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Product Comparison

Millennium G-Series vs. Millennium P-Series vs. Matrox Parhelia

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Features	G450	G550	P650	P750	Parhelia
General					
Memory	32 MB	32 MB	64 MB	64 MB	128MB / 256MB
Memory bus	64-bit DDR	64-bit DDR	128-bit DDR	128-bit DDR	256-bit DDR
AGP	4X	4X	8X	8X	8X
Cooling	Passive	Passive	Passive	Active	Active
OpenGL	1.1	1.1	1.3	1.3	1.3
Direct X Technology	6	6	8.1	8.1	8.1
RAMDACs (MHz)	360/230	360/230	400/400	400/400/165	400/400/165
Multi-display Configurations					
Dual-RGB	Standard	Standard	Standard	Standard	Standard
Dual-DVI	X	Option	Standard	Standard	Standard
TripleHead	X	X	Upgradable ¹	Standard	Standard
Single-Display + TV	Option ³	Option ³	Option ³	Standard	Standard
Dual-Display + TV	X	X	Upgradable ¹	Standard	Standard
Maximum Resolutions					
Dual-DVI	X	Dual 1280 x 1024 option ⁴	Dual 1600 x 1200	Dual 1600 x 1200	Dual 1600 x 1200 1920 x 1200 ²
Dual-RGB	Dual 1600 x 1200 Non-Symmetric	Dual 1600 x 1200 Non-Symmetric	Dual 1920 x 1440 Symmetric	Dual 1920 x 1440 Symmetric	Dual 2048 x 1536 Symmetric
TripleHead	X	X	X	Triple 1280 x 1024	Triple 1280 x 1024
2D and Video					
Dual Hardware Overlays	X	X	Yes	Yes	Yes
10-bit DACS	X	X	Yes	Yes	Yes
10-bit GigaColor	X	X	Yes	Yes	Yes
Glyph Antialiasing	X	X	Yes	Yes	Yes
Overlay Gamma Correction	X	X	Yes	Yes	Yes
Overlay Proc-amp controls	Single Display	Single Display	Dual Display	Dual Display	Dual Display
TV Proc-amp controls	Yes ³	Yes ³	Yes ³	Yes	Yes
WYSIWYG Plug-ins	X	X	X	X	Yes
3D					
Pixel Pipe/ Texture Pipe	2 x 1	2 x 2	2 x 4	2 x 4	4 x 4
Vertex Shader Units	X	X	2	2	4
Pixel Shader Support	X	X	Yes	Yes	Yes
FAA-16x	X	X	Yes	Yes	Yes
Surround Gaming	X	X	X	Yes ⁵	Yes
Performance⁶					
2D	100%	122%	184%	195%	219%
3D	100%	157%	500%	586%	1102%

¹ Default configuration for Millennium P650 is DualHead. TripleHead upgrade kit sold separately.

² With reduced blankings

³ TV-out cable upgrade sold separately on P650 and non-retail G450 and G550

⁴ Option with Millennium G550 Dual-DVI

⁵ Performance may vary across games

⁶ Normalized data based on 2D WinBench Business and 3D Mark 2001 Benchmarks at 1280x1024 32bpp

More Info...

[Millennium G450](#)

[Millennium G550](#)

[Millennium P650](#)

[Millennium P750](#)

[Matrox Parhelia](#)



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