

FCC Compliance 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,
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, 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 emit radio frequency energy and, if not installed or used in accordance with the instructions, may cause interference to radio communications. However, television reception interference can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

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

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Table of Contents

Chapter 1 ABOUT THE MANUAL

1	1.1	Introduction
1	1.2	Knowledge Required
1	1.3	System Requirements

1.4	Features	1
1.5	Organization of this manual.....	2
1.6	Other information	2

Chapter 2: HARDWARE INSTALLATION

2.1	Installing the Spitfire AV+ Board
2.2	Connecting Video and Audio Cable
2.3	Connecting the Composite AV-in Cable...

Chapter 3: Windows 95 Driver and Utility

3.1	Introduction
3.2	Windows 95 Driver Setup
3.3	Change Display Resolution

Chapter 4: Windows 3.1X Driver and Utility

4.1	Windows 3.1X Driver Setup.....
4.2	Change Display Resolution
4.3	SPITFIRE Utility.....

Chapter 5: MEDIACENTER

5.1	Mediacenter Introduction
5.2	Starting the Mediacenter
5.3	The Control Panels

5.4	The Control Panels Buttons
-----	----------------------------------

Chapter 6: GLINKMPEG PLAYER

6.1	Introduction
6.2	Installation
6.3	Running the LinkMPEG Player
6.4	Q and A

Chapter 7: GVIDEO CAPTURE

7.1	Video Capture Introduction
7.2	Using the Video Capture
7.3	The Video Capture Buttons

Chapter 8: GTELETEXT VIEWER (optional)

8.1	The Introduction
8.2	The Viewer Program.....

Chapter 9: GREMOTE CONTROL (optional)

9.1	The Introduction.....
9.2	Install & Configure the Remote Control.....
9.3	Using the Remote Control.....

Appendix A | GReadMe First for Video Capturing

Chapter 1;G About the Manual

1.1 Introduction

This manual describes the Spitfire AV+ multimedia graphics board and how to install it, and explains the applications provided with the board.

The Spitfire is a powerful 64-bit graphics accelerator for Microsoft Windows 3.1 and Windows 95 and IBM OS/2 Warp.

The Spitfire also provides a built-in H/W video accelerator for MPEG I video at up to 30 frames per second without the use of expensive hardware MPEG decoder.

1.2 knowledge Required

The manual assumes you are familiar with basic Windows operations. If you are not, refer to the Microsoft Windows user guides and tutorials for additional information.

The installation sections assume knowledge of ISA/PCI add-on card installations and Windows software setup.

1.3 System Requirements

- PCI Bus interface
- IBM AT-compatible, with 486SX/33MHz or above
- Windows 3.1, or above
- 4 MB system memory
- 10 MB hard disk space for installation and work files

1.4 Features

- * PCI Bus Interface
- * 64-bit display memory data path and graphics engine. Supports Interlaced and Non-interlaced modes in both graphic and video modes
- . Standard VGA resolutions supported:
 - 320 X 240
 - 640 X 400 640 X 480
- * Extended resolutions supported: 800 X 600 1024 X 768
1152 X 864 1280 X 1024* MPEG software decoding at up to 30 frame per second* Supports antenna and cable TV inputs* Supports standard RCA and S-Video inputs* Supports single frame and motion capture up to 30 frame per second* Supports VESA DDC1 & DDC2B* Supports VESA DPMS power saving mode
- * Supports Microsoft Direct Draw and DCI* Supports Microsoft Direct Video

1.5 Organization of The Manual

Chapter 2, **Hardware Installation**, explains the hardware installation.

Chapter 3, **Windows 95 Driver and Utility**, explains the installation of Windows 95 drivers and usage of the drivers.

Chapter 4, **Windows 3.1X Driver and Utility**, explains the installation of Windows 3.1X and usage of the drivers and utilities.

Chapter 5, **MediaCenter**, explains the usage of the Media Center DVCI Software.

Chapter 6, **LinkMPEG Player**, explains the operation of the software MPEG player.

Chapter 7, **Video Capture**, explains the usage of the Media Capture software.

Chapter 8, **TeleText Viewer** (optional).

Chapter 9, **Remote Control** (optional).

1.6 Other Information

TERMINOLOGY

AVI Video for Windows format, from Microsoft

MCI Media Control Interface, from Microsoft

WAVE Audio format used by Windows, from Microsoft

latest information

The README.DOC file on the CD-ROM contains the latest information, received after this manual went to press. This information is available at installation time, and by reading the file at any time.

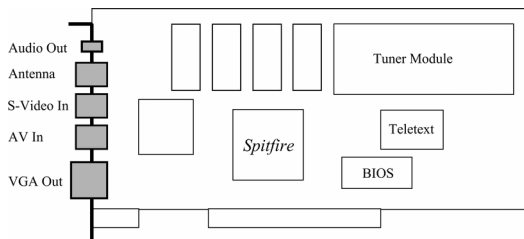
During installation, a screen message asks if you wish to see the latest information. If you reply Yes, the Readme file is displayed.

Chapter 2: Hardware Installation

2.1 Installing the Spitfire AV+ Board

Follow these steps to install the Spitfire AV+ board in your computer:

1. Turn off your computer.
2. Remove the cover from your computer.
3. Choose an empty PCI bus slot.
4. Remove the expansion slot cover and unscrew the slot cover.
5. Pick up your Spitfire card by its edges. Line it up with the card guide and the expansion slot connector, and firmly slide it into the slot. Anchor the card mounting bracket with the screw you removed in step 4.
6. Put the Computer cover back.



Spitfire AV+

2.2 Connecting Video and Audio Cables

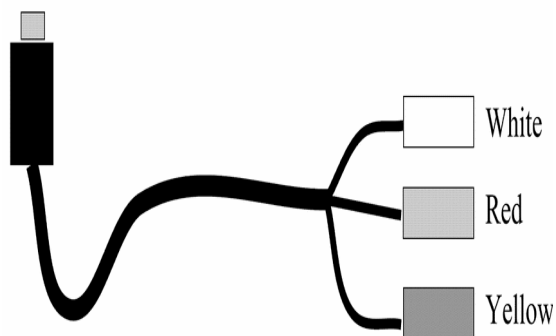
Below are the descriptions of the Spitfire AV+ connectors:

Audio Out	This connector provides stereo output for a 4 or 8 ohm external speaker system. It should be connected to the sound card Line-In if you have a sound card in your system.
Antenna	This connector connects to your TV antenna or cable TV.
S-Video In	This connector is for S-Video input from your VCR, Camcorder, or Laser Disc supplying an S-Video output.
AV In	This connector is for composite AV input supplied with the Spitfire AV+ package.
VGA Out	Connect this to the TV monitor.

2.3 Connecting the Composite AV-in Cable

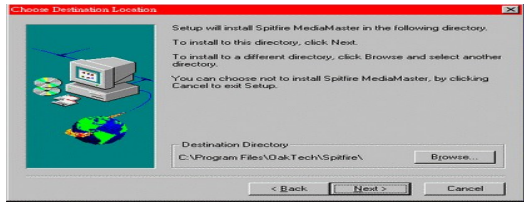
The composite AV-In Cable, included with the Spitfire AV+ package, connects the spitfire AV+ with video and audio input sources:

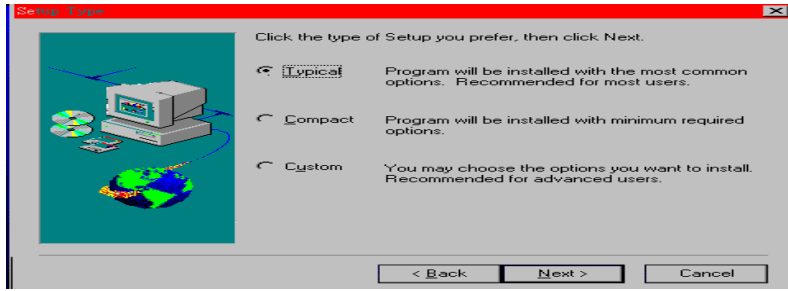
Black

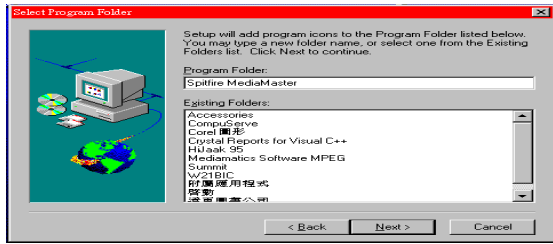


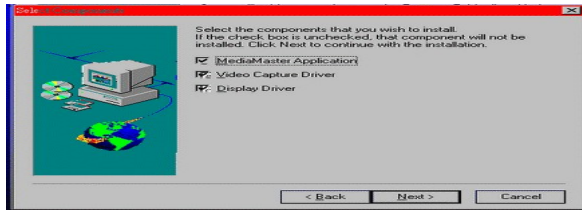
Black connector:	Connects to the Spitfire AV+.
Yellow connector:	This is the Video-In connector; it connects to the Video-Out of your VCR, Camcorder, or other video source.
Red connector:	This is one of two audio stereo connectors. It connects to the Audio-Out of your VCR, Camcorder, or other video source.
White connector:	This is the second audio stereo connector.

Chapter 3: Windows 95 Driver and Utility









Tuner setting



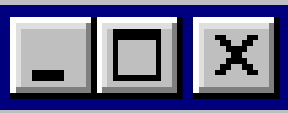
Select the country code for setting TV

TV Standard :

Country :

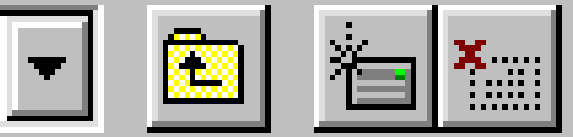


My Computer



File Edit View Help

My Computer



My Computer content area showing icons for floppy disk (A:), hard drive (C:), CD-ROM (D:), and Control Panel. The Control Panel icon is selected with a blue dashed border.

1 object(s) selected

Control Panel



File Edit View Help

Control Panel

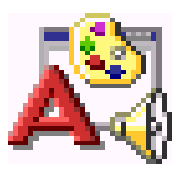


Accessibility
Options



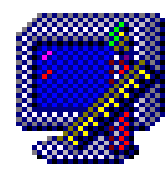
Date/Time

Add New
Hardware

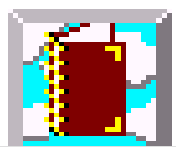
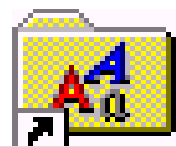


Desktop
Themes

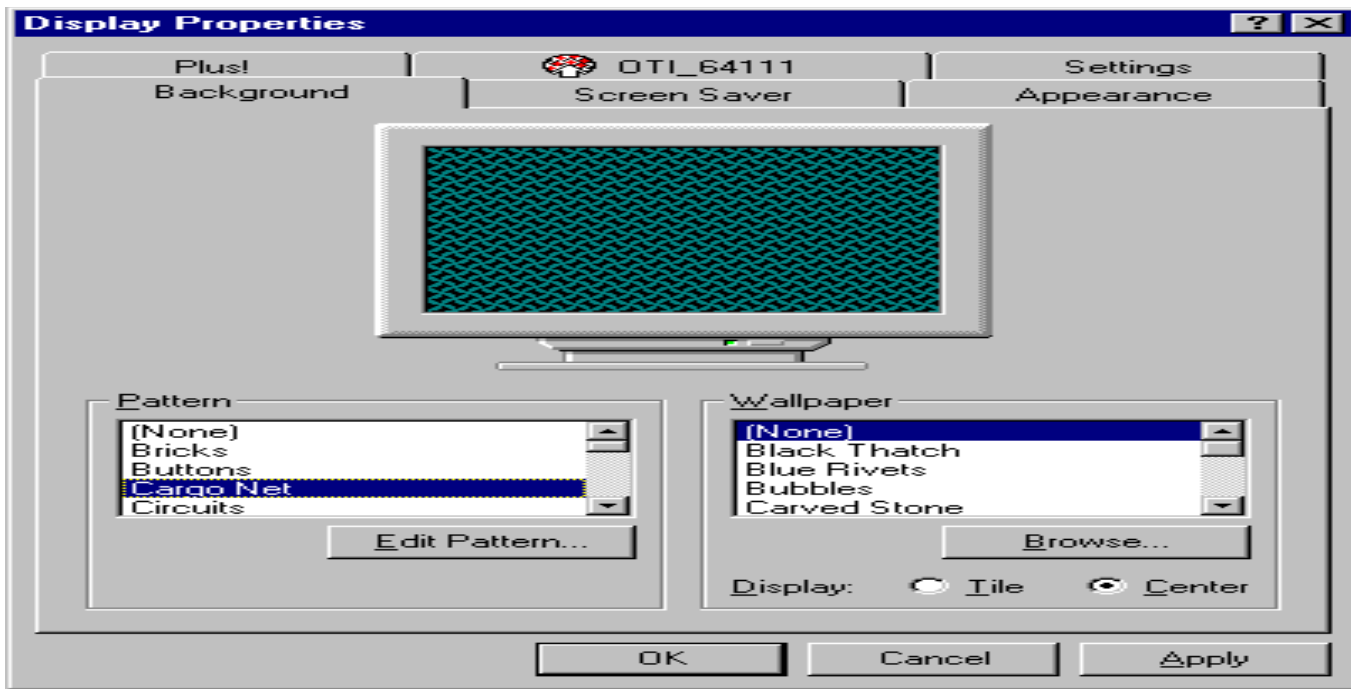
Add/Remove
Programs



Display



Changes settings for your display.



Display Properties



Background
Plus!

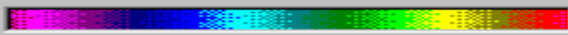
Screen Saver
OTL_64111

Appearance
Settings



Color palette

256 Color



Desktop area

Less  More

640 by 480 pixels

Font size

Small Fonts



Custom...

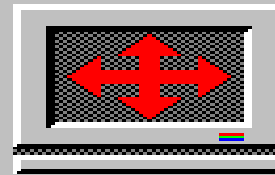
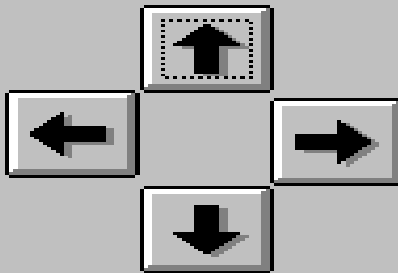
Change Display Type...

OK

Cancel

Apply

Screen Centering



Reset

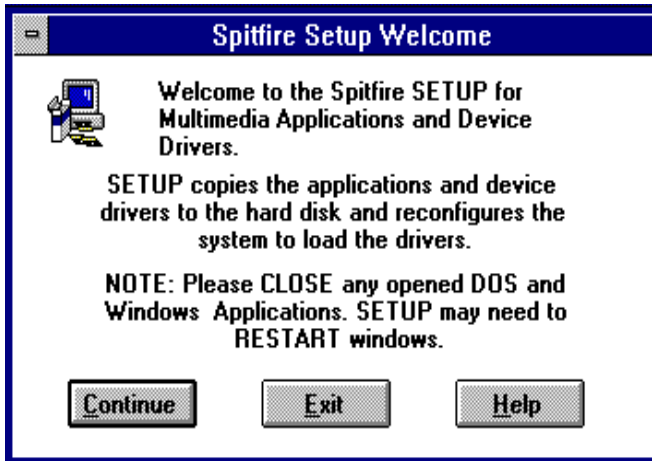
Monitor Refresh Rate

640x480

- 60 Hz
- 72 Hz
- 75 Hz
- 85 Hz



Chapter 4jG Windows 3.1x Driver and Utility



Spitfire Setup Welcome



Welcome to the Spitfire SETUP for
Multimedia Applications and Device
Drivers.

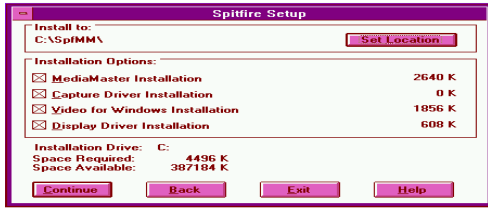
SETUP copies the applications and device
drivers to the hard disk and reconfigures the
system to load the drivers.

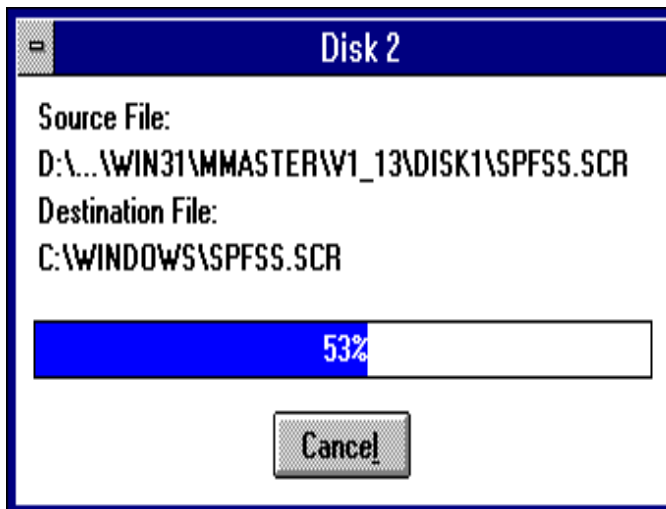
NOTE: Please CLOSE any opened DOS and
Windows Applications. SETUP may need to
RESTART windows.

Continue

Exit

Help





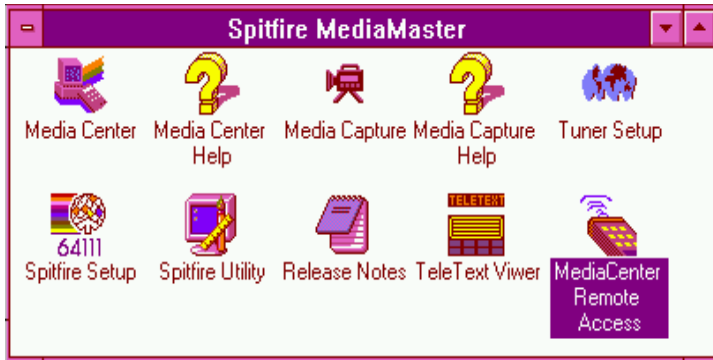
Tuner setting

Select the country code for setting TV Tuner

TV Standard :


Country : ▾

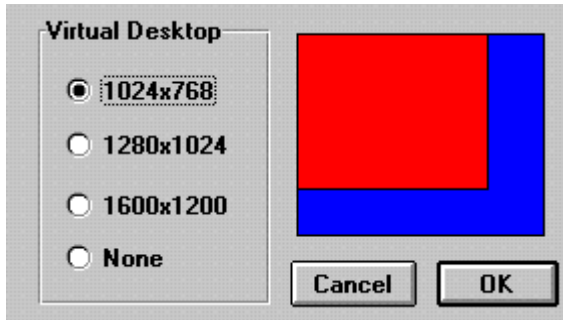




Ok	Resolutions	Colors
Cancel	<input type="radio"/> 640 x 400	<input type="radio"/> 16
Advanced	<input checked="" type="radio"/> 640 x 480	<input checked="" type="radio"/> 256
SysInfo	<input type="radio"/> 800 x 600	<input type="radio"/> 32K
About	<input type="radio"/> 1024 x 768	<input type="radio"/> 64K
Help	<input type="radio"/> 1280 x 1024	<input type="radio"/> 16M
Driver selected: SPITFIRE 640x480 256 colors (Lnr.) Vertical Refresh Rate: 60Hz Virtual Screen: None		



<input type="button" value="Ok"/>	Resolutions	Colors	Font Size
<input type="button" value="Cancel"/>	<input type="radio"/> 640 x 400	<input type="radio"/> 16	<input checked="" type="radio"/> Normal
<input type="button" value="Advanced"/>	<input type="radio"/> 640 x 480	<input checked="" type="radio"/> 256	<input type="radio"/> Large
<input type="button" value="SysInfo"/>	<input checked="" type="radio"/> 800 x 600	<input type="radio"/> 32K	Driver Type
<input type="button" value="About"/>	<input type="radio"/> 1024 x 768	<input type="radio"/> 64K	<input type="radio"/> Segmented
<input type="button" value="Help"/>	<input type="radio"/> 1280 x 1024	<input type="radio"/> 16M	<input checked="" type="radio"/> Linear
Vertical Refresh			<input type="text" value="60Hz"/> <input type="button" value="v"/>
Driver selected: SPITFIRE 800x600 256 colors (Lnr.) Vertical Refresh Rate: 60Hz Virtual Screen: None			





640x480

60 Hz

72 Hz

75 Hz

OK

Cancel

Help



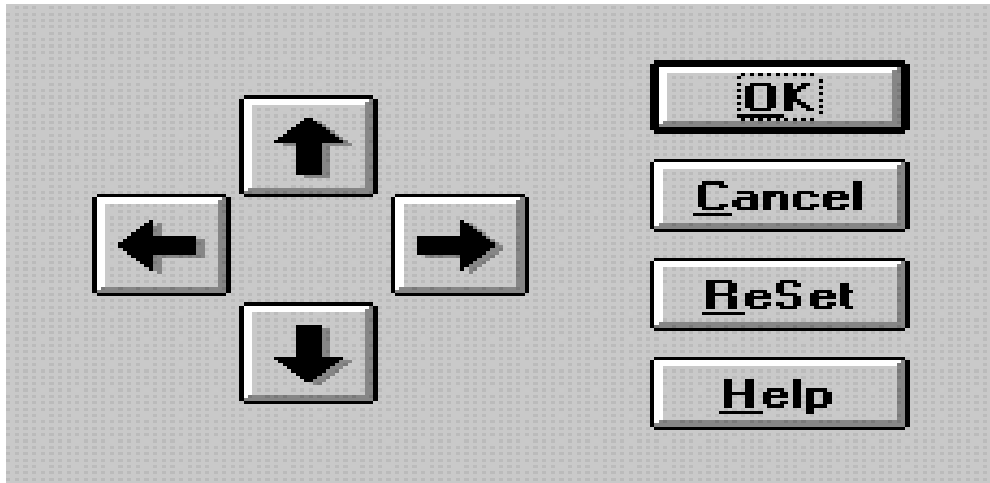
Spitfire Utility will now change the vertical refresh rate. If Windows does not appear correctly, wait 15 seconds, and your original refresh rate will be restored.



You changed your refresh rate.
Do you want to keep this setting?

Yes




No



Foreground	
Red	<input type="text" value="255"/>
Green	<input type="text" value="255"/>
Blue	<input type="text" value="255"/>

Background	
Red	<input type="text" value="0"/>
Green	<input type="text" value="0"/>
Blue	<input type="text" value="0"/>

Buttons: **OK**, **Cancel**, **Default**, **Help**

Mouse icons:   



Ok

Cancel

Help

Name: ▾

Test

Delay: Minutes

Setup