



Matrox MED5mp Series - Diagnostic excellence

Providing the high level of image quality and performance required for diagnostic excellence, the Matrox MED5mp-DVI display controllers are ideal for a range of application areas including Picture Archiving and Communication Systems (PACS), X-ray Imaging, Computed Tomography (CT), Magnetic Resonance Imaging (MRI) and Digital Radiography (DR). The Matrox MED5mp-DVI Series features 10-bit capabilities, and supports a variety of up to 5 MP grayscale displays, making them the ultimate solution for precise and accurate display representation.

Main features¹

- Multiple card support for a combination of all grayscale, all color or mix of both grayscale and color displays
- Hardware Pivot provides smooth and accelerated image display
- Hardware cursor support eliminates cursor flicker during cineloops
- No tearing and flicker-free, optimized cineloop playback
- Gamma ramp correction supported independently on both outputs in independent and stretched (NT-style) desktop modes
- Support for native portrait and landscape displays simultaneously
- Use either a 10- or 8-bit frame buffer for 1024 or 256 simultaneous shades of gray
- Bus performance optimized for fast window & level and cineloop applications
- Enhanced features available through Matrox imaging Library (MIL) to enable hardware-accelerated operations such as image cached window/levelling, zoom, rotate, display cloning, and the ability to view 1024 simultaneous shades of gray from 16-bit source images

Technical specifications¹

Bus interface	PCI 64-bit / 66 MHz ²
Dimensions	Short length, full height, PCI 32-bit, 64-bit, or PCI-X card slot ³
Weight	Approximately 0.3 kg
Frame buffer memory	256 MB of high-speed memory for fast image caching and loading
Display support	Dual DVI-I connectors supporting 1 or 2 displays ⁴ (color or grayscale)
Digital communications	DDC-CI (support available for custom EDIDs)
Display calibration	As supplied by each display vendor, or with purchase of 3rd party hardware/software solutions ⁴
Display configurations	Grayscale/Grayscale, Grayscale/Color, Color/Grayscale, Color/Color
Grayscale resolution	From 1.3 to 5 MP up to 2560x2048 (landscape) and up to 2048x2560 (portrait) resolutions
Grayscale settings	8-bit input/10-bit output supporting Fixed Linear, Fixed Non-Linear, or Programmable palettes offering up to 256 distinct shades of gray (256 JNDs) 10-bit input/10-bit output with up to 1024 distinct shades of gray ⁵ Mixed mode 8- or 10-bit grayscale and 32-bit true color
OS support	Microsoft® Windows® XP, Windows 2000, Windows NT 4.0
VGA support	Built-in controller displays boot messages on either a fixed frequency or multi-sync monitor
Software support	Supports OpenGL® 1.3 and/or DirectDraw/DirectX compatible applications
Industry compliance	DICOM Pt 14 grayscale compliant

EMI certifications	FCC Class A, CE Medical Device Directive
Environmental	Operating temperature from 0 to 55 degrees Celsius
Atmospheric	Operating pressure from about 650 to 1013 hPa
Humidity	Operating humidity from 20% to 80%, non-condensing

Product availability, ordering information & support

For more information on the Matrox MED Series, including part numbers, prices and how to purchase, please visit www.matroxmed.com for a list of our worldwide sales offices and partners. Technical inquiries can be submitted by completing the [support form](#).

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- ¹ Support can differ amongst OEM versions
 - ² PCI is backward compatible with PCI 32-bit/33 MHz
 - ³ PCI card will operate in 3.3- or 5-volts slots
 - ⁴ See list of display and partner solutions at www.matroxmed.com
 - ⁵ 1024 simultaneous shades of gray supported with 10-bit displays

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