

User's Manual

For

MVGA-NVTNT2MP

DOC NO : 54-0T2MP-01

Rev.A

99/11/11

FCC Requirement



This device has been certified to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of the FCC Rules. See instructions if interference to radio reception is suspected.

WARNING: This equipment generates and uses radio frequency energy and, if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio or television reception.

It has been tested and found to comply with the limits for a Class B compliant device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause 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:

- Reorient the receiving antenna
- Relocate the computer away from the receiver
- Move the computer away from the receiver
- Plug the computer into a different outlet so that the computer and the receiver are on different branch circuits
- Ensure that the card's mounting screws, attachment connector screws, and ground wires are tightly secured
- Ensure that slot covers are installed in all unused slots

If necessary, consult your dealer, service representative, or an experienced radio/television Technician for additional suggestions.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. It is the responsibility of the user to correct such interference.

The user may find the following booklet prepared by the Federal Communications Commission helpful:

How to Identify and Resolve Radio-TV Interference Problems.

This booklet is available from the Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

NOTE: You must use shielded interface cables with a ferrite bead in order to maintain compliance with the limits for a Class B device.

CAUTION:	CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT
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Notice

The information in this document is subject to change in order to improve reliability, design, or function without prior notice and does not represent a commitment on the part of this company.

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Our company warrants this product against defects in materials and workmanship for a period of one (1) year from the date of purchase. During the warranty period, a product determined by us to be defective in form or function will be repaired or at our option, to be replaced at no charge. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or as a result of service or modification other than by us.

This warranty is in lieu of any other warranty expressed or implied. In no event shall we be held liable for incidental or consequential damages, such as lost revenue or lost business opportunities arising from the purchase of a this product.

TABLE OF CONTENTS

1. Introduction	1
Features	1
System Requirements	2
Package Contents	2
2. Hardware Installation	3
Adapter Configuration.....	3
Installing the MVGA-NVTNT2MP adapter card.....	4
3. Software Installation	5
AutoRun Instruction	5
Installing drivers on Windows 95/98.....	6
Installing DirectX on Windows 95/98.....	6
TV-OUT Function Instruction.....	7
Installing drivers on Windows NT 4.0	9
4. Display Information	10
Resolutions Supported.....	10
5. MVGA-NVTNT2MP FAQ.....	12

1. Introduction

The MVGA-NVTNT2MP is a highly integrated 3D/2D graphics card Leveraging the RIVA TNT2 core technology, (TwiN-Textel) architecture, 24bit z-buffering, 8bit stencil buffer and per-pixel mapping precision delivers unsurpassed quality. MVGA-NVTNT2MP delivers breakthrough 3D and 2D graphics performance. In addition to its outstanding graphics capabilities, the MVGA-NVTNT2MP provides complete support for video, software DVD playback .

MVGA-NVTNT2MP graphics card is ideal for small business users who require high-performance 2D platform and for corporate users who also have data-intensive visualization demands. The MVGA-NVTNT2MP exceeds the standards of the mainstream PC graphics market and Microsoft's PC 98, PC 99, and DirectX 6.0 initiatives.

Features

- High performance 2D/3D processor Riva TNT2 Model 64.

- SDRAM memory on board.

- Integrated true-color 300MHz RAMDAC interface.

- Supports high screen resolutions up to 1920x1200@75Hz.

- 1MB Flash-ROM on board (Optional).

- 128-bit TwiN-Textel architecture.

- High-performance 128-bit 2D/GUI/DirectDraw acceleration.

- Fast 32-bit VGA/SVGA support.

- Optimized for Katmai New instructions and 3DNow!TM

- High performance implementation of Direct3D and OpenGL standards.

- Full-screen, full-frame DVD playback.

- Video acceleration for DirectShow, MPEG-1, MPEG-2, and Indeo.

- 64-bit frame buffer interface.

- Windows 2000, Windows NT 4.0 display drivers.

- Windows 98 and 95 display drivers.

- OpenGL ICD for Windows 2000, Windows NT 4.0, Windows 98 and Windows 95.

System Requirements

Any motherboard with PCI bus.

Microsoft Windows 95 (OSR2.1) / Windows 98 / Windows 2000 or
Windows NT 4.0 with service pack 3.

DirectX 5.0 or higher.

Package Contents

MVGA-NVTNT2MP adapter

AutoRun Driver CD-Title

User's Manual

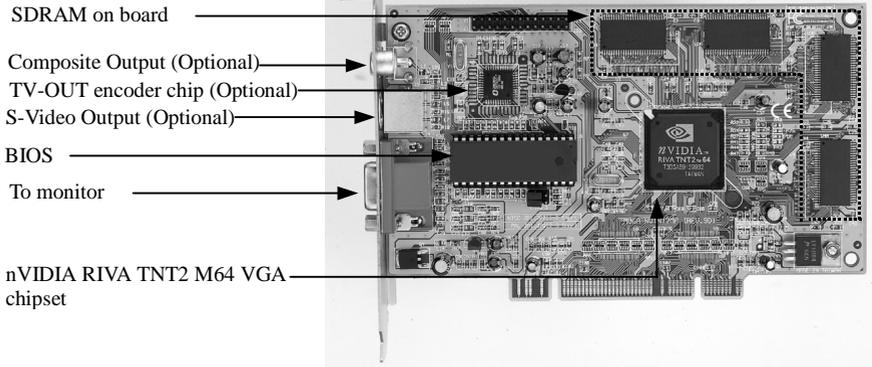
IVI's WinDVD CD-Title (Optional)

RCA Cable (Only for MVGA-NVTNT2MP with TV-OUT)

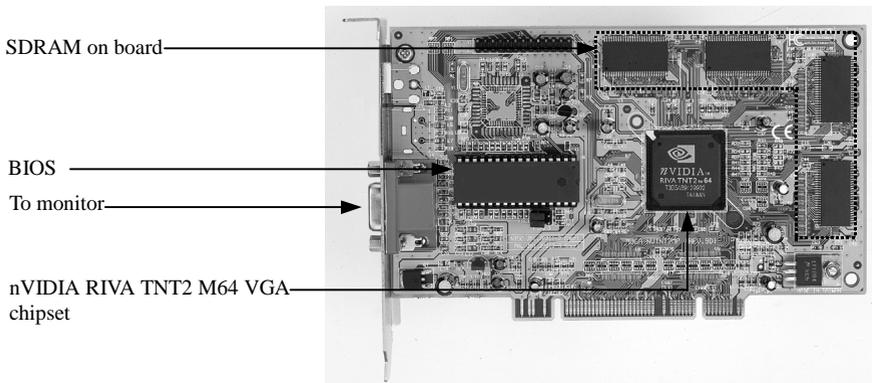
S-Video Cable (Optional for MVGA-NVTNT2MP with TV-OUT)

2. Hardware Installation

Adapter Configuration



MVGA-NVTNT2MP(w/ TV-OUT)



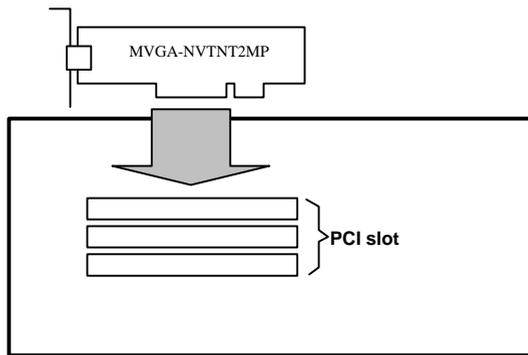
MVGA-NVTNT2MP(w/o TV-OUT)

Installing the MVGA-NVTNT2MP adapter card

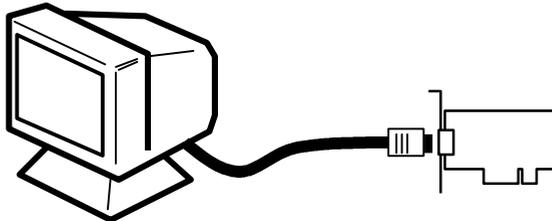
1. Turn OFF your computer, remove the computer case, and then ground yourself by touching the power supply of the computer.

Note:	Before installing the MVGA-NVTNT2MP VGA card you must first set the VGA option to either standard VGA or Standard Display VGA.
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2. Remove your old graphics card, and install your new MVGA-NVTNT2MP card into the PCI slot.



3. Align and secure the mounting bracket of the card to the computer and replace the computer case.
4. Connect the monitor cable to the DB-15 connector of the card.



5. Turn ON your computer.

3. Software Installation

AutoRun Instruction

1. Insert the AutoRun CD-ROM driver (wait a few seconds). You will see the windows which shown on the screen. Please choose the model , which you want.
2. Click-on '**Install Driver**' to install the VGA driver.



Click-on '**DirectX**' to install Microsoft DirectX onto your Windows 95/98 system. Not necessary, if it has already been installed in your system.

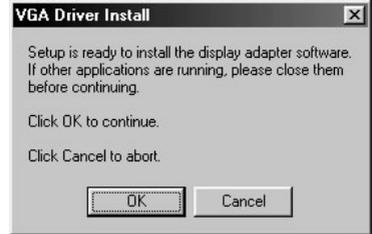
Click-on '**Readme**', to view detailed information regarding the various Drivers/Programs and FAQ's located on the CD.

Click-on '**Browse CD**' to view the contents of the CD.

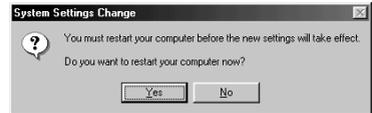
Click-on '**Exit**' to exit the AutoRun tool.

Installing driver on Windows 95/98

1. Insert the AutoRun driver into the CD-ROM drive, and click-on '**Install Driver**' to setup the VGA driver. Please click '**OK**'.

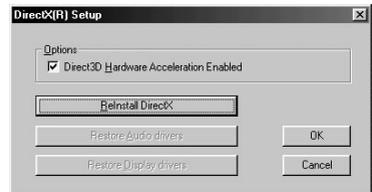


2. After the installation is complete, the system will ask you whether you want to restart your computer now. Please click '**Yes**', to reboot your system and activate the program.

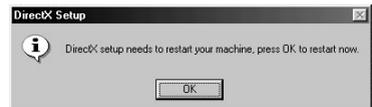


Installing DirectX on Windows 95/98

1. There is no need to re-install DirectX, if it is already on your system. However, if you don't have it and want to install it click-on '**ReInstall DirectX**' to install the DirectX program.



2. When it is done, please click '**OK**' to reboot windows.

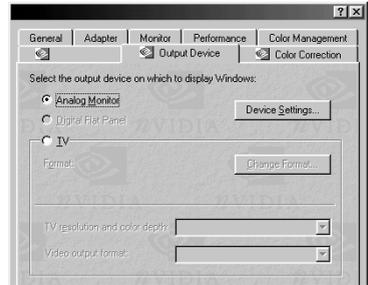


TV-OUT Function Instruction

How to adjustment screen position?

Click on **'Display'** of Control Panel.

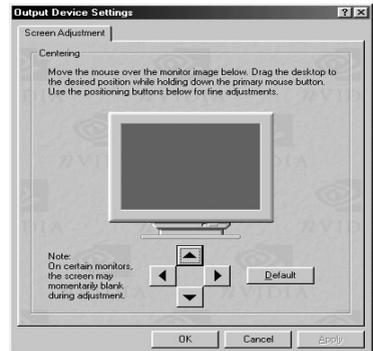
Select **'Settings'** page and click **'Advanced Properties'** you will see the windows.



- A. When the output of your VGA set to Monitor, You can click **'Device Setting'** to adjustment screen position

WARNING:

The Monitor display may become scrambled if you adjustment screen position over range.



How to change TV setting?

You can click 'TV' to switch VGA output to TV

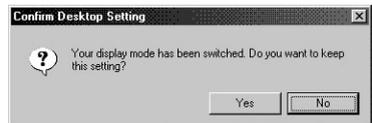
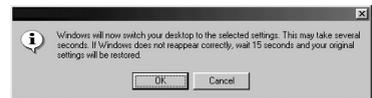
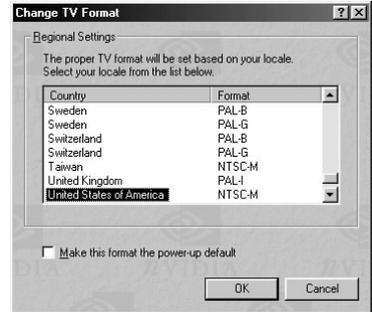
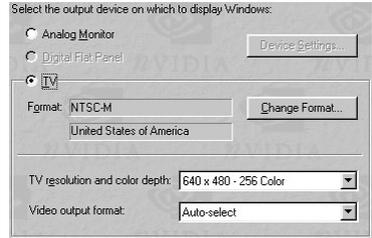
- A. Click '**Display Format**' to select which TV standard you want.

When you select '**Make this format the power-up default**', System will change BIOS default to the format when you boot-up next time.

- B. Select '**TV resolution and color depth**' to change resolution and color depth.

- C. Click '**Video output format**' to select output from Composite or S-Video.

- D. Click '**OK**' to switch your display mode.



Installing driver on Windows NT 4.0

1. Start Windows NT, switch display properties to VGA mode (16 colors, 640x480 pixels), then restart your computer to make the change.
2. After your computer restarts, right-click the desktop and click **'Properties'**.
3. Click the **'Settings'** tab.
4. Select **'Display Type'**.
5. Select **'Adapter Type'** and click **'Change'**.
6. Click **'Have Disk'**.
7. Insert the AutoRun driver into the CD-ROM drive.
8. Click (assuming your CD-ROM disc driver X) **'Browse CD'** to select the path **'X:\NVTNT2MP\NT40'** of the display driver for Windows NT.
9. You will see a list of NVTNT2MP Series driver. Select NT4.0 driver and then click **'OK'**.
10. Windows NT will once again prompt for confirmation. All appropriate files are then copied to the hard disk. When all files are copied, go back to the **'Display Properties'** box by clicking **'Apply'** or Click **'Close'**.
11. The **'System Setting Change'** dialog box is displayed. Click **'Yes'** to restart Windows.
12. Windows NT will restart with the default settings. The display applet will appear to allow for mode selection.

4. Display Information

Resolutions Supported				
Resolution	Vertical Frequency	Color Depth		
		256 colors Standard	65K colors Standard	16.7M colors Standard
640 x 480	60Hz	✓	✓	✓
	70Hz	✓	✓	✓
	72 Hz	✓	✓	✓
	75 Hz	✓	✓	✓
	85Hz	✓	✓	✓
	100Hz	✓	✓	✓
	120Hz	✓	✓	✓
	140Hz	✓	✓	✓
	144Hz	✓	✓	✓
	150Hz	✓	✓	✓
	170Hz	✓	✓	✓
	200Hz	✓	✓	✓
	240Hz	✓	✓	✓
800 X 600	60Hz	✓	✓	✓
	70Hz	✓	✓	✓
	72 Hz	✓	✓	✓
	75 Hz	✓	✓	✓
	85Hz	✓	✓	✓
	100Hz	✓	✓	✓
	120Hz	✓	✓	✓
	140Hz	✓	✓	✓
	144Hz	✓	✓	✓
	150Hz	✓	✓	✓
	170Hz	✓	✓	✓
	200Hz	✓	✓	✓
	240Hz	✓	✓	✓
1024 X 768	60Hz	✓	✓	✓
	70Hz	✓	✓	✓
	72 Hz	✓	✓	✓
	75 Hz	✓	✓	✓
	85Hz	✓	✓	✓
	100Hz	✓	✓	✓
	120Hz	✓	✓	✓
	140Hz	✓	✓	✓
	144Hz	✓	✓	✓
	150Hz	✓	✓	✓
	170Hz	✓	✓	✓
	200Hz	✓	✓	✓
	240Hz	✓	✓	✓

1152 X 864	60Hz	V	V	V
	70Hz	V	V	V
	72 Hz	V	V	V
	75 Hz	V	V	V
	85Hz	V	V	V
	100Hz	V	V	V
	120Hz	V	V	V
	140Hz	V	V	V
	150Hz	V	V	V
	170Hz	V	V	V
200Hz				
240Hz				
1280 X 1024	60Hz	V	V	V
	70Hz	V	V	V
	72 Hz	V	V	V
	75 Hz	V	V	V
	85Hz	V	V	V
	100Hz	V	V	V
	120Hz	V	V	V
1600 X 1200	60Hz	V	V	V
	70Hz	V	V	V
	72 Hz	V	V	V
	75 Hz	V	V	V
	85Hz	V	V	V
1920 X 1080	60Hz	V	V	V
	70Hz	V	V	V
	72 Hz	V	V	V
	75 Hz	V	V	V
	85Hz	V	V	V
1920 X 1200	60Hz	V	V	V
	70Hz	V	V	V
	72 Hz	V	V	V
	75 Hz	V	V	V

5. MVGA-NVTNT2MP FAQ

Q: While installing on a Windows 95 or 98 operating system, my computer loses the Vertical Sync.

A: Please check your monitor's specifications. Some monitors connect the DDC signal to ground: Which causes the BIOS to not detect your monitor. Therefore, causing your MVGA-NVTNT2MP to not receive any data or refresh rates.

Q: I can't install the driver on my Windows 95 system.

A: If your operating system isn't the OSR2.1 version, you won't be able to install the driver.

To fix the problem:

Please change your operating system to the OSR2.1 version.
Windows 95 OSR2.1 Installation.

1. Install Windows 95 OSR2.1
2. Execute USBSUPP
3. Install DirectX 5.0 or higher
4. Install the VGA driver

Q: The image on my monitor keeps on flickering and the driver can't change the refresh-rate.

A: The problem is due to a failed DDC monitor detection.

To fix the problem:

1. Go to '**Settings**' ⇒ '**Control Panel**' ⇒ '**Display**'
2. Select '**Settings**' page
3. Click '**Advanced Properties**'
4. Select '**Monitor**' page
5. Select '**Change**'
6. Select '**Show All Devices**' and choose your monitor type. If your monitor type is not listed, please select one that is as similar as possible.

Q: How do I change the resolution, color, and refresh-rate on my Windows 95/98 system?

A: Open the 'My Computer' folder and select the 'Control Panel' icon. Double-click on 'Display' then select 'Settings'. A new menu will appear choose 'Color Palette' to change the Color values. Choose 'Desktop area' to change the Resolution (screen image size). From the same screen click-on 'Advanced Properties' to access the Refresh-rate.

Q: How do I change the resolution, color, and refresh-rate on my Windows NT system?

A: The procedure is basically the same as above, for the 95 & 98 system. Except that you must select 'Test' then 'OK', so that the changes can take affect.