mode (1)

Power-on → Press the **Menu/OK** button.

Item	Option	Description	
Resolution		Picture resolution	Print photos
	1M	1280x960	3x5 in.
	3M	2048x1536	4x6 in. or 5x7 in.
	6M	2848x2136	6x8 in.
Selftimer	On/Off	Enable the selftimer. After the selftimer is turned on, the camcorder will have ten seconds delay before recording when the Shutter button is pressed.	
Flash	Auto	The flash automatically fires when the lighting is insufficient.	
	On	The flash is forced to fire in every shot.	
	Off	The flash is disabled.	
* Two-in-One	On/Off	This setting allows you to combine two images taken individually into one photo.	
Histogram	On/Off	The real-time histogram displays the approximate luminance distribution on the screen. You may adjust the exposure to gain better effect.	



## ● Menu items in Camera mode (2)

Item	Option	Description
* Photo-Frame	 1 ~ 10	This setting allows you to add customized frames to photos. 10 background frames are available on the LCD monitor.
	0	The Photo-Frame function is disabled
Video	VGA	Set the video resolution to VGA (640x480 pixels).
	QVGA	Set the video resolution to QVGA (320x240 pixels).
Stabilizer	On/Off	Minimize blur caused by hand shake.
Smart Zoom	On/Off	This setting allows you to get a clearer image during using the zoom buttons.
WB	Auto	The camcorder automatically adjusts white balance.
	Sunny	This setting is suitable for outdoor recording in sunny weather.
	Cloudy	This setting is suitable for recording in cloudy weather or shady environments.
	Fluorescent	This setting is suitable for indoor recording with fluorescent lamp lighting, or environments with high color temperature.
	Tungsten	This setting is suitable for indoor recording with incandescent lamp lighting, or environments with low color temperature.
Effect	Normal	Make recordings in natural color.
	B&W	Make recordings in black and white.
	Classic	Make recordings in sepia-toned color.
Exposure	-2~+2	Manually adjust the exposure to gain better effect when the preview image appears too bright or too dark. A positive value indicates the image will be brighter than usual; while a negative value makes the image dimmer.
NightShot	On/Off	This setting allows you to take a photograph with a dark background. Since the shutter speed will slow down when taking photographs at a dark place, we recommend using a tripod to eliminate blurring from hand shake.
Video Light	On/Off	The setting allows you to add extra light when the lighting is insufficient during recording video clips

❗ The **Two-in-One** and **Photo-frame** function will be disabled when the resolution is set to 10M.




## ● Menu items in Playback mode

Power-on → Press the **Mode** button → Enter the **Playback** (  ) mode → Press the **Shutter** button (  ).


Item	Option	Description
Delete One	Yes/No	Delete current file.
Delete All	Yes/No	Delete all pictures and video/audio files stored in the memory.

## ● Menu items in Setting mode (1)

Power-on → Press the **Mode** button → Enter the **Setting** (  ) mode.

Item	Option	Description
Beep	On/Off	Enable beep sound on/off.
Flicker	50Hz/60Hz	Set flicker frequency to 50Hz or 60Hz. For more information, please refer to the " <b>Flicker Settings</b> " table.
TV-out	NTSC	Set TV system compatibility to NTSC. This option is suitable for America, Taiwan, Japan, and Korea areas.
	PAL	Set TV system compatibility to PAL. This option is suitable for Germany, England, Italy, Netherlands, China, Japan, and Hong Kong.
Icon	On/Off	Enable/disable OSD icons to display on the screen.
LCD Bright	0 ~ 4	Set LCD brightness. A greater value makes the LCD brighter; while a smaller value makes the LCD dimmer.
Volume	0 ~ 10	Set the volume. (0: mute, 1-10 levels)
Format	 Yes	Format the storage medium. Note that all files stored in the medium will be gone. The serial number of the file name (PICTxxxx) will be restarted.
	No	Cancel action.
Auto Off	Off 1min/3min/ 5min	Set how long the camcorder will automatically shut down when staying inactive. Setting to [Off] will make the camcorder stay powered on until it runs out of power.

## ● Menu items in Setting mode (2)

Item	Option	Description
Language		Lets you select the language used for OSD.
USB Mode	Menu	When connected to a PC, the camcorder displays a menu for you to choose a desired connection mode.
	Camera	When connected to a PC, the camcorder automatically enters Camera (PC camera) mode.
	Disk	When connected to a PC, the camcorder automatically enters Disk (removable disk) mode.
Start Movie	On/Off	Enable/disable the movie sequence when the camcorder is powered on.
Default	On/Off	Restore factory defaults. Note that your current settings will be overridden.

### ! Flicker Settings

Country	England	Germany	France	Italy	Spain	Russia
Setting	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Country	Portugal	America	Taiwan	China	Japan	Korea
Setting	50Hz	60Hz	60Hz	50Hz	50/60Hz	60Hz

**Note:** The flicker setting is based on the frequency standard of your local power supply.





## ● Storage Capacity

Memory	Video (min.)		Audio (min.)
	VGA	QVGA	Maximum
SD/MMC card (128MB)	7	40	85
SD/MMC card (256MB)	20	85	175
SD/MMC card (512MB)	40	175	350
SD/MMC card (1GB)	80	350	720

Memory	Still picture		
	6M	3M	1M
SD/MMC card (128MB)	150	300	770
SD/MMC card (256MB)	300	620	1540
SD/MMC card (512MB)	600	1230	3080
SD/MMC card (1GB)	1200	2500	6160

**Note:** The actual value of capacity may vary (up to  $\pm 30\%$ ) depending on the color saturation and complexity of your subject and surroundings.

## ● Battery Life Indicator

Icon	Description
	Full battery life
	Moderate battery life
	Low battery life
	Empty battery life

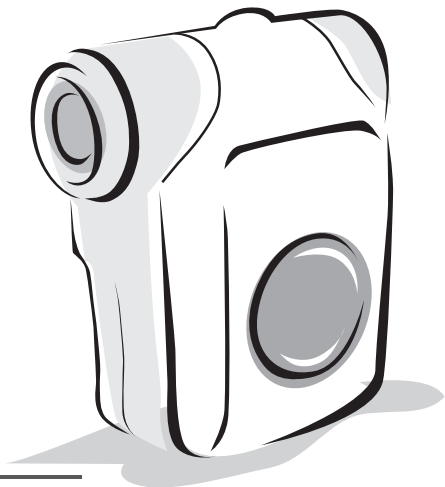
**Note:** To avoid sudden outage of power supply, you are recommended to replace the battery when the icon indicates low battery life.

## ● Specifications

Sensor effective resolution	3 Mega (2048x1536) pixels
Interpolated resolution	6 Mega (2848x2136) pixels
External memory	Built-in SD/MMC card slot (maximum: 2GB)
Digital still camera	JPEG (.JPG) format 2848x2136 (6 Mega) pixels 2048x1536 (3 Mega) pixels 1280x960 (1 Mega) pixels
Digital video camcorder	VGA (640x480 pixels) / up to 30 fps QVGA (320x240 pixels) / up to 30 fps
Digital voice recorder	WAVE (.WAV) format
PC Camera	VGA (640x480 pixels) QVGA (320x240 pixels)
LCD display	1.5" Color LCD
Digital zoom	4X
TV-out	Yes (NTSC/PAL system)
Built-in microphone	Yes
Built-in speakers	Yes
Video light	Yes
Built-in flash strobe	Yes
Self Timer	10 seconds
Interface	USB 2.0 mass storage
Battery	2 x AA Alkaline Battery
Lens	F=3.0/8.31mm
Dimensions	86 x 72 x 36 mm

\* Specifications are subject to change without notification.

# Advanced Instructions



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***Digital Camcorder***

***English***

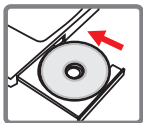
## ● Copying files to Your PC

### ➡ Installing the driver to your PC

You need to install the camcorder driver to ensure that video clips can be played back on your PC. To install the software:

#### 1. Insert the driver CD.

Turn on your computer. Then place the accessory CD into the CD-ROM drive.



- ❗ Do not connect the camcorder to your computer at this stage.
- ❗ Shut down all other applications running on your computer.
- ❗ If the autorun screen does not appear automatically, double-click on **My Computer** and then the CD-ROM drive. Then start the **Setup.exe** program manually.

#### 2. Start the installation.

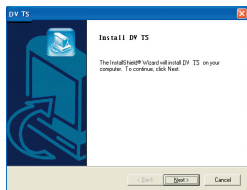
Click on the  icon to launch the installation of the driver.

##### ❗ Notice for Windows 2000 users:

During the installation process, a warning message regarding digital signature may appear twice or more. Please click on **Yes** to continue the process. The software is fully compatible with Windows 2000 operation system.

#### 3. Install the driver.

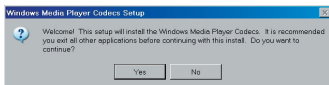
The **Install Shield Wizard** will then appear and automatically install the program. Click on **Next** and follow the on-screen instructions to complete the installation.



## ● Copying files to Your PC (continued)

### 4. Install codecs.

After the driver installation is completed, the program will prompt you to install **Windows Media Player Codecs**. If you are not sure whether the codecs have been installed in your computer, please click on **Yes** and follow the on-screen instructions to complete the installation.



### 5. Install Direct X 9.0c or above.

After the codecs installation is completed, you will be prompted to install **Direct X 9.0c** or above if the program is not yet installed in your computer. Please click on **Yes** to continue.

❗ *Windows Media Player Codecs and Direct X 9.0c or above are necessary for viewing the video clips recorded by the camcorder.*

### 6. Restart the computer.

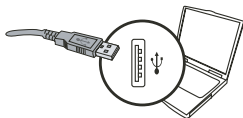
After the installation is completed, you may need to restart your computer for the driver to take effect.

## Connecting the camcorder to your PC

### 1. Turn on the camcorder.

### 2. Connect the USB cable to your computer.

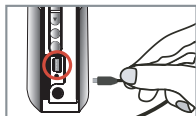
Turn on your computer, and then connect the accessory USB cable to the USB port of your computer. Make sure the cable and the port are correctly aligned.




### 3. Connect the USB cable to your camcorder.

Connect the other end of the USB cable to your camcorder.

The default is set to “**Disk**” mode, if you would like to set other modes as default, please refer to “**USB Mode**” section for more information.





#### **USB mode:**

Power-on → Press the **Mode** button → Enter the **Setting** (  ) mode.

USB Mode	Menu	When connected to a PC, the camcorder displays a menu for you to choose a desired connection mode.
	Camera	When connected to a PC, the camcorder automatically enters Camera (PC camera) mode.
	Disk	When connected to a PC, the camcorder automatically enters Disk (removable disk) mode.

#### **Notice for Windows 2000/XP users:**

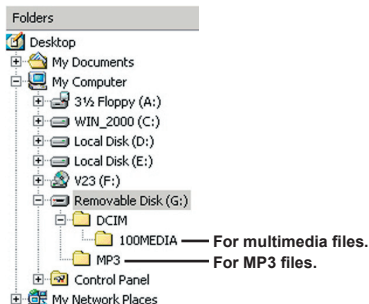
If you want to disconnect the camcorder from your computer, please follow these steps:

1. Double-click  in the system tray.
2. Click  (USB Disk), and then click **Stop**.
3. Select the camcorder when the confirmation screen appears and click **OK**.
4. Follow the on-screen instructions to safely disconnect the camcorder from your



## File location

After connecting the camcorder to your computer, a removable disk will appear in your computer. The removable disk actually represents the storage medium of your camcorder. In the disk you can find all of your recordings. Refer to the figure below to see where the files are stored.



## ● Using PC Camera

### ➡ Installing the software

The PC camera software is included in the camera driver, and therefore you should install the driver before using the PC camera function.

### ➡ Starting the application

#### 1. Turn on the camcorder and connect the camcorder to your computer.

Turn on the camcorder, and then connect the camcorder to your computer using the accessory USB cable.

#### 2. Switch to the Camera mode

Press the **Menu/OK** button to bring up the options menu. Use the **Zoom** buttons (⬆ ⬇ ⬆) to select the **Camera** item and press the **Menu/OK** button to confirm.

❗ If you want to use the Video Conferencing function, please install programs such as **Netmeeting** to serve the purpose.

#### 🔑 Notice for Windows 2000 users:

When using the PC camera function for the first time, the warning message regarding digital signature may appear twice or more. Please click **Yes** to continue the installation. The camcorder is fully compatible with Windows 2000 operation system.

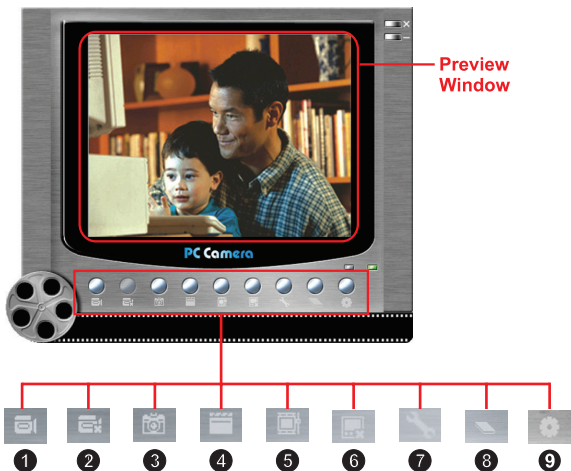
#### 3. Launch DV TS program.

Double-click the **DV TS** icon (🖥️) on the Desktop to start the program. After the program starts, you can begin to use the PC camera function.


❗ If you cannot find the program shortcut on the desktop, you can start the program from the **Programs** menu.



## ➡ Using DV TS PC Camera






- |                                |                             |
|--------------------------------|-----------------------------|
| ➊ Start recording a video clip | ➋ Start/Stop preview window |
| ➌ Stop recording               | ➍ Setting *                 |
| ➎ Snapshot                     | ➏ Open album                |
| ➐ Format *                     | ➑ Select video source       |
| ➒ Source *                     | * Sub-menu available.       |

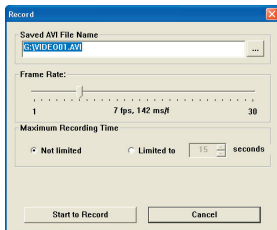
❗ To view pictures taken by DV TS PC Camera, please click on  to open the photo album. Or, as an alternate option, go to the "Work Temp" folder to find the files. The full path is as following:

C:\Program Files\DV TS\Work Temp

## Using DV TS PC Camera (Continued)

### Recording an AVI movie

1. Click on the  icon.
2. Press  to specify the path and name of the AVI file.
3. Set the frame rate and recording time according to your needs.
4. Press the **Start to Record** button to begin recording.
5. To stop recording, click on the  icon.



### Taking a snapshot

Click on the  icon to take a snapshot.

### Configuring Format options

#### Color Space:

Select one of the following functions according to your needs.

- RGB 24: This item is for retaining better quality.
- MJPG: This item indicates the AVI movie will be more compressed to gain the advantage of faster processing speed.

#### Output Size:

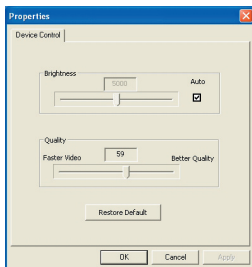
Set output size to change the size of the preview window. The default size is 320x240. Select larger pixels when you need a larger preview window.

## ➡ Using DV TS PC Camera (Continued)

### Configuring Source options

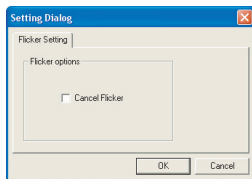
#### ■ Device Control:

- Brightness: You can check the "Auto" item and let the program adjust image brightness for you, or uncheck the "Auto" item and slide the bar to adjust image brightness manually.
- Quality: If the network bandwidth is congested when using PC Camera, slide the bar toward "Faster Video" to avoid this problem.



### Configuring Flicker options

If you take your camcorder abroad, and find the screen of your computer flickers when using PC Camera function, please check the Cancel Flicker item to prevent noises from appearing on the screen. Or, you can refer to the "**Flicker Settings** table" for proper flicker value that suits the country you are staying.



## Appendix: A

### Troubleshooting

When using the camcorder:		
Problem	Cause	Solution
The camcorder can not be powered on normally.	The battery is out of power.	Replace the battery.
	The battery is incorrectly installed.	Re-install the battery.
The camcorder is still powered on, but the LCD screen does not display.	If the camcorder stays idle over one minute, the LCD screen will automatically shut down to save power.	Press any button except the power button to reactivate the display.
Can not take pictures or video clips when pressing the Shutter or Record button.	Out of memory.	Free some space from the SD/MMC card or the internal memory.
	The camcorder is recharging the flash strobe.	Wait until the flash strobe is fully charged.
	Using a "protected" SD card.	Set the SD card to be writable.
The LCD screen displays "MEMORY ERROR" or "CARD ERROR" message. Or the camcorder cannot read the memory card.	The format of the memory card is not compatible with the camcorder.	Use the camcorder "Format" function to format the card.
	The memory card is corrupted.	Replace the memory card with a new one.
I did not delete the pictures and video clips, but can not find them in the memory card.	The lost recordings are saved in the internal memory.	It happens when you insert a memory card after taking a few pictures or video clips. You can access those files after removing the memory card.

## Appendix: A

When using the camcorder:		
Problem	Cause	Solution
Cannot use the flash strobe.	If the battery icon indicates low battery, the flash strobe may be disabled due to insufficient voltage.	Replace the battery.
The camcorder does not respond to any action during operation.	The camcorder encounters software failure.	Remove the battery pack and replace it into the compartment. Then power on the camcorder.
The recorded pictures appear too blurred.	The focus is not correctly set.	Adjust the focus to an appropriate position.
The recorded pictures or video clips appear too dark.	The environment of shooting or recording does not have adequate light.	Use flash strobe when taking pictures. Add extra light sources or enable video light when recording video clips.
Noises occur when viewing images on the LCD screen or on the computer.	The flicker setting does not match the standard of the country you are staying.	Adjust the flicker setting. For more information, please refer to the "Flicker Settings" table.
I want to restart the serial number of the file name (PICTxxx).	The counting of the serial number is handled by the camcorder firmware.	Use the camcorder <b>"Format"</b> function to format the card.
I convert a media file and name it as PICTxxx.* (xxx indicates number). Then I copy the file to the camcorder but cannot find it on the camcorder.	There is another file with duplicate serial number (e.g. PICT0001.ASF and PICT0001.JPG), or the file type is not supported.	Give the file a distinctive serial number and make sure the file type is supported by the camcorder.

## Appendix: A

When connecting the camcorder to the computer or TV:		
Problem	Cause	Solution
I cannot view the video clips on my computer.	Driver or software is not installed on the computer.	Install <i>Direct X 9.0c</i> or above and <i>Windows Media 9.0 Codecs</i> to solve this problem. See “ <b>Installing the driver to your PC</b> ” for details on installing the software, or go to <a href="http://www.microsoft.com">http://www.microsoft.com</a> to download the required files.
Driver installation failed.	The installation is terminated abnormally.	Remove the driver and other related programs. Follow the installation steps in the manual to re-install the driver.
	The camcorder has been connected to the PC via the USB cable before installing the driver.	Install the driver before plugging in the USB cable.
The TV screen does not display after connecting the camcorder to the TV.	The camcorder is not correctly connected to the TV.	Reconnect the camcorder to TV correctly.
A conflict with other installed camcorder or capture device occurred.	The device is not compatible with the camcorder.	If you have any other camcorder or capture device installed in your computer, please completely remove the camcorder and its driver from the computer to avoid the conflict.
Noises occur on my computer screen when using Video Conferencing.	The flicker setting does not match the standard of the country you are staying.	Adjust the flicker setting. For more information, please refer to the “ <b>Flicker Settings</b> ” table.



## Appendix: A

### ➡ Flicker Settings

Country	England	Germany	France	Italy	Spain	Russia
Setting	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Country	Portugal	America	Taiwan	China	Japan	Korea
Setting	50Hz	60Hz	60Hz	50Hz	50/60Hz	60Hz

**Note:** The flicker setting is based on the frequency standard of your local power supply.

### ➡ System Message

Message	Description
Recording	The camcorder is recording a file.
Please Unlock SD Card	If you insert a SD card and the card is set to "Protected", this message will show up when the camcorder tries to write data into the card.
No File	When the camcorder is set to Playback mode without any existing file to play, this message will show up.
Please Change Battery	The battery life of the camcorder is low. You should replace the battery with a new one immediately.
Memory Full	The storage memory is full and can not store any more files. Please change the SD/MMC card or delete some files to free some memory space.
Card Error	The inserted card is not compatible with the camcorder. Please change the card or try formatting the card.
Memory Error	The camcorder can not access data in the internal memory. Please format the medium to solve this problem.
Strobe Is Charging	The flash strobe is charging.
File Format Error	The file being played is not compatible with the camcorder.
Deleting	The camcorder is performing file deletion.
Formatting	The camcorder is formatting the storage medium.
Setting	The camcorder is performing a setting action.

## Appendix: B

### Instruction for ArcSoft MediaConverter™

#### Introduction

ArcSoft MediaConverter is a powerful all-in-one multimedia file converter. This utility quickly and effortlessly converts photo, video, and music files into formats optimized for use on your portable device. Multiple files and file types can be converted at the same time. It's easy! Three simple steps are all it takes. (Please refer to "**Converted files**" section for more information.)

#### System requirements

To install and run the MediaConverter, your system must meet the following minimum requirements:

- Microsoft Windows 2000/XP (Home or Professional)
- 50 MB free hard drive space
- 256 MB RAM
- DirectX 9 (DirectX 9c recommended)
- Microsoft Windows Media Player 9.0 (for converting WMA and WMV files)
- Microsoft Windows 2000/XP (Home or Professional)
- Apple QuickTime 6.5 (for converting MOV files)

## Appendix: B

### Supported file formats

#### ■ Video

Video files are converted and copied to the selected location as MPEG-4 encoded AVI files, WMV files or MPEG-4 encoded ASF files (Default).

#### ■ Supported file types for conversion

- AVI (Microsoft Video 1 format, Cinepak, Intel Indeo, uncompressed, etc.)
- MPEG-1 in MPEG, MPG, MPE
- DAT (VCD MPEG1)
- MPEG-4 in AVI format
- MPEG-4 in ASF
- WMV
- QuickTime MOV

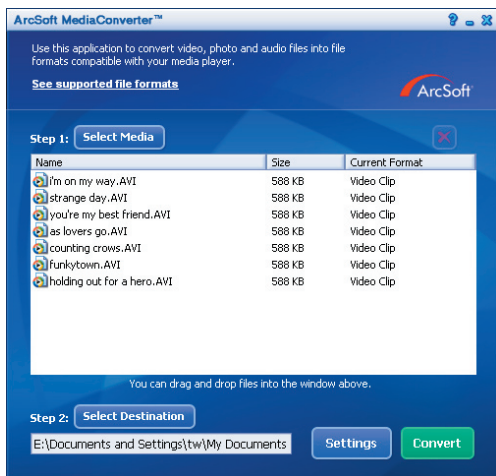
QuickTime 6.5 and Windows Media Player 9.0 or above are required for QuickTime MOV and WMV file conversion, respectively.

#### ■ Supported file types for export

- AVI (MPEG-4 SP)
- WMV
- ASF(MPEG-4 SP)

## Appendix: B

### Converted files

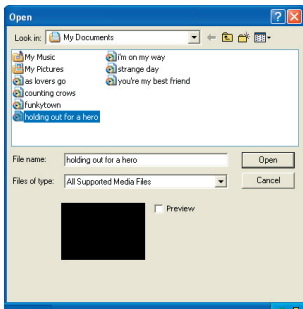


## Appendix: B

### Step 1: Select media

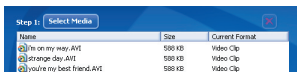
#### ■ Adding files for conversion

- 1 Click the “Select Media” button.
- 2 An “Open” window will appear. Navigate to the folder that contains the files you’d like to convert.
  - a. Use the “Files of type” pull-down to filter the file types you’d like to display.
  - b. Preview highlighted files to be sure that they’re the ones you want.  
Check the “AutoPlay” box to start the playback automatically after you click a file.
- 3 Repeat steps 1 and 2 above until all the files you want are added. In addition to using the above method, you can also drag-and-drop files directly to the file list in the program window.



#### ■ Removing files

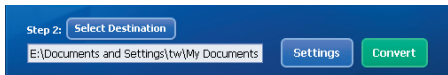
To delete a file from the list, highlight it and click the “X” icon.



## Appendix: B

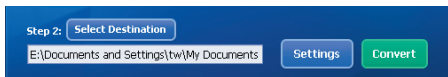
### Step 2: Select destination

Click the “Select Destination” button to select the location where your converted files will be saved. The default save location is “C:\Documents and Settings\[current user]\My documents”. However, you’ll most likely want to save the files to your portable device. In this case, make sure your device is connected, and then click “Select Destination” and choose the device.



#### ■ Settings

Various program settings can be accessed by clicking the “Settings” button. Each section lets you select one of two settings: “Optimize for the selected device,” and “Use custom conversion settings.”

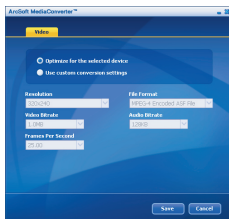


#### ■ Optimize for the selected device

This is the default setting. The program will automatically set the conversion parameters according to your selected device.

#### ■ Use custom conversion settings

If you decide to use this option, you can set the various conversion parameters manually.



## Appendix: B

### ■ Video settings

When converting a video file, there are several different parameters:

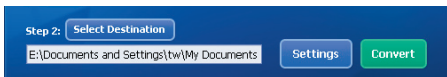
- **Resolution** (Options include QVGA (320 x 240) [default] and VGA (640 x 480))
- **File Format** (MPEG-4 encoded AVI files, WMV files or MPEG-4 encoded ASF files)
- **Video Bitrate** (Options include 500KB, 1.0MB, 1.5MB, 2.0 MB [default], 2.5 MB, and 3.0 MB)
- **Audio Bitrate** (Options include 96 KB, 128 KB [default], 192 KB)
- **Frame Per Second** (Options include [in fps] 15.00, 20.00, 24.00, 25.00 [default], and 29.97)

Selecting “Optimize for the selected device” uses the default values above, where applicable.

After viewing/modifying the various settings, select either “Save” or “Cancel” to return to the main screen. Click “Save” if you’d made changes that you’d like to keep. Otherwise, click “Cancel.”

### Step 3: Convert

When you’re ready, select (highlight) the files you’d like to convert from the list, and then click the “Convert” button.



A progress bar will display the current status. Various popups may appear asking for specific confirmation. A popup will appear and inform you once all the files have been converted and stored to the location you selected.

## Appendix: B

### Playing the converted ASF files in your camcorder

To play the video clips or movies (MPEG-4 in ASF format only) converted by ArcSoft MediaConverter in your MPEG-4 digital camcorder, please follow the steps below.

#### Step 1

Insert a SD/MMC card in the card slot of the camcorder and connect the camcorder to PC via the USB cable. You could follow the instructions of “**Connecting the camcorder to your PC**” for more information.


#### Step 2

Save the ASF files converted by MediaConverter on PC to your camcorder.

- 1 Copy the converted ASF files.
- 2 Open Windows Explorer to find a “Removable Disk” appeared in My Computer.
- 3 Double-click on the icon of Removable Disk.
- 4 Double-click on the DCIM file folder.
- 5 Double-click on the 100MEDIA file folder.
- 6 Paste the files into 100MEDIA file folder.
- 7 Change the file names to CLIP\*\*\*\*.ASF.  
\*\*\*\* could be any 4-digit number from 0001 to 9999.

❗ The file name must follow the naming principle of your camcorder, so that the camcorder could identify the files saved on 100MEDIA.

#### Step 3

Now you can use the Playback (  ) mode to enjoy the video clips or movies on the large LCD monitor!

The ArcSoft MediaConverter in this package is a customized version for your digital camcorder. You may visit the website <http://www.arcsoft.com> for more product information.



## Appendix: C

### ➤ System Requirements

**Operating System:** Windows 2000/XP

**CPU:** Pentium III or above

**System RAM:** 128MB or above

**Graphic Card:** 64MB, 24 bit true color

**CD-ROM speed:** 4x or above

**Software:** Direct X 9.0c or above and Windows Media Player Codecs

**Other:** USB connector



## ***Digital Camcorder***

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