## Installing MSI Live Update

MSI Live Update offers you with brand-new update service experience, which can significantly save your time while searching files. MSI Live Update is capable to automatically analyze and list drivers, BIOS, and utilities you need. With the easy-to-use updating approaches, you can increase the performance of your system easily and quickly. Follow the instructions below, with a few mouse clicks, you can acquire the related files for the system updating.

Installing from the Disk

1. Insert the supplied disk into the CD-ROM drive, and start the **Setup** program.

2. Click the **Utility** tab on the setup screen.

3. Click the **MSI Live Update.** Follow the on-screen instructions to complete the installation.

Installing from the MSI Web Site

1. Link to MSI's website at http://www.msi.com.tw

2. Find and click **Live Update Online** on the left side of the web page to enter MSI Download Center.

3. Click **Start to Check** to download the Live Update application.

4. Click **Install** the continue.

5. Follow the on-screen instructions to complete the installation.

6. Launch MSI Live Update and to enter the main page of this utility as shown here.
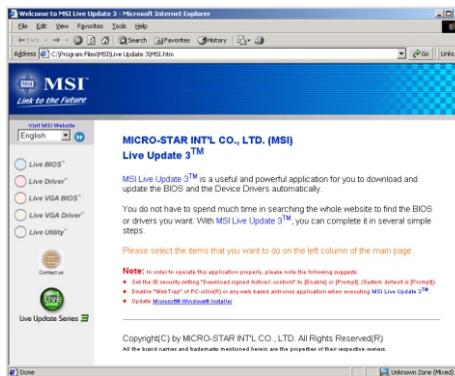
Using MSI Live VGA Driver Update

This service enables you to update the latest VGA driver for your VGA card.

1. To update the MSI Live VGA Driver, click Live VGA Driver item on the left column of the main page.

2. This utility will start checking your platform and the information on the VGA card, and display the information in a list.

3. Click the graph button on the bottom to connect MSI Live Update Series Server. Then, it will automatically connect the Internet and compare the version of the driver in the database.

4. It may take several minutes to detect the required drivers. Please wait while proceeding detection.

5. Click the **InstallShield Wizard** button on the right side of the table to download and update the driver. All actions will proceed automatically.

6. Follow the on-screen instructions to complete the updating procedure.

7. Note that to ensure the best SLI performance, please visit MSI website to update the Latest driver.

Using MSI Live VGA BIOS Update

This service enables you to update the latest VGA BIOS for your VGA card.

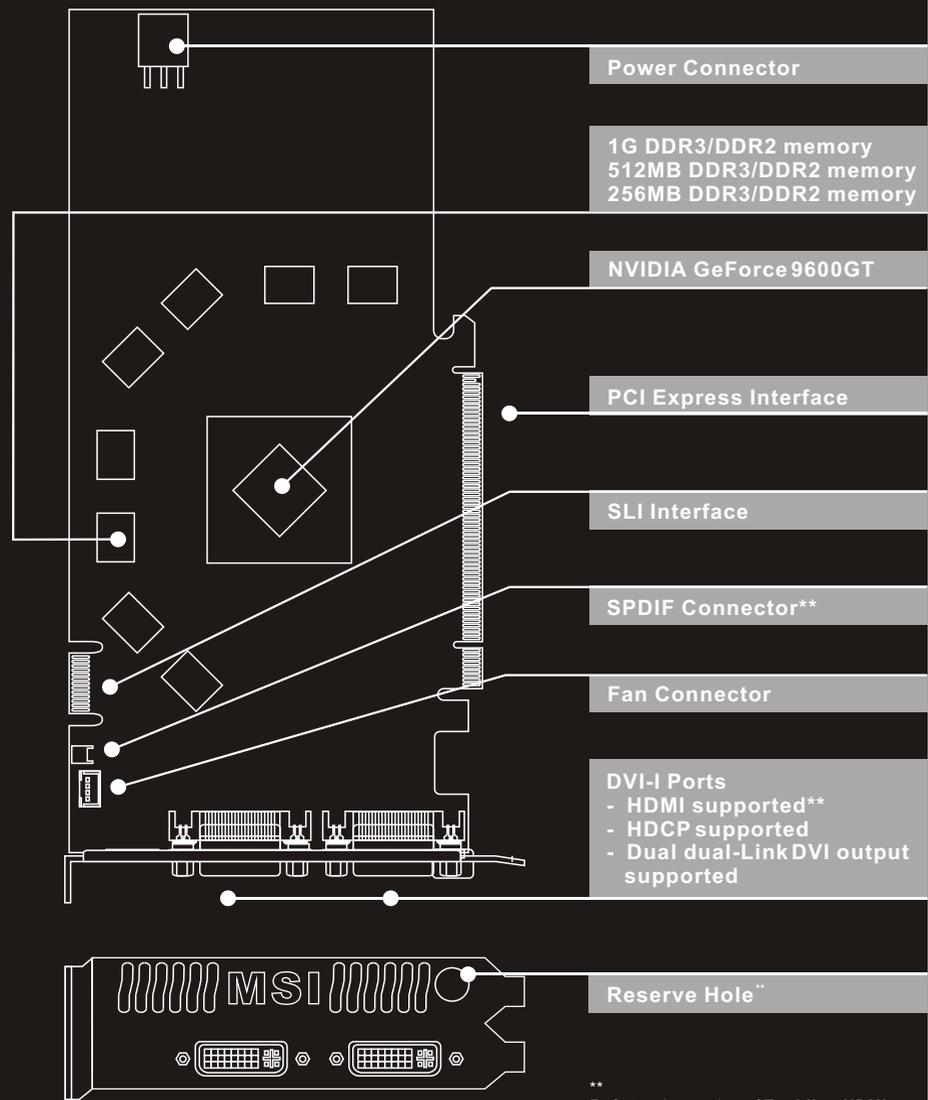1. To update your VGA BIOS, click Live VGA BIOS item on the left column of the main page.

2. If your VGA card does not support the Live VGA BIOS function, you will receive a warning message on the screen.

3. If your VGA card do support the Live VGA BIOS function, please pay attention to the message shown on the screen telling you that in what circumstance flashing BIOS may fail to reboot.

4. Click Yes if you would like to try it at your own risk or No to return to the main page with everything unchanged.

5. If you click Yes to continue, it will check the information and BIOS version of your VGA card, and list them in a table.

6. Click the graph button at the bottom to connect the MSI Live Update 3 Server.

7. The MSI Live VGA BIOS will automatically connect the Internet and search the supported BIOS in the database of MSI.

8. If it has found one (or several) supported BIOS for your VGA card, click the InstallShield Wizard button on the right side of the table to have the new BIOS downloaded and updated automatically.

9. Follow the on-screen instructions to complete the updating procedure.

CERTIFIED FOR
Windows
Vista™

N1996

MICRO-STAR INT'L
MS-V169

CAUTION!!
Do not force the GPU cooler against the fragile GPU to avoid damage to the GPU.

WARNING!!
DO NOT touch the cooling system since it may produce a certain heat while processing tasks.

Quick User's Guide

N9600GT series

MSI
MICRO-STAR INTERNATIONAL

	Power Connector
	1G DDR3/DDR2 memory 512MB DDR3/DDR2 memory 256MB DDR3/DDR2 memory
	NVIDIA GeForce 9600GT
	PCI Express Interface
	SLI Interface
	SPDIF Connector**
	Fan Connector
	DVI-I Ports - HDMI supported** - HDCP supported - Dual dual-Link DVI output supported
	Reserve Hole**

**
*Refer to the section of **Enabling HDMI Output** to enable the HDMI function.*

Note: The VGA card shown here may vary from the actual card.
For further information, please visit MSI website at www.msi.com.tw

Unpacking

Please check out the following items to make sure that you get the complete product:
- VGA card
- Disk: Drivers, documentation, and applications
- ▷ Consult your dealer immediately if anything is missing or damaged.

System Requirements

To install the VGA card, your computer system needs to meet the following requirements:
- PCI Express® or PCI Express 2.0® - compliant motherboard with one x16 graphics slot
- 6-pin supplementary power connector
- Power supply of 400 (and up) watt is highly recommended for system stability
- CD-ROM / DVD-ROM for driver installation
- Visiting MSI website for further information of operating system support

Card Features   *For reference only*

- **NVIDIA® unified architecture**
  Fully unified shader core dynamically allocates processing power to geometry, vertex, physics, or pixel shading operations, delivering up to 2x the gaming performance of prior generation GPUs.
- **Full Microsoft® DirectX® 10 Support**
  DirectX 10 GPU with full Shader Model 4.0 support delivers unparalleled levels of graphics realism and film-quality effects.
- **NVIDIA® SLI™ Technology**
  Delivers up to 2x the performance of a single GPU configuration for unequaled gaming experiences by allowing two graphics cards to run in parallel. The must-have feature for performance PCI Express® graphics, SLI dramatically scales performance on today's hottest games.
- **PCI Express 2.0 Support**
  Designed to run perfectly with the new PCI Express 2.0 bus architecture, offering a future-proofing bridge to tomorrow's most bandwidth-hungry games and 3D applications by maximizing the 5 GT/s PCI Express 2.0 bandwidth (twice that of first generation PCI Express). PCI Express 2.0 products are fully backwards compatible with existing PCI Express motherboards for the broadest support.
- **GigaThread™ Technology**
  Massively multi-threaded architecture supports thousands of independent, simultaneous threads, providing extreme processing efficiency in advanced, next generation shader programs.
- **128-bit floating point High Dynamic-Range (HDR) Lighting**
  Twice the precision of prior generations for incredibly realistic lighting effect snow with support for anti-aliasing.
- **NVIDIA® ForceWare® Unified Driver Architecture (UDA)**
  Delivers a proven record of compatibility, reliability, and stability with the widest range of games and applications. ForceWare provides the best out-of-box experience for every user and delivers continuous performance and feature updates over the life of NVIDIA® GeForce® GPUs.
- **OpenGL® 2.1 Optimization and Support**
  Ensures top-notch compatibility and performance for OpenGL applications.

- **Dual Stream Decode Acceleration**
  Hardware acceleration for HD picture-in-picture enables a complete HD movie playback experience
- **16x Anti-aliasing Technology**
  Lightning fast, high-quality anti-aliasing at up to 16x sample rates obliterates jagged edges.
- **Edge Enhancement**
  Sharpens movie images by providing higher contrast around lines and objects.
- **Dual 400MHz RAMDACs**
  Blazing-fast RAMDACs support dual QXGA displays with ultra-high, ergonomic refresh rates - up to 2048x1536@85Hz.
- **Dual Dual-link DVI Support**
  Able to drive the industry's largest and highest resolution flat-panel displays up to 2560x1600 and with support for Hign-bandwidth Digital Content Protection (HDCP).
- **NVIDIA® PureVideo™ HD Technology**
  The combination of high-definition video decode acceleration and post-processing that delivers unprecedented picture clarity, smooth video, accurate color, and precise image scaling for movies and video.
- **Discrete, Programmable Video Processor**
  NVIDIA PureVideo is a discrete programmable processing core in NVIDIA GPUs that provides superb picture quality and ultra-smooth movies with 100% offload of H.264 video decoding from the CPU and significantly reduced power consumption.
- **HDCP Capable**
  Designed to meet the output protection management (HDCP) and security specifications of the Blu-ray Disc and HD DVD formats, allowing the playback of encrypted movie content on PCs when connected to HDCP-compliant displays.
- **High-Quality Scaling**
  Enlarges lower resolution movies and videos to HDTV resolutions, while maintaining a clear, clean image. Also provides downscaling of videos, including high-definition, while preserving image detail.

Enabling HDMI Output
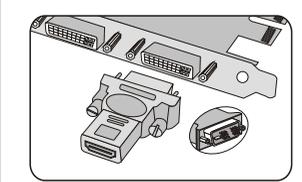
Follow the steps below to enable HDMI Output function:
1. Find the DVI-to-HDMI adapter that comes with the package, if provided. Consult your dealer to purchase the adapter if it is not provided.
2. Attach the DVI-to-HDMI adapter to the DVI connector.
3. Ensure that the adapter is firmly installed.
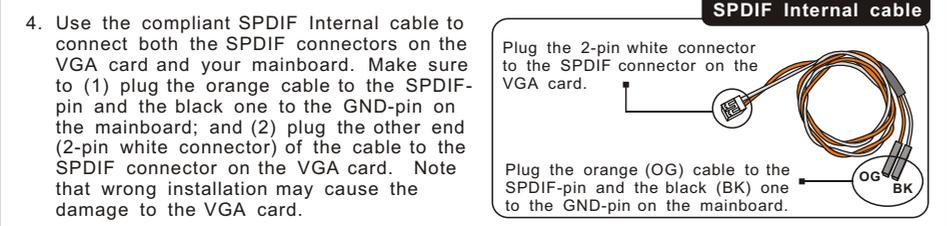
4. Use the compliant SPDIF Internal cable to connect both the SPDIF connectors on the VGA card and your mainboard. Make sure to (1) plug the orange cable to the SPDIF-pin and the black one to the GND-pin on the mainboard; and (2) plug the other end (2-pin white connector) of the cable to the SPDIF connector on the VGA card. Note that wrong installation may cause the damage to the VGA card.

SPDIF Internal cable

Plug the 2-pin white connector to the SPDIF connector on the VGA card.

Plug the orange (OG) cable to the SPDIF-pin and the black (BK) one to the GND-pin on the mainboard.

Hardware

Follow the steps below to install the VGA card:
1. Remove the computer case.
2. Locate the expansion slot on your mainboard. Warning: Inserting the VGA card into a wrong slot may damage your card (refer to your mainboard manual for more Information).
3. Put the card directly over the expansion slot and press one end of the card into the slot first. Gently but firmly press the other end until the card is fully seated in the slot.
4. Secure the card with a bracket screw.
5. Install all other cards and devices and connect all the cables, and then install the case.
6. Connect the monitor. Now, you are ready to install the software on your computer.
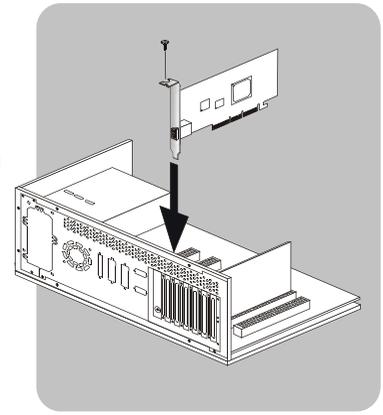
Software

To install the driver of the VGA card to your computer, please follow the steps below:
1. Turn on the computer.
2. Insert the CD into the CD-ROM drive. The Autorun program will start the Setup program, and show the setup screen as follows:

Tip : If, on your computer, the Autorun program does not execute automatically, please 1) enable the CD-ROM drive Auto-detect function from Control Panel; or 2) find and run the setup.exe file manually from the CD.

3. Click **nVIDIA VGA Drivers**. Follow the on-screen instructions to complete the installation.
4. After finishing the installation, restart the computer as instructed.