Millennium
G550

HeadCasting™ · DualHead® · 2D · 3D · DVD · DVI

Communicate
in 3D

- New Matrox G550 256-bit DualBus graphics chip with DVI-I support

- 360 MHz RAMDAC and 32 MB of DDR memory

- HeadCasting™ Engine for hardware-accelerated 3D facial animation

- Bundled HeadCasting™ software for 3D communication

- Third-generation DualHead® technology including eDualHead™ browser enhancements for Internet Explorer

- True multi-display support under Microsoft® Windows® 2000, Windows® Me, Windows® XP

- Explosive Windows desktop acceleration

matrox

The most awarded graphics card company. Worldwide.

www.matrox.com / mga

Step 1.

Step 2.

Step 3.

Matrox HeadCasting™ Engine

The unique Matrox HeadCasting™ Engine is designed specifically to accelerate the animation of a high-definition[1], photo-realistic 3D version of your head in real time, while offloading your CPU.

In conjunction with the bundled suite of HeadCasting™ applications, the Millennium G550 introduces new areas of application for 3D in business and recreational online communication.

Look your virtual best

The Millennium G550 and Digimask™* technology transform two digital or scanned photographs of your head into a high-quality, life-like 3D image. In parallel, the HeadCasting™ Engine and LIPSinc** technology ensure realistic facial animation and accurate lip synchronization of your virtual talking head. Only the Millennium G550 makes you look as much like yourself in 3D as you appear in person!
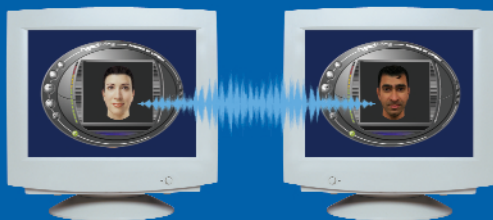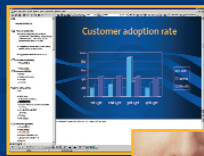
Communicate in 3D

Re-invent chat sessions

Communicating with households across the globe—or just across town—has never been more engaging! The HeadCasting™ edition of LIPSinc HeadFone™[2] and the Millennium G550 re-invent online chatting by letting you hear and see the 3D version of the person on the other end in real time.

More interactive than a text message and more dynamic than a photograph, your 3D talking head simulates face-to-face conversation online and adds visual impact to otherwise text- or voice-based communication.

1   High-definition or high-definition geometry implies high polygon count or high-resolution geometry. 3D objects represented using high-definition geometry have smooth curves and appear more detailed and life-like. Low-definition geometry implies low polygon count or low-resolution geometry. 3D objects represented using low-definition geometry have uneven or chunky curves and appear blocky.

2   Matrox HeadCasting™ edition of LIPSinc HeadFone™ is intended for home use. HeadFone™ may not work across some firewall/proxy settings and may require changes to the firewall configuration by your system administrator.

3   Matrox Virtual Presenter requires Microsoft PowerPoint 2000 or PowerPoint XP.

4   The level of DualHead support varies depending on the operating system used. Please refer to the Matrox Web site for more information.

Step 1.

Step 2.

Remote presentations? No problem!

When you can't give a presentation in person, send your virtual twin to do the job. With the bundled Matrox Virtual Presenter software[3], you can record your Microsoft® PowerPoint® presentation into a microphone and have your 3D talking head deliver the slideshow in your absence. Giving you the ability to be in two places at once, Matrox Virtual Presenter facilitates remote presentations and off-site training sessions and saves time and money on traveling.

Explosive Windows acceleration

Based on the Matrox G550's powerful 2D/3D engine, the Millennium G550 offers improved 3D performance as well as lightening-fast Windows desktop acceleration. The card's UltraSharp 360 MHz RAMDAC consistently pumps out crisp 2D image quality at resolutions up to 2048 x 1536 at the highest color depths and refresh rates, making the Millennium G550 the premier product for 2D workstation users.

Customer adoption rate

With 32 MB of Double Data Rate (DDR) memory, a 360 MHz primary RAMDAC, and a unique HeadCasting™ Engine accelerating 3D online communication, the Millennium G550 is a titan among graphics cards with trendsetting appeal for the business and home entertainment markets.

Comprising an extensive feature set including third-generation DualHead display capabilities, outstanding 2D performance, and DVI-I support, the Millennium G550 delivers exceptional graphics performance and product stability—and ignites a new trend in online communication.

Work smarter, play harder with DualHead®

Multi-Display

Zoom

DVDMax

Whether for work or entertainment, Matrox DualHead[4] technology offers exceptional image quality and versatility for dual-display computing. Supporting eight different display configurations using a VGA monitor, analog or digital flat panel, and a TV, the Millennium G550 is fully compatible with third-generation DualHead including the eDualHead™ suite of browser enhancements for the Web.

Matrox DualHead further surpasses other multi-display solutions with its unique DVDMax mode that provides the highest-quality DVD playback and supports streaming video playback over the Internet. In addition, support for independent resolutions and color depths under Windows 2000 makes the Millennium G550 the only single-chip solution to offer true multi-display support under this operating system.

The superiority of DualHead is apparent not only in the variety of display configurations, modes, and features it offers, but also in the amount of industry support it has garnered from leading original equipment manufacturers and system integrators that consistently incorporate Matrox DualHead-enabled graphics cards into their business solutions.

In addition to spurring a new trend in online communication, the Millennium G550 delivers exceptional graphics performance and product stability synonymous with the Matrox name.

Graphics powered by **matrox**

Graphics features

- Matrox G550 chip
- 32 MB high-speed Double Data Rate (DDR) memory
- AGP 4x/2x graphics
- Explosive 2D performance
- UltraSharp 360 MHz RAMDAC
- Matrox unified driver support
- On-board connectors for dual display using:
  - VGA monitor/analog flat panel + VGA monitor/analog flat panel
  - VGA monitor/analog flat panel + TV
  - Digital flat panel + VGA monitor/analog flat panel
  - Digital flat panel + TV

3D engine

- Matrox HeadCasting™ Engine
- Two dual-textured 3D pixels/clock for fast 3D game play
- Vibrant Color Quality [2] 3D rendering

Display features

- True multi-display support under Windows® 2000
- Third-generation DualHead including eDualHead™ browser-enhancement suite, Multi-Display, Zoom, Clone, DVDMax, Snapshot, MultiDesk

DVD output

- Play DVDs on your computer while outputting high-quality, full-screen DVD to a monitor, TV, or analog flat panel. Supports slow-motion playback and Dolby® Digital audio***

DVI output

- Supports cutting-edge digital flat panels with resolutions up to 1280 x 1024 (Main display)

TV output

- Independent resolution support provides industry-leading, flicker-free image quality at the highest resolutions

Software bundle

- Matrox Virtual Presenter for Microsoft® PowerPoint® 2000 and PowerPoint® XP
- Digimask System by Digimask™
- HeadCasting™ edition of HeadFone™ by LIPSinc
- Matrox Software DVD Player
- eDualHead™ browser-enhancement suite
- Matrox PowerDesk

System requirements	
Minimum****	
System	AGP
RAM	16 MB
OS	Microsoft® Windows® 2000
	Windows Me, Windows 98,
	Windows NT® 4.0, Windows
	XP Professional, Windows
	XP Home Edition
	Linux
Peripherals	CD-ROM
Recommended (for HeadCasting™ and DVD)	
CPU	450 MHz or higher
RAM	128 MB
Peripherals	DVD-ROM
	56K modem or higher with minimum 40K connection
	Microphone
Software	Internet Explorer 5.5 or higher
	PowerPoint® 2000, PowerPoint® XP (for Matrox Virtual Presenter)

Millennium G550 32 MB DDR Low Profile and Dual-DVI output versions available. Call 1-800-361-1408 or visit the Matrox Web site for more information.

digimask LIPSinc headFone *show your character* Matrox Software **DVD Player** Matrox **Virtual Presenter** e **DualHead**™