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# Vivitar®

## Vivicam 3350 User Manual



English

Rev 040102E TP

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## **1.0 Introduction -**

### **1.1 Overview -**

Thank you for purchasing a Vivicam 3350 digital camera. It can capture digital images, short video-clips (continuous shooting mode), and it can also serve as a PC/Web camera. The V3350 is equipped with 8 MB of memory to store your images and movie clips. You may download your images and movie clips to your computer using the USB cable and included software.

### **1.2 Warnings and Precautions -**

#### **1.2.1 FCC STATEMENT -**

This device complies with Part 15 of the 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.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, 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:

1. Reorient or relocate the receiving antenna
2. Increase the separation between the equipment and receiver
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
4. Consult the dealer or an experienced radio/TV technician for help

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules. Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

### 1.2.2 GENERAL WARNINGS –

Do not use batteries other than those specified for use with the camera. The use of unsuitable batteries may result in the batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.

When fitting batteries into the camera, check the polarity of the batteries (- and +) to ensure that you insert the battery correctly. Incorrect polarity may result in the batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.

Remove the batteries if the camera will not be used for an extended period of time. The batteries may leak and cause a fire, injury or soiling of the battery compartment. If the

batteries leak clean and wipe the battery compartment carefully and install new batteries. Wash your hands carefully if you touch the battery fluid. Please note that when you remove the batteries your images will be lost from the camera memory.

**WARNING:** Handling the USB cable on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash your hands after handling.

### 1.2.3 TRADEMARK INFORMATION -

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## 1.3 Package Contents -

The Vivicam 3350 package typically includes:

1. Camera
2. USB cable
3. CD ROM with Application software and TWAIN Driver
4. User Manual
5. Two (2) AAA batteries
6. Hand strap

Note: Included components may vary, as specified by local retailers and locations. Check with your retailer for specifics.

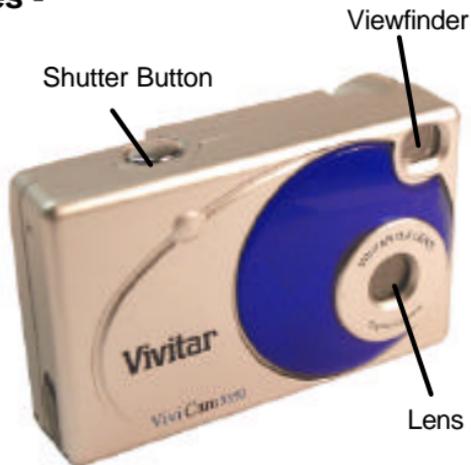
## 1.4 System Requirements -

You must use a computer to download the images from your Vivicam 3350. The computer that you use must meet the following minimum requirements:

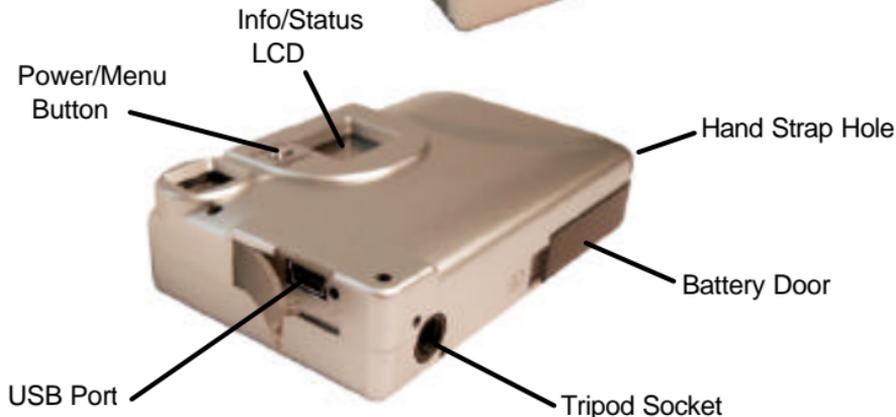
1. Windows 98 Second Edition/2000/Me/XP
2. Direct X 8.0
3. 64 MB RAM
4. 60 MB hard disk space available
5. Available USB port
6. CD-ROM drive

## 1.5 Vivitar 3350 Features -

Front Side:



Back Side:



## 2.0 Installing the Batteries -

Step 1: Open the battery door by lifting the tab on the door.

Step 2: Insert two AAA batteries with the polarity as shown:



Step 3: Close the battery cover.

**Warning:** Do not open the battery door when the camera is powered ON. This will cause all images in memory to be lost immediately. If you open the battery door when the camera is OFF (when changing the batteries) you must close the door within twenty (20) seconds or your images will be erased from memory.

## Notes:

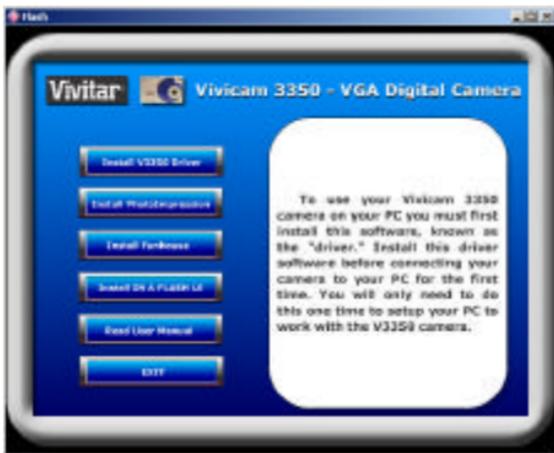
1. Always download your images to your computer soon after you have captured them. Never assume your images will be retained for more than three or four days. If the batteries are depleted, your images will be lost.
2. If you must change the batteries, make sure the camera is OFF and then change the batteries in less than twenty (20) seconds.
3. If you will not use the camera for a long time (several days, or more) remove the batteries. The batteries will discharge slowly if left in the camera. This may cause complete battery discharge as well as loss of images. The batteries may corrode if left in the camera for extended periods of time.
4. Dispose of batteries properly in accordance with local laws and regulations. Do not place them in fire.
5. The Vivicam 3350 has an automatic power-saving feature. The camera will turn off automatically if it has not been used after approximately twenty (20) seconds.
6. When the camera is connected to a computer using a USB cable, it is not necessary to use batteries because the camera uses the power provided by the computer through the USB interface.

## 3.0 Installing the Software -

Install the camera software **before** connecting the camera to your computer for the first time. Place the Vivicam 3350 CD ROM into your CD-ROM drive. The CD will run automatically and present this welcome screen:

There are five components on the CD ROM:

1. Twain Driver
2. Photo Impression
3. Fun House
4. In-A-Flash LE
5. User Manuals



### 3.1 Twain Driver –

To use your Vivicam 3350 camera on your PC you **must** first install this software, known as the “driver.” Install this driver software **before** connecting your camera to your PC for the first time. You will only need to install the driver once to setup your PC to work with the V3350 camera.

### **3.2 Photolmpression –**

You may wish to install Arcsoft Photolmpression™. Although it is not required to operate the camera; it is the perfect imaging software for novice and skilled users alike. Photolmpression is an image editor with tools for enhancing, printing, and getting creative with your V3350 digital images.

### **3.3 Funhouse –**

You may wish install ArcSoft Funhouse®. Although Funhouse® is not required to operate the camera, it helps you seamlessly combine two or more images from your camera to create funny or realistic scenes. Funhouse helps you to add your personal images into built-in or custom templates to print, email, and share your digital imaging creations. Add captions, titles, or quotes. Full text-editing capability lets you include colorful tags and descriptions.

### **3.4 In-A-Flash LE -**

You may wish to install NetGUI In-A-Flash LE. Although In-A-Flash LE is not required to operate the camera, it will allow you to easily add animations, special effects and music to your digital photos to create a unique and fun digital photo album. Business users and webmasters will also benefit when creating Flash Banner ads and professional business presentations.

### **3.5 User Manual -**

Click on the "User Manual" button to go to the index of ViviCam 3350 User Manuals. The Vivicam 3350 User Manual is included on the CD ROM in several languages in PDF format. Note that you will need Adobe Reader on your PC to read the User Manual. For Vivicam 3350 User Manuals in other languages please refer to the Vivitar website at [www.vivitar.com](http://www.vivitar.com)

After you have installed the Vivicam 3350 Twain driver and application software titles you are now ready to use your camera to capture digital images. The next section will tell you about the operation of your new digital camera.

## 4.0 Capturing Images -

Using your new Vivicam 3350 is fun and easy. There are two basic steps to capturing your first image.

Step 1: Turn on the camera by pressing the Power Button.

Step 2: Press the shutter button to capture an image.



It is really that easy! The following sections will tell you about more features that are available on your camera.

### 4.1 Power On the Camera -

To power on the camera press the Power/Menu button as shown above. The camera will beep once, indicating that it is ready. The Information/Status display will turn on like this:

In this example the camera is ready to capture 26 images in Hi resolution mode. (Display icons are explained in section 4.3.)



Note that the camera will automatically power-off after 20 seconds to save battery power. To turn the camera on again, press the Power button.

## 4.2 Capture an Image -

In film-photography we say: "Take a Photo." In digital-photography we say: "Capture an Image." Capturing an image with the Vivicam 3350 is easy.

Step 1: Power on the camera and look through the viewfinder to frame your subject. Make sure your subject is no closer than three or four feet (one meter) or else it will not be in good focus.

Step 2: Press the shutter button to capture an image.

The camera will beep once and the image counter will decrement by one count.

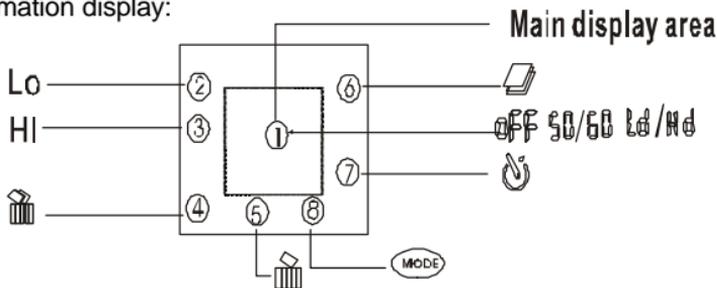
For example the counter may change from **026** to **025**.

This means that you may now take 25 more images. The display counter shows the number of images remaining to be taken before the memory is full. When the counter says 000 the memory is full and you must download your images or delete them to make more space available.

Note: The ViviCam 3350 does not have a flash (strobe). If it is too dark for the camera to capture a good image the camera will produce a double-beep sound, indicating that the illumination level is too low. The camera will not capture an image if you hear the "beep-beep" tone.

### 4.3 Camera Information Display -

Beyond the basics of capturing an image, the Vivicam 3350 has many other features. Turn on the camera and notice the many icons and symbols on the Information display:



As you press the Power/Menu button the display will change in the following order. To learn more about each function refer to the referenced section in this User Manual.

Display icon	Function	Refer to Section:
OFF	Turn off the camera	4.4
	Self-Timer	4.5
	Continuous Capture (movie clip)	4.6
	Delete all images from memory	4.7
	Delete last image from memory	4.7
<b>Mode Hi, Lo</b>	Image resolution	4.8
Hd, Ld	Image file compression	4.9
50, 60	Indoor lighting frequency (Hz)	4.10

#### **4.4 Power-Off the Camera -**

To turn-off the camera (immediately) press the menu button once. “OFF” will appear in the Information display. Press the shutter button (within five seconds) to turn-off the camera immediately.

Note: The camera will automatically power-off after twenty seconds of inactivity.

#### **4.5 Self-Timer -**

If you would like to get into the image you may use the self-timer feature to delay image capture by ten (10) seconds. Place the camera on a tripod or a flat, stable surface. Turn on the camera. Press the Menu button two times until the “” icon appears on the right side of the information display.

Press the shutter button within five seconds. The camera will beep nine times (once per second) as it counts down. On the tenth beep the camera will capture an image.

#### **4.6 Continuous Capture (Movie Clip Mode) -**

You can capture motion-video clips up to seventeen (17) seconds in length using the continuous capture feature. When you use this mode the image resolution will be 320 x 240. The movie-clip frame rate will be approximately six frames per second. Movie clips are silent. (No audio.) To use the movie clip mode follow these steps:

Step 1: Power on camera. Press the Menu button three times until the “” icon appears in the display.

Step 2: Press and hold the Shutter button. The camera will beep rapidly; once for every frame that is captured. The image count will scroll rapidly.

Step 3: Release the Shutter button to stop recording. The camera will stop recording automatically when memory is full.

Note: When you download a movie-clip it will be in the popular AVI format. Use Windows Media Player or Apple Quick Time Player to view movies.

## **4.7 Deleting Images -**

You may wish to delete images from your camera. You can delete the last image captured, or you may delete all images in memory.

### **4.7.1 Delete All Images -**

Step 1: Power on camera. Press the Menu button four times until the “” icon appears in the display.

Step 2: Press the Shutter button. The image counter will flash on & off.

Step 3: Confirm your intention to delete all images by pressing the shutter button again. All Images will be deleted and the image counter will display 026 (or 050 if you are in QVGA resolution mode.)

Note: There are two “trash can” icons. Delete All is the first that appears.

#### 4.7.2 Delete the Last Image -

Step 1: Power on camera. Press the Menu button five times until the “” icon appears in the display.

Step 2: Press the Shutter button. The image will be deleted and the image counter will increase by one. (Example: 020 will change to 021.)

Note. There are two “trash can” icons. Delete Last is the second that appears.

#### 4.8 Image Resolution -

Resolution is the size of a digital image measured in pixels (dots), expressed as the number of horizontal pixels X number of vertical pixels. The ViviCam 3350 offers two resolution modes. The highest (best) resolution is 640 x 480. This is called VGA resolution, and is symbolized as “**Hi**” by the 3350 camera. The second choice of resolution is 320 x 240. This is called QVGA resolution, and is symbolized as “**Lo**” by the 3350 camera.

**Hi** resolution images are the best possible images from your camera. **Lo** resolution images are noticeably smaller when you view them on your computer. **Lo** resolution is not recommended for individual digital images. The primary advantage to **Lo** resolution is that you may store more images (four times more) than **Hi** resolution. **Lo** (QVGA) resolution is the resolution always (automatically) used for movie clips, however.

To select image resolution, turn on the camera. Press the Menu button six times until “**Mode**” appears in the Information display. Notice that either **Hi** or

**Lo** will appear on the left-hand side of the Information display. Press the shutter button to change to that resolution mode. Notice how the image counter immediately changes. The number of (available) images will increase (by almost four times) when you change from **Hi** to **Lo**. Conversely, when changing from **Lo** to **Hi**, the image count will decrease by approximately one-fourth.

#### 4.9 Image Compression -

Image compression is a technique that allows digital images to be stored efficiently in the camera's memory. The camera has 8 MB of memory space. Every image must be electronically compressed (squeezed) so that a reasonable number of images may be stored in the available 8 MB memory. If you compress your images more, you can store more images. However, when images are compressed they lose quality. Too much compression reduces the visual quality of your digital images.

The ViviCam 3350 has two compression settings. High compression, (symbolized by "**Hd**") results in highly compressed images. The camera can store twice the number of images using **Hd** compression. Low compression (symbolized by "**Ld**") will offer better images.

To change the compression, turn-on the camera. Press the Menu button seven times until **Hd** or **Ld** appears in the display. This is the current compression setting. Press the shutter button to change to the other compression. Try capturing images in both modes to decide which you prefer. Notice, however, that it takes longer to capture an image using **Hd** compression. The camera will be somewhat slower using **Hd**.

#### 4.10 Light Frequency -

When capturing images or movie clips under indoor lighting the image quality will be best if you set the camera to match the frequency of the room-lighting. In generally 60Hz frequency is used in United States and Asia. 50Hz is most common in UK, Japan, and Europe.

To change the frequency, turn on the camera. Press the Menu button eight times until **50** or **60** appears in the display. This is the current setting. Press the shutter button to change to the other frequency setting.

#### 4.11 Image Storage -

The following chart summarizes the number of images that can be stored in the camera, depending upon both resolution and compression settings.

<b>Resolution</b>	<b>Ld compression</b>	<b>Hd compression</b>
Hi = 640 x 480 (VGA)	26	52
Lo = 320 x 240 (QVGA)	104	208
Movie = 320 x 240 (QVGA)	17 seconds (104 frames)	

Note: The best quality images are captured using Hi and Ld.

## 4.12 Techniques for Capturing the Best Images -

The ViviCam 3350 can take good images. There are a few tips for getting the best possible images from your camera.

1. Use good lighting. The ViviCam 3350 works best with adequate lighting. Since it has no flash your subject must be adequately illuminated.
2. Avoid uneven lighting and high contrast. Compose your scenes so that there are no deep shadows or bright backgrounds. The key to good images is balanced (even) scene lighting.
3. Minimum focus distance. Make sure your subject is not too close. The minimum focus distance is three to four feet (one meter.)
4. Position your primary subject in the center of the image. The ViviCam 3350 focuses best in the center of the image. The edges of your images are softly focused, giving a nice soft perimeter effect to each image.

## 5.0 Download Images to your Computer

**Note:** Before connecting your ViviCam 3350 to your PC for the **first** time you must first install the Twain driver first (see section 3.1). After the driver software has been installed, your still images and movie clips can be transferred to your PC using the USB cable. You will know that the ViviCam 3350 is ready to use when two icons appear on your desktop. The “ViviCam 3350” icon is used for downloading still images to your computer. The “PCCam” icon is for using the live video feature of the ViviCam 3350.

### ViviCam 3350 Desktop icons:



Desktop icon used for  
downloading still images

Icon used for live video  
(PCCam) feature

Connect your camera to your PC using the USB cable. The camera will beep once, indicating the connection is established. The camera installation process will be completed the first time the camera is connected to your PC.

## 5.1 Transfer Images to your PC -

To transfer images to your PC connect the camera to your PC.

Double click on the desktop camera icon:

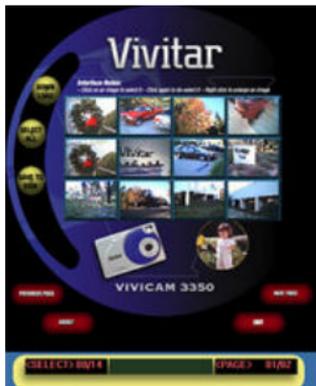


This screen (called the Graphical User Interface, or **GUI**) will appear:

Step 1: Click on the “Down Load” button.



The Vivicam 3350 GUI



Images from the camera will appear in the display area. (If there are more than twelve images you may click on the “Next Page” button to see more.) These small images are called “thumbnail images”. They are small representations of the images stored in the camera.

Step 2: Select the images you wish to transfer to your PC. You may download some, or all, of the images in the camera. You may select those images that are of interest to you by clicking on any thumbnail image to select it.

Selected images will be highlighted with a red border around the thumbnail image. To un-select an image click on it again to remove the red border. An image that is un-selected will have a blue border. You may enlarge a thumbnail image by right-clicking on it. You may select every image by clicking on the "Select All" button.

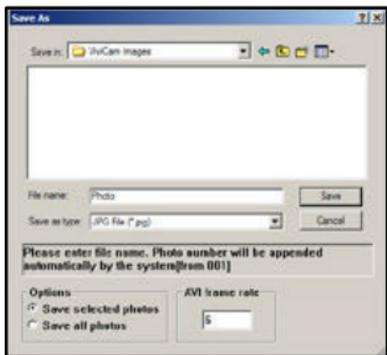
Step 3: After you have selected some images, click on the button labeled "Save to Disk". This is described in more detail in the following section.

Summary of ViviCam 3350 GUI functions:

- Click on "Down Load" to examine the images in the camera as thumbnail images
- Click on an image to select it
- Click on it again to deselect it
- Right click on an image to enlarge it
- Click on "Select All" to select all images
- If there are more than twelve images click on "Next Page" to see more
- Click on "Save to Disk" to save your images and movie clips

## 5.1.1 Saving your Images to Disk -

When you click on “Save to Disk” you will be presented with this dialog box:



- Select or create a folder to save your images (Save in...desired folder)
- Give your images a name prefix in the “File Name” field (perhaps...Photo)
- Select a file type (JPG is highly recommended)
- If you have movie clips, select a frame rate for your clips (6 fps is good.)
- Click on Save
- Your still-images will be saved as image files (JPG) that can be used with virtually any imaging software.
- Movie clips will be saved in AVI format. Use Windows Media Player to view your movie clips.
- You may email your images as attachments.

Note: You may also launch the ViviCam 3350 GUI by clicking on: Start, Programs, ViviCam 3350, Vivicam 3350.

Note: After your images are downloaded to your PC, disconnect the camera and close the ViviCam 3350 GUI. Your images remain in camera memory. Delete the images from camera memory as described in section 4.7 so that you may capture more images.

## 5.2 Transferring Images to a Twain-aware application –

You may call the Vivicam 3350 GUI from any Twain-aware application such as PhotoImpression using the acquire function. There is an advantage to doing this. Instead of saving your images directly to disk you may transfer your images to an image-editing program. You may first edit your images (rotate, crop, adjust colors, etc.) before saving them to disk. You may use any Twain-aware imaging application.

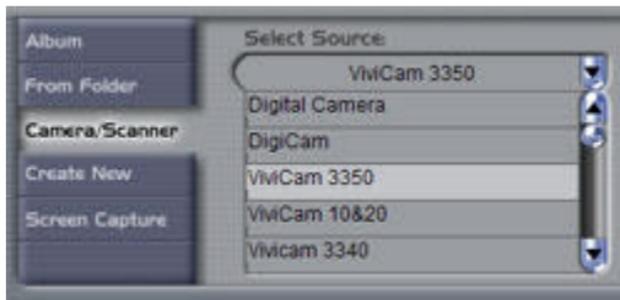
### 5.2.1 Transferring your Images to PhotoImpression –

To transfer your images from the ViviCam 3350 to PhotoImpression follow these steps:

Step 1: Start PhotoImpression. Click on the camera/scanner button:



Step 2: Select the Twain source. From the “Select



Source” drop down menu locate and highlight “ViviCam 3350”. (You may have other Twain devices on your PC.)

Step 3: Click on the Acquire button. (The button with the image of a scanner and digital camera).

The Vivicam 3350 GUI will appear. Use the Vivicam 3350 GUI as described in Section 5.1 with one exception. Because the Vivicam 3350 GUI has

been called from a Twain application, a fourth yellow button will appear in the GUI. Click on "Transfer to AP" to transfer images into the calling application.



Note: A Twain-aware application is any software application that recognizes a Twain device. Most imaging and image editing application programs support Twain cameras. Refer to the help file for your favorite image program for more information.

Note: Some Twain applications only allow you to transfer one image at a time.

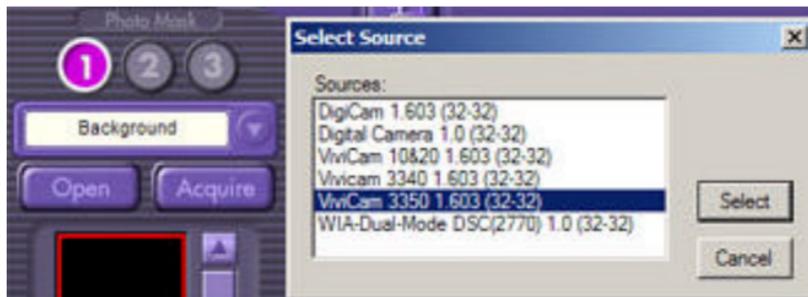
## 5.2.2 Transferring your Images to FunHouse –

To transfer your images from the ViviCam 3350 to FunHouse follow these steps:

Step 1: Start FunHouse. Select a template.

Step 2: Click on “Get Photo”.

Step 3: Click on the “Acquire” button. The Twain source selection dialog box will appear. Select ViviCam 3350 and the ViviCam 3350 GUI will appear. Use the ViviCam 3350 GUI as usual.



Note: You may also select “Dual-Mode DCS(2770)” to import a live-video snapshot from the camera.

## 6.0 PC/Web Camera Video Function

### 6.1 Using the ViviCam 3350 in Video Mode –

PC users may use their Vivicam 3350 as a PC/Web cam. Note that the ViviCam 3350 is a dual mode camera. It is both a digital-still camera and a PC video camera. In the video mode the ViviCam 3350 is known as the “**Dual-Mode DSC(2770)**” camera.

To use your camera as a PC/web cam you must first install the driver from the Vivicam 3350 CD ROM. After the driver is installed and the camera is connected to your PC you may view live video several ways:

1. Use the PCCam video utility included with the camera. Double Click on the “Live Video” icon (refer to section 5.)
2. From the Windows XP desktop double click on My Computer. Look for “Scanners and Cameras”. Locate the Dual-Mode DSC(2770) camera icon. Double click on the video-camera icon to begin the video function.



#### Scanners and Cameras

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Dual-Mode DSC(2770)

3. Use your favorite third-party video program.
4. Use Microsoft NetMeeting (see section 6.2)
5. Use Windows Movie Maker for Windows XP (see section 6.3)

Note: The Vivicam 3350 is a dual mode camera. You may use either mode, but you cannot use both modes at the same time. Close the ViviCam 3350 GUI before starting the DSC(2770) video mode.

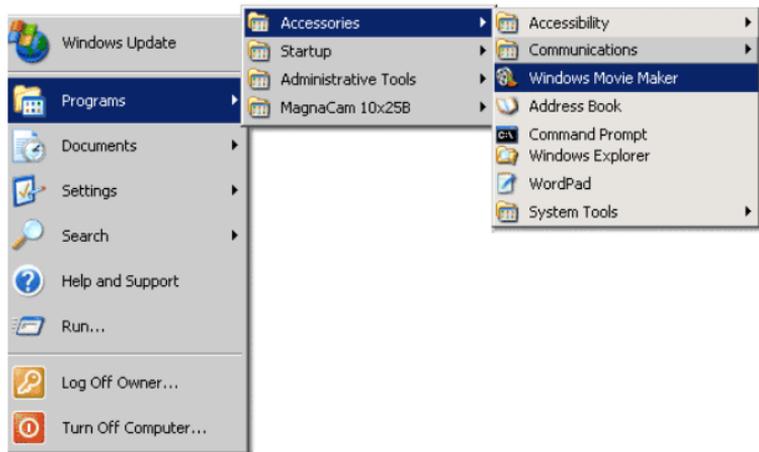
## **6.2 Using the ViviCam 3350 with NetMeeting –**

Windows 98 & Me users may wish to use MS NetMeeting.

1. Start NetMeeting
2. After NetMeeting starts, click on Tools, Options
3. From the Options dialog box, select the Video tab
4. Refer to the Video camera properties section
5. Select “Dual-Mode DSC(2770)” as the video capture device
6. Refer to the NetMeeting help file for additional information

### 6.3 Using the ViviCam 3350 with Movie Maker on Windows XP – Windows XP users can use Windows Movie Maker.

1. Click on Start, Programs, Accessories, Windows Movie Maker to start Movie Maker:



2. After Movie Maker starts -
  - a. Click on: "Capture from a Video Device"
  - b. Select "Dual-Mode DSC(2770)" in the available devices section
  - c. Follow on-screen instructions until live-video is displayed

## 7.0 Specifications

Image Resolution: 640 x 480 Pixels (VGA), or 320 x 240 Pixels (QVGA)

Built-in memory: 8 MB (SDRAM)

Image storage Capacity:

<b>Resolution</b>	<b>Ld compression</b>	<b>Hd compression</b>
Hi = 640 x 480 (VGA)	26	52
Lo = 320 x 240 (QVGA)	104	208
Movie = 320 x 240 (QVGA)	17 seconds (104 frames)	

Viewfinder: Built-in optical view-finder

Self-Timer: 10 seconds

Continuous (movie) mode frame rate: 6 frames per second

Shutter Speed: 1/6-1/15000 seconds

Capture Modes: Single, Continuous (movie clips)

Automatic Energy Saving: automatically shut-down after 20 seconds

Exposure and White Balance: Automatic

Power: Two AAA (1.5 VDC) batteries, or USB 5V bus voltage

PC Interface: USB 1.1

Working Temperature: 0 to 40 degrees C

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>