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Graphics Solutions for Professionals

Channel Handbook

www.matrox.com/graphics

Matrox Graphics UK,
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Matrox Graphics Key Benefits

Reliability:
Matrox offers proven graphics chip technology, boards and drivers designed primarily for intensive 2D applications. Matrox drivers have been developed in house and are well-known for stability and reliability

Quality:
Products are reputed worldwide for their superior image and build quality

Long Product Cycles:
Matrox controls design and manufacturing enabling stable product supply and long product lifecycles. End of Life (EOL) for products is handled in a timely fashion.

Low Total Cost of Ownership:
Long Product Life Cycle means no need for expensive re-qualification processes. High Mean Time Before Failure (MTBF) rates and reliable, stable products means little downtime. Microsoft WHQL certified drivers available

Optimisation:
Matrox delivers graphic solutions which offer relevant real-world application features (ie TV out plug ins / TripleHead display), enabling professionals to see more and do more

Customer Focus:
Latest drivers, TV Out plug ins and other software updates are available for free download from the Matrox website. Established vertical niche market teams focused on providing solutions for their niches. Dedicated Pre- and post-sales support available (standard telephone rates apply, no additional "per minute" charge)

About Matrox Graphics
Leading manufacturer of graphics solutions for professionals
Financially solid and consistently profitable since company inception in 1976
A privately held company, headquartered in Montreal, Canada
Worldwide office locations: London, Munich, Milan, Hong Kong
Only fully integrated ASIC, board and software driver design graphics card company
Creator of the single-chip multi-display phenomenon
Wide range of innovative graphics solutions that are reputed worldwide for their superior image quality, practical ingenuity and unwavering stability
Designs and supports graphics solutions optimised for utility, enabling professionals to see more and do more.

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Matrox Vertical Markets

Financial and Insurance
Financial Information display
General High End Corporate (multi display, productivity)
Thin Client Multi-display
Process Control / Dispatch / Monitoring
CAD
GIS
Computer Aided Dispatch
Satellite Imaging
Process Control / Network Management
Remote Computing
Media Creation and Editing
NLE Video Editing
Audio Editing
High end professional colour publishing and imaging
Broadcast CG
Black Box projection
Specialty Graphics
Air Traffic Control
Simulation
Display Walls
Medical Imaging
Radiology
PACS
Diagnostics
Public Information Display
Digital Menus
Bars and Restaurants
Casino Machines
Airport Information
Point of Sale
Retail

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RoHS and WEEE compliance committee

RoHS directive
The European Parliament and the Council of the European Union adopted a "Directive on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment," known as the RoHS Directive. The RoHS directive will ban placement on the EU market of electrical and electronic equipment containing lead, mercury, cadmium, hexavalent chromium, PBB and PBDE as of July 1st, 2006.

Matrox's Response to the RoHS and WEEE directives
Matrox is conscious of the environmental risks associated with the substances covered by the RoHS directive, as well as, the problems with historical methods of managing EEE and the consequences thereof. As a company, we are dedicated to meeting the regulatory requirements of both directives.

In June 2004, Matrox established an RoHS and WEEE compliance committee.
The purpose of the committee was to coordinate all RoHS and WEEE compliance activities. In the past year Matrox has collaborated with industry peers and suppliers working towards full compliance with both directives.

WEEE directive
The directive on Waste Electrical and Electronic Equipment, known as the WEEE directive, was transposed into law by the EU Parliament in 2003. The directive stipulates that as of August 13th, 2005, producers and importers must finance the recycling of electrical products that they sell into the EU market.

Instructions for disposal of Matrox products from

• Consumers in private households
Please contact a Matrox Customer Service representative by e-mail with the details on the unit(s) you would like to return for recycling. You will subsequently be provided with an authorisation number and shipping instructions.

Please use the following addresses for all requests or inquiries:
rmamel@matrox.com for Matrox Video and Imaging customers
rmaeurope@matrox.com for Matrox Graphics customers

• Commercial companies
Please contact your Matrox sales representative or your local government authority for information related to recycling.
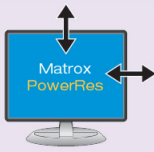
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Matrox maximum capabilities and features comparison chart by product series

This chart is designed to help you choose which category of product best suits your digital signage application. **Please note** that while the maximum capabilities of cards found in each category are listed, not every feature is available on each card. To find the exact capabilities of a particular card in any given category, please consult our website at http://www.matrox.com/graphics and consult its individual specifications and features.

Feature	QID Series	Parhelia Series	P-Series	G-Series	MMS Series
Max number of outputs	4	3	3	2	4
Bus types	AGP/PCI/PCIe	AGP/PCI/PCIe	AGP/PCI/PCIe	AGP/PCI/PCIe	PCI
Low-profile form factor	✓	—	✓[1]	✓[1]	—
Independent desktop mode	Quad with same res on each desktop[1]	DualHead support	DualHead support	DualHead support	Quad support
Stretched desktop mode	Quad support	TripleHead support	TripleHead support	DualHead support	Quad support
Max Independent DVI Resolution	1600 x 1200	1920 x 1200[3]	1920 x 1200	1280 x 1024	1280 x 1024
Max Stretched DVI Resolution	6400 x 1200 (4 x 1) 3200 x 2400 (2 x 2)	3840 x 1200	3840 x 1200	2560 x 1024	5120 x 1024 (4 x 1) 2560 x 2048 (2 x 2)
Max Independent Analogue Resolution	1600 x 1200	3840 x 1200	2048 x 1536	2048 x 1536	2048 x 1536
Max Stretched Analogue Resolution	6400 x 1200 (4 x 1) 3200 x 2400 (2 x 2)	4096 x 1536 (Dual) 3840 x 1024 (Triple)	3840 x 1440	3200 x 1200	8192 x 1536 (4 x 1) 4096 x 3072 (2 x 2)
Matrox PowerRes	✓	—	—	—	—
Widescreen resolution support* Resolutions listed are not final – more resolutions may be available. Please contact graphic.info.uk@matrox.com for more information.	848x480, 852x480, 853x480, 856x480, 864x480, 960x600, 1024x512, 1072x600, 1280x720, 1280x800, 1280x960, 1360x768, 1365x768, 1366x768, 1368x768, 1376x768, 1600x900, 1600x1000, 1600x1024, 1680x1050 and more..., via PowerRes	848x480, 854x480, 856x480, 864x480, 1024x576, 1280x720, 1280x768, 1280x960, 1360x768, 1366x768, 1368x768, 1440x900, 1440x1050, 1600x1024, 1680x1050, 1920x1080, 1920x1200	848x480, 854x480, 856x480, 864x480, 1024x576, 1280x720, 1280x768, 1280x960, 1360x768, 1366x768, 1368x768, 1440x900, 1440x1050, 1600x1024, 1680x1050, 1920x1080, 1920x1200	848x480, 864x480, 856x480, 1024x512, 1072x600, 1280x720, 1280x768, 1280x800, 1280x960, 1360x768, 1368x768, 1376x768, 1400x1050, 1600x1024, 1920x1034, 1920x1080, 1920x1200	848x480, 864x480, 856x480, 1024x512, 1072x600, 1280x720, 1280x768, 1280x800, 1280x960, 1360x768, 1368x768, 1376x768, 1400x1050, 1600x1024, 1920x1034, 1920x1080, 1920x1200
Matrox Clone	✓[1]	✓	✓	✓	✓ (Multi-Clone)
Matrox Pivot	✓[1]	✓	✓	—	✓ (Multi-Pivot)
Matrox Desktop Divider[4]	✓	✓	✓	—	—
TV Out	✓[2]	Single TV-Out with HDTV support	Single TV-Out support	Single TV-Out support	✓ (Multi-TV Out)
Passive Cooling	—	—	✓	✓	—
Memory	256 MB	256 MB	128 MB	32 MB	128 MB

[1] Feature listed is available with Matrox QID 2.x driver [2] Available in extended desktop mode only on 1.x SE drivers
[3] Matrox Parhelia DL256 PCI is capable of 2560 x 1600 for use with the Apple Cinema display [4] Feature currently only available on SE based drivers

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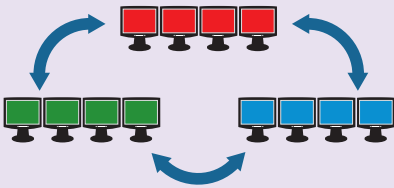
Matrox PowerRes
(requires 2..x SE driver)
• Enables EDID override and the use of a wide variety of specialty widescreen 16:9 & 16:10 and 4:3 & 5:4 resolutions and timings
• Enables the ability to add custom resolutions (learn more)

Matrox Desktop Divider
• Split your single large desktop into different display units (ie divide 3840x1024 into three units of 1280x1024)
• Maximise applications to that display unit and manage Windows tools for each display unit separately

Matrox Powerspace
• Create multiple virtual desktops to accommodate applications running simultaneously
• Use hot keys to navigate between each virtual desktop to see a completely different set of applications
• Save your virtual desktops and export to another system

Unattended Install
• Enables large corporate installs to create a standard set of desk top festures and settings that can be implemented site-wide witha one-click install
• Customise all of the Matrox PowerDesk settings and features
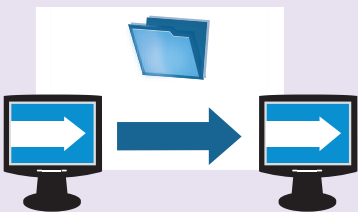
Migration tool
• Migrate certain display settings from one system to another
• Take settings from the old system and use to create an identical setup on the new system, making system migration easier

*Support under Windows® 2000 and XP only

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Independent desktops
(requires 2.x drivers)
• Enables the set up of 3 or 4 independent desktops at same resolution.

4 Independent Desktops

Matrox Clone Support*
(requires 2.x drivers)
• Enables you to display the same desktop across all displays

Multi-Clone

Matrox Multi TV out*
(requires 1.x drivers)
• Output to multiple TVs (NTSC or PAL) for public display settings (special TV out cables required)
Currently available on QID AGP only

Multi-TV Out

Matrox Pivot/Portrait Support* (requires 2.x drivers)
• Multiple screen setup for viewing in landscape or portrait mode
• In independent mode, permits rotation of all displays 90 or 270 degrees
• Permits single point rotation of an NT-Style or Stretched Desktop set of displays 90 or 270 degrees

Multi-Pivot/Portrait

Matrox NT-Style Stretched Desktop
• Enables the desktop to be set up as one single large desktop in Win® 2K/XP

NT Stretched Desktop

*Support under Windows® 2000 and XP only

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DualHead*2Go* Digital Edition
Part Code: D2G-A2D-IF

Key features*:

- Upgrade your laptop or desktop computer to dual external displays
- Run your desktop at up to 3840 x 1200 resolution stretched across two displays (1920x1200 per display)*.
- Harness your existing graphics hardware's full capabilities for 2D, 3D, and video
- Highly portable, easy-to-use solution
- Perfect for the mobile office user, mobile workstation, home or on the go
- Compatible with both Windows and Mac operating systems

* System dependent, see website for more details.

Warranty: 2 years limited return to base

Application Areas:

- Add Dual Monitor capability to laptops in addition to the laptop LCD Screen
- Extend the multi-display capabilities of your Integrated-graphics based PC
- Enable multi-display presentations from your laptop for customer meetings and tradeshows
- Mirror your multi-display office environment in a customer meeting or at home
- Video-editing from a laptop? Stretch your timeline across two displays and preview on the laptop screen
- Ideal for hot-desking situations where multiple users can benefit from a DualHead setup
- Stretch mulitple views across multiple monitors when using CAD and GIS applications

Output Options:

- Dual Analogue: 2560x1024*and 2048x768
- Dual DVI resolutions supported:

Total resolution (width x height)	Resolution per display (width x height)	Refresh rate (Hz)
2040 x 768	1024 x 768	60
2560 x 1024	1280 x 1024	60
2720 x 768	1360 x 768	60
2880 x 900	1440 x 900	60
3200 x 1200	1600 x 1200	60
3360 x 1050	1680 x 1050	60
3840 x 1200	1920 x 1200	58

* certain systems only, check www.matrox.com/graphics

Cable Kit:

- DualHead2Go connector box
- 2-foot HD15-to-HD15 (analogue) monitor cable
- USB power adapter

Minimum System Specifications:

- System: Single VGA output connector, on a compatible system
- Operating system: Microsoft® Windows® XP, Windows 2000, Windows XP x64bit, Windows Vista™ and Mac® OS X v10.4
- Display driver: Support for 2048 x 768 or 2560 x 1024 resolution
- USB power adapter

Dimensions: 10 cm x 14 cm x 3.2 cm

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DualHead*2Go* Analogue Edition
Part Code: D2G-A2A-IF

Key features*:

• Upgrade your laptop or desktop computer to dual external displays
• Use Windows stretched across two displays at up to 2560 x 1024 resolution
• Harness your existing graphics hardware's full capabilities for 2D, 3D, and video
• Highly portable, easy-to-use solution
• Perfect for the mobile office user, mobile workstation, home or on the go
• Compatible with both Windows and Mac operating systems

* System dependent, see website for more details.

Warranty: 2 years limited return to base

Application Areas:

• Add Dual Monitor capability to laptops in addition to the laptop LCD Screen
• Extend the multi-display capabilities of your Integrated-graphics based PC
• Enable multi-display presentations from your laptop for customer meetings and tradeshows
• Mirror your multi-display office environment in a customer meeting or at home
• Video-editing from a laptop? Stretch your timeline across two displays and preview on the laptop screen
• Ideal for hot-desking situations where multiple users can benefit from a DualHead setup
• Stretch mulitple views across multiple monitors when using CAD and GIS applications

Output Options:

• Dual Analogue 2560x1024* or 2048x768

* certain systems only, check www.matrox.com/graphics

Cable Kit:

• 2-foot HD15-to-HD15 (analogue) monitor cable
• USB power adapter

Minimum System Specifications:

• System Single VGA output connector, on a compatible system
• Operating system   Microsoft® Windows® XP, Windows 2000, Windows XP x64bit, Windows Vista™ and Mac® OS X v10.4
• Display driver Support for 2048 x 768 or 2560 x 1024 resolution
• Powered USB connector

Dimensions: 9.2 cm x 9.5 cm x 2.5 cm

TripleHead*2Go*
Part Code: T2G-D3D-IF

Key features*:

- Upgrade a computer to use 3 (or 2) monitors at a time*
- Easy-to-setup external box connects to the standard monitor connector of a computer
- Features a dual-link digital input for high-end workstations and DVI monitors*
- Flexible device supports both dual-monitor configurations and triple-monitor configurations with digital or analogue monitors*.
- No parts to insert in a computer and no hardware or software replacement
- Use existing graphics hardware for 2D, 3D, and video acceleration
- Cost-effective, space-saving, multi-display docking station for a laptop
- Easy-to-use Matrox PowerDesk software for multi-display controls
- Includes Matrox Monitor Bezel Management software feature for an enhanced gaming experience[1]
- Compatible with both Windows and Mac operating systems

* System dependent, see website for more details.

Warranty: 2 years limited return to base

Application Areas:

- Surround Gaming: expand supported 3D games across three displays, achieving a much wider in-game field of view. 135° Field of View over three screens
- Surround Design: Increase productivity with expanded visualisation, running a single or multiple applications across three screens.
- Update mission critical systems without opening the box. More space on the desktop for displaying information that needs to be accessed quickly.
- Add Triple Monitor capability to laptops in addition to the laptop LCD Screen

Output Options:

TripleHead DVI Resolutions[2]

Total resolution (width x height)	Resolution per display (width x height)	Refresh rate (Hz)
1920 x 480	640 x 480	60
2400 x 600	800 x 600	60
3072 x 768	1024 x 768	60
3840 x 720	1280 x 720	60
3840 x 768	1280 x 768	60
3840 x 800	1280 x 800	60
3840 x 960	1280 x 960	60
3840 x 1024	1280 1024	60

DualHead DVI Resolutions

Total resolution (width x height)	Resolution per display (width x height)	Refresh rate (Hz)
2040 x 768	1024 x 768	60
2560 x 1024	1280 x 1024	60
2720 x 768	1360 x 768	60
2880 x 900	1440 x 900	60
3200 x 1200	1600 x 1200	60
3360 x 1050	1680 x 1050	60
3840 x 1200	1920 x 1200	58

Cable Kit:
- 2-foot HD15-to-HD15 (analogue) monitor cable
- 2-foot, DVI-to-DVI monitor cable
- USB power adapter

Minimum System Specifications:
- System: Dual-link DVI or single VGA output connector, on a compatible system
- Operating system: Microsoft® Windows® XP, Windows 2000, Windows XP x64bit, Windows Vista™ and Mac® OS X v10.4
- Display driver Display driver supporting 1920 x 480, 2400 x 600, 3072 x 768 or 3840 x 1024 resolutionn
- Powered USB connector

Dimensions: 10 cm x 14 cm x 3.2 cm

1: Windows only
2: See TH2Go Analogue for further supported Triple Analogue resolutions

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TripleHead*2Go*
Part Code: T2G-A3A-EUF

Key features*:

• Upgrade a computer to use 3 monitors at a time
• Easy-to-setup external box connects to the standard monitor connector of a computer
• No parts to insert in a computer and no hardware or software replacement
• Use existing graphics hardware for 2D, 3D, and video acceleration
• Cost-effective, space-saving, multi-display docking station for a laptop
• Compact box suitable for travel
• Easy-to-use Matrox PowerDesk software for multi-display controls
• Global sales and technical support

* System dependent, see website for more details.

Warranty: 2 years limited return to base

Application Areas:

• Surround Gaming: expand supported 3D games across three displays, achieving a much wider in-game field of view. 135° Field of View over three screens
• Surround Design: Increase productivity with expanded visualisation, running a single or multiple applications across three screens.
• Update mission critical systems without opening the box. More space on the desktop for displaying information that needs to be accessed quickly.
• Add Triple Monitor capability to laptops in addition to the laptop LCD Screen

Output Options:

Automatically detected display modes:

# of displays	Total resolution (width x height)	Resolution per display (width x height)	Refresh rate (Hz)
3	1920 x 480	640 x 480	60
3	2400 x 600	800 x 600	60
3	3072 x 768	1024 x 768	85
3	3072 x 768	1024 x 768	60
3	3840 x 1024	1280 x 1024	60

Additional display modes enabled by running TripleHead2Go Mode Expander software:

# of displays	Total resolution (width x height)	Resolution per display (width x height)	Refresh rate (Hz)	What's new
2	2560 x 1024	1280 x 1024	60	dual-display
2	3360 x 1050	1680 x 1050	60	dual-display, widescreen
3	3072 x 768	1024 x 768	85	higher refresh rate
3	3840 x 720	1280 x 720	60	wide-screen
3	3840 x 768	1280 x 768	60	wide-screen

Cable Kit:
• TripleHead2Go connector box
• 2-foot HD15-to-HD15 (analogue) monitor cable
• 2-foot, DVI-to-HD15 monitor cable
• External 5VDC power adapter
• Region-specific power cable(s)

Minimum System Specifications:
• System Single VGA output connector, on a compatible system
• Operating system   Microsoft Windows XP, Windows 2000
• Display driver Support for 2048 x 768 or 2560 x 1024 resolution

Dimensions: 9.2 cm x 9.5 cm x 2.5 cm

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QID Low Profile PCI / Low Profile PCI express
Part Code: QID-P128LPAF / QID-E128LPAF
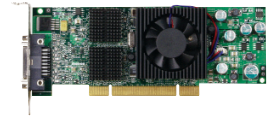
Key features:
- 256-bit GPU with 128-bit DDR memory
- Support for up to 66 MHz on PCI bus / Native PCI express x16
- 128 MB DDR memory
- Support for both low-profile and ATX systems
- Half length, half height (low profile)
- Quad DVI and RGB support at up to 1600 x 1200 resolution
- Matrox Pivot/Portrait, Matrox NT-Style Stretched Desktop and Matrox Clone
- New KX20 connector to quad DVI-I with four DVI-VGA adaptors
- UltraSharp Display Output technology
- Quad overlay support for video content on all four screens
- OS support for Microsoft® Windows® XP, Windows® XP 64-bit and Windows® 2000

Warranty: 3 years return to base

Application Areas:
- Corporate Desktop: Fits into many small form factor PCs
- Financial Trading Floors: Space Saving technology with Quad display
- Command and Control: QuadHead for extended desktop display

Output Options:
- Quad DVI
- Quad Analogue
- Two DVI, Two Analogue
- Triple DVI
- Triple Analogue
- DVI / Analogue mix up to four displays
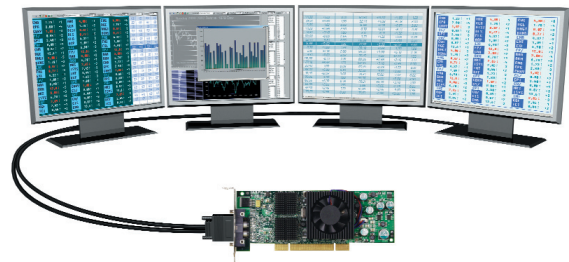
Cable Kit:
- KX20 to Quad DVI Cable
- 4x DVI to Analogue Adapters

Minimum System Specifications:
- PCI
- Pentium III 800MHz or greater with at least 64 MB of RAM
- Microsoft® Windows® XP or Windows® 2000, Linux
  (check regularly for updates on support for other operating systems)

Dimensions: PCI   (H) 5.6cm (L) 16.8cm
                 PCIe   (H) 5.6cm (L) 16.8cm

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QID AGP / QID Pro
Part Code: QID-QDA8X128F / QID-P256PROF

Key features:
- First ever full support for 1600 x 1200 DVI resolutions from a quad card
- AGP 8x (QID) or 33 and 66 MHz PCI buses (QID Pro)
- Single chip with single unified frame buffer for accelerated screen-to-screen blits
- 128 MB (QID) or 256 MB (QID Pro) DDR memory
- Multi-display support:
  - 1600 x 1200 with 32bpp @ 60 Hz analogue and digital resolution
  - Connect to either 15-pin VGA monitor or DVI digital flat panel
  - Multi TV out using independent TV out chip per output (QID AGP only)
  - Quad overlay support for video content on all four screens
- OpenGL acceleration across all four displays (QID Pro)
- UltraSharp Display Output technology
- Four independent desktops
- Windows® XP® 64-bit drivers available
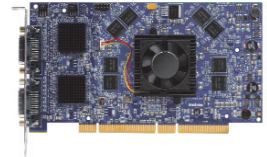
Warranty: 3 years return to base

Application Areas:
- Digital Menus: Drive dynamic content on multiple displays for animated digital menus
- Bars & Restaurants: Bring attention to your latest promotions through brilliant graphics
- Casino Machines: Power interactive video terminals with solid 2D, 3D and video acceleration
- Retail: Deliver targeted, noticeable and powerful customer communication in retail establishments
- Airport Information: Benefit from consistent stability & reliability for displaying critical arrival and departure information
- Point of Sale: Transmit compelling information right at the point of sale for more effective advertising

Output Options:
- Quad DVI
- Quad Analogue
- Two DVI, Two Analogue
- Triple Analogue
- Triple DVI
- DVI / Analogue mix up to four displays

Cable Kit:
- 2x LFH60 to Dual DVI
- 4x DVI to Analogue Adapters

Minimum System Specifications:
- AGP 3.0 compliant system (QID)
- PCI 2.3 compliant system (QID PRO)
- 128 MB RAM
- 600 MHz CPU
- CD-ROM drive
- Microsoft® Windows® 2000, Windows® XP or Linux
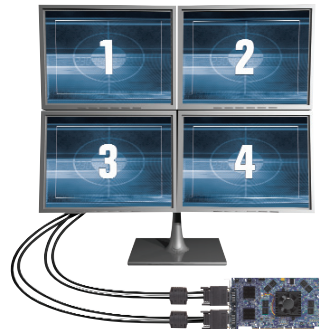
Dimensions:	QID AGP	(H) 9.8cm (L) 16.5 cm
	QID Pro	(H) 9.8cm (L) 18.9cm

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Parhelia APVe
Part Code: PH-E128APVF

Key features:
- PCIe x16 bus architecture
- 128MB DDR Memory
- Dual 400 MHZ 10-bit RAMDACS
- DualHead up to 1920x1440 per display
- Dual-DVI up to 1920 x 1200 per display
- Advanced Multi-display output modes
    - Dual-DVI plus SDTV output
    - Dual-display plus SDTV output
    - TripleHead Desktop mode
- WYSIWYG video output plug-ins for Adobe® Premiere® Pro, After Effects®, Photoshop®, Discreet combustion® 3, Discreet™ 3D Studio Max™ and NewTek Lightwave 3D®
- Component, composite and S-video output
- YpbPr component output at 1080i, 1080p and 720p
- Composite and S-video input
- PureVideo Preview - full screen video playback
- Dual Hardware overlays - gamma correctable
- Adjustable proc-amp settings: hue, saturation, brightness and contrast
- OpenGL® and Microsoft® DirectX® compliant
- Drivers for Microsoft Windows® XP and Windows® 2000

Warranty: 3 years return to base

Application Areas:
- Video Editing: Dual Display + HDTV out, TV Out plug-ins for popular Video Editing packages
- Digital Photography/ Desktop Publishing: High quality Dual DVI and 10-bit gamma correctable DACs, Matrox Pivot mode
- Audio editing: TripleHead , dual-display plus video-output

Output Options:
- Dual DVI
- Dual Analogue
- One DVI, Dual Analogue
- Triple Analogue
- Dual Analogue + HDTV or TV out
- Dual DVI + TV out
- One DVI, One Analogue + HDTV or TV out

Cable Kit:
- One DVI to DVI + HD-15 cable
- One HD-15 to s-video and composite cable
- One DVI to Dual HD-15 cable
- One HD-15 to YPbPr cable
- One DVI to HD-15 adaptor

Minimum System Specifications:
- PCI 2.3 compliant system
- 256 MB RAM
- 600 MHz CPU
- Microsoft® Windows® 2000 and Windows XP operating system
- 300W system power supply
- CD-ROM

Dimensions: (H) 9.8cm (L) 18.9cm

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Parhelia 128MB AGP / 256MB AGP / 256MB PCI
Part Code: PH-A8X128F / PH-A8X256F / PH-P256F

Key features:
- 512-bit GPU with 256-bit DDR memory bus
- 128 MB or 256 MB DDR memory
- AGP 8x, 4x, 2x, 1x or 33 and 66 MHz PCI buses
- Full Height ATX
- High performance 2D, 3D & video
- Triple-RGB, Dual-DVI, TV output
- DualHead-HF and TripleHead Desktop
- UltraSharp Display Output technology
- 10-bit GigaColor technology
- Realtime Display Colour Adjustment
- WYSIWYG video output plug-ins for Adobe® Premiere® Pro, After Effects® and Photoshop®
- WYSIWYG video output plug-ins for Discreet™ 3D Studio Max™ and NewTek Lightwave 3D® 7.5
- 10-bit GigaColor Plugin for PhotoShop
- Unified Drivers for Millennium P-Series & Parhelia Series
- OpenGL® 1.3 and Microsoft® DirectX 8.1 compliant
- Windows® XP® 64-bit drivers available
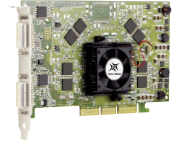
Warranty: 3 years return to base

Application Areas:
- Video Editing: Dual Display + TV out, TV Out plug-ins for popular Video Editing packages
- Digital Photography: High quality Dual DVI and 10-bit gamma correctable DACs
- Entry-Level AEC CAD: OGL acceleration across three displays, Optimised drivers for popular AEC packages
- Command and Control: TripleHead for extended desktop display

Output Options:
- Dual DVI
- Dual Analogue
- One DVI, Dual Analogue
- Triple Analogue
- Dual Analogue + TV out
- One DVI, One Analogue + TV out

Cable Kit:
- One Analogue Adapter
- DVI to Dual Analogue Cable
- TV Out Cable

Minimum System Specifications:
- AGP 3.0 compliant system or PCI 2.3 compliant system
- 128 MB RAM
- 600 MHz CPU
- CD-ROM drive
- 300W system power supply
- Microsoft® Windows® 2000, Windows® XP or Linux

Dimensions:	AGP:	(H) 9.8cm (L) 17.4cm
	PCI:	(H) 9.8cm (L) 18.9cm

www.matrox.com/graphics

matrox
Graphics for Professionals

Parhelia DL256
Part Code: PH-P256DLF

Key features:
- 256 MB graphics memory
- 64-bit, 66 MHz PCI card (compatible with all PCI and PCI-X slots)
- Dual 400 MHz RAMDACs
- Ultra Sharp Display Output technology
- Maximum digital resolution: 2560 x 1600
- Maximum analogue resolution: 2048 x 1536
- Support for 30-inch Apple Cinema HD Display under Windows
- Simultaneous support for one dual link DVI display + one analogue monitor or NTSC/PAL video monitor
- TV output support (composite video and S-video, NTSC or PAL)
- PureVideo Preview, high-quality full screen video playback
- High MTBF (mean time before failure) cooling fan
- Multi-display, multi-card 2D/3D OpenGL® and Microsoft® DirectX® acceleration
- WYSIWYG video output plug-ins for Adobe® Premiere® Pro, After Effects®, Photoshop®, Discreet combustion® 3, Discreet™ 3D Studio Max™ and NewTek Lightwave 3D® 7.5
- ATX form factor
- Display drivers for Microsoft Windows® XP and Windows® 2000

Warranty: 3years return to base

Application Areas:
- 4MP Displays: Driving 4MP (such as Apple 30" Cinema) displays at full resolution using Dual Link DVI
- Audio / Video Editing: View your editing application on a large screen and output to a TV for previews using WYSIWYG plug ins
- Process Control: Present large amounts of information as clearly as possible
- Computer Aided Dispatch: View more of your work at once or in greater detail

Output Options
- 4MP DualLink DVI + TV
- 4MP DualLink DVI + Analogue
- 4MP DualLink DVI

Cable Kit
- Analogue Adapter
- TV out cable

Minimum System Specifications
- PCI 2.3 compliant system
- 256 MB RAM
- 600 MHz CPU
- Microsoft® Windows® 2000 and Windows XP operating system
- 300W system power supply
- CD-ROM

Dimensions: (H) 9.8cm (L) 18.9cm

Millennium P650 PCI express
Part Code: P65-MDDE128F
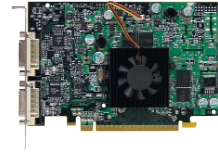
Key features:
- 256-bit GPU with 128-bit DDR memory
- Native PCIe x16 bus architcture
- 128 MB DDR memory
- Support for ATX systems
- 1920 x 1200 dual digital and 1920 x 1440 dual analogue resolution
- Support for portrait resolution through pivot feature
- UltraSharp Display Output technology
- Glyph Antialiasing for ultra-crisp text
- Unified Driver support
- OS support for Microsoft® Windows® XP, Windows® XP 64-bit, Windows ® 2000, and Linux
- OpenGL® and Microsoft® DirectX® compliant

Warranty: 3 years return to base

Application Areas
- Corporate Desktop Users: Dual DVI / Dual Analogue capable
- Video Editing: Ideal companion card for Hardware video editing cards such as RTX100, Dual Hardware overlays
- Digital Photography: High quality Dual DVI and 10-bit gamma correctable DACs
- Entry-Level AEC CAD: OGL acceleration across two displays

Output Options
- Dual DVI
- Dual Analogue
- One DVI + TV Out
- One Analogue + TV

Cable Kit
- 2x DVI to Analogue adapters
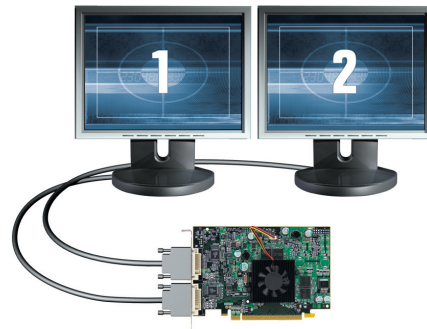
Minimum System Specifications
- PCI express x16
- Pentium III 800MHz or greater with at least 64 MB of RAM
- Microsoft® Windows® XP or Windows® 2000, Linux
  (check regularly for updates on support for other operating systems)

Dimensions: (H) 9.8cm (L) 18.9cm

www.matrox.com/graphics

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Graphics for Professionals

Millennium P650 Low Profile PCI / Low Profile PCI express
Part Code: P65-MDDAP64F (PCI) / P65-MDDE64LPF (PCIe)

Key features:
- 256-bit GPU with 128-bit DDR memory
- Support for up to 66MHz on PCI bus / Native PCIe x16
- 64 MB DDR memory
- Support for both low-profile and ATX systems
- Half length, half height (low profile)
- 5.2-inch long board design ideal for small form factor PCs and docking stations
- 1920 x 1200 dual digital and 1920 x 1440 dual analogue resolution
- UltraSharp Display Output technology
- Glyph Antialiasing for ultra-crisp text
- Unified Driver support
- OS support for Microsoft® Windows® XP, Windows® XP 64-bit, Windows ® 2000, and Linux
- OpenGL® and Microsoft® DirectX® compliant
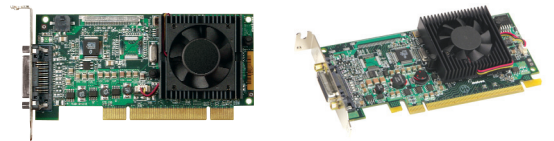
Warranty: 3 years return to base

Application Areas:

- Corporate Desktops: Space Saving Dual Display card
- Laptops: Fits into most Docking stations for Dual Display from a laptop
- Digital Photography: High quality Dual DVI and 10-bit gamma correctable DACs

Output Options:

- Dual DVI
- Dual Analogue
- One DVI + TV Out
- One Analogue + TV

Cable Kit:
- LFH60 to Dual DVI cable
- 2x DVI to Analogue adapters

Minimum System Specifications:
- PCI / PCIe x16
- 128 MB RAM
- 600 MHz CPU
- CD-ROM drive
- Microsoft® Windows® 2000, Windows® XP, ® 4.0 or Linux
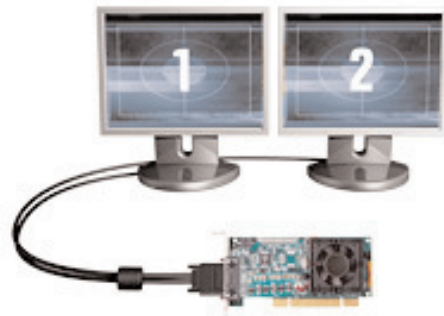
Dimensions: (H) 5.5cm (L) 18.9cm

Millennium P650 AGP
Part Code: P65-MDDA8X64F

Key features:
- 256-bit GPU with 128-bit DDR memory bus
- 64 MB DDR memory
- AGP 8x, 4x, 2x, 1x
- Full Height ATX
- Powerful 2D, 3D and DVD-Video acceleration
- Multi-display support: DualHead-HF
    - 1600 x 1200 dual digital and 1920 x 1440 dual analogue 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

Warranty: 3years return to base

Application Areas

- Corporate Desktop Users: Dual DVI / Dual Analogue capable
- Audio: Fanless silent graphics card, can be upgraded to Triplehead
- Video Editing: Ideal companion card for Hardware video editing cards such as RTX100, Dual Hardware overlays
- Digital Photography: High quality Dual DVI and 10-bit gamma correctable DACs
- Entry-Level AEC CAD: OGL acceleration across two displays

Output Options
- Dual DVI
- Dual Analogue
- TripleHead Upgrade Kit:
- One DVI, Dual Analogue
- Triple Analogue
- Dual Analogue + TV out
- One DVI, One Analogue + TV out

Cable Kit
- Dual Analogue Adapters

Minimum System Specifications
- 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

Dimensions: (H) 9.3cm   (L) 14.8cm

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Graphics for Professionals

Millennium P750 AGP
Part Code: P75-MDDA8X64F

Key features:
- 256-bit GPU with 128-bit DDR memory bus
- 64 MB DDR memory
- AGP 8x, 4x, 2x, 1x
- Full Height ATX
- Powerful 2D, 3D and DVD-Video acceleration
- Multi-display support: DualHead-HF
    - 1600 x 1200 dual digital and 1920 x 1440 dual analogue 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
- Multi-display support: TripleHead
    - Unique Matrox TripleHead support
    - Unique Matrox Dual-display plus TV output support
- 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
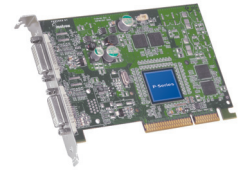
Warranty: 3years return to base

Application Areas:
- Video Editing: DualHead + TV Out for video previews. Ideal companion card for Hardware video editing cards such as RTX100, Dual Hardware overlays
- Digital Photography: High quality Dual DVI and 10-bit gamma correctable DACs
- Entry-Level AEC CAD: OGL acceleration across two displays

Output Options:
- Dual DVI
- Dual Analogue
- One DVI, Dual Analogue
- Triple Analogue
- Dual Analogue + TV out
- One DVI, One Analogue + TV out

Cable Kit:
- One Analogue Adapter
- DVI to Dual Analogue Cable
- TV Out Cable

Minimum System Specifications:
- 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

Dimensions: (H) 9.3cm (L) 14.8cm

www.matrox.com/graphics

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Graphics for Professionals

Millennium G550 Low Profile PCIe / ATX PCIe
Part Code: G55-MDDE32LPDF / G55-MDDE32F

Key features:
- 32 MB DDR memory
- PCI Express card compatible with all compliant PCI Express slots (PCIe x1, x4, x8, and x16)
- Passive cooling (heat sink with no fan) for silent operation and extra reliability
- Unified Microsoft WHQL-certified drivers for Millennium G-Series products
- Fits into both Low-profile and ATX systems (Low profile version)
- Integrated RAMDACs
- Integrated TMDS transmitters
- Unified driver support
- Supports dual RGB and dual DVI output
- OS support for Microsoft® Windows® XP, Windows® XP 64-bit, Windows® 2000, and Linux
- Supports up to 2048 x 1536 analogue resolution
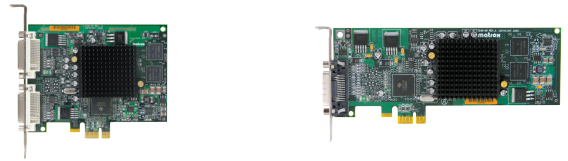
Warranty: 3 years return to base

Application Areas:
- Corporate Desktops: Space Saving Dual Display card
- Servers   Open Source Linux and Unix drivers available

Output Options:
- Dual DVI
- Dual Analogue
- One DVI + TV Out
- One Analogue + TV

Cable Kit:
- 2x DVI to Analogue adapters (ATX version)
- LFH60 to Dual DVI (Low Profile version)
- 2x DVI to Analogue adapters (Low Profile version)

Minimum System Specifications:
- PCI express x1
- 128 MB RAM
- 600 MHz CPU
- CD-ROM drive
- Microsoft® Windows® 2000, Windows® XP, Windows NT® 4.0 or Linux
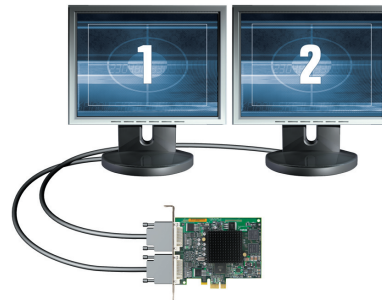
Dimensions: ATX   (H) 9.8 cm (L) 8.3 cm
               LP   (H) 5.5 cm (L) 16 cm

Millennium G550 Low Profile PCI
Part Code: G55MDDAP32DBF

Key features:
- 256-bit GPU with 64-bit DDR memory bus
- 32 MB DDR memory
- Support for up to 66MHz on PCI bus
- Half-length, half-height (low-profile)
- Fits into both Low-profile and ATX systems
- Integrated RAMDACs
- Integrated TMDS transmitters
- Unified driver support
- Supports dual RGB and dual DVI* output
- OS support for Microsoft® Windows® XP, Windows® XP 64-bit, Windows® 2000, and Linux
- Supports up to 2048 x 1536 analogue resolution

Warranty: 3 years return to base

Application Areas:
- Corporate Desktops: Space Saving Dual Display card
- Laptops: Fits into most Docking stations for Dual Display from a laptop

Output Options:
- Dual DVI
- Dual Analogue
- One DVI + TV Out
- One Analogue + TV

Cable Kit:
- LFH60 to Dual Analogue Cable
- LFH60 to Dual DVI (available as upgrade)

Minimum System Specifications:
- PCI
- 128 MB RAM
- 600 MHz CPU
- CD-ROM drive
- Microsoft® Windows® 2000, Windows® XP, Windows NT® 4.0 or Linux
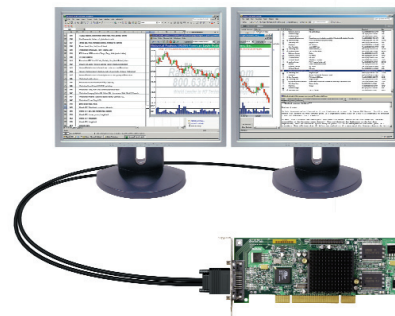
Dimensions: (H) 5.5cm (L) 16.7cm

* Dual DVI available with cable upgrade only

Matrox G450 MMS Quad
Part Code: G45X4QUADF

Key features:
- PCI 32-bit, 33 MHz
- LFH-60 connector
- High-performance 2D
- 360 MHz integrated RAMDAC per G450 chip
- Supports up to 2 or 4 monitors
- Windows NT 4.0, Windows XP, Windows 2000, and Linux
- One chip per output
- Dedicated frame buffer per chip
- Multiple cards supported in same system to support up to 16 monitors
- Support for Matrox Hybrid Mode
  - Multi-Pivot
  - Multi-Clone
  - Multi TV Out*
  - Multi NT-Style
- Ultra-compact board design for the new generation of half-length PCI systems
- Unified Microsoft certified drivers
- Dual G450 MMS card available

Warranty: 3years return to base

Application Areas
- Financial and energy trading rooms: Quad Display with mixture of DVI or analogue outputs, Hybrid mode software for multi-card systems
- Distribution Control Centres: Capable of mixing portrait and landscape monitors
- Flight Information Displays Different resolutions on each screen,
- Process Control Systems Clone any screen to any other screen on same card

Output Options
- Quad DVI
- Quad Analogue
- Two DVI, Two Analogue
- Triple Analogue
- Triple DVI
- DVI / Analogue mix up to four displays
- Two DVI or Analogue, Two TV (CSV or SCART)*

Cable Kit
- LFH60 to Dual DVI cables x 2
- DVI to Analogue adapter x 4
- LH60 to CSV x 2*
- LFH60 to SCART*

Minimum System Specifications
- PCI bus
- Pentium 133 or greater with 64 MB of RAM (PCI 2.1 and 2.2 compliant)
- Windows NT 4.0, Windows XP, Windows 2000, and Linux

Dimensions: (H) 9.8cm (L) 16.4cm

* Upgrade cables are required for this functionality:
CSV (16027-00)
SCART (16028-00)

www.matrox.com/graphics

Matrox Graphics UK,
tel: +44 (0) 870 6065600 fax:+44 (0) 1753 708802 email: graphic.info.uk@matrox.com

Graphics for Professionals

QID Low Profile PCI *QID-P128LPAF*
QID LP PCI express *QID-E128LPAF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

KX20 - Quad DVI (CAB-KX20-4XDF)
DVI to analogue adapters x 4 (ADP-DVI-AF)
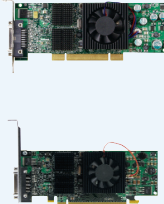
Quad DVI	D	D	D	D
Quad Analogue	A	A	A	A
2x DVI, 2x Analogue	D	D	A	A
3x DVI, 1x Analogue	D	D	D	A
1x DVI, 3x Analogue	D	A	A	A
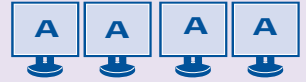
QID AGP *QID-QDA8X128F*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH60 - Dual DVI x 2 (CAB-L60-2XDF)
DVI to analogue adapters x 4 (ADP-DVI-AF)

Quad DVI	D	D	D	D
Quad Analogue	A	A	A	A
2x DVI, 2x Analogue	D	D	A	A
3x DVI, 1x Analogue	D	D	D	A
1x DVI, 3x Analogue	D	A	A	A

QID Pro PCI *QID-P256PROF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH60 - Dual DVI x 2 (CAB-L60-2XDF)
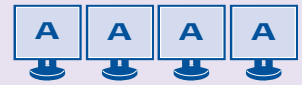DVI to analogue adapters x 4 (ADP-DVI-AF)

Quad DVI	D	D	D	D
Quad Analogue	A	A	A	A
2x DVI, 2x Analogue	D	D	A	A
3x DVI, 1x Analogue	D	D	D	A
1x DVI, 3x Analogue	D	A	A	A

Key:
A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600
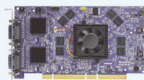
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Graphics for Professionals

Parhelia APVe *PH-E128APVF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

DVI to DVI + HD-15 cable (F16090-01)
DVI to Dual Analogue cable (CAB-DVI-2XAF)
TV Out Cable (CAB-HD15-TVF)
HD-15 to YPbPr cable (F16113-00)
DVI to HD-15 adaptor (ADP-DVI-AF)

Cable Upgrades

Composite Video In (CAB-DIN8-VIN)
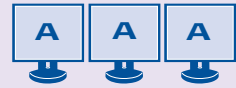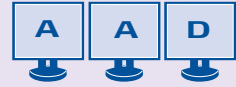
Triple Analogue	A A A
2x Analogue, 1x DVI	A A D
2x DVI, 1x Analogue	D D A
2x Analogue & HD	A A HD
1x Analogue, 1x DVI & HD	A D HD
2x DVI & SD	D D SD
1x Analogue, 1x DVI & SD	A D SD

Parhelia DL *PH-P256DLF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

DVI - HD15 Adapter (ADP-DVI-AF)
TV Out Cable (CAB-HD15-TVF)

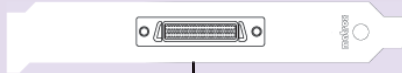|	
4MP Monitor	4MP
4MP monitor & Analogue	4MP A
4MP monitor & TV	4MP SD

Key:
A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600

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Graphics for Professionals

Parhelia 128MB *PH-A8X128F*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

DVI to Dual Analogue cable (CAB-DVI-2XAF)
DVI - HD15 Adapter (ADP-DVI-AF)
TV Out Cable (CAB-HD15-TVF)

Triple Analogue	A	A	A
2x Analogue, 1x DVI	A	A	D
2x Analogue & TV	A	A	SD
Analogue & DVI & TV	A	D	SD
Dual DVI	D	D	
Dual Analogue	A	A	
Analogue & DVI	A	D	
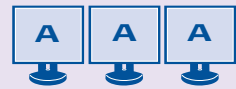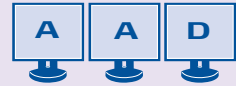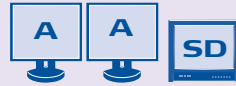
Parhelia 256MB AGP *PH-A8X256F*
Parhelia 256MBPCI *PH-P256F*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

DVI to Dual Analogue cable (CAB-DVI-2XAF)
DVI - HD15 Adapter (ADP-DVI-AF)
TV Out Cable (CAB-HD15-TVF)

Cable Upgrades:

S-video and composite Video In (F16079-01)

Triple Analogue	A	A	A
2x Analogue, 1x DVI	A	A	D
2x Analogue & TV	A	A	SD
Analogue & DVI & TV	A	D	SD
Dual DVI	D	D	
Dual Analogue	A	A	
Analogue & DVI	A	D	
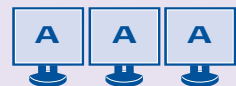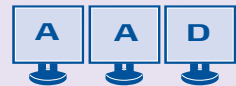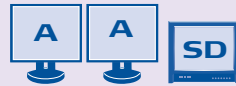
Key:
A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600

P650 PCIe ATX *P65-MDDE128F*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

DVI to Analogue Adapters x 2 (ADP-DVI-AF)

Dual DVI   D D

Dual Analogue   A A
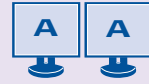
1x DVI, 1x Analogue   D A

1x DVI, 1x TV   D SD

1x Analogue, 1x TV   A SD

P650 Low Profile PCI *P65-MDDAP64F*
P650 PCIe LP *P65-MDDE64LPF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH-60 - Dual DVI (CAB-L60-2XDF)
DVI to Analogue Adapters x 2
(ADP-DVI-AF)
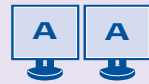
Dual DVI   D D

Dual Analogue   A A

1x DVI, 1x Analogue   D A

1x DVI, 1x TV   D SD

1x Analogue, 1x TV   A SD

Key:

A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600

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Graphics for Professionals

Millennium P750 *P75-MDDA8X64F*

Software Supplied
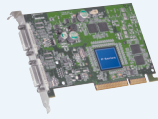
Matrox Installation and Driver CD

Cables Supplied

DVI to Dual Analogue cable (CAB-DVI-2XAF)
DVI - HD15 Adapter (ADP-DVI-AF)
TV Out Cable (CAB-HD15-TVF)

Triple Analogue	A A A
2x Analogue, 1x DVI	A A D
2x Analogue & TV	A A SD
Analogue & DVI & TV	A D SD
Dual DVI	D D
Dual Analogue	A A
Analogue & DVI	A D
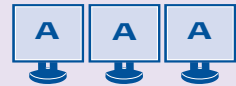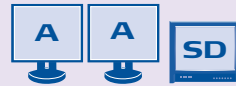
Millennium P650 *P65-MDDA8X64F*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

DVI - HD15 Adapter x2 (ADP-DVI-AF)

Cable Upgrade

TV Out Cable (CAB-HD15-TVF)
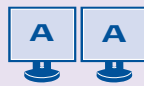
Dual DVI	D D
Dual Analogue	A A
1x DVI, 1x Analogue	D A
1x DVI, 1x TV*	D SD
1x Analogue, 1x TV*	A SD

* with TV Out upgrade cable

Key:
A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600

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G550 Low Profile PCIe *G55MDDE32LPDF*
G550 PCIe *G55MDDE32F*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH-60 - Dual DVI (CAB-L60-2XDF) (LP PCIe)
DVI to Analogue Adapters x 2 (ADP-DVI-AF)

Cable Upgrades

TV Out Cable (CAB-HD15-TVF)

Dual DVI

Dual Analogue

1x Analogue, 1x TV

G550 Low Profile PCI *G55MDDAP32DBF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH60 - Dual Analogue (CAB-L60-2XAF)

Cable Upgrades

LFH60 - Dual DVI 1 foot (CAB-L60-2XDF)
TV Out Cable (CAB-HD15-TVF)

Dual DVI*

Dual Analogue

1x Analogue, 1x TV

*Dual DVI available with cable upgrade only

Key:
A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600

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G450 MMS Quad *G45X4QUADF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH60 - Dual DVI x 2 (CAB-L60-2XDF)
DVI to analogue adapters x 4 (ADP-DVI-AF)

Cable Upgrade

LFH60 - Dual CSV x 2 (F16027-00)

Quad DVI	D D D D
Quad Analogue	A A A A
2x DVI, 2x Analogue	D D A A
3x DVI, 1x Analogue	D D D A
1x DVI, 3x Analogue	D A A A
4x TV Out*	SD SD SD SD
2x DVI, 2x TV out*	D D SD SD
2x Analogue, 2x TV out*	A A SD SD
1x Analogue, 2x DVI, 1x TV*	A D SD SD

* with TV Out upgrade cable

G450 MMS Dual *G450X2DUALF*

Software Supplied

Matrox Installation and Driver CD

Cables Supplied

LFH60 - Dual DVI x 1
DVI to analogue adapters x 2

Cable Upgrade

LFH60 - Dual CSV x 1 (16027-00)

Dual DVI	D D
Dual Analogue	A A
1x DVI, 1x Analogue	A D
2x TV Out*	SD SD

* with TV Out upgrade cable

Key:
A - Analogue **D**- Digital **SD** - Standard Definition TV out **HD** - High Definition Analogue TV out **4MP** - 4 megapixel resolution, 2560x1600

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Matrox Graphics UK,
tel: +44 (0) 1895 827260 fax:+44 (0) 1895 827301 email: graphic.info.uk@matrox.com

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QID LP PCIe
QID-E128LPAF
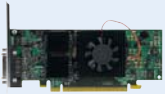
BackPlate Fitted as Standard:
Standard ATX

KX20 Connector

BackPlate Included as Standard:
LP Bracket

Cables_Included as Standard:
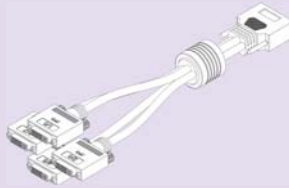
KX20 to Quad DVI Cable
(CAB-KX20-4XDF / F16104-05)
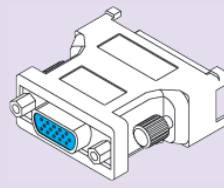
4x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

QID LP PCI
QID-P128LPAF
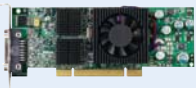
BackPlate Fitted as Standard:
Standard ATX

KX20 Connector

BackPlate Included as Standard:
LP Bracket
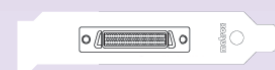
Cables_Included as Standard:
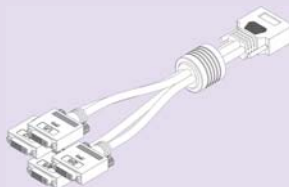

KX20 to Quad DVI Cable
(CAB-KX20-4XDF / F16104-05)
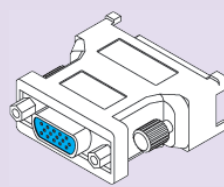
4x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

QID AGP
QID-QDA8X128F

BackPlate Fitted as Standard:
Standard ATX
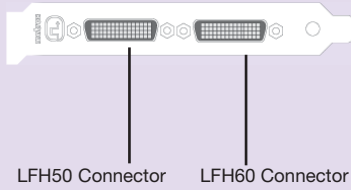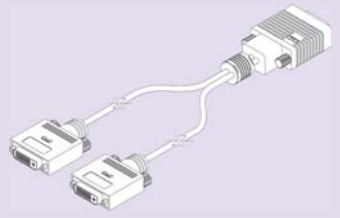
LFH50 Connector   LFH60 Connector

Cables Included as Standard:

2x LFH60 to Dual DVI Cables
(CAB-L60-2XDF / F160123-00)
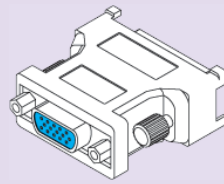
4x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

QID PRO PCI
QID-P256PROF

BackPlate Fitted as Standard:
Standard ATX
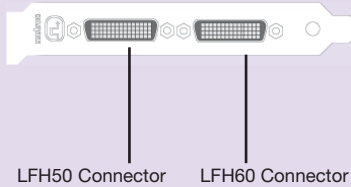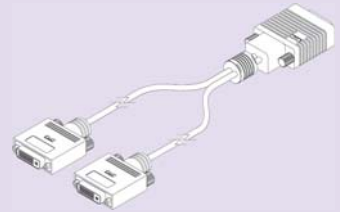
LFH50 Connector   LFH60 Connector

Cables Included as Standard:

2x LFH60 to Dual DVI Cables
(CAB-L60-2XDF / F160123-00)

4x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

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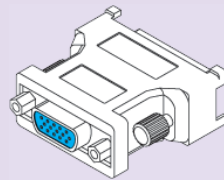
Parhelia APVe PCIe
PH-E128APVF

BackPlate Fitted as Standard:
Standard ATX

S-video   DVI Connector   DVI Connector

Cables_Included as Standard:

DVI to Dual Analogue Cable
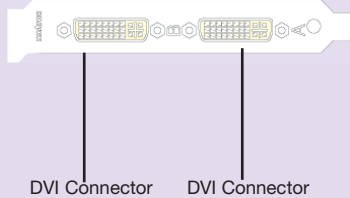(CAB-DVI-2XAF / F15963-02)
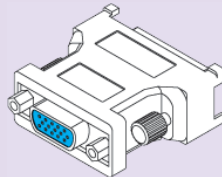
DVI to HD15 adapter
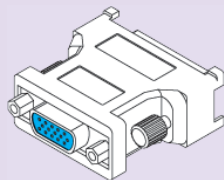(ADP-DVI-AF / ADAPT20)
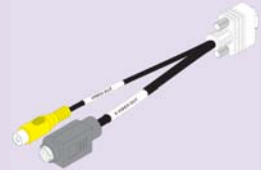
TV Out Cable
(CAB-HD15-TVF / F15953-02)
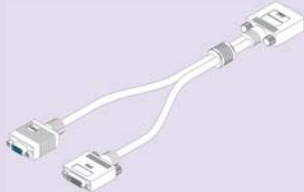
DVI to Analogue and DVI Cable
(F16090-01)
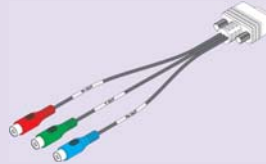
VGA to YPbPr Cable
(F16113-00)

Parhelia DL PCI
PH-P256DLF

BackPlate Fitted as Standard:
Standard ATX

DVI Connector   DVI Connector

BackPlate Included as Standard:
Stereo output
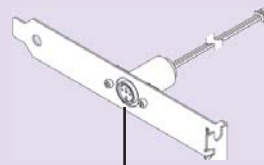
VESA 3 pin Stereo Connector

Cables_Included as Standard:

DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

TV Out Cable
(CAB-HD15-TVF / F15953-02)

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Parhelia 128MB AGP
PH-A8X128F

BackPlate Fitted as Standard:
Standard ATX
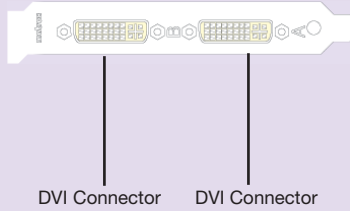
DVI Connector   DVI Connector

Cables Included as Standard:

DVI to Dual Analogue Cable
(CAB-DVI-2XAF / F15963-02)
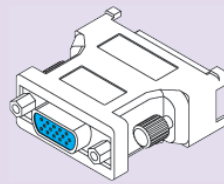
DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

TV Out Cable
(CAB-HD15-TVF / F15953-02)

Parhelia 256MB AGP
PH-A8X256F

BackPlate Fitted as Standard:
Standard ATX

BackPlate Included as Standard:
Stereo output

DVI Connector   DVI Connector

VESA 3 pin Stereo Connector
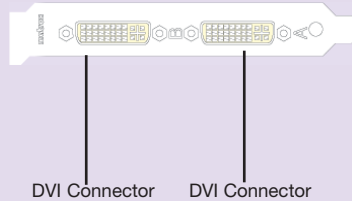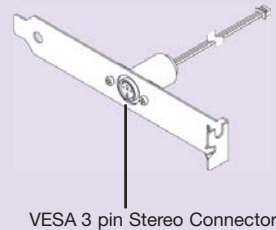
Parhelia 256MB PCI
PH-P256F

Cables Included as Standard:

DVI to Dual Analogue Cable
(CAB-DVI-2XAF / F15963-02)

DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

TV Out Cable
(CAB-HD15-TVF / F15953-02)

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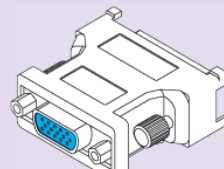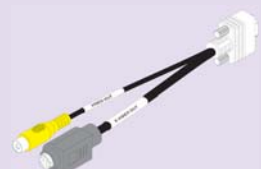
P650 128MB PCIe
P65-MDDE128F

BackPlate Fitted as Standard:
Standard ATX

DVI Connector   DVI Connector

Cables Included as Standard:
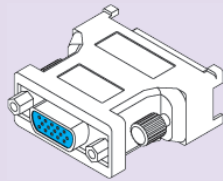
2x DVI to HD15 adapters
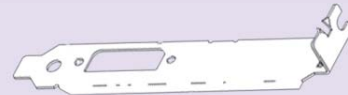(ADP-DVI-AF / FADAPT20)

P650 LP PCIe
P65-MDDE64LPF

P650 LP PCI
P65-MDDAP64F
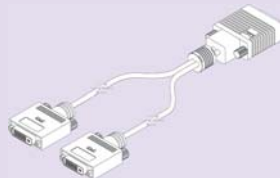
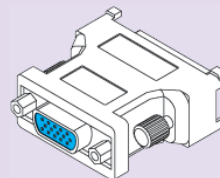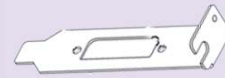BackPlate Fitted as Standard:
Standard ATX
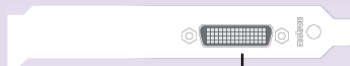
LFH60 Connector

BackPlate Included as Standard:
Low Profile Bracket

Cables Included as Standard:
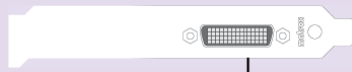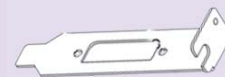
LFH60 to Dual DVI Cable
(CAB-L60-2XDF / F16123-00)

2x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

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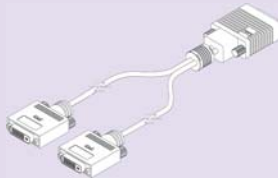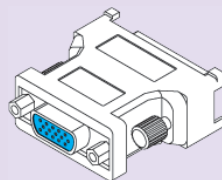
Millennium P750 AGP
P75-MDDA8X64F

BackPlate Fitted as Standard:
Standard ATX
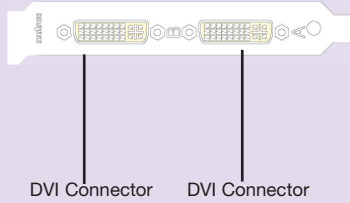
DVI Connector   DVI Connector

Cables_Included as Standard:

DVI to Dual Analogue Cable
(CAB-DVI-2XAF / F15963-02)
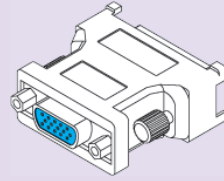
DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

TV Out Cable
(CAB-HD15-TVF / F15953-02)
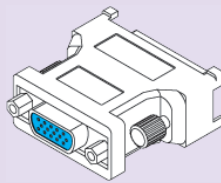
Millennium P650 AGP
P65-MDDA8X64F

BackPlate Fitted as Standard:
Standard ATX

DVI Connector   DVI Connector

Cables_Included as Standard:

2x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT/20)

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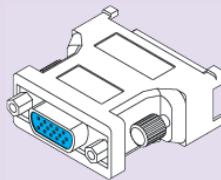**Graphics for Professionals**

G550 PCIe 1X
G55-MDDE32F

BackPlate Fitted as Standard:
Standard ATX

DVI Connector   DVI Connector

Cables Included as Standard:
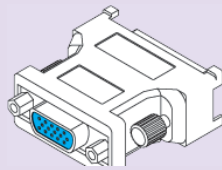
2X DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

G550 LP PCIe 1X
G55-MDDE32LPDF

BackPlate Fitted as Standard:
Low Profile
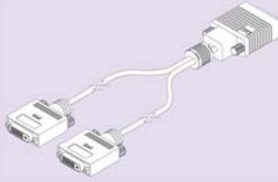
BackPlate Included as Standard:
ATX Bracket
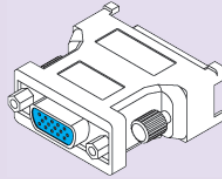
LFH60 Connector

Cables Included as Standard:

LFH60 to Dual DVI Cable
(CAB-L60-2XDF / F16123-00)

2x DVI to HD15 adapters
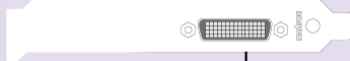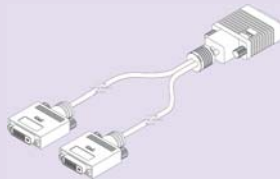(ADP-DVI-AF / ADAPT20)

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Graphics for Professionals

G550 LP PCI
G55MDDAP32DBF

BackPlate Fitted as Standard:
Standard ATX

LFH50 Connector

BackPlate Included as Standard:
Low Profile Bracket

Cables Included as Standard:

LFH60 to Dual Analogue Cable
(CAB-L60-2XAF / F15941-00)

G550 Dual DVI AGP
G55MADDA32DBF

BackPlate Fitted as Standard:
Standard ATX

LFH50 Connector

BackPlate Included as Standard:
Low Profile Bracket

Cables Included as Standard:

LFH60 to Dual Analogue Cable
(CAB-L60-2XAF / F15941-00)

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G550 AGP Retail
G55+MDHA32DRF

BackPlate Fitted as Standard:
Standard ATX

Analogue Connector   DVI Connector

Cables Included as Standard:

DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

TV Out Cable
(CAB-HD15-TVF / F15953-02)

G550 AGP Bulk
G55+MDHA32DBF

BackPlate Fitted as Standard:
Standard ATX

Analogue Connector   DVI Connector

Cables Included as Standard:

DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

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G450 MMS Quad PCI
G45x4QUAD-BF

BackPlate Fitted as Standard:
Standard ATX

LFH50 Connector   LFH60 Connector

Cables_Included as Standard:

2x LFH60 to Dual DVI Cable
(CAB-L60-2XDF / F16123-00)

4x DVI to HD15 adapters
(ADP-DVI-AF / ADAPT20)

G450 MMS Dual PCI
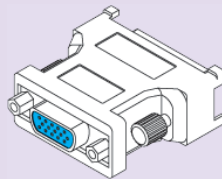G45X2DUAL-BF

BackPlate Fitted as Standard:
Standard ATX

LFH50 Connector

Cables_Included as Standard:

LFH60 to Dual DVI Cable
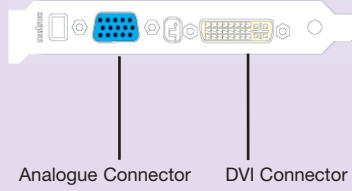(CAB-L60-2XDF / F16123-00)

2x DVI to HD15 adapters
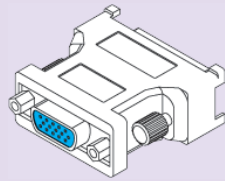(ADP-DVI-AF / ADAPT20)

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G450 PCI
G45FMDVP32DBF

BackPlate Fitted as Standard:
Standard ATX
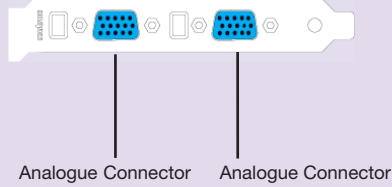

Analogue Connector   DVI Connector

Cables_Included as Standard:

DVI to HD15 adapter
(ADP-DVI-AF / ADAPT/20)

G450 AGP Retail
G45FMDHA32DBF

BackPlate Fitted as Standard:
Standard ATX

Analogue Connector   Analogue Connector

G450 AGP DVI
G45FMLDVA32DBF

BackPlate Fitted as Standard:
Standard ATX

DVI Connector
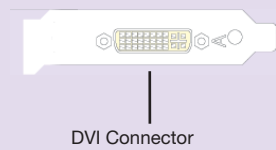
BackPlate Included as Standard:
ATX Bracket

Cables_Included as Standard:

DVI to Dual Analogue Cable
(CAB-DVI-2XAF / F15963-02)

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Graphics for Professionals

VGA Connector
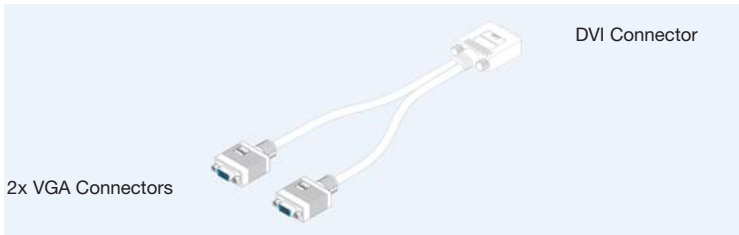
composite video out

s-video out

TV Out Cable CAB-HD15-TVF
(F15953-02)
Suitable for:
Millennium G450 and G550 cards,
Parhelia series and Millennium P750.
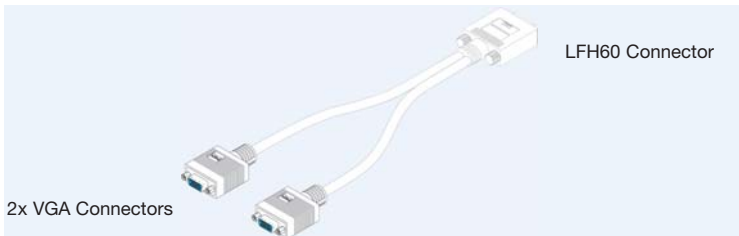Is included in TripleHead Upgrade kit for Millennium P650

DVI Connector

2x VGA Connectors

DVI to Dual Analogue Cable CAB-DVI-2XAF
(F15963-02)
Suitable for:
Millennium G450 DVI graphics card,
Parhelia Series and Millennium P750.
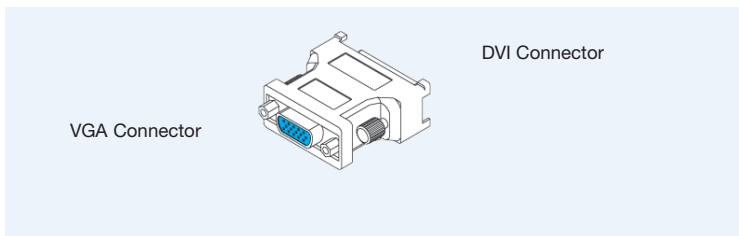Is included in TripleHead Upgrade kit for Millennium P650

LFH60 Connector

2x VGA Connectors

LFH60 to Dual Analogue Cable CAB-L60-2XAF
(F15941-00)
Suitable for:
Millennium G550 AGP Dual DVI,
Millennium G550 LP PCI graphics cards
G200 MMS

DVI Connector

VGA Connector

DVI to HD15 Adapter ADP-DVI-AF
(Adapt 20)
Suitable for:
Parhelia and P-series,
QID Series
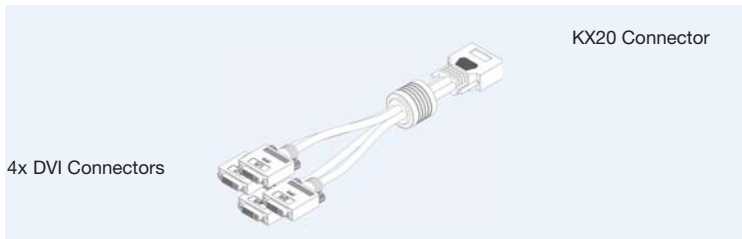Millennium G550 AGP and LP PCI,
G450 AGP/ PCI DVI, G450 MMS,

DVI Connector

1x VGA Connector

1x DVI Connector

DVI to DVI & Analogue Cable
(16090-01)
Suitable for Parhelia APVe only

VGA Connector

component video out
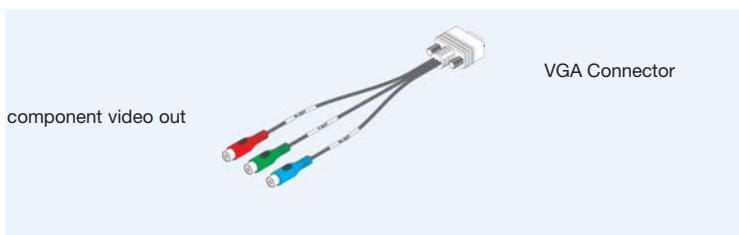
VGA to YPbPr Cable
(16113-00)
Suitable for Parhelia APVe only

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Graphics for Professionals

KX20 Connector

4x DVI Connectors

KX20 to Quad DVI CAB-KX20-4XDF
(16104-01)
Suitable for QID LP PCI and QID LP PCIe

DVI Connector

DVI Connector
s-video in
composite video in
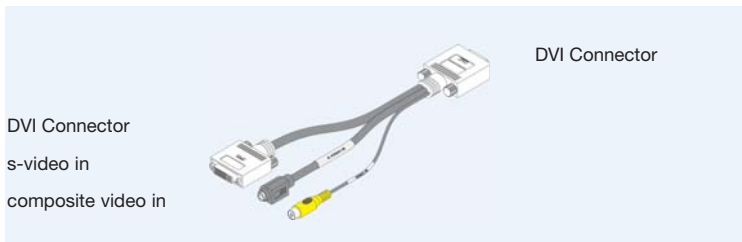
DVI to DVI, S-video & composite Video In
(16079-01)
Suitable for Parhelia 256MB PCI

LFH60 Connector

2x DVI Connector
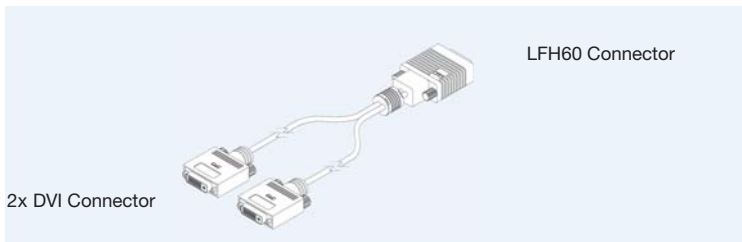
Dual DVI Cable 6ft
(DL-CAB-DVI)
Suitable for:
Millennium G550 AGP Dual DVI
G200 MMS

LFH60 Connector

2x DVI Connectors
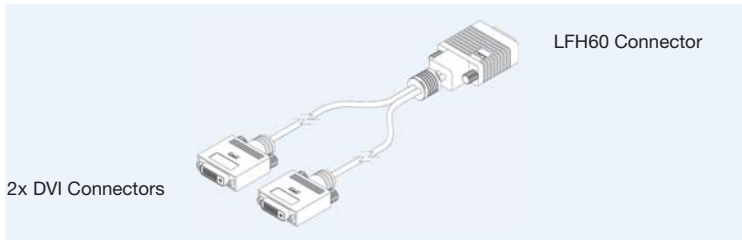
LFH60 to Dual DVI Cable 1ft
(CAB-L60-2XDF)
Suitable for:
QID AGP and QID PRO
G450 MMS Quad and Dual,
Millennium G550 AGP Dual DVI
Millennium G550 LP PCI

LFH60 Connector

2x composite video out
2x s-video out
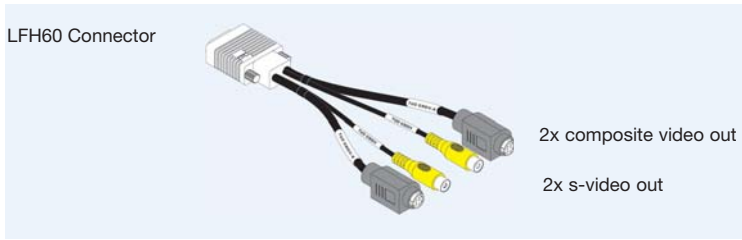
CSV TV Out Cable
(F16027-00)
Suitable for G450 MMS

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Graphics for Professionals

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