

DVR 949HD Digital Video Camera

User Manual



Vivitar®

© 2009-2012 Sakar International, Inc. All rights reserved.

Windows and the Windows logo are registered trademarks of Microsoft Corporation.

All other trademarks are the property of their respective companies.

Table of Contents

Introduction	2
What's Included	2
Parts of the Camera	3
Initial Camera Setup	4
Main Camera Modes.....	8
Camera Technical Specifications	9
Computer System Requirements	10
Powering ON/OFF Your Digital Video Camera.....	11
Changing Camera Mode	12
Navigating the Menus	13
Camera Options: LED Light, Macro Switch.....	16
Video Capture Mode	18
Video Playback Mode	28
Photo Capture Mode.....	33
Photo Playback Mode	47
Camera Setup.....	53
Slide Show	59
Power Off	59
Connecting the Digital Video Camera to the HDTV.....	60
Installing the Software	61
Connecting the Camera to the Computer	62
Getting Photos and Videos from Your Camera to Your Computer.....	63
Get Started!.....	64
Transferring Images from my Camera to my Computer Manually.....	64
Camera Maintenance.....	66
Sakar Warranty Card	66
Technical Support	67
Troubleshooting	67

Introduction

Thank you for purchasing this digital video camera. Everything you need to take quality digital photos and videos is included with your digital video camera.

Vivitar makes capturing those special moments as easy as possible.

NOTE: Your digital video camera needs an SD Memory card (up to 32GB) for normal use. SD Memory cards are not included and need to be purchased separately.

Important: You must use only a Class 4 ④ SDHC Memory card or higher.

Please read this manual carefully first in order to get the most out of your digital video camera.

What's Included

- 1) Digital Video Camera
- 2) USB cable
- 3) TV Cable
- 4) Vivitar Experience Image Manager Software
Installation CD
- 5) Lens Cover Strap
- 6) Hand Strap (not shown)



NOTE: Class 4 (or higher) SDHC Memory card and batteries not included.

Parts of the Camera



- | | |
|------------------------|-------------------------|
| 1. Power Button | 10. USB Port |
| 2. Home Button | 11. HDMI Port |
| 3. Digital Lens | 12. Hand Strap |
| 4. Lens Cover | 13. Tripod Mount |
| 5. Macro Switch | 14. SD Memory Card Slot |
| 6. Speaker | 15. Battery Compartment |
| 7. Shutter Button | 16. LED Light |
| 8. Zoom Out / Zoom In | 17. Microphone |
| 9. LED Light Indicator | 18. LCD Touch Screen |

Initial Camera Setup

After flipping open the LCD Touch Screen and powering the camera ON for the first time, the camera takes you through the Initial Camera Setup.

1) Installing the Batteries



Make sure the batteries have been inserted properly into your digital camera, according to the polarity shown inside the battery compartment. (See photo above.)

Use 4 x AAA (1.5V) batteries. Alkaline batteries are recommended. (Batteries not included.)

NOTE:

- Remove the batteries from the camera when not in use for an extended period.
- Do not mix alkaline and non-alkaline batteries.
- Some camera features will not work if the battery power level is low.
- When the battery power is low the battery icon turns red and the camera automatically turns off a few seconds later.
- The energy status of the power is displayed on LCD as shown below:



Full battery power



Medium battery power



Low battery power

2) Installing the SD Memory Card

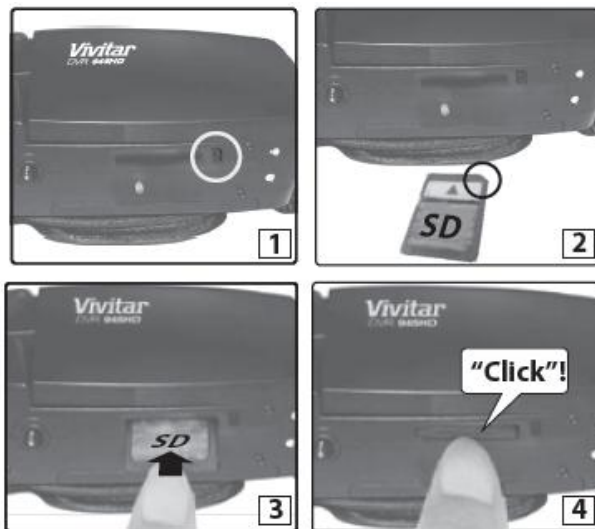


IMPORTANT: You must use only a Class 4 SDHC Memory card or higher.

Make sure a Class 4 (or higher) SD card (up to 32GB) has been properly inserted into your camera. SD card not included.

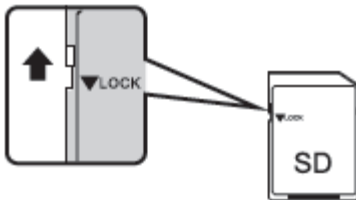
To properly insert the SD Card:

- Push the SD card into the slot in the direction as shown SD card icon on the camera. (See images below: 1 and 2.)
- Push the SD card until you hear a slight clicking sound. This indicates the SD card has been inserted correctly. (See images below: 3 and 4.)



NOTE:

- After the camera is powered on, the SD icon will appear on the LCD display. If you do not see the SD icon on the display, please check if the card was inserted properly.
- Make sure the SD card is not locked (check the lock switch on the side of the SD card).
If the SD card is locked this will prevent the camera from saving captured photos to the SD card.

**3) Powering ON the camera**

Flip open the LCD screen. Press the  **POWER** button to turn on the camera.

**4) Setting the Camera Language**

- You will first be prompted to select a language for the camera.
The Language options appear. Drag up or down to scroll and view the menu options.
- Select the language of your choice and tap **SAVE & EXIT** to confirm the selection.
- After selecting a language, you will be asked if you would like to continue with the initial camera setup. The following message appears: “Continue with Camera Setup?”
Tap “Yes” to continue or “No” to exit the setup.

NOTE: If you select “No” and decide to leave the camera setup, the camera will be set to its default settings. These settings can be adjusted at any time manually through the menus of the camera.

5) Setting the Date and Time

The next step in the initial camera setup is to set the date and time on the camera.

- Drag up or down to scroll and view the Date and Time options.
- Set the Date and Time as desired and tap **SAVE & EXIT** to confirm the selection and move to the next part of the camera setup.

6) Setting the ViviliLink Default Option

Once the Date and Time have been set, you will be asked to set the default ViviliLink destination for photos and videos taken with your camera.

The ViviliLink technology allows you to quickly and easily upload your camera’s photos and videos to the social networks of your choice with the accompanying software application.

- First you will be asked to choose the default ViviliLink social network for Photos.
Drag up or down to scroll and view the ViviliLink for Photos options and then tap **SAVE & EXIT** to confirm your selection.
- Next you will be asked to choose the default ViviliLink social network for Videos. Drag up or down to scroll and view the ViviliLink for Videos options and then tap **SAVE & EXIT** to confirm your selection.

Congratulations! Your camera is now ready to use.

Main Camera Modes

Your camera has different modes for the various camera functions.

You can switch modes by pressing the **HOME** button to the left of the LCD screen. The Home menu is shown on the LCD. Tap **Camera**, **Video**, or **Playback** to change your camera mode.



Video Capture Mode

Use this mode to capture videos with your digital camera.

This is the default mode when the camera is powered ON.

To take a video, aim your camera as desired and press the **Shutter** button to start the record. A red record indicator will appear on the LCD screen while record is in progress. To stop the record, press the **Shutter** button again. The video will be automatically saved to your camera's memory card.

To access the various menus for the Video Capture Mode, tap **MENU** while in the Video Capture Mode.



Photo Capture Mode

Use this mode to capture pictures with your camera.

After turning on your camera, press the **HOME** button to open the Camera Mode options. Tap **Camera** to enter Photo Capture Mode.

To take a picture, aim your camera as desired and press the **Shutter** button.

The picture will be automatically saved to your camera's memory card.

To access the various menus for the Photo Capture Mode, tap **MENU** while in the Photo Capture Mode.



Playback Mode (Photos & Videos)

Use this mode to view and manage the videos and photos seen on your camera - saved to your SD memory card. After turning on your camera, press the **HOME** button to open the Camera Mode options. Tap **Playback** to enter the Playback Mode for photos and videos. You can scroll through the photos and videos that you've previously taken to view, edit or delete them as desired.

To access the various menus for the Playback Mode for photos and videos, tap **MENU** while in the Playback Mode.

Camera Technical Specifications

Image Sensor	CMOS Sensor
Image Resolution	4032x3024(12.1M) / 3648x2736(10M) / 3648x2048(7MHD) / 2592x1944(5M) / 2048x1536(3.1M) / 1920x1080(2MHD) / 640x480(VGA)
Video Resolution	1920x1080 (FHD) / 1280x720 (HD) / VGA 640x480 / QVGA 320x240
File Format	JPEG (Photo) / AVI (Video)
Internal Memory	16MB SDRAM (Buffer) - enough for 1 sample photo
External Memory	Class 4 (or higher) SDHC Memory card (up to 32GB)
LCD Display	2.7 Inch Touch TFT
Lens	f=6.8mm, F2.8
Zoom	4X Digital Zoom
Exposure	-3.0EV ~ +3.0EV
White Balance	Auto / Daylight / Cloudy / Fluorescent / Incandescent
ISO	Auto / 100 / 200 / 400
Scene	Auto / Scenery / Portrait / Night Scenery / Night Portrait / High Sensitivity / Beach
Language	English / Russian / German / Spanish / French / Italian / Portuguese / Dutch / Turkish
Flash	2 LED Flash lamps
Self-Timer	2 / 5 or 10 second delay
Anti-Shake	Yes
Print Photos	Yes
Face Detect	Yes
Macro Switch	Yes
Interface	USB 2.0 High Speed
System Requirements	Windows XP (SP 3), Vista (SP1) and Windows 7 ; Mac OSX v10.5.x and above
Battery	4 x AAA (1.5V) batteries (not included)
Working Temperature	0~40 °C

Computer System Requirements

WINDOWS

To be able to download photos and videos to your PC, you will need the following minimum configuration:

- MICROSOFT® Windows XP with Service Pack 3, Windows Vista with Service Pack 1 or Windows 7
- Pentium® 4 processor (or above)
- 1 GB of RAM, with 250 MB of free hard disk space
- 16-bit Color monitor, 1024 X 768 recommended screen resolution
- CD-ROM Drive
- QuickTime® 6 or higher
- MICROSOFT® Internet Explorer 7 or higher
- Windows Media Player 10 or higher
- DirectX 9 or higher
- Internet connection required

MACINTOSH

To be able to download photos and videos to your Macintosh, you will need the following minimum configuration:

- Intel Processor running Mac OS X v10.5.x or later
- 1 GB RAM, 250 MB free hard disk space
- Display: 1024 x 768 or higher-resolution monitor
- CD-ROM Drive
- QuickTime® 6 or higher
- Internet connection required

Powering ON/OFF Your Digital Video Camera

- Make sure the batteries have been installed properly into your digital video camera.
- Make sure an SD card has been installed properly into your camera.
(SDHC Class 4 card up to 32GB - SD Card not included)

Powering the camera ON

Flip open the LCD display panel. Press the  **Power** button to turn your camera ON.

The camera will be in Video Capture Mode to start.

Powering the camera OFF

While the camera is on, you can press the  **Power** button again at any point to turn your camera OFF. You will see a “Goodbye” splash screen and then the camera will power off completely.

Alternatively, you can press the **HOME** button and then tap the **Power Off** icon. Tap ‘Yes’ to select to power off the digital video camera.

NOTE: Your digital video camera also has an Auto Power Off feature that automatically turns off your camera after a specific period of time that your camera is left idle. The Auto Power Off time can be set from the Settings/Auto Off menu settings.

Changing Camera Mode

Your camera has three main modes:

- 1) **Video Capture Mode** - Use this mode to capture videos with your camera.
- 2) **Photo Capture Mode** - Use this mode to capture photos with your camera.
- 3) **Playback Mode (for photos and videos)** - Use this mode to view the photos and videos you have already taken with your camera.

When the digital video camera is first powered ON, the Video Capture Mode will be active. The icons that appear on the LCD screen are the best default settings so that you can begin to capture and enjoy clear quality videos and photos.

To change the active digital video camera mode:

- Make sure the digital video camera is powered ON.
- Press the **HOME** button on the left of the LCD Panel.
- Tap one of the following icons to select the active camera mode:



Camera



Video



Playback



When in Video Capture Mode, this icon will display on the top-left corner of the LCD display



When in Photo Capture Mode, this icon will display on the top-left corner of the LCD display



When in Playback Mode, this icon will display on the top-left corner of the LCD display

Navigating the Menus

You camera includes the following menus:

- **Home Menu**
- **Camera Mode Menu**
- **Camera Setup Menu**

You can access and change camera settings by the following methods:

1) Icons on the LCD Touch Screen:

While in the Photo, Video, Playback Modes in Preview/Standby: You can toggle between the menu options each time you tap a menu icon that appears on the LCD screen until you see the desired option.

2) Menu Screens:

Enter the menu screens and select the desired option.

Please see information below for more details regarding this method.

Home Menu

The Home screen menu allows you quick access to the camera modes and settings as well as to the photo slideshow and the power off.

- 1) Press the **HOME** button located on the left side of the LCD touch screen.
- 2) The following menu options appear on the Home screen:



Camera

Tap to enter Photo Capture Mode



Video

Tap to enter Video Capture Mode



Playback

Tap to enter Playback Mode

**Setup**

Tap to enter Camera General Settings

**Slide Show**

Tap to begin Photo Slide Show

**Power Off**

Touch to Power off your digital video camera

**Camera Mode Menus**

Each camera mode has a set of menus specific to that mode.

1) Enter the Main Menu Screen from Video Capture, Photo Capture or Playback Mode:



Tap **MENU** as seen on the bottom left of the LCD touch screen to open the menus for the current mode.

2) Select a Main Menu Option:

- Drag up or down to scroll and view the main menus.
- To select a menu, tap the desired menu icon to open the various options for that menu.

NOTE: To exit the menu screen without selecting a menu, tap  **Exit** and return to the current mode.

3) Selected a Sub-Menu Option:

- Drag up or down to scroll and highlight the desired menu option.
- Tap **SAVE & EXIT** to confirm and select the highlighted menu option.

NOTE: Changes made to these options will remain as is until you decide to change them again at a later time.

4) The selected option icon appears on the touch LCD screen.

NOTE: Some menu options are single-use functions that are not remembered by the camera and do not display an icon on the LCD screen.

For more details regarding specific menus, please refer to the menu information listed for each mode.



Camera Setup Menus

The general settings for your digital video camera can easily be changed at any time.

1) Press the **HOME** button to the left of the LCD touch screen to open the Home screen options.

2)  Tap the **Setup** icon to enter the menu options for your camera general settings.

3) Select a Setup Option:

- Drag up or down to scroll and view the main Setup menus.
- To select a Setup menu, tap the desired menu icon to open the various options for that menu.

NOTE: To exit the Setup screen without selecting a menu, tap  **Exit** and return to the Home Menu screen.

4) Selected a Setup Sub-Menu Option:

- Drag up or down to scroll and highlight the desired menu option.
Alternatively, simply tap and highlight the desired option.
- Tap **SAVE & EXIT** to confirm and select the highlighted menu option.

NOTE: Changes made to these options will remain until you decide to change them again at a later time.

5) The selected option icon appears on the touch LCD screen.

NOTE: Some menu options are single-use functions that are not remembered by the camera and do not display an icon on the LCD screen.

For more details regarding specific Setup menus, please refer to the 'Setup Menu' section of this manual.

Camera Options: LED Light, Macro Switch

LED Flash Light Option

To increase the lighting in dark situations while capturing videos and photos, use the 2 LED Flash Lights on the front of the camera below the lens.

LED ON:

- Tap the **LED** icon, located on the bottom left section (above the MENU) of the LCD touch screen. This changes the icon and activates the LED Lights.
- When the LED lights are on, the following icon appears on the LCD screen: 

LED OFF:

- Tap the **LED** icon on the LCD screen.
- When the LED lights are off, the following icon appears on the LCD screen: 

Macro Option

Your digital video camera contains a Macro Switch that allows you to manually enable or disable the Macro mode on your camera. While using the Macro mode, you can capture images at close range (20 ~ 40 cm).

MACRO MODE ON:

To turn the Macro mode ON, slide the Macro Switch on the side of your camera DOWN to the flower icon .

- When enabled, the Macro mode allows your digital video camera to focus on an object that is close to the camera.
- The flower icon  will appear on the LCD and indicates that the Macro mode is ON.

MACRO MODE OFF:

To turn the Macro mode OFF slide the Macro Switch on the side of the camera UP to the mountain ▲ icon.

- The mountain ▲ icon will appear on the LCD display.
- When Macro mode is off, images can be captured from 1.5m - ∞ (infinity).

NOTE: The Macro mode must be turned **OFF** when you want to use the following features:

Flash, Face Detect, and Smile Capture.

Not all cameras included these features. Refer to the 'Camera Specifications' section to view the features included with this camera.

Video Capture Mode

The Video Capture Mode allows you to capture videos with your digital video camera.



When the camera is first powered ON, the camera will be in Video Capture Mode.

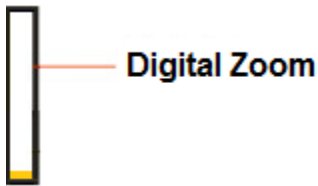
Taking a Video

- 1) While in Video Capture Mode use the LCD display to direct the camera at the scene you would like to capture.
- 2) You can magnify your subject up to 4 times using the digital zoom while capturing your photos and recording your videos.

Push the Zoom control button up, the **T**  button, to zoom in on the object.

Push the Zoom control button down, the **W**  button, to zoom back out.

The following Digital Zoom Indicator appears on the right side of the LCD screen:



The zoom indicating bar moves up when you Zoom In (**T**) and moves down when you Zoom Out (**W**).

- 3) Press the **Shutter** button on the top of the digital video camera to START the video capture.
- 4) A red, blinking icon appears at the top of the LCD screen indicating that the record is in progress.
On the top right, the recording time appears, indicating the amount of elapsed time as the video is being captured.
- 5) To STOP the video record, press the **Shutter** button again.
- 6) The video is automatically saved to the camera's SD memory card.

Video Capture Mode Menus

The following are the menus that appear in your camera's Video Capture Mode:



Reminder: While in Capture Mode, you can also change settings by tapping icons that appear on the LCD touch screen to toggle between the menu options until you arrive at your desired setting.



Scenery Menu

The Scene Menu allows you to choose scene settings that let your camera to adapt properly to your current environment.

The Scenery Menu Options include:



- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Scenery** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.

6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top left side of the LCD screen, below the Video Capture Mode icon.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Resolution Menu

The Resolution menu allows you to choose the desired size of the images taken by your camera. Keep in mind that images with a higher resolution will also take up more of your camera's memory.

The Resolution Menu Options include:

FHD	1920x1080
HD	1280x720
VGA	640x480
QVGA	320x240

1) Tap **MENU** to open the Main Menu Screen for the current mode.

2) Tap the **Resolution** menu icon to open the menu options.

3) Drag up or down to scroll and highlight the desired menu option.

4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.

5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
- Tap **Exit** to return to the Video Capture Mode.

6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top left of the LCD screen, to the right of the Video Capture Mode icon.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Quality Menu

The Quality menu allows you to select the desired quality level of the images taken by your camera. Keep in mind that images with a higher image quality level will also take up more memory on your camera.

The Quality Menu Options include:



- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Quality** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the bottom of the LCD screen.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



ViviLink Menu (for Videos)

The ViviLink technology allows you to quickly and easily upload your camera's photos and videos to the social networks of your choice with the accompanying Vivitar Experience Image Manager application.

The ViviLink for Videos Menu Options include:

	YouTube
	Photobucket
	Flickr
N	None

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **ViviLink** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top left side of the LCD screen, below the Video Capture Mode and Scenery icons.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.

NOTE:

- The ViviLink feature is deactivated by default. A ViviLink destination will only be assigned to a photo or video if you have previously set it during the initial camera setup or manually set it from this menu or from the ViviLink menu in Playback Mode. Alternatively, you can also change the ViviLink by tapping the ViviLink icon on the LCD screen – which then toggles through the ViviLink options.
- The selected ViviLink destination icon appears on the captured image when viewed in Playback Mode.



White Level Menu

Using the White Level feature your camera can adjust to the coloring of the captured images depending on the type of light source in the current environment.

Properly adjusting the White Level setting to match your current environment allows the camera to properly balance the colors in the images that are taken with your camera.

The White Level Menu Options include:

	Auto
	Daylight
	Cloudy
	Fluorescent
	Incandescent

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **White Level** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the bottom of the LCD screen.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Color Effect Menu

You can choose to add a color effect to the images taken with your camera.

The Color Effect Menu Options include:



Standard



Sepia



Monochrome



Vivid

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Color Effect** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Sharpness Menu

You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less distinct.

The Sharpness Menu Options include:



Soft



Normal



Sharp

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Sharpness** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
 This icon appears on the bottom of the LCD screen.
 The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Exposure Menu

The Light Exposure setting helps you control the amount of light that enters your camera's lens. This setting should be adjusted when the environment is lighter or darker than normal.

- When the environment has more light than is needed, reduce the exposure setting (by using the negative - count) to reduce the amount of light allowed into the lens by your camera.
- If the environment has less light (darker) than is needed, increase the exposure setting (by using the positive + count) to increase the amount of light allowed into the lens by your camera.

The Exposure Menu Options include:

	+3 Lightest		-1 Dark
	+2 Lighter		-2 Darker
	+1 Light		-3 Darkest
	0 Normal		

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Exposure** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.

- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the bottom of the LCD screen.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.

ISO Menu

The ISO menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment. When the ISO level is increased, the image sensor in your camera will be more sensitive to light and allow you to capture images in lower-light situations. The higher sensitivity to light however, may reduce the quality of the images that are taken.

When the ISO is reduced, the image sensor in your camera will be less sensitive to light and will optimize the image quality in environments with bright lighting.

The ISO Menu Options include:

	ISO Auto
	ISO 100
	ISO 200
	ISO 400

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **ISO** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
- This icon appears on the bottom of the LCD screen.
- The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Metering Menu

The Metering setting will affect how your camera focuses when capturing an image. Depending on your selection, the camera will be more sensitive to focusing on particular areas in the display and adjust the image color and lighting accordingly.

Center – Averages the light metered from the entire frame, but giving greater weight to the subject in the center

Multi – Used in standard conditions the camera divides and adjusts the settings of the image into several zones for light metering such as complex light conditions, position of subject, brightness, background, direct light and scenes

Spot – Meters the area within the spot point frame at the center of the LCD to set the exposure on the subject in the center of the monitor.

The Metering Menu Options include:



Center



Multi



Spot

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Metering** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Video Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the bottom of the LCD screen.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.

Video Playback Mode

▶ The Playback Mode allows you to review and edit photos and videos that you've already taken with you camera.

- When you first turn on the camera, the camera will be in Video Capture Mode by default.
- Press the **HOME** button to open the Camera Mode options.
-  Tap the **Playback** icon to enter the Playback Mode for photos and videos.
- The latest captured image appears on the LCD screen.

If there are no images stored, a message (No File) appears.

Playing Videos on Your Camera

1) Select your Video:

- Once in Playback Mode, view each of your captured images by sliding your finger left or right across the LCD touch screen.

Scroll through the images on your camera's memory card until you find the video you would like to view.

- Each captured image (video and photo) is displayed on the LCD screen.

Videos appear with an '**AVI**' icon on the top left of the LCD screen.

2) Play your selected video:

- Tap the **Play** icon in the center of the LCD screen to START playing the video.
- Tap the LCD screen to PAUSE the video and tap again to continue playing and pausing as needed.
- To fully STOP the video and restore the icons to the LCD, press the **Shutter** button.

NOTE: While the Video is playing, all the icons on the top section of the LCD disappear.

Thumbnail View

Easily navigate and select the video or photo you wish to view by using the Thumbnail View.

The images on your camera will be displayed in a 3 X 3 matrix where you can use easily navigate to scroll and select images from the thumbnails.

1) Push the **Zoom** button down (**W/Zoom Out**) to open the Thumbnail View.



Alternatively, tap the **Thumbnail View** icon on the LCD to open the Thumbnail View.

2) All images (videos and photos) saved on your on your SD Memory card appear in the Thumbnail View.

3) Drag up or down to scroll through the Thumbnail images.

4) Tap a Thumbnail to select and enlarge the image to full screen size.

5) Once the selected video is full size you can play and view the video.

Video Playback Mode LCD Screen Functions

While in Video Playback Mode, you can easily control the camera features for each image.



Delete (Selected File)

1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.

2) Select a video.

3) To delete the selected video:

- Tap the  **Delete** icon located on the left beneath the AVI icon.
- A 'Delete This Video' window appears.
- Tap 'Yes' to automatically delete the selected video.
- Tap 'No' to return to Playback Mode without deleting the selected video.



The ViviLink technology allows you to quickly and easily upload your camera's photos and videos to the social networks of your choice with the accompanying Vivitar Experience Image Manager application.

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Select a video.
- 3) To assign a ViviLink destination to your video:

Tap the **ViviLink** icon located on the top center of the LCD screen.

Toggle through the ViviLink options until the desired ViviLink icon appears.

The ViviLink for Videos options include:

	YouTube
	Photobucket
	Flickr
N	None

Protect/Lock

Pictures and videos taken with your camera can be protected or "locked" to prevent any deletion or alteration being made to the files.

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Select a video.
- 3) To lock or unlock your video tap the Protect/Lock icon located on the top section of the LCD screen.



This icon indicates the selected video is now locked and protected from being edited or deleted.



This icon indicates the selected video is now unlocked and not protected.



Thumbnail View

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Tap the **Thumbnail View** icon located under the Delete icon to view all captured videos and photos in Thumbnail view.

Video Playback Mode Menus

The following are the menus that appear in your digital video camera's Video Playback Mode:



Delete All Images



ViviLink



Delete All Images Menu

While in the Playback Mode, you can delete all videos and photos from your digital video camera through the Delete All Images menu.

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Tap **MENU** located at the bottom left corner of the LCD screen to open the Main Menu Screen for the current mode.
- 3) Tap the **Delete All Images** menu icon to open the menu options.
 - A 'Delete All Images' window appears.
 - Tap 'YES' to automatically delete all videos and photos.
 - Tap 'NO' to return to Playback Mode without deleting any videos and photos.



ViviLink Menu (for Videos)

The ViviLink technology allows you to quickly and easily upload your camera's photos and videos to the social networks of your choice with the accompanying Vivitar Experience Image Manager application.

The ViviLink for Videos Menu Options include:



YouTube



Photobucket



Flickr



None

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **ViviLink** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Playback Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
This icon appears on the top center of the LCD screen.

Photo Capture Mode

The Photo Capture Mode allows you to capture pictures with your digital camera.

After powering on your digital video camera, by default the Video Capture Mode displays.



To enter Photo Capture Mode:

- Press the **HOME** button.
- Tap the  Camera icon to enter Photo Capture Mode.

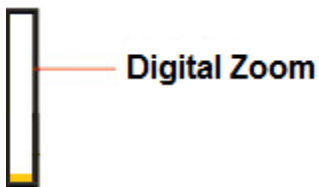
Taking a Picture

- 1) While in Photo Capture Mode, use the LCD display to direct the camera at the scene you would like to capture.
- 2) You can magnify your subject up to 4 times using the digital zoom while capturing your photos and recording your videos.

Push the Zoom control button up, the **T**  button, to zoom in on the object.

Push the Zoom control button down, the **W**  button, to zoom back out.

The following Digital Zoom Indicator appears on the right side of the LCD screen:

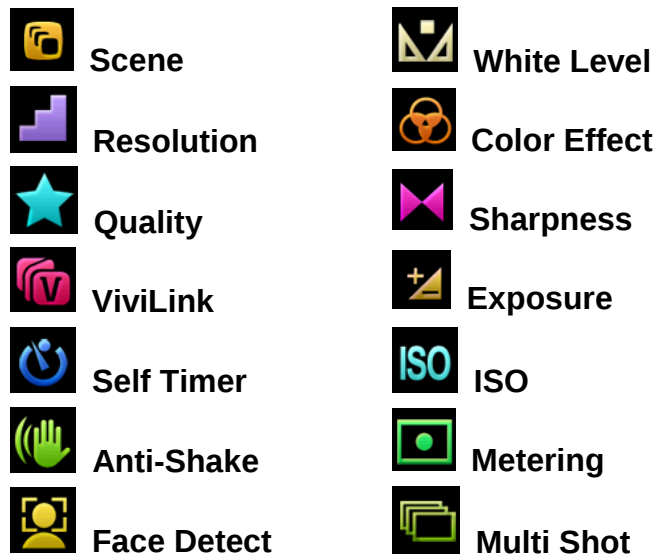


The zoom indicating bar moves up when you Zoom In (**T**) and moves down when you Zoom Out (**W**).

- 3) Press the **Shutter** button on the top of the digital video camera to take the picture.
- 4) The picture is automatically saved to the SD memory card.

Photo Capture Mode Menus

The following are the menus that appear in your camera's Photo Capture Mode:



Reminder: While in Capture Mode, you can also change settings by tapping icons that appear on the LCD touch screen to toggle between the menu options until you see the desired option.

Scene Menu

The Scene Menu allows you to choose scene settings that let your camera to adapt properly to your current environment.

The Scene Menu Options include:



- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Scenery** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.

5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
- Tap **Exit** to return to the Photo Capture Mode.

6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top left side of the LCD screen, below the Photo Capture Mode icon.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Resolution Menu

The Resolution menu allows you to choose the desired size of the images taken by your camera. Keep in mind that images with a higher resolution will also take up more of your camera's memory.

The Resolution Menu Options include:

12M	4032x3024
10M	3648x2736
7M HD	3648x2048
5M	2592x1944
3M	2048x1536
2M HD	1920x1080
VGA	640x480

1) Tap **MENU** to open the Main Menu Screen for the current mode.

2) Tap the **Resolution** menu icon to open the menu options.

3) Drag up or down to scroll and highlight the desired menu option.

4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.

5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
- Tap **Exit** to return to the Photo Capture Mode.

6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top left of the LCD screen, to the right of the Photo Capture Mode icon.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Quality Menu

The Quality menu allows you to select the desired quality level of the images taken by your camera. Keep in mind that images with a higher image quality level will also take up more memory on your camera.

The Quality Menu Options include:



- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Quality** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the bottom of the LCD screen.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



ViviLink Menu (for Photos)

The ViviLink technology allows you to quickly and easily upload your camera's photos and videos to the social networks of your choice with the accompanying Vivitar Experience Image Manager application.

The ViviLink for Photos Menu Options include:

	Facebook
	Twitgoo
	Twitpic
	Photobucket
	Flickr
	MySpace
	Picasa Albums
N	None

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **ViviLink** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top left side of the LCD screen, below the Photo Capture Mode and Scene icons.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.

NOTE:

- The ViviLink feature is deactivated by default. A ViviLink destination will only be assigned to a photo or video if you have previously set it during the initial camera setup or manually set it from this menu or from the ViviLink menu in Playback Mode. Alternatively, you can also

change the Vivilink by tapping the Vivilink icon on the LCD screen – which then toggles through the Vivilink options.

- The selected Vivilink destination icon appears on the captured image when viewed in Playback Mode.



Self-Timer Menu

The Self-Timer menu allows you to set a delay between the time that the camera's Shutter button is pressed and the actual capture of the picture.

This is an optimal feature if you don't just want to take the picture but would also like to be in the picture yourself. Set the desired Self-Timer delay, press the **Shutter** button on your camera and position yourself in front of the camera as desired.

The Self-Timer Menu Options include:

2 seconds

5 seconds

10 seconds

Off

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Self-Timer** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the top of the LCD screen. (**NOTE:** The 'Off' option does not appear on the LCD.)

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Anti-Shake Menu

The Anti-Shake feature reduces image corruption that can be caused by movement of the camera while capturing the image.

The Anti-Shake Menu Options include:

- ON** Activates the Anti-Shake feature
- OFF** Disables the Anti-Shake feature

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Anti-Shake** menu icon to open the menu options.
- 3) Tap 'ON' to activate the Anti-Shake feature.
Tap 'OFF' to disable the Anti-Shake feature.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
This icon appears on the top of the LCD screen.
The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Face-Detect Menu

The Face Detect feature when set to 'On' allows the camera to use a subject's face as the basis for balancing the other colors and focus in the digital video camera's display. This feature is meant to ensure that the color and focus of your pictures will be consistently sharp and high-quality.

To properly use the Face Detect option, please ensure the following:

- **MACRO Mode OFF** - Face Detect will not work if the camera is in Macro mode.
To turn MACRO Mode OFF: Push the Macro Switch on the side of the camera down for the mountain ▲ icon to appear on the LCD.

- **Anti-Shake ON** – Ensure that the Anti-Shake option is set to 'On'. The Anti-Shake option is 'On' by default when you start using your camera and assists you in properly focusing the image.
- **Distance from the camera** – The subject's face must be no further than 8 to 9 feet (3.5 meters) from the camera and the face must cover at least 20% (1 / 5th) of the picture previewed on the LCD screen.
- **Facing the camera** – The face of the subject(s) you are photographing must be facing the camera and must hold the pose for at least 4 to 5 seconds until the green square(s) appears around the subject's face.

The Face Detect Menu Options include:

- ON** Activates the Face Detect feature
- OFF** Disables the Face Detect feature

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Face Detect** menu icon to open the menu options.
- 3) Tap 'ON' to activate the Face Detect feature.
Tap 'OFF' to disable the Face Detect feature.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
This icon appears on the top of the LCD screen.
The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



White Level Menu

Using the White Level feature your camera can adjust to the coloring of the captured images depending on the type of light source in the current environment.

Properly adjusting the White Level setting to match your current environment allows the camera to properly balance the colors in the images that are taken with your camera.

The White Level Menu Options include:

	Auto
	Daylight
	Cloudy
	Fluorescent
	Incandescent

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **White Level** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.

This icon appears on the bottom of the LCD screen.

The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Color Effect Menu

You can choose to add a color effect to the images taken with your camera.

The Color Effect Menu Options include:



Standard



Sepia



Monochrome



Vivid

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Color Effect** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Sharpness Menu

You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less distinct.

The Sharpness Menu Options include:



Soft



Normal



Sharp

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Sharpness** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
 This icon appears on the bottom of the LCD screen.
 The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Exposure Menu

The Light Exposure setting helps you control the amount of light that enters your camera's lens. This setting should be adjusted when the environment is lighter or darker than normal.

- When the environment has more light than is needed, reduce the exposure setting (by using the negative - count) to reduce the amount of light allowed into the lens by your camera.
- If the environment has less light (darker) than is needed, increase the exposure setting (by using the positive + count) to increase the amount of light allowed into the lens by your camera.

The Exposure Menu Options include:

	+3 Lightest		-1 Dark
	+2 Lighter		-2 Darker
	+1 Light		-3 Darkest
	0 Normal		

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Exposure** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.

- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
 This icon appears on the bottom of the LCD screen.
 The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.

ISO Menu

The ISO menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment. When the ISO level is increased, the image sensor in your camera will be more sensitive to light and allow you to capture images in lower-light situations. The higher sensitivity to light however, may reduce the quality of the images that are taken.

When the ISO is reduced, the image sensor in your camera will be less sensitive to light and will optimize the image quality in environments with bright lighting.

The ISO Menu Options include:

	ISO Auto
	ISO 100
	ISO 200
	ISO 400

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **ISO** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
- This icon appears on the bottom of the LCD screen.
- The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Metering Menu

The Metering setting will affect how your camera focuses when capturing an image. Depending on your selection, the camera will be more sensitive to focusing on particular areas in the display and adjust the image color and lighting accordingly.

Center – Averages the light metered from the entire frame, but giving greater weight to the subject in the center

Multi – Used in standard conditions the camera divides and adjusts the settings of the image into several zones for light metering such as complex light conditions, position of subject, brightness, background, direct light and scenes

Spot – Meters the area within the spot point frame at the center of the LCD to set the exposure on the subject in the center of the monitor.

The Metering Menu Options include:



Center



Multi



Spot

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **Metering** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:

- Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
- This icon appears on the bottom of the LCD screen.
- The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.



Multi Shot Menu

When enabled, the Multi SnapShots feature allows you to take five rapid snapshots in a row with a single click of the **Shutter** button.

This feature can be effective when trying to capture a particular moment in a sporting event or other scenes with quick movements.

The Multi Shot Menu Options include:

- | | |
|------------|----------------------------------|
| ON | Activates the Multi Shot feature |
| OFF | Disables the Multi Shot feature |

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
 - 2) Tap the **Multi Shot** menu icon to open the menu options.
 - 3) Tap 'ON' to activate the Multi Shot feature.
Tap 'OFF' to disable the Multi Shot feature.
 - 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
 - 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Photo Capture Mode.
 - 6) An icon reflecting your selection displays on the LCD screen.
- This icon appears on the top left corner of the LCD screen – replacing the Photo Capture Mode icon.
- The setting is saved by your camera until you manually change the setting or restore the camera's default factory settings.

Photo Playback Mode

► The Playback Mode allows you to review and edit photos and videos that you've already taken with your camera.

- When you first turn on the camera, the camera will be in Video Capture Mode by default.
- Press the **HOME** button to open the Camera Mode options.
-  Tap the **Playback** icon to enter the Playback Mode for photos and videos.
- The latest captured image appears on the LCD screen.

If there are no images stored, a message (No File) appears.

Viewing Photos on Your Camera

1) Select your Photo:

- Once in Playback Mode, view each of your captured images by sliding your finger left or right across the LCD touch screen.
Scroll through the images on your camera's memory card until you find the photo you would like to view.
- Each captured image (video and photo) is displayed on the LCD screen.
- Photos appear with a '**JPG**' icon on the top left of the LCD screen.

2) Zooming In/Out of your selected Photo::

- Push the **T / Zoom In** button up to Zoom In and magnify the selected photo.
Slide your finger on the LCD screen in the direction you would like to navigate around the photo.
- Push the **W/Zoom Out** button down to Zoom Out of the selected photo.

Thumbnail View

Easily navigate and select the video or photo you wish to view by using the Thumbnail View.

The images on your camera will be displayed in a 3 X 3 matrix where you can use easily navigate to scroll and select images from the thumbnails.

1) Push the **Zoom** button down (**W/Zoom Out**) to open the Thumbnail View.

 Alternatively, tap the **Thumbnail View** icon on the LCD to open the Thumbnail View.

- 2) All images (videos and photos) saved on your on your SD Memory card appear in the Thumbnail View.
- 3) Drag up or down to scroll through the Thumbnail images.
- 4) Tap a Thumbnail to select and enlarge the image to full screen size.

Photo Playback Mode LCD Screen Functions

While in Photo Playback Mode, you can easily control the camera features for each image.



Delete (Selected File)

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Select a photo.
- 3) To delete the selected photo:
 - Tap the  **Delete** icon located on the left beneath the JPG icon.
 - A 'Delete This Photo' window appears.
 - Tap 'YES' to automatically delete the selected photo.
 - Tap 'NO' then **Save & Exit** to return to Playback Mode without deleting the selected photo.
 -



ViviLink

The ViviLink technology allows you to quickly and easily upload your camera's photos and videos to the social networks of your choice with the accompanying Vivitar Experience Image Manager application.

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Select a photo.
- 3) To assign a ViviLink destination to your photo:

Tap the **ViviLink** icon located on the top center of the LCD screen.

Toggle through the ViviLink options until the desired ViviLink icon appears.

The ViviLink for Photos options include:

	Facebook
	Twitgoo
	Twitpic
	Photobucket
	Flickr
	MySpace
	Picasa Albums
N	None

Protect/Lock

Pictures and videos taken with your camera can be protected or “locked” to prevent any deletion or alteration being made to the files.

- 4) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 5) Select a photo.
- 6) To lock or unlock your photo tap the Protect/Lock icon located on the top of the LCD screen, to the left of the ViviLink icon.

 This icon indicates the selected photo is now locked and protected from being edited or deleted.

 This icon indicates the selected photo is now unlocked and not protected.

Thumbnail View

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Tap the **Thumbnail View** icon located under the Delete icon to view all captured videos and photos in Thumbnail view.



Print Photos

You can use the Print Photos menu to print the photos that are on your camera directly to a Pictbridge compatible printer.

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Scroll through your pictures and find the one you would like to print.
- 3) Tap the **Print** icon located on the left under the JPG icon.
- 4) You will be asked to connect the camera to the Pictbridge printer.
- 5) Connect the USB cable provided in the package from the camera to the Pictbridge port of the printer.
- 6) Once connected, follow the instructions on the printer to proceed with the printing process.

Photo Playback Mode Menus

The following are the menus that appear in your digital video camera's Photo Playback Mode:



Delete All Images



ViviLink



Rotate



Crop



Delete All Images Menu

While in the Playback Mode, you can delete all videos and photos from your digital video camera through the Delete All Images menu.

- 1) Press the **HOME** button and tap the **Playback** icon to enter the Playback Mode.
- 2) Tap **MENU** located at the bottom left corner of the LCD screen to open the Main Menu Screen for the current mode.
- 3) Tap the **Delete All Images** menu icon to open the menu options.
 - A 'Delete All Images' window appears.
 - Tap 'YES' to automatically delete all videos and photos.
 - Tap 'NO' to return to Playback Mode without deleting any videos and photos.



ViviLink Menu (for Photos)

The ViviLink technology allows you to quickly and easily upload your camera's photos and videos to the social networks of your choice with the accompanying Vivitar Experience Image Manager application.

The ViviLink for Photos Menu Options include:



Facebook



Twitgoo



Twitpic



Photobucket



Flickr



MySpace



Picasa Albums

N

None

- 1) Tap **MENU** to open the Main Menu Screen for the current mode.
- 2) Tap the **ViviLink** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Main Menu Screen.
- 5) From the Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Playback Mode.
- 6) An icon reflecting your selection displays on the LCD screen.
This icon appears on the top center of the LCD screen.



Rotate Menu

Use this menu to rotate the pictures that you've taken with your camera.

- 1) View the photo you would like to rotate.
- 2) Tap **MENU** to open the Main Menu Screen for the current mode.
- 3) Tap the **Rotate** menu icon.
- 4) Tap the  **Rotate** icon to rotate the photo each time by 90° clockwise
- 5) To save, tap the  **Return** icon.
- 6) The selected picture will now appear rotated in the Playback Mode.



Crop Image Menu

You can crop any picture on your camera with the Crop feature.

- 1) View the photo you would like to crop.
- 2) Tap **MENU** to open the Main Menu Screen for the current mode.
- 3) Tap the **Crop** menu icon.
- 4) A blue crop rectangle appears on the photo.
- 5) Tap the +  or –  icon to enlarge or shrink the crop box to the desired size.
- 6) To define the desired crop area:
Slide your finger up, down, left or right to navigate the area of the photo you wish to crop.
- 7) When you are ready to crop, tap the  **Crop** icon.
If you would like to exit without cropping, tap the  **Return** icon button.
- 8) If you selected to save, the cropped picture now appears as a new picture to your memory card.

Camera Setup

The general settings for your digital video camera can easily be changed at any time.

To enter the Camera Setup Menus:

- 1) Press the **HOME** button to the left of the LCD touch screen to open the Home screen options.
- 2)  Tap the **Setup** icon to enter the Main Menu options for your camera general settings.

The following are the menus that appear in the Camera Setup Menu:

	Language		Format SD
	Date		TV Out
	Silent Mode		Set Defaults
	Auto Off		Touch Correction
	Frequency		



Language Menu

You can select your camera's language setting by selecting the desired language from the Language menu.

The Language Menu Options include:

English	Dutch
French	Italian
Spanish	Russian
Portuguese	Turkish
German	

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Language** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Setup Main Menu Screen.

5) From the Setup Main Menu Screen:

- Tap another menu icon to select a different menu item.
- Tap **Exit** to return to the Home Menu screen.



Date Menu

The Date/Time menu allows you to set your camera's date and time as desired.

When you capture an image with your camera, the image will include a time stamp with the date and time that the image was taken.

You can also disable the timestamp for future images taken with your camera.

The Date/Time Stamp Menu Options include:

- ON** The timestamp will appear on photos taken
- OFF** The date stamp will not appear on photos taken

1) Press the **HOME** button and then tap the **Setup** icon.

2) Tap the **Language** menu icon to open the menu options.

3) Drag up or down to scroll and highlight the desired menu option to set the time and date.

4) Tap **SAVE & EXIT** to select and confirm the date/time and continue to the Time Stamp Menu.

5) Tap 'ON' to enable the Time Stamp or 'OFF' to disable the Time Stamp, and then tap **Save & Exit** to select and confirm the highlighted menu option and return to the Setup Main Menu Screen.

6) From the Setup Main Menu Screen:

- Tap another menu icon to select a different menu item.
- Tap **Exit** to return to the Home Menu screen.



Silent Mode Menu

You have the option of activating the camera's Silent Mode to disable all of the sound effects (except for beeps heard during the Self-Timer countdown) that the camera emits when performing camera functions.

NOTE: The camera features that emit sounds include - Power On, Power Off, Shutter 'Click' and Self-Timer.

The Silent Mode Menu Options include:

- ON** The camera sound effects are deactivated.
 Sounds are not heard for: Power On, Power Off, Shutter 'Click' and Self-Timer.
- OFF** The camera sound effects are activated and can be heard.

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Silent Mode** menu icon to open the menu options.
- 3) Tap 'ON' or 'OFF' and then tap **SAVE & EXIT** to select and confirm the highlighted menu option and return to the Setup Main Menu Screen.
- 4) From the Setup Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Home Menu screen.



Auto Off Menu

You can use the Auto Off feature in order to conserve you camera's battery life. The designated time represents when your digital video camera will automatically power off.

When the camera sits idle for the designated period of time, the camera will shut off completely and will need to be turned on again with the power button before the next use.

The Auto Off Menu Options include:

- 1 minute**
- 3 minutes**
- 5 minutes**
- Disable**

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Auto Off** menu icon to open the menu options.
- 3) Drag up or down to scroll and highlight the desired menu option.
- 4) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Setup Main Menu Screen.

5) From the Setup Main Menu Screen:

- Tap another menu icon to select a different menu item.
- Tap **Exit** to return to the Home Menu screen.



Frequency Menu

The options in the Frequency menu represent the frequency of the electrical current in fluorescent lighting sources in your locale. If your camera is set to a frequency that does not match your country's electric current, you may see flickering or waves on the images taken by your camera.

The Frequency Menu Options include:

- | | |
|-------------|------------------------------|
| 50HZ | UK, Europe and Australia |
| 60HZ | US, Canada and South America |

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Frequency** menu icon to open the menu options.
- 3) Tap '50HZ' or '60HZ' and then tap **SAVE & EXIT** to select and confirm the highlighted menu option and return to the Setup Main Menu Screen.
- 4) From the Setup Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Home Menu screen.



Format SD Menu

You can use the Format SD Card menu to delete all of the content that is currently on your camera's memory card.

Keep in mind that formatting the memory card will permanently delete all of the content on your camera's memory card.

This option will delete all of the content at one time. If you would like to delete individual images, use the delete menu in the camera's Playback Mode.

The Format SD Menu Options include:

- YES** Formats SD memory card. All videos and photos deleted.
- NO** Does not format SD memory card.

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Format SD** menu icon to open the menu options.
- 3) Tap 'YES' to automatically format the SD memory card.

Tap 'NO' to automatically return to the Setup Main Menu Screen without formatting.

- 4) From the Setup Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Home Menu screen.



TV Out Menu

TV Out allows you to select the TV option appropriate for you to view your captured images on your television. See *“Connecting the Digital Video Camera to the HDTV”* for further information on how to connect your digital video camera to your television.

The TV Out Menu Options include:

- NTSC** Television and video standard used in America, Canada
- PAL** Television and video standard used in Europe

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **TV Out** menu icon to open the menu options.
- 3) Tap 'NTSC' or 'PAL' and then tap **SAVE & EXIT** to select and confirm the highlighted menu option and return to the Setup Main Menu Screen.
- 4) From the Setup Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Home Menu screen.



Set Defaults Menu

Use this menu to reset your camera settings to the Factory Default Settings.

The Set Defaults Menu Options include:

- | | |
|------------|---|
| YES | Reset camera settings to Factory Default Settings |
| NO | Does not reset and maintains the current camera settings. |

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Set Defaults** menu icon to open the menu options.
- 3) Tap 'YES' to automatically reset to the Factory Default Settings.

Once the reset is complete the following text appears on the LCD: 'Setting reset complete'

Tap 'NO' to automatically return to the Setup Main Menu Screen without resetting the camera settings.

- 4) From the Setup Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Home Menu screen.



Touch Correction Menu

Use this menu to reset the LCD Touch screen calibration.

- 1) Press the **HOME** button and then tap the **Setup** icon.
- 2) Tap the **Touch Correction** menu icon to open the menu options.
- 3) Follow the instructions on the LCD screen:

- 'Please touch Top-Left red point.'
- 'Please touch Bottom-Right red point.'

Once the calibration is complete the Setup Main Menu Screen appears.

- 4) From the Setup Main Menu Screen:
 - Tap another menu icon to select a different menu item.
 - Tap **Exit** to return to the Home Menu screen.

Slide Show

You can play back all images recorded on your SD memory card.

1) Press the **HOME** button and tap the  **Slide Show** icon.

2) Tap the **Play** icon in the center to start the Slide Show.

Tap and touch the screen to stop or pause the Slide Show.

3) Tap the **MENU** icon to set the interval length of time that each picture will display during the Slide Show.

4) Drag up or down to scroll and highlight the desired menu option.

The Slide Show Interval Options include:

3 Seconds 5 Seconds 10 Seconds

5) Tap **SAVE & EXIT** to select and confirm the highlighted menu option and then return to the Slide Show screen.

Tap the **Play** button to begin the Slide Show.

6) Press the **HOME** button to exit the Slide Show and return to the Home Main Menu screen.

Power Off

1. Press the **HOME** button and tap the  **Power Off** icon.

2. Tap 'Yes' to confirm or tap 'No' to return to the Home Main Menu Screen.

Connecting the Digital Video Camera to the HDTV

The digital video camera has an HDMI port to use your larger HDTV screen in place of the camera's LCD screen. On plugging the HDMI Cable (purchased separately) to the digital video camera's HDMI slot and to the TV, the LCD screen turns blank.

Use the digital video camera normally to capture and playback photos and videos.

The images will appear on the TV instead of on the digital video camera's LCD screen.

NOTE: The only limitation of using the TV screen is that the digital video camera is now not portable.

Connecting to an HDTV with the HDMI Cable

- 1) Connect the digital video camera to an HDTV with the HDMI cable by inserting the smaller end of the cable into the HDMI slot of the camera, and the larger end into the HDMI port on the television.
- 2) Power on the HDTV and the digital video camera, and select the appropriate HDMI source from your television menu settings.
- 3) Set the TV format on the digital video camera to suit the TV format of your TV set (NTSC or PAL). In the Video and Photo Capture Menus, use the TV Mode Menu to select the TV format.
- 4) When the digital video camera is set to Video or Photo Capture mode, you can preview what you would like to record on the HDTV screen and view the recording on the HDTV.
- 5) When the digital video camera is set to Playback mode, you can review all the captured photos and videos on the HDTV.

Installing the Software

You must be connected to the internet to install and run the Vivitar Experience Image Manager software.

- 1) Insert the installation CD into your CD-ROM drive. The installation screen should automatically open.



- 2) On PC: The Vivitar Experience Image Manager Installer window appears. If the window does not appear, open the application's CD/DVD drive and click on "Setup.exe" to launch the installer.
- 3) On Macintosh: Click the icon that appears on the desktop to install the Vivitar Experience Image Manager.
- 4) If you do not have internet access at the time of inserting the CD-ROM, connect to the internet and then click the "Install Vivitar Experience Image Manager" button to begin the installation.



NOTE: If you do not have internet access, you can still download media from the camera. Click the "How to transfer photos and videos from my camera to my computer" button for instructions.

- 5) If you have internet access, the “Choose your language” window opens, choose your language and click “Next” to open the next window.
- 6) Select your camera model from the list and click “Next” to open the next window.
- 7) Click “Next” to confirm your camera model selection and to install the application.
- 8) Please wait while the application is being installed on your computer.
- 9) Please review the license terms.

On PC and Macintosh: Click the “I accept the terms of this license agreement” and then click “Next” to continue.

- 10) On PC only: Let the “Vivitar Experience Image Manager” installer create the folder to where the program will be installed, and then click “Install”.

- 11) Please wait while the application continues the installation process on your computer.

- 12) On PC: Click the “Close” button when the installation is complete.

The application will automatically open.

- 13) On Macintosh: Click the “Quit” button when the installation is complete.

Click the “Launch Vivitar Experience Image Manager” to open the application

- 14) If you close the application you can run the Vivitar Experience Image Manager from the Programs (PC) or Application (Mac) menu on your computer.



Connecting the Camera to the Computer

- 1) Use the USB cable that came with your camera to connect your camera to your computer.
- 2) Power the camera on.
- 3) The first time you connect the device to the computer you will have to wait a few seconds until the computer recognizes the device.

Getting Photos and Videos from Your Camera to Your Computer

An SD card needs to be inserted. Do not disconnect the cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

- 1) Select the “Get Images” button from the Main menu.



- 2) The “Get Images from device” window opens.
- 3) You can select to download photos, videos or both.
- 4) Select your camera (removable disk) from the device window. If your camera is the only USB device connected then it will be selected automatically.
- 5) Select a location on the computer where to place the new photo and video files.
- 6) Add the new photo and video files to albums if desired.
- 7) Select to remove the media files from the selected device (removable disk) after the import.
- 8) Click the “Get Images” button to transfer the photos and videos from your camera to your computer.
- 9) A media download progress bar appears on the bottom left showing the number of media files downloading to your computer. A message appears when the download is complete.
- 10) The photo and video files that you selected are now downloaded to your computer to the selected folder and albums ready for your use.

Get Started!

Using the Vivitar Experience Image Manager, you can:

- Upload and manage photos and videos to and from the most popular photo sharing and social networking sites - Facebook, Flickr, Picasa, MySpace, Photobucket, Twitpic, Twitgoo and YouTube
- Seamlessly transfer photos and videos from one social network to another
- Organize your images by creating offline and online albums
- Edit images using automatic and manual tools
- Use automatic “Geotagging” with built in Google Maps

For more details on how to use the Vivitar Experience Image Manager open the ‘Help Guide’ from the Help menu or click the “Take a Tour” button on the application’s Home screen.

Transferring Images from my Camera to my Computer Manually

Transferring Photos and Videos: WINDOWS

- 1) Use the supplied USB cable to connect your camera to your computer.
- 2) ‘MSDC’ appears on the LCD – indicating that your camera is now connected to the computer as a Mass Storage Device.
- 3) A window appears with a list of options, select “Open folder to view files” and click ‘OK’.
- 4) Open the DCIM folder and the folder inside to view the media files.
- 5) Select the media and copy the files from this folder into your computer. Alternatively, select the files and choose ‘Copy’ from the Edit menu. Then select a folder and choose ‘Paste’ from the Edit menu.
- 6) We recommend that you copy the images into the Pictures/My Pictures folder and the videos into the Videos/My Videos folder.
- 7) Do not disconnect the USB cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

Transferring Photos and Videos: MACINTOSH

- 1) Use the supplied USB cable to connect your camera to your computer.
- 2) 'MSDC' appears on the LCD – indicating that your camera is now connected to the computer as a Mass Storage Device.
- 3) The camera's device icon appears on the desktop.
- 4) Click on the device icon and open the DCIM folder and the folder inside to view the media files.
- 5) Select the files and drag them into your computer. Alternatively, select the files and choose 'Copy' from the Finder's Edit menu. Then select a folder and choose 'Paste' from the Edit menu.
- 6) We recommend that you copy the images into the Pictures folder and the videos into the Movies folder.
- 7) Do not disconnect the USB cable during transfer. Doing so will cancel the transfer of any files on their way to your computer.

Transferring Photos and Videos: Apple iPad

NOTE: Please check your device packaging for compatibility with the iPad.

Apple iPad Camera Connection:

For models that are compatible with the iPad, photos and videos can be imported from your digital camera to your iPad by following either one of the options below:

1) Connecting your digital camera to your iPad using an iPad Camera Connector:

Plug the Camera Connector into the dock connector port on your iPad, and then attach your digital camera using a USB cable (included) to the Camera Connector.

NOTE: The iPad Camera Connector is not included. This item may be purchased separately.

2) Using an iPad SD Card Reader:

Connect the SD Card Reader to your iPad, then insert your digital camera's SD Memory card into the slot to import photos and videos directly from your camera's SD card.

NOTE: The iPad SD Card Reader is not included. This item may be purchased separately.

After you make the connection, your iPad automatically opens the 'Photos' application. This allows you to choose which photos and videos to import and to organize them into albums.

Camera Maintenance

The digital video camera is a delicate device. Please handle your digital video camera with care to avoid damaging it.

Do not expose your digital video camera to heat sources.

Do not use you digital video camera in wet or moist conditions.

Sakar Warranty Card

This warranty covers for the original consumer purchaser only and is not transferable. Products that fail to function properly **UNDER NORMAL USAGE**, due to defects in material or workmanship will be repaired at no charge for parts or labor for a period of one year.

What Is Not Covered By Warranty:

Damages or malfunctions not resulting from defects in material or workmanship and damages or malfunctions from other than normal use, including but not limited to, repair by unauthorized parties, tampering, modification or accident.

What To Do When Service Is Required:

When returning your defective product (postage pre-paid) for service, your package should include:

- 1) Copy of **original** bill of sale.
- 15) A detailed written description of the problem.
- 16) Your return address and telephone number (Daytime).

MAIL TO ADDRESS BELOW:

<u>Sakar US</u>	<u>Sakar UK/Europe</u>	<u>Sakar Australia</u>
Sakar International Attention: Service Department 195 Carter Drive Edison, NJ 08817	Attention: Service Department 2D, Siskin Parkway East 4020 Middlemarch Business Park Coventry, CV3 4PE	Return faulty camera to the Refund Counter at the store where purchased

Technical Support

For technical support issues please visit our website at **www.vivitar.com**. You can find manuals, software and FAQ's at the website. Can't find what you are looking for? E-mail us at **support@vivitar.com** and one of our technical support team members will answer your questions. For phone support in the US please call 1-800-592-9541, in the UK call 0800 917 4831, in Australia call 1800-006-614. If you would like to call from anywhere else, please visit **www.vivitar.com** for your local toll free number.

Troubleshooting

Q: I have taken photos and selected the “Get Images” button. I get a message that the images were successfully transferred but the photos do not appear on my computer. What do I do?

First ensure that you have in fact taken photos. Press the Shutter button to take some sample photos and then try downloading them again.

With test photos if the camera powers off before you upload them to the computer the photos are not stored in the camera's memory. These photos should be uploaded quickly before the camera powers off.

If the photos are saved to the SD memory card then all the photos should appear.

Q: How do I make sure I don't lose important pictures?

This camera requires an SD card for normal use. If the camera powers off nothing will happen to the images stored on the SD memory card. We recommend always downloading your photos to your computer as soon as possible to prevent unintentional data loss.

Q: I deleted images using the Vivitar Experience Image Manager. The images were also deleted from my computer. How do I recover images that I accidentally deleted?

All images deleted using the Vivitar Experience Image Manager are sent to your computer's Recycle or Trash Bin and can be retrieved from there.

DVR949HD-050112 FW: 250CNNMI4108F14A03