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The Matrox Millennium P650 is the definitive graphics board for enhancing corporate productivity. Offering tangible productivity gains through advanced dual-RGB and dual-DVI capabilities and featuring dependable drivers, the Millennium P650 epitomizes usability, stability and reliability. Millennium P650 also delivers advanced technologies including 64MB of DDR memory, AGP 8x support, a fan-less design and fully-symmetric dual-display capabilities. Take advantage of unique capabilities at the unprecedented ESP of only US\$169, and multiply your productivity.

"I can't help but respect Matrox for their multi-monitor expertise. I work on multi-monitor computers day in and day out. G450/G550 lovers who are looking for an upgrade will be very pleased with the Millennium P650 or P750 and especially pleased with the price point in comparison to the Parhelia. Matrox have targeted productivity enthusiasts and once you go dual (or even triple) you won't go back."

Doug Kronlund, Short-Media

Key features:

- 256-bit GPU with 128-bit DDR memory bus
- 64 MB DDR memory
- AGP 8x, 4x, 2x, 1x*
- Powerful 2D, 3D and DVD-Video acceleration
- Multi-display support: DualHead-HF
 - 1600 x 1200 dual digital and 1920 x 1440 dual analog resolution
 - Dual-DVI outputs with independent resolution support
 - Fully symmetric dual-display outputs with identical quality
 - Dual independent hardware overlays for video
- UltraSharp Display Output technology:
 - Highest quality output with 10-bit gamma correctable DACs
- Certified for AEC and entry-level MCAD
- Glyph Antialiasing for ultra-crisp text rendering
- Unified Drivers for Millennium P-Series & Parhelia Series
- OpenGL® 1.3® and Microsoft® DirectX 8.1 compliant



*Supported only on motherboards with a 1.5v or 0.8v AGP slot. AGP 1x and 2x not supported on motherboards with a 3.3v AGP slot.

¹According to David Williams of Microsoft® (statement made during Bill Gates' keynote speech at WinHEC 2002), productivity gains when using multi-monitor for standard tasks, window management, office and switching between documents can be anywhere from 20 to 50 percent.

Multi-display configuration support

DualHead-HF (2 displays)

Display 1	Display 2
RGB monitor	RGB monitor
Analog flat panel	Analog flat panel
Digital flat panel (DVI)	Digital flat panel (DVI)
	NTSC/PAL TV or VCR (with optional cable upgrade)



Resolution/Refresh rates:

Offering superior output quality, Matrox provides the industry's most comprehensive resolution, color depth and refresh rate support.

Maximum 2D/3D (single display mode)	
Resolution	2048 x 1536*
Colors	Over one billion

Maximum DVI	
Resolution	1600 x 1200
Colors	16.8 million

*Maximum resolution for main display.

Refresh rates (single display mode)	
Resolution*	Vertical (Hz)
2048x1536	85
1920 x 1440	85
1600 x 1200	100
1280 x 1024	120
1152 x 864	140
1024 x 768	160
800 x 600	200
640 x 480	200

Minimum system requirements:

- AGP 3.0 compliant system
- 128 MB RAM
- 600 MHz CPU
- CD-ROM drive

Microsoft® Windows® 2000, Windows® XP, Windows NT® 4.0 or Linux

(check regularly for updates on support for other operating systems)

For more information on the Millennium P650, please see links under "More info..." (top right).

*By default, the configuration for the Millennium P650 is DualHead. This product is upgradeable and the TripleHead upgrade kit is sold separately. For more information on how to upgrade, please [click here](#).

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