

# Matrox TheatreVUE Series



## Projecting excellence

Matrox TheatreVUE T30 and Matrox TheatreVUE T20 display projection controllers are designed to clone any portion, up to the entire main medical display on to a projector, making them ideal solutions for medical presentations, trainings and operating rooms. Matrox TheatreVUE display projection controllers feature high-performance window & level and image load functionality, and produce pristine image quality at high bit-depths and flicker-free output.

- Primary output: Up to 2MP analog/digital, grayscale/color (T20 & T30) and 3 MP digital, grayscale/color (T30)
- Secondary output: Up to 2 MP analog projector (clone any portion, up to the entire primary display)
- Support for two display/projector pairs with multiple PCI boards in a single system
- Pristine image quality at high bit-depths and flicker-free output
- Hardware Pivot provides smooth and accelerated image display
- OpenGL® supported across multiple displays and boards
- Enhanced features available through Matrox Imaging Library (MIL), enabling 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
- Bus performance optimized for fast window & level and cineloop applications
- Hardware Cursor eliminates cursor flicker during cineloops
- No tearing and flicker-free, optimized cineloop playback
- Use either an 8- or 10-bit frame buffer for 256 or 1024 simultaneous shades of gray

<sup>1</sup> Support can differ amongst OEM versions.

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### Distributed by :

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<b>Bus Interface</b>	PCI 64-bit / 66 MHz <sup>1</sup>
<b>Dimensions</b>	Short length, full height, single PCI 32-bit, 64-bit, or PCI-X card slot <sup>2</sup>
<b>Weight</b>	Approximately 0.3 kg
<b>Frame Buffer Memory</b>	256 MB of high-speed memory for fast image caching and loading
<b>Display Support</b>	Dual DVI-I connectors supporting 1 or 2 displays (display 1/display 2: color/color or grayscale/grayscale)  Matrox TheatreVUE T30 supports primary displays of up to 2 MP analog/digital, grayscale/color, and up to 3 MP digital grayscale/color with proper EDIDs, and secondary outputs of up to 2 MP analog, grayscale/color <sup>4</sup>  Matrox TheatreVUE T20 supports primary displays of up to 2 MP analog or digital, and secondary displays of up to 2 MP analog
<b>Digital Communications</b>	DDC-CI (support available for custom EDIDs)
<b>Display Calibration</b>	As supplied by each display vendor, or with purchase of 3rd party hardware/software solutions <sup>3</sup>
<b>Color Resolutions</b>	Maximum color resolution of up to 2 MP
<b>Primary Grayscale Resolution</b>	Matrox TheatreVUE T20 supports up to 1920x1200 (landscape) and up to 1200x1920 (portrait) resolutions  Matrox TheatreVUE T30 supports up to 2048x1536 (landscape) and up to 1536x2048 (portrait) resolutions
<b>Grayscale Settings</b>	8-bit input / 10-bit output supporting Fixed Linear, Fixed Non-Linear, or Programmable palettes offering up to 256 distinct shades of gray  10-bit input / 10-bit output with up to 1024 distinct shades of gray <sup>5</sup>
<b>OS Support</b>	Microsoft® Windows® XP, Windows 2000

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<b>VGA Support</b>	Built-in controller displays boot messages on either a fixed frequency or multi-sync monitor
<b>Software Support</b>	Supports OpenGL® 1.3 and/or DirectDraw/DirectX compatible applications
<b>Industry Compliance</b>	DICOM Pt 14 grayscale compliant
<b>EMI Certifications</b>	FCC Class A
<b>Environmental</b>	Operating temperature from 0 to 55 degrees Celsius
<b>Atmospheric</b>	Operating pressure from about 650 to 1013 hPa
<b>Humidity</b>	Operating humidity from 20% to 80%, non-condensing

<sup>1</sup> PCI is backward compatible with PCI 32-bit/33 MHz, PCI 64-bit/66 MHz and PCI-X

<sup>2</sup> PCI card will operate in 3.3- or 5-volt slots

<sup>3</sup> See an example of a Calibrated Medical Presentation Solution

<sup>4</sup> Up to 3 MP digital output on the Matrox TheatreVUE T30 only

<sup>5</sup> 1024 simultaneous shades of gray supported with 10-bit displays

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