



# Installation

This section contains the information you need to install your Imagine 128 Series 2. It includes step-by-step instructions for

- checking the ReadMe 1st file
- removing power and disconnecting cables
- setting the monitor switches
- installing the accelerator
- connecting video cables
- installing ferrite cores
- installing the driver and configuration utilities
- adding monitor settings
- resetting to the default monitor setting

**Installation**

## Checking the ReadMe 1st File

Your Imagine 128 Series 2 disk contains a text file called ReadMe 1st. This file stores the latest information available about the Imagine 128 Series 2 accelerator. It may contain information not included in this User's Guide. You should open and read the contents of this file before you begin to install your accelerator.

Follow these steps to open the ReadMe 1st file:

- 1 If your computer is not on, power it on.
- 2 Insert the Imagine 128 Series 2 disk into the disk drive.
- 3 Open the Imagine 128 Series 2 disk.

The window displays an Imagine 128 ReadMe 1st icon (and a HawkEye icon).

- 4 Double click on the Imagine 128 ReadMe 1st icon.



## Removing Power and Disconnecting Cables

To reduce the risk of electric shock and to avoid damage to your equipment, you must remove power from your equipment before installing your accelerator. If you will be using a monitor that is currently connected to a graphics card in the computer, you must also disconnect the monitor cable from that graphics card. **(Note:** The installed graphics card will be disabled automatically because it is not connected to a monitor.)

Follow these steps to remove power from your equipment:

- 1 Turn off your computer.
- 2 Turn off the monitor.
- 3 Turn off all peripherals.
- 4 Unplug all power cords.
- 5 If you want to use the monitor currently connected, disconnect the monitor cable from the graphics card.

## Setting Monitor Switches

Some monitors have external switches that need to be set to ensure optimal operation of the monitor with the accelerator. The switches are located on the back of the monitor. If your monitor has external switches, set them as follows:

Switch	Setting
RGB Input	75 ohms
Sync <sup>1</sup>	EXT
Analog/Digital or BNC <sup>2</sup>	Analog or BCN

<sup>1</sup> This switch may be labeled HSYNC/VSUNC, H/V SYNC, etc.

<sup>2</sup> This switch may be labeled either Analog/Digital or BNC.

## Installing the Accelerator

You can install the Imagine 128 Series 2 accelerator in either a desktop or tower model computer. You can install it in any free PCI slot.

Follow these steps to install your accelerator:

- 1 Remove the cover from your computer.
- 2 Remove the accelerator from the antistatic bag.

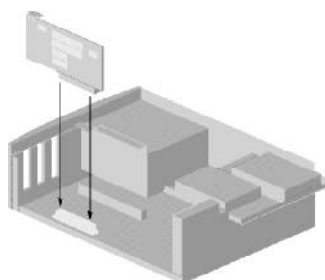




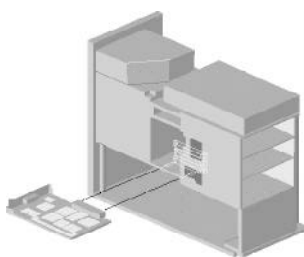
3 Holding the accelerator at the top edge, align the PCI connector edge with the PCI connector on the motherboard for the slot you selected.

4 Gently guide the accelerator into the slot.

In a desktop model computer, you install the accelerator like this:



In a tower model computer, you install the accelerator like this:



5 Push on the top edge of the accelerator firmly until the PCI connector edge is securely in the PCI connector on the motherboard.

6 Replace the computer cover.

7 Connect the monitor cable to the monitor connector on the accelerator.

8 Reconnect all power cords.

9 Plug the power cord(s) into the electrical outlet(s).

## Connecting a Cable With BNC-Type Connectors

Some monitor cables have BNC-type connectors on one end. If your monitor cable has BNC-type connectors, connect it as follows:



Cable Color	Monitor Jack
Red	Red
Green	Green
Blue	Blue
Gray or White <sup>1</sup>	HSYNC <sup>1</sup>
Black <sup>2</sup>	VSNC <sup>2</sup>

<sup>1</sup> If your monitor supports Sync on Green, do not connect a cable to the HSYNC jack.

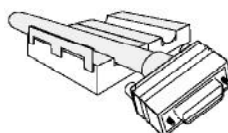
<sup>2</sup> Your monitor may not need to have the black cable connected to the VSNC jack.

## Installing the Ferrite Cores

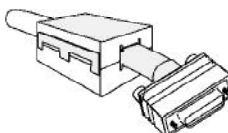
Your Imagine 128 Series 2 kit includes two ferrite cores. They are designed to reduce the electromagnetic emissions from your monitor. These emissions can interfere with the operation of other electronic devices used near your monitor. If your monitor cable does not have ferrite cores built into it and your monitor is set to a resolution of 1600 x 1200 or greater, you must install ferrite cores on your monitor cable to ensure compliance with Class B limits of the FCC Rules, Part 15, Subpart B. (If you are not sure whether your monitor cable has ferrite cores built into it, install the cores from your kit.)

Follow these steps to install the ferrite cores on your monitor cable:

- 1 Open the core.
- 2 Place the monitor cable in one half of the core with the core as close as possible to the connector on one end.



- 3 Close the core around the cable.



- 4 Repeat steps 1 through 3 with the second core for the other connector.



## Restarting the Computer

Each time you restart your computer, the accelerator "senses" the monitor connected to it. Therefore, the monitor must be connected to the accelerator before you restart the computer.

The first time you restart the computer after installing the accelerator, the accelerator uses the default resolution and refresh rate for the monitor. This ensures that the resolution and refresh rate will not damage the monitor. For example, if an Apple-compatible fixed-frequency monitor is connected to the accelerator, the accelerator defaults to the single resolution and refresh rate available for the monitor. Similarly, if a PC-compatible VGA monitor is connected to the accelerator, the accelerator defaults to a resolution of 640 x 480.

For information on restarting your computer, see the documentation supplied with your computer.

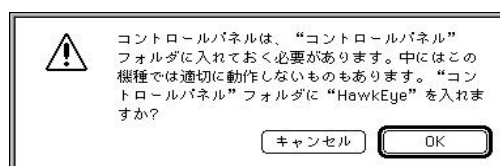
## Installing HawkEye

Your Imagine 128 Series 2 disk contains a file named HawkEye. HawkEye is the driver and configuration utilities for the accelerator. You must install HawkEye and then restart the computer to optimize the performance of the accelerator.

Follow these steps to install HawkEye:

- 1 Start the computer.
- 2 Insert the Imagine 128 Series 2 disk into the disk drive.
- 3 Open the Imagine 128 Series 2 disk.
- 4 Open your hard disk.
- 5 If the System Folder is open, close it.
- 6 Drag the HawkEye icon onto the System Folder.

A message is displayed.



- 7 Click on the **OK** button.

The HawkEye file is copied to the Control Panels folder.

- 8 Restart the computer.



## Adding Monitor Settings

The Imagine 128 Series 2 supports twelve additional monitor settings, or combinations of resolution and refresh rate. If you have a high-resolution, multifrequency monitor (such as a 21" monitor), you can access the full capabilities of the accelerator by adding these settings and then selecting one supported by the monitor.

When you add the additional settings, they are available for you to select using the system utility for setting the monitor. They remain available until you reset the default setting for the monitor.

To add the settings, hold down **N** (the **N** key on the keyboard) and restart the computer. When you restart the computer, the monitor will be set to a resolution of 640 x 480 and a refresh rate of 67 Hz (ensuring that the monitor setting will not damage the monitor) until you change the setting.

For information on selecting a monitor setting, see the documentation supplied with your computer.

## Changing the Monitor Setting

Before you change the monitor setting to one of the additional settings supported by the accelerator, be sure the monitor supports that setting. If it doesn't, you could damage the monitor by operating at that setting. Once you change the monitor setting, that setting is saved in a Preferences file and used each time you restart the computer until you change the setting again (by either selecting a different setting or resetting to the default setting).

For information on changing the monitor setting, see the documentation supplied with your computer.

## Resetting to the Default Monitor Setting

You can reset to the default setting for your monitor any time you restart your computer. When you reset to the default, the additional monitor settings supported by the accelerator are no longer available for you to select using the system utility for setting the monitor. (If you want to select one of these additional settings, you must add the settings again.)

To reset to the default, hold down **R** (the **R** key on the keyboard) and restart the computer. The default setting is saved in a Preferences file and used each time you restart the computer until you select a different setting.

For information on the default monitor setting, see the documentation supplied with your monitor.

