

# Spitfire Display Settings

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## Setup Drivers

The windows-based program Spitfire Settings provides an easy way to setup your Spitfire Windows drivers. You simply click on several radio buttons to set the driver you selected.

The Resolution and Colors are the selections that most users are concerned about. Clicking on the "Advanced" button will display several Advanced Selections -- Font Sizes, Driver Types, Vertical Refresh Rates, and Virtual Desktop.

Clicking on the "SysInfo" button will give you the System Information which is helpful for setting up the Spitfire Windows drivers.

When you finish Windows driver setup, click on the button "OK" to Accept Selection. The program will modify the Windows system file "system.ini" in the Windows directory. Finally, the program will restart the Windows system so that your selection will take effect.

## Resolution and Colors

These two groups of radio buttons provide users the most useful choices for setting up the Spitfire Windows drivers.

You may notice that some choices are automatically grayed so you can not select them. The grayed choices are determined by two major factors:

- 1) Window drivers availability.
- 2) The memory size of Your Spitfire VGA controller. The program automatically detects your video memory size. It will eliminate the high resolution and high color combination if that combination requires more memory than you have.

Please note, extremely high resolution and high color combination may reduce display speed and readability of the display. So, for 14 inch super VGA color monitor, the best combination may be 800 x 600 resolution and 256 colors.

## Advanced Selections

When the "Advanced" button is pushed, the setup window will be extended and four additional selection groups will be provided: Font Sizes, Driver Types, Vertical Refresh Rates, and Virtual Desktop.

For the 1024x768 resolution or below, the default font size is "Normal". For the 1280x1024 resolution, the default font size is "Large". The setup program provides an additional selection of font size for the 1024x768 resolution or above. If you have a big screen like 17 inch or 19 inch monitor, you could choose "Normal" font size so that you could have more text displayed on your screen.

There are two types of Windows drivers -- segmented and linear. The default setting is Linear. Linear drivers offer the fastest Windows performance. However, due to the limitation of ISA bus, the default setting will be segmented on ISA bus.

The Vertical Refresh combo box lets you select available vertical frequencies for the mode you choose. Refer to your monitor specification for the supported refresh rates before making any selection. Or you can choose lower frequency first, then use Spitfire Utility to test and set vertical frequency on the fly after rebooting. If you make any change to the refresh rate, the program will ask you whether you want the new refresh rate to be saved in the EEPROM (if your VGA adapter board is equipped with an EEPROM). Choose Yes if you want the new refresh rate to remain in effect after you reboot the computer.

The Virtual Desktop button lets you choose a virtual screen size that is larger than your visual size. For segmented drivers, the virtual size is up to 1024x768 only. For linear drivers, the virtual size can be up to 1600x1200. Some selections may be grayed out to prevent selection if there is not enough video memory on your VGA adapter board.

## System Information

When you push the SysInfo button, the information box on the bottom of the dialog window will display the system information related to the Windows driver setup.

The current driver is the driver currently being used by the system. The information comes from the system file "system.ini" in the Windows directory.

The amount of video memory decides how high the resolution can be and how many colors you could have. If you have a limited amount video memory, the program will automatically gray those high resolution and high color choices that your VGA adapter board can not run.

As we know, there are interlaced and non-interlaced monitors. Interlaced monitors can only be used in interlaced mode. Non-interlaced monitors can be used in both interlaced or non-interlaced modes. Whether a monitor is going to run in interlaced or non-interlaced mode depends on the display mode setting. For resolutions 640x480 and 800x600, monitors are always in non-interlaced mode. For resolutions 1024x768 and 1280x1024, the monitor may run in either interlaced or non-interlaced mode.

The selection for interlaced mode or non-interlaced mode can be made in the Vertical Refresh combo box. An "i" after the refresh rate signifies an interlaced mode, e.g. 87iHz. When you click on the "SysInfo" button, the program will tell you whether your monitor is in interlaced or non-interlaced mode when you choose 1024x768 resolution.

Note: When you click on any of the non-grayed choice buttons, the information box in the bottom of the dialog window will display the driver description string you just selected.

