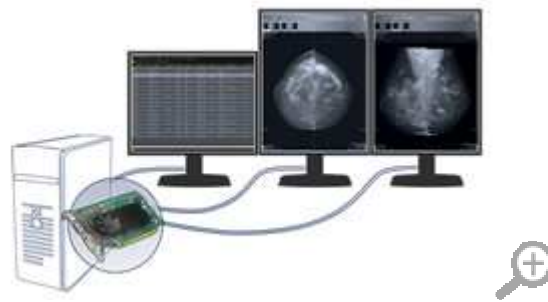


Matrox Xenia Series



Enjoy the view

Matrox Xenia™ Series display controller boards are designed for use in computed radiography (CR), digital radiography (DR), and PACS workstations and support a wide range of display formats, resolutions and configurations. The native PCIe x16 single slot boards feature up to 1 GB of on-board RAM for fast image loading capacity and manipulation and each board can drive up to three high resolution digital displays, minimizing time required to install, configure and deploy imaging workstations. Each digital display output from Xenia and Xenia Pro supports the features listed below, including 8-, 10- and 13-bit independent GAMMA LUTs for precise DICOM calibration of grayscale and color displays, providing more accurate image display for viewing and diagnoses.

	<i>Xenia</i>	<i>Xenia Pro</i>
High Speed Frame Buffer	512 MB	1024 MB
Resolution Navigation Console	Up to 3MP (landscape or portrait)	Up to 4MP (landscape or portrait)
Resolution Imaging Display 1	Up to 3MP (landscape or portrait)	Up to 8MP (landscape or portrait)
Resolution Imaging Display 2	Up to 3MP (landscape or portrait)	Up to 8MP (landscape or portrait)
GAMMA LUTs (per output)	8/10/13-bits	8/10/13-bits
Hardware LUTs (per output)	8/10-bits	8/10-bits
Hardware Window IDs (HWIDs) ²	5 per display output connector	9 per display output connector

- PCIe x16 single-slot board with triple high resolution digital-display output
- DICOM compliant 8/10/13-bit LUT GAMMA ramp correction supported on all outputs in independent and/or stretched (NT-style) desktop modes for accurate display calibration
- Digital Luminance Correction™ (DLC™)¹—enables calibration packages to uniformly calibrate display luminance to well-within industry standards.
- Dynamic Field-of-View Correction (DFC)¹—with appropriate 3rd party applications, DFC reduces color and/or grayscale inaccuracies caused by different viewing angles of LCDs.

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- Image Color Profiling (ICP)¹—allows 3rd party developers to use hardware-enabled ICP with up to 13-bits for accurate color rendering of subtle anatomical image structures.
- Programmable Gamma LUTs supporting 8, 10 and 13-bit wide formats—for the highest calibration, meeting or exceeding DICOM industry standards across the entire display.
- Hardware Window IDs and LUTs—with multiple screen regions available, application can exploit hardware-accelerated window and level functionality on a specified region.
- Hardware pivot and cursor support as well as optimized bus performance and increased memory provide fast and smooth user experience for window & level and cineloops.
- Enhanced features available through Matrox imaging Library (MIL) to enable hardware-accelerated operations such as image cached window/levelling, zoom, and the ability to view 1024 simultaneous shades of gray from 16-bit source images.

Bus Interface	Single slot, PCI Express, 16 lane (PCIe x16)
Dimensions	Short length, full height
Weight	Approximately 0.9 kg (box including board and cable)
Multi-Display Support	Up to three digital displays from a single board. Install multiple Xenia boards to support even more displays
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
Display Configurations	Navigation Console plus two Imaging Displays can be configured independently in any combination of grayscale and/or color modes
Hardware Window IDs (HWIDs)	Support for multiple Hardware Window IDs
Grayscale & Color Settings (bpp)	ExtendiGray®, 8- and 10-bit color, 8- and 10-bit ¹ gray on any output
OS Support	Microsoft® Windows® XP & Vista®
VGA Support	Built-in controller displays boot messages on either a fixed frequency or multi-sync monitor
Software Support	Supports OpenGL® 2.0, DirectDraw, DirectX, GDI and MIL-compatible applications
Industry Compliance	DICOM Pt 14 grayscale compliant
EMI Certifications	FCC Class B
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

- ¹ 10-bit display and 10-bit viewer required to view up to 1024 simultaneous shades of gray

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