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Matrox Parhelia™
 (available in [128MB](#) and [256MB](#) versions)

With an unprecedented number of revolutionary technologies, Matrox Parhelia™ cards take 2D quality, professional productivity and 3D realism to a new level.

Key features:

- 512-bit GPU
- 256-bit DDR memory interface
- 128MB or 256MB DDR memory
- High performance 2D, 3D & video
- Triple-RGB, Dual-DVI, TV output
- Surround Design and Surround Gaming
- DualHead-HF and TripleHead Desktop
- 16x Fragment Antialiasing
- UltraSharp Display Output technology
- 10-bit GigaColor technology
- Matrox PrecisionCAD driver for AutoCAD®
- Realtime Display Color Adjustment
- PureVideo Preview
- AGP 8X

*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.

[More Parhelia technology details](#)

Professional Software Bundle:

- AEC|VIZ™ Visualization Plugin for AutoCAD®
- WYSIWYG Plug-ins for Digital Content Creation
- 10-bit GigaColor plug-in for Adobe® PhotoShop®

Multi-Display configurations:

Parhelia offers the most advanced multi-display support in the form of DualHead High-Fidelity, TripleHead Desktop, Surround Design and Surround Gaming. This support is enabled through highly flexible output configuration options including dual-RGB, dual-RGB + TV-out, triple-RGB* and dual-DVI**. Matrox Parhelia cards feature two DVI-I connectors integrated on the bracket. The full flexibility of display configurations are offered to end users by the standard bundling of three cables/adaptors:

- One "Y-shaped" DVI-I to dual HD-15 cable
- One DVI-I to HD-15 adaptor
- One HD-15 to S-video (Y/C) and composite cable

| DualHead-HF (2 displays) | |
|---|---|
| Display 1 | Display 2 |
| Analog monitor (RGB) Analog flat panel (RGB) Digital flat panel (DVI) | Analog monitor (RGB) Analog flat panel (RGB) Digital flat panel (DVI) NTSC/PAL TV or VCR |

| DualHead-HF + TV-output (2 displays with dedicated 3rd TV output for video and zoom) | | |
|---|---|-----------------------------------|
| Display 1 | Display 2 | TV |
| Analog monitor (RGB) Analog flat panel (RGB) Digital flat panel (DVI) | Analog monitor (RGB) Analog flat panel (RGB) | NTSC/PAL TV, Video Monitor or VCR |

| TripleHead Desktop / Surround Design / Surround Gaming (3 displays) | | |
|--|-----------------------|----------------------|
| Left display | Center display | Right display |
| | | |

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| | | |
|---|---|---|
| Analog monitor (RGB) Analog flat panel (RGB) | Analog monitor (RGB) Analog flat panel (RGB) Digital flat panel (DVI) | Analog monitor (RGB) Analog flat panel (RGB) |
|---|---|---|

Resolution, color depth and refresh rates:

To offer the ultimate in productivity, matrox Parhelia provides the industry's most comprehensive resolution, color depth and refresh rate support.

| | |
|-------------------|------------------------------------|
| Max 2D/3D | Max 2D/3D (primary display) |
| Resolution | Colors |
| 2048 x 1536 | Over one billion |

| | |
|-------------------------------|-------------------------------|
| Maximum DVI resolution | |
| Resolution | Colors |
| 1600 x 1200 | 32 bpp or 16.8 million colors |

| | | |
|-------------------------------------|----------------------|-------------------------|
| Resolution and refresh rates | | |
| Resolution | Vertical (Hz) | Horizontal (kHz) |
| 2048 x 1536 | 85 | 130 |
| 1920 x 1440 | 85 | 130 |
| 1600 x 1200 | 100 | 130 |
| 1280 x 1024 | 120 | 130 |
| 1152 x 864 | 140 | 130 |
| 1024 x 768 | 160 | 130 |
| 800 x 600 | 200 | 130 |
| 640 x 480 | 200 | 130 |

Minimum system requirements:

- AGP 3.0 compliant system
- 128 MB RAM
- 600 MHz CPU
- Microsoft® Windows® 2000, Windows XP, or Windows NT 4.0 operating system
(check regularly for updates on support for other operating systems)
- 300W system power supply
- CD-ROM

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

* triple-RGB is enabled as one extended desktop only and each display must be at the same resolution, color depth and refresh rate.

** Please note that resolutions, color depths and refresh rates must be the same on each display when using Dual-DVI; however, Windows recognizes the two displays as independent devices and will therefore treat the desktops on each display as independent as opposed to one extended desktop (Win NT style)

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