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Overview

A GE Imaging system requires the installation of a video capture card (circuit board) into the computer when using an RGB, Composite, or S-Video camera as an image source. The Integral FlashBus MV card controls the input from the video camera.



Caution: *Integral FlashBus MV Video capture card is recommended for use in dual-monitor computer configurations with Windows 2000 or Windows XP, only.*

Proper Handling

- **When handling any computer card, follow these guidelines:**
 1. Unpack the card carefully.
 2. Hold the card by the corners to avoid touching the edge connector or the card components.
 3. Place the card on a clean, flat, static-free surface until ready for installation.

System Preparation

- **Before installing the card, perform these steps:**
 1. If Windows 2000, or Windows XP is not installed on the system, install it now.
 2. Power off the computer and all connected peripheral devices (such as the monitor and the printer).
 3. Unplug the computer at the power source (such as the wall outlet or the power strip).
 4. Remove the cover from the computer.

FlashBus Card

You will need the following items:

- 1 FlashBus Expanded Video Cable (shipped with the card)
- 1 set of FlashBus MV Setup diskettes

Setting the Jumpers

- **Unless otherwise specified, use the default jumper settings shown below. Refer to your *FlashBus MV User Manual* jumper settings for additional information.**

JP1	Open
JP2	Open

Installing the Card

- **To install the FlashBus MV card:**
 1. Locate an available PCI expansion slot on your computer and remove its metal slot cover.
 2. Place the Integral FlashBus MV card into the slot.
 3. Fasten the card securely.
 4. Replace the computer cover.
- **After installing the card, perform the following steps:**
 1. Attach the Integral FlashBus MV Expanded cable to the FlashBus MV card 25-pin female connector. (Refer to your *FlashBus MV User Manual* for the location of this connector.)
 2. Plug the computer and all peripheral devices into the power source (such as the wall outlet or the power strip).
 3. Power on all connected peripheral devices (such as the monitor and the printer).
 4. Power on the computer and start the operating system.

Installing the FlashBus MV Capture Card Driver

On Windows 2000 (Access Vision or SP3.0 or Later)

After installation of the FlashBus MV capture card, Windows 2000 will automatically detect the new capture card when the computer is restarted.

- **To install the Capture Card Driver software:**
 1. After you insert the card in the computer, Windows 2000 automatically detects it, and opens the **Found New Hardware** window. The **Found New Hardware Wizard** dialog box opens and indicates that the Wizard will help you install the driver.
 2. Insert FlashBus diskette 1 of 2 in your floppy drive.
 3. Click **Next**. Another dialog box opens and asks what you want Windows to do.
 4. Select **Search for a suitable driver for my device** (recommended) and click **Next**.
 5. Select **Floppy Drive** and specify a location.

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6. Click **Next**, then click **Browse**.
 7. Open the **Win2K** folder and then select the **fbusmv2K.INF** file. Click **Open**, then **OK**.
 8. Click **Next** to copy the required file. If Windows displays the **Digital Signature Not Found** dialog box, click **Yes** to continue.
 9. When you receive a message indicating that Windows has finished the installation, click **Finish**.
 10. Remove the diskette from the floppy drive and restart your computer now.

► **To verify that the driver is installed:**

1. From the **Start** menu, click **Settings**, then **Control Panel**.
2. Click **Sounds and Multimedia**.
3. Select the **Hardware** tab and look for **FlashBus MV**.

► **If Windows does not detect the FlashBus MV:**

1. Insert FlashBus diskette 1 of 2 in your floppy drive.
2. On your desktop, right-click **My Computer**.
3. Select **Properties**, the **Hardware** tab, then click **Device Manager**.
4. Click on the plus (+) sign to the left of **Other Devices**.
5. Double-click the adapter with the exclamation point (!) next to it (**Multimedia Controller**).
6. Click **Properties**, **Driver** tab, click **Update Driver**.
7. Click **Next**. Another dialog box opens and asks what you want Windows to do.
8. Select **Search for a suitable driver for my device** (recommended) and click **Next**.
9. Select **Floppy Drive** and specify a location.
10. Click **Next**, then click **Browse**.
11. Open the **Win2K** folder and then select the **fbusmv2K.INF** file. Click **Open**, then **OK**.
12. Click **Next** to copy the required file. If Windows 2000 displays the **Digital Signature Not Found** dialog box, click **Yes** to continue.
13. When you receive a message indicating that Windows has finished the installation, click **Finish**.
14. Remove the diskette from the floppy drive and restart your computer now.

On Windows XP (SP4.0 or Later)

After installation of the FlashBus MV capture card, Windows XP will automatically detect the new capture card when the computer is restarted.

► **To install the Capture Card Driver software:**

1. After you insert the card in the computer, Windows XP automatically detects it, and opens the **Found New Hardware** window. The Found New Hardware Wizard dialog box opens and indicates that the Wizard will help you install the driver.
2. Insert FlashBus diskette 1 of 2 in your floppy drive.
3. Click **Next**. Another dialog box opens and asks what you want Windows to do.
4. Select **Search for a suitable driver for my device** (recommended) and click **Next**.
5. Select **Floppy Drive** and specify a location.
6. Click **Next**, then click **Browse**.
7. Open the **Win2K** folder and then select the **fbusmv.INF** file. Click **Open**, then **OK**.
8. Click **Next** to copy the required file. If Windows displays the **Digital Signature Not Found** dialog box, click **Yes** to continue.
9. When you receive a message indicating that Windows has finished the installation, click **Finish**.
10. Remove the diskette from the floppy drive and restart your computer now.

► **To verify that the driver is installed:**

1. From the **Start** menu, click **Settings**, then **Control Panel**.
2. Click **Sounds and Audio Devices**.
3. Select the **Hardware** tab and look for **FlashBus MV**.

► **If Windows XP does not detect the FlashBus MV:**

1. Insert the FlashBus MV capture card diskette into the floppy drive.
2. Click **Start**, **Settings**, **Control Panel**, **Add/Remove Hardware**, then **Next to begin installation**.
3. In the window that displays, select **Yes, I have already connected the hardware**, and click **Next** to proceed.
4. Select **Add a new hardware device** and click **Next** to proceed.
5. Select **Install the hardware that I manually select from a list** and click **Next** to proceed.
6. Select **Sounds and Audio Devices** and click **Next** to proceed.
7. In the window that displays, click **Have Disk** and navigate to the **fbusmv.INF** file.
8. Select the **fbusmv.INF** file and click **Open**.
9. Click **OK** in the **Install from Disk** dialog box.
10. In the window that displays, select **FlashBus MV VIDEO CAPTURE** and click **Next**, then **Next** again.

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11. In the window that displays, click **Continue Anyway** in the **Hardware Installation** dialog box.
 12. In the **Video Capture Device Setup** window, click **OK** and then click **Finish**.
 13. Reboot your computer for this installation to complete.

Installing the Video for Windows (AVI) and TWAIN Drivers

The FlashBus MV Video for Windows and TWAIN drivers are used by GE Imaging software to capture images. The following procedures apply to either Windows 2000, or Windows XP.

Note: *If you are installing Imaging on your system, you must have Video for Windows AVI and TWAIN drivers on the Server computer as well as all client computers. If not, install FBG32 from the FlashBus MV CD-ROM.*

► **To install the FlashBus MV Video for Windows or TWAIN drivers:**

1. Insert FlashBus diskette 1 of 2 in your floppy drive.
2. Click **Start** and select **Run**.
3. Type: **a:\setup**.

Result: The **Welcome** window displays.

4. Click **Next**.

Result: The **Choose Destination Location** window displays.

5. Click **Next** to accept the default location.

Result: The **Select Components** window displays.

6. Select the following display drivers:

- ☐ TWAIN driver
- ☐ FBG capture application
- ☐ Video for Windows
- ☐ Third party software drivers
- ☐ MCI driver

7. Click **Next**.

Result: A **Select Program Folder** window displays.

8. Click **Next** to accept the default folder.

Result: A **Start Copying Files** window displays.

9. Click **Next**.

Result: A **Setup Complete** window displays.

10. Click **Finish**

Result: The **Readme** file displays.

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11. After reviewing the information, close the **Readme** file.
 12. Remove the diskette from your floppy drive and click **Finish** to restart the system.

Setting Up the Camera

Before running your Imaging system, make sure the FlashBus MV card is set up correctly and showing a live picture. The FlashBus MV software comes with a program to test the video coming from the camera. Run this test program before running your Imaging software. Once the image displays correctly in the test program, it should display correctly in your Imaging software, although minor adjustments may be necessary depending on your environment.

► **To connect the camera:**

1. Securely attach the camera to the tripod.
2. Connect the Integral FlashBus MV Expanded cable to the FlashBus MV card, above the monitor attachment.
3. The Integral FlashBus MV Expanded cable has **BNC**, and **S-Video** connections. Connect the appropriate connector to the **Video Out** of the camera.

***Note:** Some cameras may not have all connection types. Only one is necessary.*

4. Connect the power adapter to the camera. Plug in the power cable.
5. Click **Start**, and select **Programs, FlashBus MV**, and then **FBG32**.

Result: The **FlashBus** application window will display.

6. If you have set up the camera correctly, you will see live video in the display window. Proceed to step 9.
7. If you do NOT see live video, from the menu, select **Setup**, then **Video**.

Result: A **Video Settings** panel will display.

8. At the bottom of the **Video Settings** window (under **Input Type**), select **Composite (BNC connection)** or **S-Video (S-Video connection)**, depending on which connector is attached to the camera.
9. Adjust the focus and zoom on the camera if required.
10. When the picture displays satisfactorily in the **FBG32** program, click **Close**.
11. Selection of the input device depends on the Imaging product being used.
 - **Access Vision Imaging** on Windows 2000 requires TWAIN.

FlashBus Capture Card Troubleshooting

Table 1: FlashBus Capture Card Troubleshooting

Problem	Action
FBG32 program comes up but does not display a picture.	Note the input settings for Composite/S-Video/. Confirm that the setting is identical to the type of camera connected. Make sure cable is NOT plugged into parallel port.
Cannot run FlashBus video when logged in to Windows NT as a nonadministrator account.	Reset the permission on the FlashBus directory, and set the FlashBus device (in Control Panel, Devices) to Start with system permission .

NOTES: