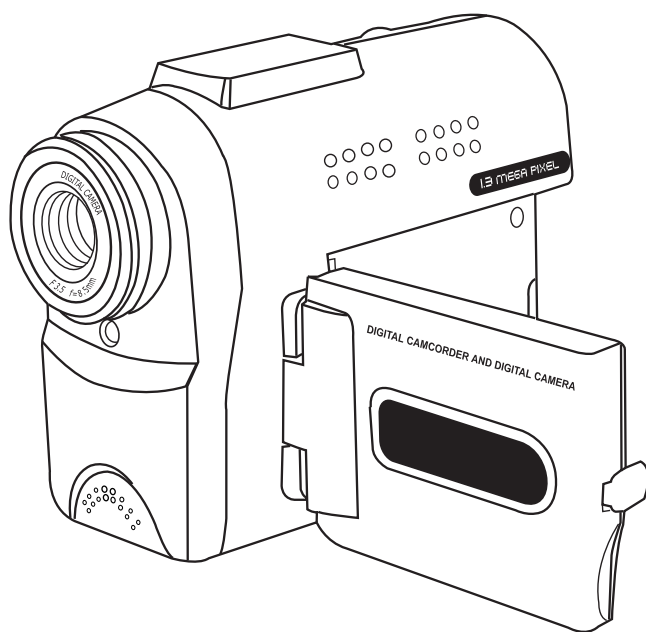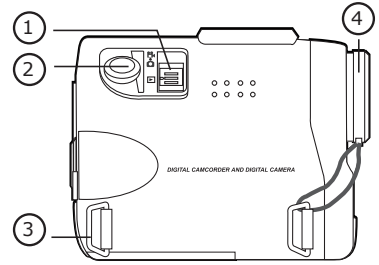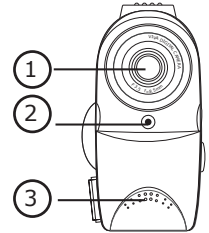# SPYPEN AIAS/ VIVA-DV1

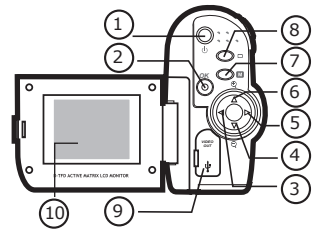# User's Manual

Product Overview

1. Capture / Playback Selector
2. Shutter button
3. Hand Strap holder
4. Lens Cap

1. Lens
2. Status LED
3. MIC

1. Power On / Off button
2. Confirm button
3. Left button
4. Down / Zoom out button
5. Right button
6. Up / Zoom in button
7. Mode button
8. LCD & ICON On / Off button
9. Video output slot & USB slot
10. TFT LCD Panel

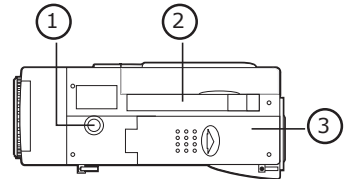1. Tripod hole
2. SD/MMC card slot
3. Battery door

Table of Contents

● What can I do with my Camera?

Capture   Enjoy point & shoot operation. Store pictures and video clips on the internal memory or a SD/MMC Card.

Set Up   Select various camera settings.

Communicate   Use the camera as a web camera. (PC only)

● What can I do with my Digital Pictures?

View   View pictures on a computer using the Arcsoft® Software supplied.

Save   Save pictures to the computer memory by Mass Storage interface.

Communicate   Send the pictures over the Internet to family and friends.

● What can I do with my Video clips ?

Playback   Playback video clips on a computer using the Arcsoft® Software supplied.

Save   Save video clips to the computer memory by Mass Storage interface.

Communicate   Send the video clips over the Internet to family and friends.

● Camera Package Contents
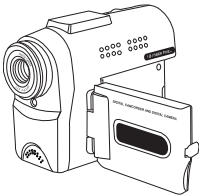
SPYPEN AIAS/ VIVA-DV1

Lens Cap with Strap

Warranty Card
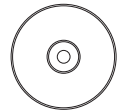
The CD-ROM includes
Digital Video Manager (PC & Mac)
Microsoft® NetMeeting™(PC)
Adobe® Acrobat® Reader(PC & Mac)
User manual (PC & Mac).
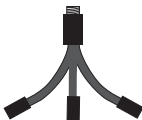
Pouch   Tripod   USB Cable   AV Cable   Hand Strap

● Installing the batteries
1. Open the battery door at the bottom of the **SPYPEN AIAS/VIVA-DV1**, follow the arrow direction.
2. Insert 2 x AA battery follow the polarity, showed in the battery compartment.
3. Close the battery door.

PUSH
TO OPEN
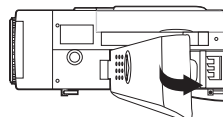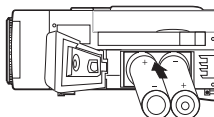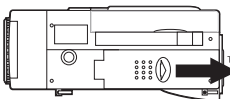
● Turning the Camera On and Off

For start with Capture Mode
1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel
3. Press and hold the Power On/Off button ⏻ until the LCD on
4. You will see "VIDEO" / "STILL IMAGE" / "AUDIO" / "PC/MAC" on the Display

For start with Playback Mode
1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press and hold the Power On/Off button ⏻ until the LCD on
4. You will see "VIDEO"/"STILL IMAGE"/"AUDIO" on the Display

To start capture or playback Video/Images, Please refer to Chapter 2 and Chapter 3.

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2 Recording Video/Still Image/Audio

Note
Scene complexity affects a picture's file size. For example, a picture of tree in autumn has a larger file size than a picture of blue sky at the same resolution and quality setting. Therefore, the number of pictures and the length of the video clip you can store on the memory card and internal memory may vary, and the image counter is for reference only. (i.e, may not deduce one by one)

● Recording Video/Still Image/Audio

Video
1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to Zoom in and Zoom out
7. To start capture Video, press the shutter button fully down
8. Record time counter will show on the top right hand corner of the LCD
9. To stop capture Video, press the shutter button fully down again

Still image
1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to Zoom in and Zoom out
7. To start capture Still image, press the shutter button fully down to take a picture

Audio
1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "Audio" on the LCD Display
5. Press OK Button *OK* to confirm
6. To start capture audio, press the shutter button fully down
7. Record time counter will show on the top right hand corner of the LCD
8. To stop capture audio, press the shutter button fully down again

Default----video

Start A

5

● Setting Picture/Video clip Quality
1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel 📷
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "Video" or "Still Image" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "Quality"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button to set the Quality. ie Super Fine/Fine/Economy.
10. Press OK Button *OK* to confirm Quality selected
11. Press LEFT button ◀ to resume capture mode

Press ▶ to pop out the menu.
Press ◀ to return to the previous screen.
Default----video

Press ▲ ▼ to select item.
Main Menu

Press ▲ ▼ to select item.

● REC		OK	★ ★ 🎥 00'00 ⏱ VIEWING	▶ ◀	▶ LANGUAGE QUALITY W. BALANCE TIMER TIME FORMAT ANTI-FLICKER	▶ ◀	SUPER FINE FINE ECONOMY
🎥 VIDEO 🖼 STILL IMAGE 🔊 AUDIO 🖥 PC/MAC		MENU					

Press *OK* to confirm the quality and return to main menu.

Start A
Press Shutter down fully to record; press shutter down fully to stop.

● Setting Self-timer
Your Camera is designed with a self timer function which will allow you to take pictures with a 10 second timer built in.
1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel 📷
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" or "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "Timer"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button and select "ON" to activate self timer
10. Press *OK* to confirm Self-timer activated
11. Press LEFT button ◀ to resume capture mode

Press ▶ to pop out the menu.
Press ◀ to return to the previous screen.
Default----video

Press ▲ ▼ to select item.
Main Menu

Press ▲ ▼ to select item.

● REC		OK	★ ★ 🎥 00'00 VIEWING	▶ ◀	▶ LANGUAGE QUALITY W. BALANCE TIMER TIME FORMAT ANTI-FLICKER	▶ ◀	ON OFF
🎥 VIDEO 🖼 STILL IMAGE 🔊 AUDIO 🖥 PC/MAC		MENU					

Press *OK* to select the item and return to main menu.

Start A
Press Shutter down fully to record; press shutter down fully to stop.

Remarks:
Press any button within the 10 second self-timer will disable the Self-timer function.

● Using the SD (Secure Digital) Card or MMC Card
Your camera comes with approximately 7MB of built-in flash memory for storing pictures/video clip/ audio. You can expand memory using a commercially available SD Card/MMC Card. The camera senses whether a memory card is inserted, and automatically saves pictures accordingly. Note that you can not save pictures to built-in flash memory while a memory card is installed in the camera.

IMPORTANT!
- Make sure you turn off the camera before inserting or removing a memory card.
- Be sure to orient the card correctly when inserting it. Never try to force a memory card into the slot when you feel resistance.
- Though the camera also supports use of an MMC (MultiMediaCard) in place of an SD memory card, the data processing speed in the case of an MMC is much slower than that for an SD memory card. Because of this , we recommend that you choose an SD memory card whenever possible.
- SD memory cards have a write protect switch, which you can use to protect against accidental deletion of picture data. "Whenever you want t orecord, format or delete item in the SD Card, you must disable write protection before any of above to action."

Inserting the SD (Secure Digital) Card / MMC Card
Turn off the camera and open the SD card slot cover as illustrated. Insert the SD card/MMC Card, ensure the card is inserted the correct position as illustrated, close the card door before using the camera.
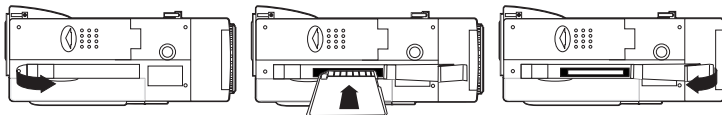
Removing the SD (Secure Digital) Card/ MMC Card
To remove the SD card, turn off camera , open the SD card slot cover, gently use your finger to push the SD card inwards and then release it for the SD card to bounce out of the SD card slot as illustrated.
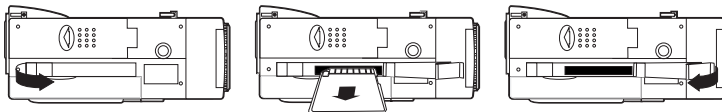
IMPORTANT!
- Never insert any other object which is not SD Card or MMC Card into the camera's card slot. Doing so creates the risk of damage to the camera and card.
- Make sure that the terminals of the memory card is facing towards the front of the camera.
- Should water or any foreign object ever get into the card slot, immediately turn off the camera, remove the batteries or disconnect the AC adaptor, and contact your dealer or nearest service provider.
- Never remove a card from the camera while the camera is powered on. Doing so can cause the picture record operation to fail, and even damage the memory card.

Format the SD Card/MMC Card or the Internal Memory
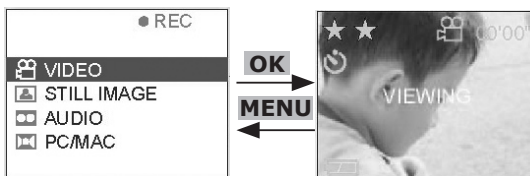Formatting a memory card will deletes all data already stored on it.
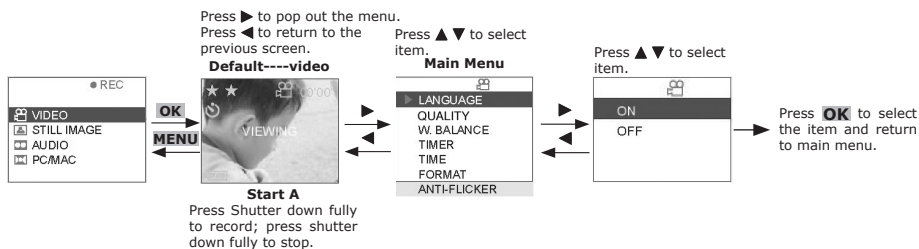1. Select the Capture/playback selector to Capture Mode
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" or "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "FORMAT"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button and select "YES" to format card(SD/MMC card) or format memory(internal)
10. Press *OK* to confirm Format
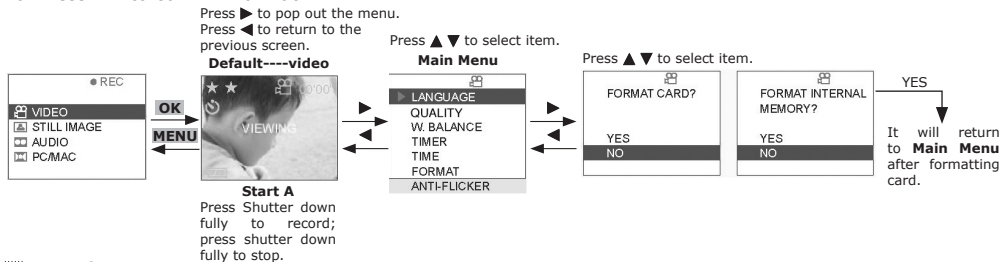
Remarks:
When SD Card or MMC Card inserted, Internal Memory will be disable.

IMPORTANT!
- You can format a memory card on the camera or on a computer. However formatting a memory card on a computer takes much longer time.
- Note that data deleted by a format operation can not be recovered. Make sure you do not need any data currently stored on a memory card before you format it.
- Formatting a memory card that contains pictures deletes all the pictures, even those that are protected.

Memory Card Precautions
1. Use only a SD memory card or a MultiMediaCard with this camera. Proper operation is not guaranteed when any other type of card is used.
2. Electrostatic charge, electrical noise, and other phenomena can cause data to become corrupted or even lost. Always make sure that you always back up important data on other media (MO disc, computer hard disk, etc.).
3. If a memory card starts to behave abnormally, you can restore normal operation by reformatting it. However, we recommend that you always take along more than one memory card whenever using the camera far away from the home or office.
4. We recommend that you format a memory card before using it for the first time after purchasing it, or whenever the card you are using seems to be the cause of abnormal pictures. Also format a memory card if it was used in another digital camera or other device.

Note:
There is no speaker built-in. Audio file or sound of Video clip cannot be playback by the camera.

● Playback Video/Still Image using the camera LCD
Playback Video on camera LCD
1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to playback.
   OR you can press the DISPLAY button |▢| to show Thumbnails and use the four direction button to select requested file.
7. Press *OK* Button to confirm
8. The selected Video file shown in the LCD display

Press **OK** to play the VIDEO.
Press **OK** to stop.
Press ▲ ▼ to view the files. Press ▲ ▼ to select item.
Default----video

Start A

ERROR MESSAGE

Press |▢| to show thumbnail.

Press |▢| or **OK** to **Start A**
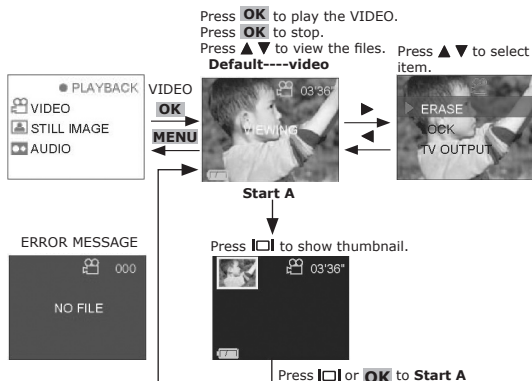
Playback still image on camera LCD
1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to playback.
   OR you can press the DISPLAY button |▢| to show Thumbnails and use the four direction button to select requested file.
7. Press OK Button *OK* to confirm
8. The selected image file shown in the LCD display.

Press ▲ ▼ to view the files.
Default----video

Press ▲ ▼ to view the files.

Press ▲ ▼ to select item.

Start A   **Start B**   **Start C**

ERROR MESSAGE

NO FILE

Press |▢| to show thumbnail or Full screen.

Press |▢| or **OK** to **Start C**

Remarks:
Since there is no built-in speak, audio playback can only be done by TV.

● Playback Video/Still Image/Audio on TV

Playback Video on TV
1. Connect the **SPYPEN AIAS/VIVA-DVI** to the TV using the AV cable provided
2. Select the Capture/playback selector to playback Mode ▶
3. Pull left to open the LCD panel
4. Press the Power On/Off button ⏻ until the LCD on
5. Press UP ▲ and DOWN ▼ button to select "VIDEO" on the LCD Display
6. Press OK Button *OK* to confirm
7. Press UP ▲ and DOWN ▼ button to select files you want to playback. OR you can press the DISPLAY button |▢| to show Thumbnails and use the four direction button to select requested file.
8. Press OK Button *OK* to confirm
9. The selected Video file shown in the TV

   Note:
   If the color of the TV screen is not correct, you have to adjust the "TV output" format.

10. Press RIGHT button ▶
11. Press UP ▲ and DOWN ▼ button to select "TV OUTPUT"
12. Press RIGHT button ▶
13. Press UP ▲ and DOWN ▼ button to select NTSC/PAL
14. Press *OK*

Press OK to play the VIDEO
Press OK to stop
Press ▲ ▼ to view the files
Default----video

Press ▲ ▼ to select item.

TV OUTPUT

It will return to view files

Press |▢| to show thumbnail.

Press |▢| or OK to **Start A**

Playback Still image on TV
1. Connect the **SPYPEN AIAS/VIVA-DVI** to the TV using the AV cable provided
2. Select the Capture/playback selector to playback Mode ▶
3. Pull left to open the LCD panel
4. Press the Power On/Off button ⏻ until the LCD on
5. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
6. Press OK Button *OK* to confirm
7. Press UP ▲ and DOWN ▼ button to select files you want to playback. OR you can press the DISPLAY button |▢| to show Thumbnails and use the four direction button to select requested file.
8. Press OK Button *OK* to confirm
9. The selected Image file shown in the TV
10. Press RIGHT button ▶
11. Press UP ▲ and DOWN ▼ button to select "TV OUTPUT"
12. Press RIGHT button ▶
13. Press UP ▲ and DOWN ▼ button to select "NTSC" or "PAL"
14. Press *OK*

Press ▲ ▼ to view the files.
Default----video

Press ▲ ▼ to view the files.

Press ▲ ▼ to select item.

Start A   **Start B**   **Start C**

STILL IMAGE

ERROR MESSAGE
000
NO FILE

Press |▢| to show thumbnail or Full screen.

Press |▢| or OK to **Start C**

TV OUTPUT

It will return to view files
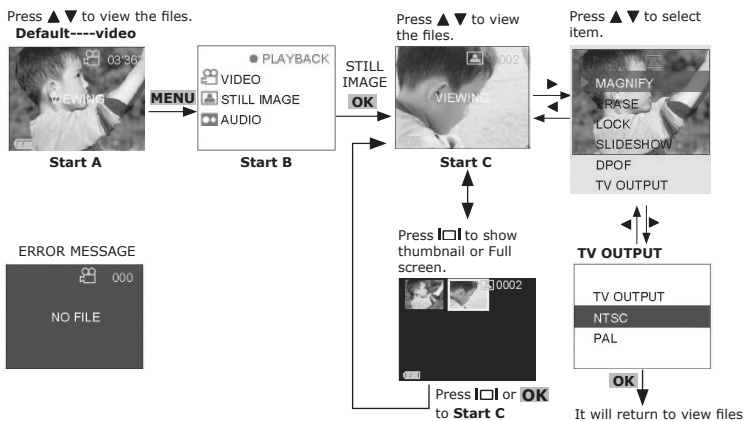
Playback Audio files on TV
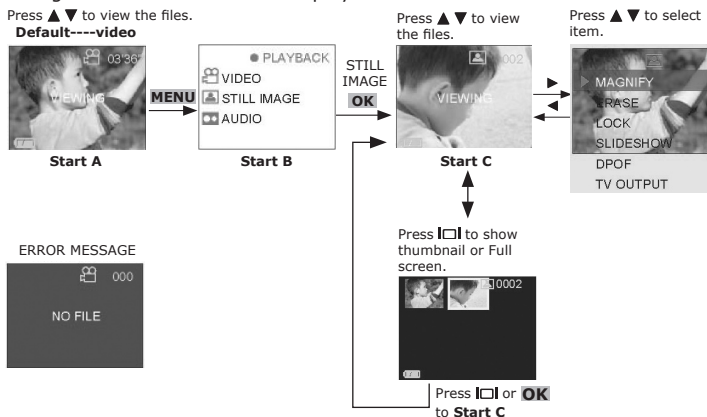1. Connect the **SPYPEN AIAS/VIVA-DVI** to the TV using the AV cable provided
2. Select the Capture/playback selector to playback Mode ▶
3. Pull left to open the LCD panel
4. Press the Power On/Off button ⏻ until the LCD on
5. Press UP ▲ and DOWN ▼ button to select "AUDIO" on the LCD Display
6. Press OK Button *OK* to confirm
7. Press UP ▲ and DOWN ▼ button to select files you want to playback.
   OR you can press the DISPLAY button |▢| to show Thumbnails and use the four direction button to select requested file.
8. Press OK Button *OK* to play the audio file
9. Press OK Button *OK* to stop playing the file

Press ▲ ▼ to view the files.
Default----video

MENU

● PLAYBACK
VIDEO
STILL IMAGE
AUDIO

AUDIO
OK

Press **OK** to play the Audio.
Press **OK** to pause.
Press ▲ ▼ to view the files.

001

Start A   **Start B**   **Start B**

ERROR MESSAGE

000
NO FILE

Press |▢| to show thumbnail.

001

Press |▢| or **OK** to
Start A
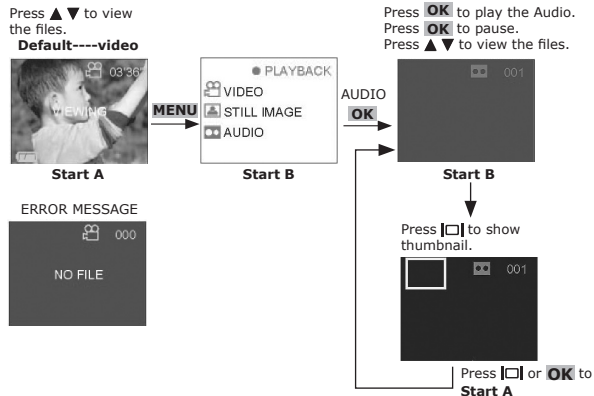
● **Play Slideshow**
1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to playback.
   OR you can press the DISPLAY button |▢| to show Thumbnails and use the four direction button to select requested file.
7. Press OK Button *OK* to confirm
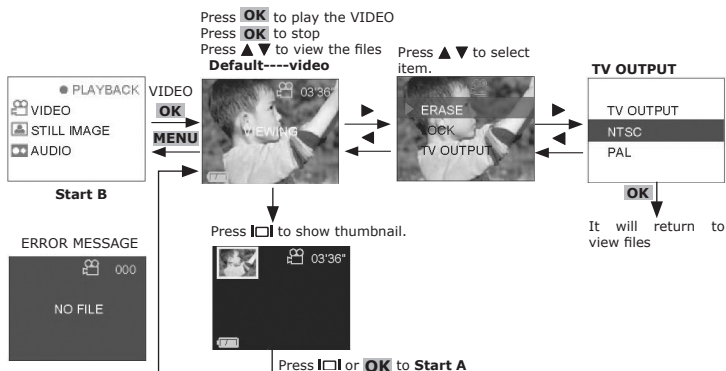8. The selected image file shown in the LCD display
9. Press RIGHT button ▶
10. Press UP ▲ and DOWN ▼ button to select "SLIDESHOW"
11. Press RIGHT button ▶
12. Press UP ▲ and DOWN ▼ button to select ON
13. Press *OK*
14. The camera will Start to slideshow. It will stop by pressing *OK*.

Press ▲ ▼ to view the files.
Default----video

MENU

● PLAYBACK
VIDEO
STILL IMAGE
AUDIO

STILL IMAGE
OK

Press ▲ ▼ to view the files.

VIEWING

Press ▲ ▼ to select item.

MAGNIFY
ERASE
LOCK
SLIDESHOW
DPOF
TV OUTPUT

Start A   **Start B**   **Start C**

ERROR MESSAGE

000
NO FILE

Press |▢| to show thumbnail or Full screen.

0002

Press |▢| or **OK** to **Start C**

SLIDESHOW

ON

ON

Start to Slideshow (It will stop by pressing **OK**)

10

● Protect the files

Lock one file

1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO/STILL IMAGE/AUDIO" on the LCD Display, depend on what kind of files you want to protect
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to protect
7. Press RIGHT button ▶
8. Press UP ▲ and DOWN ▼ button to select "LOCK"
9. Press RIGHT button ▶
10. Press UP ▲ and DOWN ▼ button to select "THIS" to protect the selected file
11. Press OK button *OK* to confirm protect selected file and return to previous screen. (It will UNLOCK THIS file by pressing the OK button *OK* again.)
12. A lock icon will so on the LCD, left of the picture no.

Lock ALL files

1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO/STILL IMAGE/AUDIO" on the LCD Display, depend on what kind of files you want to protect
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to protect
7. Press RIGHT button ▶
8. Press UP ▲ and DOWN ▼ button to select "LOCK"
9. Press RIGHT button ▶
10. Press UP ▲ and DOWN ▼ button to select "ALL" to protect all files
11. Press OK button *OK* to confirm protect all files and return to previous screen. (It will UNLOCK ALL files by pressing the OK button *OK* again.)
12. A lock icon will so on the LCD, left of the picture no.

● Delete files

To delete file inside the memory card or internal memory of **SPYPEN AIAS/VIVA-DV1**.

Delete One file

1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO/STILL IMAGE/AUDIO" on the LCD Display, depend on what kind of files you want to delete
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to delete
7. Press RIGHT button ▶
8. Press UP ▲ and DOWN ▼ button to select "ERASE"
9. Press RIGHT button ▶
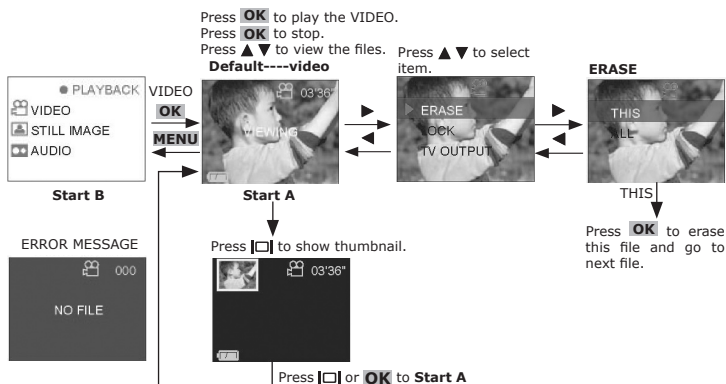10. Press UP ▲ and DOWN ▼ button to select "THIS" to delete the selected file
11. Press OK button *OK* to confirm delete selected file and return to next file

Press **OK** to play the VIDEO.
Press **OK** to stop.
Press ▲ ▼ to view the files.
Default----video

Press ▲ ▼ to select item.

ERASE

● PLAYBACK

VIDEO
STILL IMAGE
AUDIO

VIDEO
OK
MENU

ERASE
LOCK
TV OUTPUT

THIS
ALL

Start B

Start A

THIS

Press **OK** to erase this file and go to next file.

ERROR MESSAGE

000

NO FILE

Press |□| to show thumbnail.
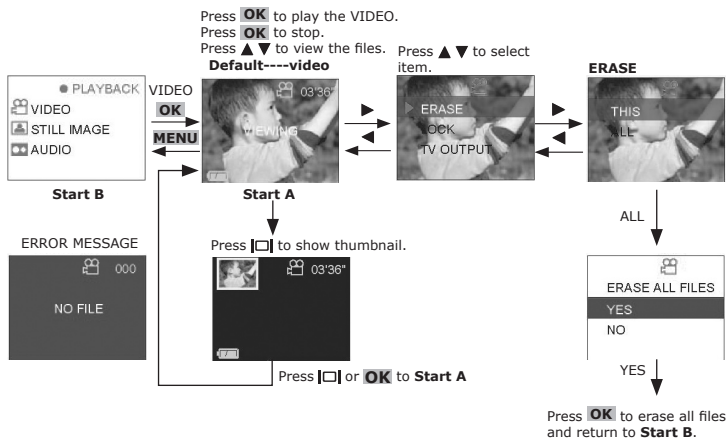
03'36"

Press |□| or **OK** to **Start A**

Delete ALL file

1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO/STILL IMAGE/AUDIO" on the LCD Display, depend on what kind of files you want to delete
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to delete
7. Press RIGHT button ▶
8. Press UP ▲ and DOWN ▼ button to select "ERASE"
9. Press RIGHT button ▶
10. Press UP ▲ and DOWN ▼ button to select "ALL"
11. Press OK button *OK* and then select YES for double confirm
12. Press *OK* to process delete all files

Press **OK** to play the VIDEO.
Press **OK** to stop.
Press ▲ ▼ to view the files.
Default----video

Press ▲ ▼ to select item.

ERASE

● PLAYBACK

VIDEO
STILL IMAGE
AUDIO

VIDEO
OK
MENU

ERASE
LOCK
TV OUTPUT

THIS
ALL

Start B

Start A

ALL

ERROR MESSAGE

000

NO FILE

Press |□| to show thumbnail.

03'36"

Press |□| or **OK** to **Start A**

ERASE ALL FILES
YES
NO

YES

Press **OK** to erase all files and return to **Start B**.

● Checking Camera Status

Switch the camera on, view the camera LCD screen to check which camera settings are active. If the feature icon is not displayed, means that particular feature is not activated.

Preview-Video Recording

Icon	Function	Default
88:88	Counter, to show remaining space for video recording MM:SS	Subject to the memory space left
★★★	Video Quality Setting ★★★ 640x480 (Super Fine) ★★ 320x240 (Fine) ★ 160x120 (Economy)	★★

(battery icons)	Show battery level:
	-Full Battery
	  All segments are set on
	-50% level
	  Frame and level indicator A are on
	-25% level
	  Frame and level indicator A are on
	-Battery is empty
	  Only frame is on
		Subject to battery voltage detected

Preview-Still Image

Icon	Function	Default
8888	Counter, to show remaining number of pictures can be taken	Subject to the memory space left
★★★	Image Quality Setting ★★★ 1280X1024 (Super Fine) ★★ 1280x1024 (Fine) ★ 640x480 (Basic)	★★

(battery icons)	Show battery level:
	-Full Battery
	  All segments are set on
	-50% level
	  Frame and level indicator A are on
	-25% level
	  Frame and level indicator A are on
	-Battery is empty
	  Only frame is on
		Subject to battery voltage detected

AMXX : XX **PMXX : XX**	Time function is turned on	Off

Preview-Audio Recording

Icon	Function	Default
88:88	Counter, to show remaining space for audio recording in MM:SS.	Subject to the memory space left

● Audio Beeper Information

Description	Device	Functions	Output
Beeper	Electronic Buzzer	a. Confirmation of press / selection b. Pressing wrong button c. Battery-low warning	a. One Beep b. Two Beeps c. Four Beeps

● Turn the icon off and turn the LCD off

To turn the icon off, just simply press the DISPLAY button |☐| once, press it again will turn off the LCD. To turn on the display again, press DISPLAY button |☐| one more time.

i.e. Press Display button |☐| (Turn off ICON). Press Display button |☐| (Turn off LCD display). Press Display button |☐| (Turn on ICON and LCD display)

● Setting White Balance

1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" or "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "W.balance"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button to select the white balance setting you prefers
10. Press OK button *OK* to confirm White Balance Setting selected and return to Main Menu
11. Press LEFT button ◀ to resume Capture Mode

Press ▶ to pop out the menu.
Press ◀ to return to the previous screen.

Default----video

Press ▲ ▼ to select item.

Main Menu

Press ▲ ▼ to select item.

Press *OK* to select the item and return to main menu.

Start A
Press Shutter down fully to record; press shutter down fully to stop.

LANGUAGE / QUALITY / W. BALANCE / TIMER / TIME / FORMAT / ANTI-FLICKER

AUTO / SUNLIGHT / CLOUD / INDOOR
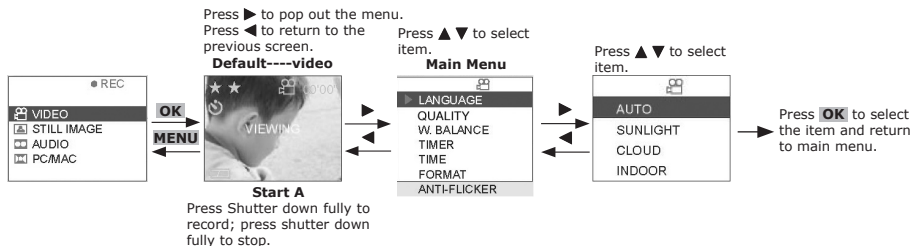
● Setting Time

1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" or "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "TIME"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button to adjust the number and press LEFT button ◀ and RIGHT button ▶ to select next item
10. Press LEFT button ◀ and RIGHT button ▶ to select the field you want to adjust
11. Select "OK" and press OK button *OK* to save the setting and return to main menu
12. Press LEFT button ◀ to resume Capture Mode

Press ▶ to pop out the menu.
Press ◀ to return to the previous screen.

Default----video

Press ▲ ▼ to select item.

Press ◀ ▶ to select item.

Press ▲ ▼ to adjust the number. Press ◀ ▶ to next item. Select "OK" and press OK to select the item and return to main menu.

Start A
Press Shutter down fully to record; press shutter down fully to stop.

Main Menu

LANGUAGE / QUALITY / W. BALANCE / TIMER / TIME / FORMAT / ANTI-FLICKER

2002 01 01
AM 12 00

OK   CANCEL

● Set Time Stamp (Still Image only)

1. Select the Capture/playback selector to Capture Mode
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "TIME STAMP"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button and select "ON" to activate Time Stamp
10. Press OK button *OK* to confirm time stamp activated and return to main menu
11. Press LEFT button ◀ to resume Capture Mode

Press ▶ to pop out the menu.
Press ◀ to return to the previous screen.

Default----video

Press ▲ ▼ to select item.

Press ▲ ▼ to select item.

Press *OK* to select the item and return to main menu.

Start A
Press Shutter down fully to record; press shutter down fully to stop.

Main Menu

● Set DPOF

NOTE:
• DPOF only available when SD Card or MMC Card is inserted.
• All DPOF files are protected. Users cannot delete them using the erase function.

1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to set DPOF.
   OR you can press the DISPLAY button to show Thumbnails and use the four direction button to select requested file.
7. Press OK Button *OK* to confirm
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button to select "DPOF"
10. Press RIGHT button ▶
11. Press UP ▲ and DOWN ▼ button to select "THIS" or "ALL"
12. Press *OK*
13. Press UP ▲ and DOWN ▼ button to select the number of copy you want
14. Press OK Button *OK* to confirm DPOF format and reutn to main menu

Press ▲ ▼ to view the files.
Default----video

Press ▲ ▼ to view the files.

Press ▲ ▼ to select item.

DPOF
THIS
ALL
RESET

Start A

Start B

STILL IMAGE

Start C

ERROR MESSAGE
000
NO FILE

Press to show thumbnail or Full screen.

Press or *OK* to **Start C**

COPY   01

Return to view files.
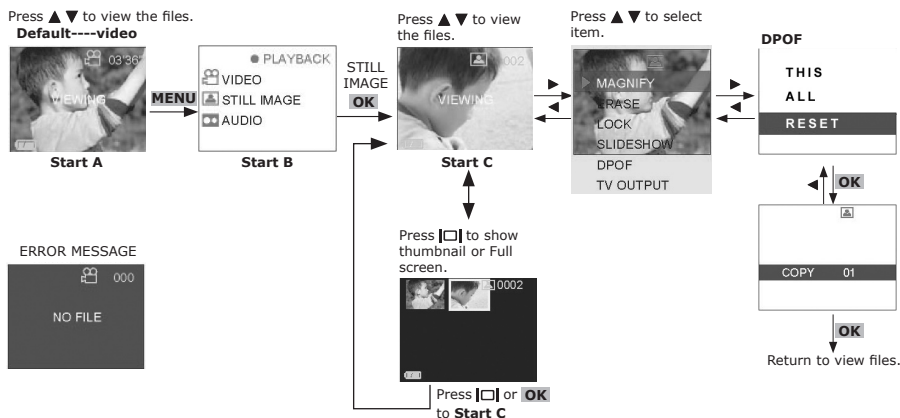
● Cancel DPOF

1. Select the Capture/playback selector to playback Mode ▶
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button to select files you want to cancel DPOF.
   OR you can press the DISPLAY button ⊡ to show Thumbnails and use the four direction button to select requested file.
7. Press OK Button *OK* to confirm
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button to select "DPOF"
10. Press RIGHT button ▶
11. Press UP ▲ and DOWN ▼ button to select "THIS" (If you want to cancel DPOF for all files, please select "RESET" and then go to step 14.)
12. Press *OK*
13. Press UP ▲ and DOWN ▼ button to select the number of copy to "00"
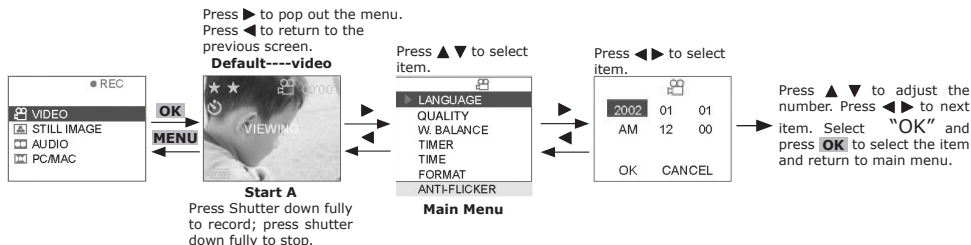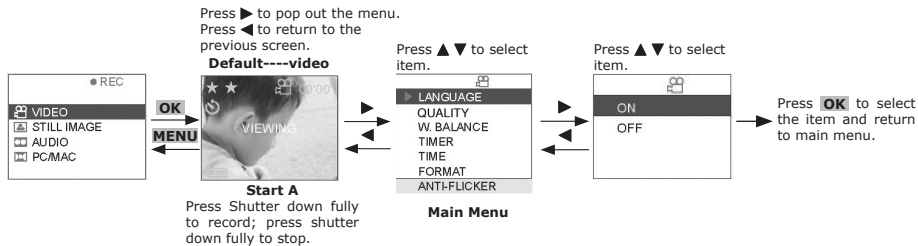14. Press OK Button *OK* to confirm and reutn to main menu

● Set anti-Flicker
1. Select the Capture/playback selector to Capture Mode 🎥 📷
2. Pull left to open the LCD panel
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "VIDEO" or "STILL IMAGE" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press RIGHT button ▶
7. Press UP ▲ and DOWN ▼ button and select "ANTI-FLICKER"
8. Press RIGHT button ▶
9. Press UP ▲ and DOWN ▼ button to select the according frequency. ie. 50Hz/60Hz.
10. Press OK button *OK* to confirm and return to main menu
11. Press LEFT button ◀ to resume Capture Mode

Press ▶ to pop out the menu.
Press ◀ to return to the previous layer.
Default----video

Press ▲ ▼ to select item.

Press ▲ ▼ to select item.

● REC

| ▦ VIDEO |
| ▣ STILL IMAGE |
| ▥ AUDIO |
| ▥ PC/MAC |

OK
MENU

VIEWING

▶ LANGUAGE
QUALITY
W. BALANCE
TIMER
TIME
FORMAT
ANTI-FLICKER
Main Menu

50 Hz
60 Hz

Press **OK** to select the item and return to main menu.

Start A
Press Shutter down fully to record; press shutter down fully to stop.
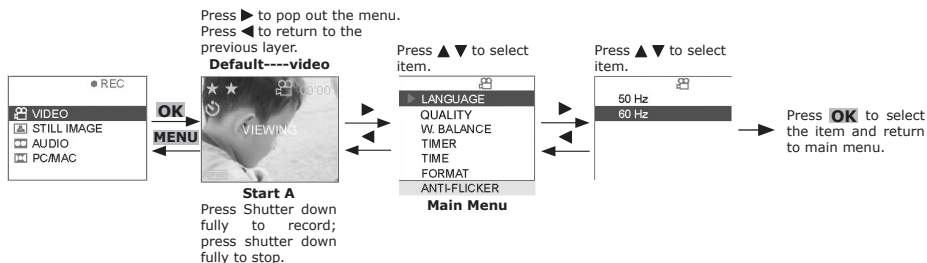
5 Installing the Software onto a Computer

● Install the software

For Windows® Users:

PC

📋 **IMPORTANT!**
- **MAKE SURE YOU INSTALL ALL THE SOFTWARE FROM THE CD SUPPLIED BEFORE YOU CONNECT YOUR CAMERA TO A COMPUTER AND TRANSFER PICTURES FROM YOUR CAMERA TO THE COMPUTER.**
- **If the computer request you to insert the Windows set up CD during the software installation, place the windows CD into the computer CD-ROM drive. The computer will install the necessary files from the CD automatically. After the installation is complete, remove the Windows set up CD and store safely.**

📋 **NOTE:**
Microsoft® NetMeeting™ is already bundle with Windows® 2000 and XP OS. Users using Windows® 2000 or XP do not need to install this software from the CD-Rom.

1. Before you begin, close all other software applications open on your computer.
2. Insert the CD supplied into the computer CD-ROM Drive.
3. The CD User Interface Screen will automatically launch.
4. With the mouse, click on each software interface button in turn and follow the on screen instructions.

Open & Close

📋 **NOTE:**
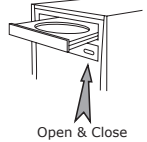If the setup screen doesn't appear after loading the CD, then you can manually start it by double-clicking the "My Computer" Icon on your desktop, then double-clicking the icon for the CD-ROM drive. When the CD-ROM window opens, double-click the "INSTALL-E.EXE" icon.

Digital Video Camera

Digital Video Manager	Adobe® Acrobat® Reader
Microsoft® NetMeeting™	User Manual
	EXIT

For Macintosh® Users:

MAC

📋 **NOTE:**
Digital Camera driver is no need for Macintosh. Therefore, Digital Camera Manager includes Arcsoft VideoImpression 1.6 only.

1. Before you begin, close all other software applications opened on your computer.
2. Insert the CD supplied into the computer CD-ROM Drive.
3. Double click the CD-ROM icon "Digital Video".
4. Install the software included.

● Software included with your camera
The **SPYPEN AIAS/ VIVA-DV1** software CD contains the following software:

Digital Video Manager
📋 **NOTE:**
For PC, Digital Video Manager combines ArcSoft® VideoImpression 1.6 and Digital Camera Driver.

For MAC, Digital Video Manager includes ArcSoft® VideoImpression 1.6 only.

Easy to use, just plug the camera to a computer and use it as a removable disk. Use the Arcsoft VideoImpression 1.6 software to create and edit new videos using existing video and images files – making desktop video presentations for home, business, and the web.

ArcSoft VideoImpression™ 1.6 *Movie Making Software*
ArcSoft VideoImpression™ is an easy-to-use video and image editing software program. The program enables users to create and edit new videos using existing video and image files - making desktop video presentations for home, business, and the Web.

Microsoft® NetMeeting™ *Web Cam software*
NetMeeting™ provides the most complete conferencing solution for the Internet and corporate intranet. Powerful features let you communicate with both audio and video, collaborate on virtually any Windows-based application, exchange graphics on an electronic whiteboard, transfer files, use the text-based chat program, and much more. Using your PC and the Internet, you can now hold face-to-face conversations with friends and family around the world.

Adobe® Acrobat® Reader *.PDF File Reading Software*
Adobe® Acrobat® Reader lets you view and print Adobe Portable Document format (PDF) files on all major computer platforms, as well as fill in and submit Adobe PDF forms online.

● Computer system requirements

For acceptable picture transfer and editing, we recommend the following minimum requirements:

For Windows® Users   **PC**

- Compatible with Microsoft® Windows® 98SE, Me, 2000 or XP
- Pentium® II 333MHz or equivalent processor
- USB Port
- 64MB RAM (128MB recommended)
- 200MB free disk space
- Color monitor with high color (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speakers

For Macintosh® Users   **MAC**

- Mac® OS Version 9.2 or above
- iMac / PowerMac G3 300MHz or higher
- USB Port
- 64MB RAM (128MB recommended)
- 150MB Free disk space
- Color monitor with high color (16-bit) graphic capability or higher
- CD-ROM drive
- Standard mouse and keyboard
- Stereo speakers

6 Transferring Pictures To Your Computer
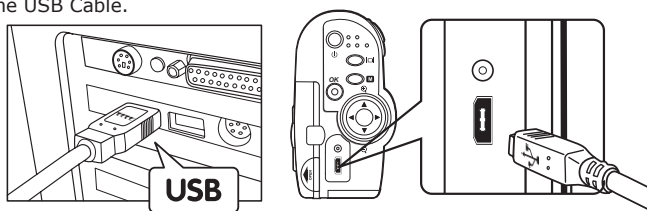
● Before you transfer pictures

IMPORTANT!
- **Before you transfer your pictures make sure you have installed the software from the CD.**
- **On Windows 98SE, Mass Storage function needs to install the Digital Video Manager.**

● Connecting to your computer

Connecting with the USB Cable.

USB

● Transferring Picture(s), Audio Clip(s) and Movie Clip(s) From Camera to PC   **PC**

1. Turn on the camera
2. Change to Capture 🎥 mode if your camera is in Playback mode ▶
3. Change to MASS STORAGE mode, by following the steps: PC/MAC -> PC-> MASS STORAGE
4. Connect the camera via the USB cable, the system will automatically recognize the Mass Storage drive.
5. PC will pump up the Mass Storage drive .
6. Please click the "Removable Disk" driver, you can get the photos and video clips that stored under "DCIM" sub-folders.
7. You can either copy the "DCIM" or copy the specified photo files into the hard disk.

● Transferring Picture(s), Audio Clip(s) and Video Clip(s) to MAC   **MAC**

1. Turn on the camera
2. Change to Capture 🎥 mode if your camera is in Playback mode ▶
3. Please change to MASS STORAGE mode, by following the steps: PC/MAC -> MAC->MASS STORAGE
4. Connect the camera with MAC via USB cable, the systems will automatically recognize the MASS STORAGE drive .

Note:
This Drive name will be varied from different version of MAC OS system.

5. Double-click the folder "untitled" to enter sub-folder "DCIM".
6. You can copy the photo(s), audio clip(s) or video clip(s) that stored under "DCIM" sub-folder.

● Capturing Live Video Using VideoImpression 1.6 (PC only)

IMPORTANT!

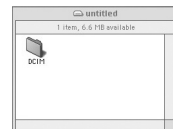**NetMeeting function or ArcSoft VideoImpression (live video) needs to install the Digital Video Manager.**

1. Turn on the camera
2. Change to Capture mode if your camera is in Playback mode
3. Please change to PC CAM mode, by following the steps: PC/MAC -> PC-> PC CAM
4. Run the "VideoImpression 1.6" and Click "New" to start
5. Click "Capture" to enter Capture Video mode.
6. User can get a "live" view from the screen.
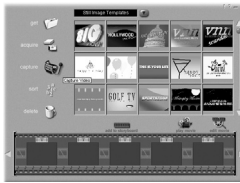
Click this button to get a live view!

7. Make sure that "WWL 601 Camera" is selected in the pull down menu.
8. Click "Record" button to start recording video.
9. Click "Stop" button to stop recording.
10. User can play the video by clicking "Play" button.

Record button   Stop button

11. User can click "Save" button to save the video that already created.
12. Type the appropriate file name, path and then click "Save".
13. Users can add the video clips into video templates by choosing "Yes"..
14. Enjoy your fun with SPYPEN AIAS/ VIVA-DV1 camera!

7 Using the Camera as a Web Cam

● Setting up NetMeeting
NOTE:
Set the camera to Capture mode 📹 and select PC Cam mode before starting NetMeeting™. Please refer to section 8 Using the Camera as a PC Cam for more detail information. 📷
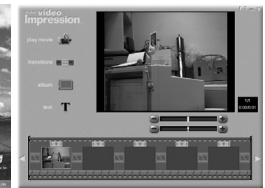
1. Connect your **SPYPEN AIAS/ VIVA-DV1** to the USB cable on one end.
2. Connect the USB cable to a USB port on your PC on the other end.
3. Put your **SPYPEN AIAS/ VIVA-DV1** on top of your PC monitor or another flat surface.
4. Connect your microphone (not included) to your audio card's external microphone connector.

● Start NetMeeting
NOTE:
For Windows XP / 2000 users who use NetMeeting for the first time , Go to Start -> Run ->type in "conf" ->click "OK" and then follow the on-screen set up instruction to set up NetMeeting.
1. Double click the "NetMeeting" icon on the desktop or select the "NetMeeting" icon from the Windows Start Menu.
2. If you need further help on how to use Microsoft® NetMeeting™, select the "Help" under the menu bar and choose the topic you need. You can also visit the website: http://www.microsoft.com/windows/netmeeting.
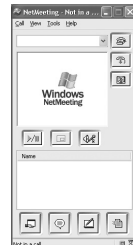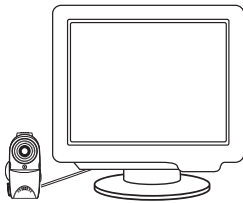
8 Using the Camera as a PC Cam (PC only)

IMPORTANT!
Before using the Web Cam function, make sure that your camera had been switched to PC Camera Mode. PC camera mode is not supported by Apple Macintosh.

● Setting to PC Camera
1. Select the Capture/playback selector to Capture Mode 📹
2. Pull left to open the LCD panel 📷
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "PC/MAC" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button and select "PC" to enter PC mode
7. Press UP ▲ and DOWN ▼ button to select "PC CAM" to the PC Camera on
8. Press *OK* to confirm
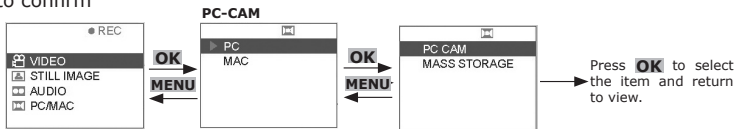
● Setting up PC Camera
1. Connect your camera to the USB Cable on one end.
2. Connect your USB Cable to USB Port on your PC on the other end.
3. Put your camera on the flat surface.
4. Open a PC Camera software then you can enjoy the conference.

● Setting Mass Storage to PC

Remarks:

The default setting of the camera is PC, Mass Storage.

PC

1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel 📷
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "PC/MAC" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button and select "PC" to enter PC mode
7. Press UP ▲ and DOWN ▼ button to select "MASS STORAGE" to the Mass Storage on
8. Press *OK* to confirm
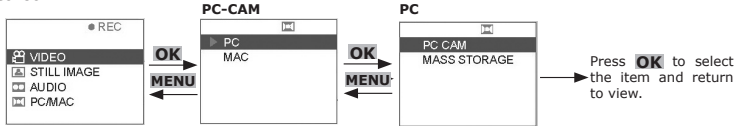
● Setting Mass Storage to MAC

MAC

1. Select the Capture/playback selector to Capture Mode 🎥
2. Pull left to open the LCD panel 📷
3. Press the Power On/Off button ⏻ until the LCD on
4. Press UP ▲ and DOWN ▼ button to select "PC/MAC" on the LCD Display
5. Press OK Button *OK* to confirm
6. Press UP ▲ and DOWN ▼ button and select "MAC" to enter MAC mode
7. Press *OK* to confirm
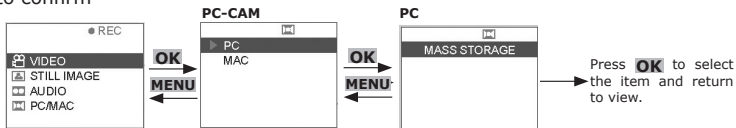
10 How to Uninstall Digital Video Manager (PC)

● How to Uninstall Digital Video Manager (PC)

In order to completely uninstall Digital Video Manager, you need to uninstall digital camera driver and ArcSoft VideoImpression 1.6 separately.

How to Uninstall Digital Camera Driver

PC

1. Click Window Start.
2. Go to Setting -> Control Panel
3. Double-click "Add or Remove Program"
4. Choose the "WWL 601 Camera" driver and Click "Change/Remove" to uninstall it.
5. Driver successfully uninstalled!!
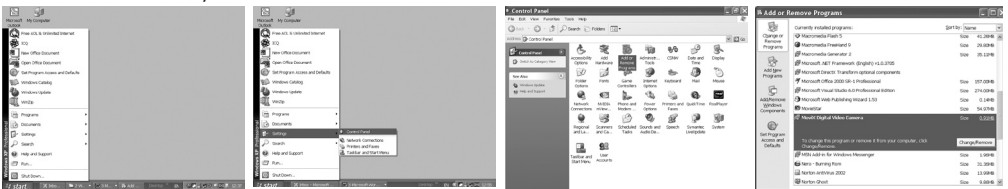
How to Uninstall ArcSoft VideoImpression 1.6

PC

1. Click Window Start.
2. Go to Setting -> Control Panel
3. Double-click "Add or Remove Program"
4. Choose the "ArcSoft Video Impression 1.6" and Click "Change/Remove" to uninstall it.

11 Troubleshooting Problems

● Troubleshooting

The troubleshooting guide is designed to help you. If problems continue, please call your local customer support hot-line. See your registration card for hotline contact details.

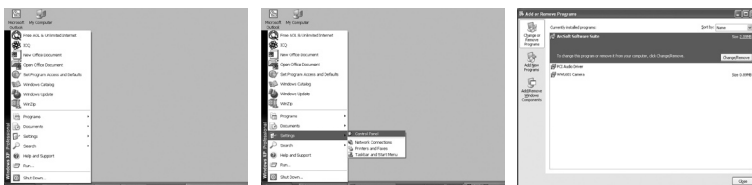| Symptom	Problem	Solution
I receive an error message when I am installing the **Digital Video Manager**.	**Digital Video Manager** does not load.	Shut down all other applications and attempt to reinstall the driver
		Check the USB controller in your BIOS if they are activated. If these do not work, contact your national Customer Support representative.
I cannot upload images to the PC.	Connection failure.	Check all cables connections are secured.
My **SPYPEN AIAS/ VIVA-DV1** camera can't be recognized by the system.	Conflict with another camera driver capture device.	If you have another camera installed on your computer, remove it and it's driver completely from your system to avoid conflicting with **SPYPEN AIAS/ VIVA-DV1** or capture device.
I press the shutter button and get no response.	The **SPYPEN AIAS/ VIVA-DV1** is processing the image.	Wait for this process to complete and then take your next image.
I get a blurred image when uploading my images to my computer.	There may be a momentary delay between pressing the shutter button and the actual exposure.	Hold your **SPYPEN AIAS/ VIVA-DV1** camera steady until you hear a "beep" which indicates the exposure is completed.
My **SPYPEN AIAS/ VIVA-DV1** Camera LCD displays show " 🔲 " and four beep sound will be heard.	This means there is insufficient power.	You need to replace the batteries.
My **SPYPEN AIAS/ VIVA-DV1** Camera hanged and all buttons do not work	Your camera may be affected by the electrostatic discharge	Take out all the batteries and disconnect the camera from the computer for 10 seconds. Re-insert the batteries again.
I cannot upload files to the PC in Windows 98SE	On Windows 98SE, Mass Storage function needs to install the **Digital Video Manager**.	Please insert PLAWA CD and click **Digital Video Manager** to install the driver.
There is no response in NetMeeting or ArcSoft VideoImpression (live video) when the camera is connected to the PC	NetMeeting function or ArcSoft VideoImpression (live video) needs to install the **Digital Video Manager**	Please insert PLAWA CD and click **Digital Video Manager** to install the driver.
	REC mode is not selected in your **SPYPEN AIAS/ VIVA-DV1** Camera	Set the camera to REC mode before connecting to your PC.
My CD installation wizard does not work.	The auto installation file is switched to off.	Go to the computer desktop Right click on "My Computer". Click "Properties". Select "Device Manager". Double click on "CD-Rom", double click on "CD-R" (Normally the manufacturer's name). Click on " Setting . Ensure "Auto insert notification " is ticked and the " disconnect " is ticked. If you change the settings the computer will ask you to restart your PC. Click " Yes "
	The CD ROM is disconnected.	You can manually start it by going to the Windows Desktop, double click "My Computer", double click your CD ROM icon and finally double click "INSTALL-E.EXE" file.
I cannot upload the images from the internal memory of the **SPYPEN AIAS/ VIVA-DV1** camera to PC.	The SD Card/MMC Card is inserted inside the SD Card/MMC Card slot.	The memory card with a higher priority than the internal memory for image storage or image transfer or delete.
I cannot switch on my **SPYPEN AIAS/ VIVA-DV1** Camera after inserting a SD Card/MMC Card .	The SD Card/MMC Card is not inserted properly.	Make sure the SD Card/MMC Card is inserted all the way in and close the slot door properly.
I press the shutter button and get no response.	The **SPYPEN AIAS/ VIVA-DV1** Camera is processing the image.	Wait for this process to complete and then take your next image.
	The internal memory or SD Card/MMC Card memory is full.	Delete some images in the internal memory of the camera or SD Card/MMC Card

Please also refer to the help files & User Guides that accompany the enclosed applications. For further information and support, please visit our website: http://www.spypen.com & http://www.plawa-digital.com/viva

● **Customer Support**
SPYPEN AIAS
plawa-feinwerktechnik GmbH & Co. KG
Bleichereistr. 18
73066 Uhingen - Germany
Helpline: +49 (7161) 93872-0 (English, Deutsch)
Website: www.spypen.com
Email: support@plawa.de

VIVA DV-1
plawa-feinwerktechnik GmbH & Co. KG
Bleichereistr. 18
73066 Uhingen - Germany
Helpline: +49 (7161) 93872-20 (English, Deutsch)
Website: www.plawa-digital.com/viva
Email: support_viva@plawa-digital.com

● **ArcSoft Software Help**
For North America
ArcSoft HQ Support Center
(Fremont California, CA)
Tel: 1-800-762-8657
(toll free number)
Fax: 1-510-440-1270
E-mail: support@arcsoft.com

For South & Central America
Tel: 1-510-979+5520
Fax: 1-510-440-1270
E-mail:latlnsupport@arcsoft.com

For China
ArcSoft China Support Center (Beijing)
Tel: 8610-6849-1368
Fax: 8610-6849-1367
E-mail: china@arcsoft.com

For Japan
ArcSoft Japan Support Center (Tokyo)
Tel: +81-03-3834-5256
Fax: +81-03-5816-4730
Web: http://www.mds2000.co.jp/arcsoft
E-mail: japan@arcsoft.com and
    support@mds2000.com

For Oceania
ArcSoft Australian Support Center
(Baulkham Hills, New South Wales)
Tel: 61 (2) 9899-5888
Fax: 61 (2) 9899-5728
E-mail: support@supportgroup.com.au

For Europe/Middle East/
Africa & Rest of the World
ArcSoft Europe Support Center
(Ireland)
Tel: +353-(0) 61-702087
Fax: +353-(0) 61-702001
E-mail: europe@arcsoft.com

Visit http://www.arcsoft.com for technical support and frequently asked questions (FAQ's).

13 Appendix

● **Technical Specifications**
- Sensor Size   1/2" 1.3M pixel (1280 X 1024)
- Focus Range   1.1m ~ Infinity
- Lens   F 3.5 f=8.54mm (equivalent to 43mm of 35mm Camera)
- Shutter Speed   1/4 ~ 1/1000 second, Auto control (electronic shutter)
- Microphone   Mono
- Display   1.7" TFT LCD Display
- Auto Power off   30 second
- Digital Zoom   2X
- White balance   Auto/sunlight/cloud/indoor selection
- Exposure   Auto
- I/O Port   TV output   stereo minijack
                     Memory slot Secure Digital card slot
                     USB   Standard mini B type (v 2.0)
- Memory   Internal   8MB NAND flash memory (approx. 7MB NAND flash for data storage
                     External   Secure Digital card (compatibility test range :8~128MB)
- Memory Priority   1. External memory (SD card / MMC)
                     2. Internal memory, disable if SD memory card inserted.
- Storable images   (based on 8MB internal memory - Approximately 7MB Nand Flash for data storage)
                     Super Fine resolution - Approximately 14 images at 1280 x 1024
                     Fine resolution - Approximately 34 images at 1280 x 1024
                     Economy resolution - Approximately 82 images at 640 x 480
- Video   (based on 128MB SD Card)
                     Super fine mode (8fps) - Approximately 7 minutes at 640 x 480
                     Fine mode (15fps) - Approximately 17 minutes at 320 x 240
                     Economy mode (15fps) - Approximately 56 minutes at 160 x 120
- Audio recording   Approximately 10 minutes for internal memory of approximately 7MB Nand Flash
- Battery   Type   Alkaline
                                   Compatible with rechargeable NiMH
                     SIZE   AA
                     Quantity   2 pieces

- Power Management Normal Use 30 seconds auto off.
Turn the camera into standby if no function is engaged over the time length for Auto Off. This shall be applied to all modes this camera has, except for PC mode

  Low Battery When "empty battery" is turned on, camera must be disabled from taking picture.
- Battery Life 1.Approx. 60 minutes at video continuous recording and playback mode
2.> 200 images (with LCD on) – using standard AA size fresh alkaline batteries

● Using your batteries
IMPORTANT NOTE:
A fresh alkaline battery provides an output voltage of 1.5V whereas a rechargeable battery available in retail stores generally has a lower output 1.2V. In order to maximize the performance of your **SPYPEN AIAS/ VIVA-DV1**, we recommend that you do not use rechargeable batteries.

WARNINGS!
- Batteries should be replaced by an adult.
- Do not mix different types of batteries or new and used batteries.
- Use recommended or equivalent type of batteries only.
- Insert the batteries with the correct polarity.
- Remove exhausted batteries from the camera immediately.
- Do not short the supply terminals.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- Do not dispose the batteries in fire.
- Remove batteries from the camera when not in use.
- Rechargeable batteries are not recommended.
These instructions should be retained for future reference.

● Tips, Your Safety & Maintenance
Your Camera should only be operated within the following environmental conditions;
- 41 - 104º Fahrenheit; 5 - 40º Celsius
- 20% - 85% relative humidity, non condensing
Battery life or image quality may be affected outside these conditions

⚠ Camera Cautions
- NEVER immerse any part of the Camera or its accessories into any fluid or liquid.
- ALWAYS disconnect the Camera from your PC or TV before cleaning it.
- ALWAYS remove dust or stains with a soft cloth dampened with water or neutral detergent.
- NEVER place hot items on the surface of the Camera.
- NEVER attempt to open or disassemble Camera as this will affect any warranty claim.

● Regulatory Information
FCC Notice
This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.
Shielded cable must be used with this unit to ensure compliance with the Class B FCC limits.
Under the environment with electrostatic discharge, the product may malfunction and require user to reset the product.