

***THANK YOU FOR
CHOOSING A MAXI GAMER
PRODUCT***

***VIELEN DANK, DASS SIE
SICH FÜR EIN MAXI GAMER-
PRODUKT ENTSCHIEDEN
HABEN***

***MERCI D'AVOIR CHOISI
UN PRODUIT MAXI GAMER***

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 2. To access our hotline, please follow the instructions included with the warranty card.
-
1. Um Anrecht auf Kundendienst zu haben, füllen Sie bitte die Registrierkarte am Ende des Installationshandbuchs aus.
 2. Wenn Sie Kundendienst benötigen, folgen Sie den Anweisungen auf der Registrierkarte.
-
1. Pour bénéficier du support technique, remplissez, signez et renvoyez-nous la carte de garantie qui se trouve à la fin du manuel.
 2. Si vous avez besoin de notre assistance technique, veuillez suivre les instructions indiquées à la fin du manuel.

English

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Declaration of conformity

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- (2) this device must accept any interference that may cause undesired operation.

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624 Third Street, 3rd Floor
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declare under sole responsibility that the products
from the
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 - Making copies or translations of the user manual.

Warranty

Maxi Gamer products come with a three-year parts and labor warranty from the date of purchase. Guillemot Corporation's entire liability and your exclusive remedy is limited to the replacement of defective products. In no event shall Guillemot Corporation be liable to you or any third party for direct or indirect consequential, incidental or special damages which you may incur as a result of using the software, including, but not limited to, loss of data, or information of any kind that you may experience.

To be eligible for technical hotline support, you must complete, sign and return the enclosed warranty card registration. You will find the warranty card together with the address, fax and hotline numbers and web site for each respective country at the end of this publication.

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I. FOREWORD

The Maxi Gamer product line has once again provided **the** new 2D/3D standard in graphics performance, offering a complete solution to refresh your PC. Not only do you benefit from an uncompromising and above all unequaled 3D gaming experience (optimized to take advantage of all major game development environments including OpenGL and Direct3D with the highest quality rendering), but you also get unequaled 2D quality, because the new generation Maxi Gamer graphics boards reach the highest levels of achievement inside and outside the game field, thus offering superior performance for Windows, WEB browsing and more. The obvious results are a significant boost and a greater stability. What's more, thanks to full DirectX 6.0 compatibility, it's time to hold on to your socks because this little gem will take advantage of all the new 2D and 3D functions open to developers.

Phew! All this, and we've not yet even considered video playback optimization and DVD acceleration...

A last word before we meet again. Don't forget that Guillemot Corporation places an entire range of complementary products at your fingertips. Surf the sound waves with Maxi Sound and Studio boards, which have transported the universe of 3D sound into your living room and try out our accessories range for a multimedia environment that will surpass your wildest dreams.

Dig your heels in and prepare yourself for the Maxi Gamer experience because what you're sitting on is real dynamite. No wonder you're on the edge of your seat because you're about to get blown sky-high...!

II. INTRODUCTION

USING THIS MANUAL

To begin with, this manual assumes you are familiar with frequently used terms, such as click on, right-click on and double-click on.

Further to this, the following list of conventions has been drawn up to help you get situated:

- **BOLD CAPITALS** for all directory, file and path names; and also all text that you will have to manually type in (e.g. **INSTALL.EXE**).
- *Italics* for interface messages or on-screen information.
- Keyboard keys in square brackets, with a plus sign separating keys that you have to press simultaneously (e.g. Press [Ctrl]+[Alt]+[Del]).
-  designates a caution or warning that can steer you away from risky situations.
-  offers you an on-the-spot definition or explanation.
-  indicates information of particular importance that should be taken into consideration before proceeding.



All software must be installed from the installation CD. The CD-ROM drive letter is **D:** by default, but if different, replace **D:** with the drive letter used on your computer.

SOFTWARE SUPPLIED

- Windows 95 and 98 drivers
- DirectX 6.0 (Direct3D, DirectSound, DirectPlay, DirectInput, DirectDraw, DirectMusic)
- Electronic documentation, playable demos, utilities and games

ONLINE DOCUMENTATION

This manual deals principally with hardware and software installation. Additional, updated information and any eventual modifications made to the present documentation are provided in **README** files and **ADOBE ACROBAT PDF** files (Portable Document Files). As drivers are always evolving, some information contained in this manual may prove inadequate compared with the latest driver versions.

Further information may be found in the file **GAMERENG.PDF** located in the **MANUAL** directory, and in **README.TXT** located in the main CD directory. If you do not have *Acrobat Reader* you can install it by clicking on **ACROBATEN.EXE**.

SYSTEM REQUIREMENTS

- Pentium II and higher or 100% compatible
- AGP slot available (AGP 1.0 and 2.0)
- 16MB RAM (32MB recommended for games)
- 10MB hard disk space (more to install games)
- CD-ROM or DVD-ROM drive
- Microsoft Windows 95B or C, 98 and higher

PACKAGE CONTENTS

- For Maxi Gamer Phoenix 2: 2D/3D graphics board with NVIDIA Vanta engine
- For Maxi Gamer Xentor and Maxi Gamer Xentor 32: 2D/3D graphics board with NVIDIA TNT2 engine
- CD-ROM: installation, online documentation (format **.PDF**), playable demos
- User Manual

III. TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Maxi Gamer Phoenix 2

- 100MHz 128-bit 3D NVIDIA Vanta Twin Texel processor
- On-board 8MB 125MHz Synchronous RAM
- Fast 32-bit VGA/SVGA display
- Extended display resolution up to 1920x1080 in 16 million colors and 1920x1200 in 65,000 colors
- AGP interface with full sideband support
- Full support of the AGP execute mode
- Meets all Microsoft PC 98 hardware design requirements

Maxi Gamer Xentor

- 125MHz 128-bit NVIDIA TNT2 processor
- On-board 128-bit interfaced 16MB 166MHz Synchronous RAM
- 32-bit VGA/SVGA display
- Extended display resolution up to 1920x1200 in 16 million colors and 2048x1536 in 65,000 colors
- AGP interface with full sideband support
- Full support of the AGP execute mode
- Meets all Microsoft PC 98 hardware design requirements

Maxi Gamer Xentor 32

- 125MHz 128-bit NVIDIA TNT2 processor
- On-board 128-bit interfaced 32MB 183MHz Synchronous RAM



Application

Programmer Interfaces (APIs) are basically timesavers! Instead of reinventing all the tricks for display each time developers want to animate an object in 3D, they use specialized and optimized APIs for 3D. **Direct 3D** (Microsoft) and **OpenGL** (Silicon Graphics) are standard 3D APIs.

- 32-bit VGA/SVGA display
- Extended display resolution up to 1920x1200 in 16 million colors and 2048x1536 in 65,000 colors
- Full support of the AGP execute mode
- AGP interface with full sideband support
- TV output
- Meets all Microsoft PC 98 hardware design requirements

3D FUNCTIONS

Maxi Gamer Phoenix 2, Maxi Gamer Xentor and Maxi Gamer Xentor 32 are hardware 3D accelerators designed to improve both speed and graphics in games using the following APIs:

- Microsoft Direct3D (complete support of DirectX 5.0 and 6.0)
- OpenGL ICD (Silicon Graphics)

Maxi Gamer Phoenix 2

- DirectX 6.0 hardware accelerator
- 100% hardware triangle setup
- Anti-aliasing
- Twin Texel (TNT) 32-bit graphics pipeline
- TextureBlend support (Bump map - texture modulation - reflection map...)
- Backend Blend (32-bit ARGB rendering - bilinear, trilinear and anisotropic filtering...)
- Per pixel perspective correction mapping (fog, light, mip-mapping)
- 24-bit Z-buffer and 8-bit stencil buffer

Maxi Gamer Xentor and Maxi Gamer Xentor 32

- DirectX 6.0 hardware accelerator
- 100% hardware triangle setup
- Anti-aliasing
- Twin Texel (TNT) 32-bit graphics pipeline
- TextureBlend support (Bump map - texture modulation - reflection map...)
- Backend Blend (32-bit ARGB rendering - bilinear, trilinear and anisotropic filtering...)
- Per pixel perspective correction mapping (fog, light, mip mapping)
- 24-bit Z-buffer and 8-bit stencil buffer

2D ACCELERATION

- Maxi Gamer Phoenix 2, Maxi Gamer Xentor and Maxi Gamer Xentor 32
- Optimization for minimal software overhead on key GDI calls
- Direct Frame Buffer (DFB) access with Write-combining (DirectDraw acceleration)
- Accelerated primitives for color translation, points, line display
- Pipeline optimized for multiple color depths (8, 15, 16, 24, 32 bits per pixel)
- Execution of all Microsoft Windows defined 256 Raster Operations
- Fast text rendering from a hardware font cache
- DMA Pusher using NVIDIA multi-tasking features in the 2D graphics pipeline
- True color hardware cursor, hardware color dithering
- Multi-buffering (Double, Triple and Quad-buffer) smoothing animation

2D/3D RESOLUTIONS

Certain resolutions may not be supported by your monitor. Refer to your monitor manual for further information concerning these properties and carry out any necessary modifications by clicking on *Start* and selecting *Settings*, and then clicking on *Control Panel* followed by *Display*.

Resolution	Maxi Gamer Phoenix 2	Maxi Gamer Xentor	Maxi Gamer Xentor 32
320x200	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
320x240	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
400x300	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
480x360	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
512x384	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
640x400	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
640x480	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
800x600	32-bit up to 240Hz	32-bit up to 240Hz	32-bit up to 240Hz
960x720	32-bit up to 200Hz	32-bit up to 200Hz	32-bit up to 200Hz
1024x768	32-bit up to 200Hz	32-bit up to 200Hz	32-bit up to 200Hz
1152x864	32-bit up to 150Hz	32-bit up to 150Hz	32-bit up to 150Hz
1280x1024	32-bit up to 120Hz	32-bit up to 120Hz	32-bit up to 120Hz
1600x1200	32-bit up to 85Hz	32-bit up to 85Hz	32-bit up to 85Hz
1920x1080	32-bit up to 75Hz	32-bit up to 85Hz	32-bit up to 85Hz
1920x1200	16-bit up to 75Hz	32-bit up to 75Hz	32-bit up to 75Hz
2048x1536		16-bit up to 60Hz	16-bit up to 60Hz

DVD-VIDEO ACCELERATION

- Palette-DAC pipeline. This accelerates full-motion video playback, sustaining 30 frames per second while retaining high quality color resolution, implementing true bilinear filtering for scaled video and compensating for filtering losses using edge enhancement algorithms
- Video Acceleration for Microsoft DirectShow, MPEG-1 and MPEG-2
- DVD sub-picture alpha blending composition
- Backend hardware video scaling for video playback
- Hardware color space conversion (YUV 4:2:0 and 4:2:2)
- Planar YUV 4:2:0 and 4:2:2 conversion for software MPEG acceleration
- Multiple video windows with hardware color space conversion and filtering
- Per-pixel color keying
- Support for scaled field interframing to reduce motion artifacts
- Multi-tap X and Y filtering

This chapter describes how to install your Maxi Gamer graphics board in your PC.



To find out which version of Windows 95 you have, click on *Start* and select *Settings/Control Panel*. Double-click on the *System* icon. The *General* tab details the operating system installed on your PC. If the figure is 4.00.950 or 4.00.950A then you have Windows 95A. If it is 4.00.950B or C, then you have Windows 95B or 95C.

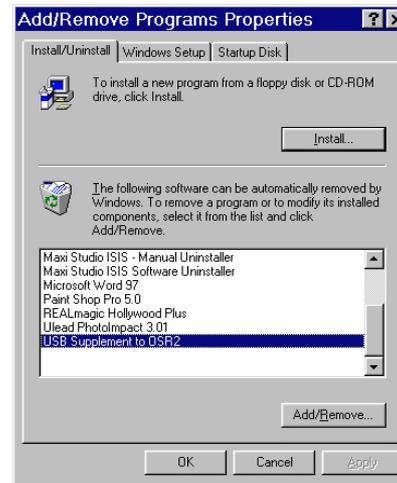
IV. HARDWARE INSTALLATION

USB SUPPLEMENT FOR WINDOWS 95

The Windows 95A (or OSR1) environment has not been designed to support AGP boards. If you have Windows 95A, you need to update it to Windows 95B or higher to install your AGP board.

If your environment is Windows 95B or C, the AGP slot will not be fully enabled until you have installed the Microsoft Windows USB supplement.

To make sure the USB supplement is installed in Windows 95, click on *Start* and





Take care to uninstall any previous drivers to avoid any subsequent conflict between old and new drivers! Certain graphics cards are integrated on the PC motherboard and thus cannot be physically uninstalled. You will need to contact your PC manufacturer for details on how to disable these chipsets.



Static electricity can severely damage electronic components. Do not take your board out of the plastic bag until you are ready to install it!

select *Settings*. Click on *Control Panel* and run *Add/Remove programs*: the USB supplement should be listed among the installed programs.

To install the USB supplement, insert a Microsoft Windows 95 CD-ROM in your drive. If you have Windows 95B, click on *Start* and select *Run*, and then enter **D:\OTHER\USB\USBSUPP.EXE**.

If you have Windows 95C, click on *Start* and select *Run*, and then enter **D:\OTHER\USB\USBSUP1.EXE**. Once you have run this program, follow exactly the same procedure to run the second program **USBSUP2.EXE**.

If you have Windows 98 or higher, the AGP slot will work correctly without adding this patch.

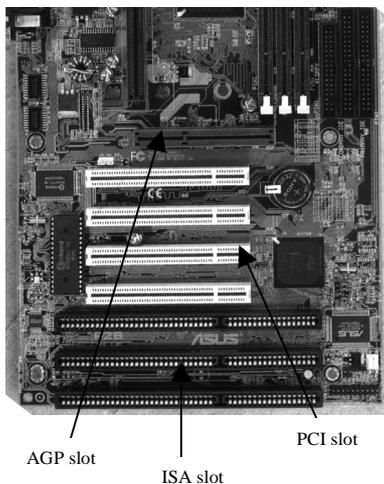
UNINSTALLATION OF EXISTING GRAPHICS BOARD DRIVERS

If your computer is already equipped with a graphics board, it is imperative that you remove all existing drivers before proceeding with the hardware installation. To uninstall the drivers, click on *Start*, select *Settings*, and then click on *Control Panel*. Double-click on the *System* icon and select *Device Manager*. From here you must select the graphics board drivers in the *Display Adapters* section and click on *Remove*. (Please refer to the user manual of your previous card for further details on uninstallation).

CAUTIONARY MEASURES FOR BOARD HANDLING

When handling the board, take the following precautions:

- Before removing the board from its plastic bag, put one hand on the metal rear panel of your PC to discharge any static electricity from your body.
- Do not touch the printed circuits on the board.
- To avoid static electricity damage, do not let anybody else hold the board.
- Do not let your clothes touch any of the components.



PCI, AGP and ISA slots. AGP slots are generally made of plastic of a dark brown color, whereas ISA slots are black and PCI slots are off-white. In any case, your PC manual should differentiate between the types of slot.

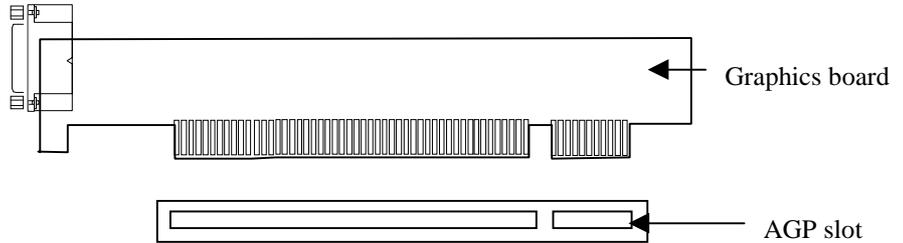
BOARD INSTALLATION

To install the board in your PC, please follow this step by step procedure:

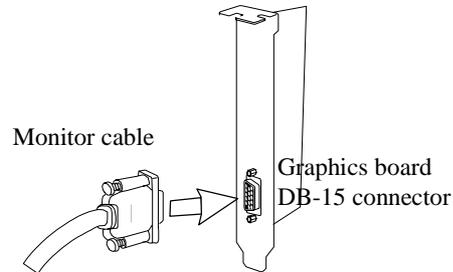
1. Switch off the PC and all peripherals such as the monitor or printer.
2. Unplug the power supply cable(s) and the monitor cable.
3. Remove the CPU cover (for further information on this issue, consult your PC manual), and select an AGP slot (if you have any doubts as to which slot to use, please refer to the figure of PCI, AGP and ISA slots on the left).
 - If no graphics board has previously been installed, unscrew the metal panel preventing exterior access to the slot from the rear panel.
 - If your PC already has a graphics board, remove it (your PC cannot support 2 standard graphics boards at the same time, except in Windows 98 with certain graphics cards), keeping the screw which attached the previous board. If this slot is PCI, then place the metal panel you have just removed from the AGP slot here.
4. Open the plastic bag containing the graphics board. Handle the board by its metal bracket and take it out of the bag.
5. Insert your graphics board into its AGP slot, pushing firmly on the top of the board to make sure it is properly fixed in place.



Consult your monitor manual for proper connection of the cable to your monitor. You should also take note of the maximum resolutions and refresh rates supported by your monitor and see if there are any preset frequencies.



6. Screw the mounting bracket to the computer chassis.
7. Replace the CPU cover.
8. Plug the monitor cable into the VGA (DB-15) connector of the graphics board.



9. Reconnect the power cables.
10. Switch your PC and peripherals back on.



This manual reflects software installation in **Windows 98**. Your installation screens and procedure may vary slightly from what is shown and described in this manual. These variations may be caused by other software/hardware installed on your computer, or the version of the Windows operating system.

V. SOFTWARE INSTALLATION

DRIVER INSTALLATION

Once your graphics board has been correctly installed, you may switch your PC back on. The Plug and Play configuration of the board means that Windows will automatically detect its presence and display a *New Hardware Found* dialog box informing you that the system has found a new graphics adapter. The following window will then appear, informing you that the system is searching for drivers.



Click on *Next*. The *Add New Hardware Wizard* will then propose to search for optimized drivers or display a list of current drivers. Enable *Search for the best driver for your device* and click on *Next*.



At the search prompt from Windows, enable *Specify a location* and insert the installation CD-ROM into your CD-ROM drive. Selection of the drivers on the installation CD depends on your system's version of Windows.



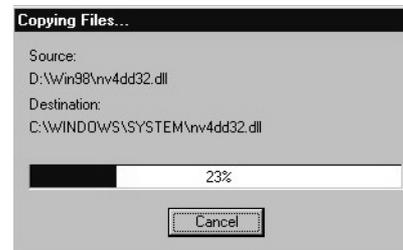
 Your CD-ROM drive letter is **D:** by default, but if different, replace **D:** with the drive letter used on your computer.

Type in **D:\WIN98** if you have Windows 98 or **D:\WIN95** if you have Windows 95 and click on *Next*.

Windows will then specify the path and the name of the file where the drivers are located.



Click on *Next* to start driver installation. During installation, Windows displays a progress bar, which monitors file copying.



 If you get a *File not found* error in Windows 95, then specify the **D:\WIN95** location again in the *Copy files from...* dialog box.



You may also install the software application XingDVD Player, included with both Maxi Gamer Xentor and Maxi Gamer Xentor 32 for the playback of DVD-Video.

Once the driver installation is complete, Windows will prompt you to restart your computer.



Click on *Yes* to reboot Windows.

APPLICATIONS SETUP

Setup will launch automatically unless the autorun facility on your CD-ROM drive is disabled. In this case, click on *Start*, select *Run* and type **D:\SETUP.EXE** and follow the on-screen instructions. Setup will specify the following path name as your destination directory by default:

C:\PROGRAM FILES\GUILLEMOT\MAXI GAMER

Otherwise, click on *Browse* to customize your path name.

Setup will then propose the list of applications available for installation, all of which are enabled by default.



Before installation of XingDVD Player, Setup will inform you if it has not detected the DirectX interfaces necessary to run the application and will propose to download them off the Web. Click on *Continue* as Setup itself will later propose the installation of these interfaces. On completion of XingDVD Player installation, Setup proposes three options. **Uncheck the option *Register XingDVD Player on the Web* (enabled by default) since this option will also proceed with the downloading of DirectX and DirectX Media off the Web.** These actions are primarily timesaving because, as previously stated, Setup will propose the installation of these applications later.



If you do not already have Adobe Acrobat installed on your PC, you will need it to read the online documentation.

Maxi Gamer Xentor and Maxi Gamer Xentor 32 include the DVD playback software application XingDVD Player. To ensure the correct running of this application you will also need to install DirectX and DirectX Media (If you already have DirectX 6.0 or above installed, **do not** reinstall DirectX 6.0).

You will also need DirectX to run the 3D demos included on the installation CD. (**DirectX** is a set of APIs (Application Programmer Interfaces) developed by Microsoft to optimize display, 3D performance, sounds and joystick use in games developed for Windows 95, 98 and higher).

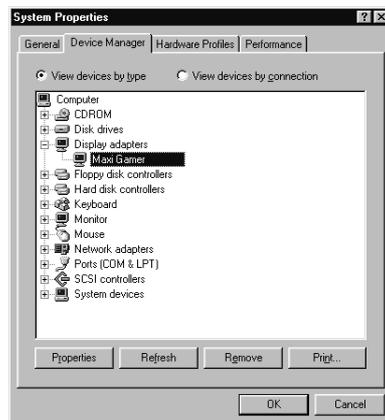


This option is reserved for advanced users or in the case of an eventual conflict arising.



If the conflict still exists once you have changed these parameters, it is advisable to return them to their default settings and then verify that you have correctly followed the installation procedure (i.e. board insertion, driver installation, etc.).

MODIFYING RESOURCES



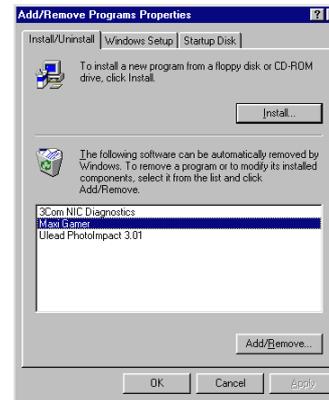
Once Plug and Play installation has been completed, it is possible to modify the Plug and Play configuration of the Maxi Gamer graphics board via the *System Properties* window (*Start/Settings/Control Panel/System*).

Select *Display adapters* and then click on *Maxi Gamer*. You can then modify the resources attributed to the graphics board to resolve any conflicts not resolved by Plug and Play installation. To do this, click on *Properties*.

- The *General* panel shows general information concerning the driver.
- The *Driver* section shows all the files used by the system to enable this driver.
- The *Resources* section will be used to change the resources used by the driver.

VI. UNINSTALLATION

If the board has been installed with a Plug and Play installation procedure, then you will be able to uninstall it. To do so, click on *Start*, select *Settings* and click on *Control Panel*. Double-click on the *Add/Remove Programs* icon to access *Add/Remove Programs Properties*.



Select the *Install/Uninstall* tab, click on *Maxi Gamer* and then click on *Add/Remove*. This procedure automatically uninstalls the board's drivers.

VII. TECHNICAL SUPPORT & WARRANTY CARD

Technical Support

Before you contact us (*), please have the following information ready:

- Product name
- Product number (on the package above the bar code)
- Date of purchase of your product
- On-screen error message and the steps that you successfully completed in your installation
- Your full system configuration details: processor type, memory, operating system.

If you need to return a product

Guillemot offers a standard one-year parts & labour warranty. Please fill in the warranty card and return it as soon as possible (*). You will be added to the mailing list to receive upgrade information, information on new products and special offers.

To return a Maxi product for factory service, contact a Guillemot technical support representative at the phone number corresponding to the country you live in (*).

In Europe: After confirmation by our technical support (*) that your product is defective, please return it to your retailer who will then deal directly with Guillemot.

In the USA and Canada: To obtain a refund (excluding shipping and handling charges), you must first call the Guillemot Technical Support hotline (*) to receive a Return Merchandise Authorization (RMA) number. You must then clearly write this RMA number and the mention “WARRANTY RETURN” on the shipping box. When returning the product, you must also enclose a copy of the original invoice and the reason(s) for returning the product.

When returning the product, make sure all the materials such as the manual(s), the connection cables, the product packaging box and the registration/warranty card are included.

ADDRESS FOR U.S. CUSTOMERS: **Guillemot – 625, Third Street – 3rd floor – SAN FRANCISCO – CA 94107 USA**

ADDRESS FOR CANADIAN CUSTOMERS: **Guillemot – 5375 rue Paré – Montréal (Québec) – Canada**

(*) All helpline details are listed at the end of the manual.

WARRANTY CARD

Guillemot offers a standard 3 year warranty. Please fill in this coupon and return it as soon as possible to the address listed on the back cover of the manual. You will be added to the mailing list to receive upgrade information, information on new products, and special offers.



Product Number (above the bar code, on the package) _____

Date of Purchase _____

Mrs Mr

First Name _____

Surname _____

Company _____

Title _____

Address _____

City _____

State/Province _____

Zip/Postal Code _____

Country _____

Phone _____

Fax _____

E-mail address _____

How Did You Hear About This Product?

On-line site: _____ Magazine article: _____

In-store demo/salesperson Friend/Co-worker

Tradeshow Other: _____

Where Did You Purchase This Product?

Computer Retail Store Online Purchase: _____

Superstore Other: _____

Why Did You purchase This Product?

Its Reputation Its Features

Its Price Other:

Which Magazines do you read regularly? _____

Will You Use This Product:

at home? at work?

for entertainment? for education?

for accounting?

System Configuration:

Pentium 75 and higher Pentium MMX 166 and higher

Pentium II 233 and higher Cyrix CPU: _____

AMD CPU: _____ Sound Board: _____

Modem: _____ MPEG board: _____

CD/DVD drive: _____ VGA board: _____

TV board: _____ Scanner: _____

3D accelerator: _____ Other: _____

Operating System:

Windows 3.1 or 3.11 Windows 95 or 98 or NT

Linux

What kind of multimedia products do you think you will purchase in the next six months? _____

Comments and Suggestions: _____

Dealer:

Town:

Signature and Stamp:

English