

# Matrox RT2500

More creativity in less time



The "REAL" realtime video editing power of Matrox RT2500 gives you the creative freedom to experiment. Add 3D effects and transitions, design eye-catching graphics and titles, customize your effects – you can do it all. Instantly. And there's no penalty for changing your mind. It's fast, it's easy, and you get exactly the look you want, every time. Whether you're creating corporate promos, digital films, interactive training, wedding videos, or home movies, Matrox RT2500 is right for you.

## REAL realtime editing

Matrox RT2500 offers more professional features than any other video editing card in its class. "REAL" realtime means you work with two video streams and a graphics layer, simultaneously, in real time. On any of the three layers, you can add particle effects, 3D tiles, distortion effects, 2D and 3D DVE, and transparency effects – in real time, **NO RENDERING!**

## Edit once, deliver anywhere

Matrox RT2500 lets you work with all the input/output connections and formats you'll need to get the most from your editing system. Capture from analog or DV tape. Edit once, then output anywhere. Deliver on tape, DVD, CD, and the web.

## Key features

- True three-layer realtime editing two video layers plus a graphics layer simultaneously
- Realtime, broadcast-quality, keyframeable 3D digital video effects powered by Matrox Flex 3D
- Native DV, DVCAM, DVCPRO, and MPEG-2 editing
- Analog and digital video input/output Y/C, composite, 1394
- Accelerated MPEG-2 output for DVD and CD authoring
- Accelerated MPEG-1 output for multimedia and Video CD authoring
- RealVideo, Windows Media, and QuickTime output for web video streaming
- Complete content creation software bundle

realtime editing . dvd authoring . web streaming

**matrox**  
Digital Video Solutions

## More creativity in less time



### Capture

Capturing video to the hard disk in your computer is the first step in nonlinear video editing. The new Matrox MediaTools application fully automates the DV capture process saving you hours of valuable time. It automatically scans, logs, and batch captures clips, unattended. It also lets you capture still frames to easily create photo montages.

Matrox RT2500 lets you work with both analog and digital equipment to get the most from your editing system. You can even mix clips captured from analog video with native-DV clips in the same project.

If you're using DV equipment, Matrox RT2500 lets you take advantage of the full video-quality potential of your DV camera. Its built-in 1394 port lets you digitally transfer your DV footage to your editing system in its native DV format so there's no recompression or transcoding that can degrade the quality of your video.

If you're working with analog equipment you can choose to capture in DV or in MPEG-2. MPEG-2 I-frame editing lets you capture at high compression ratios so you can fit more video on your hard disk. It's great for off-line editing of long-form programs. RT2500 also lets you capture MPEG-2 IBP clips in real time for immediate use in your DVD authoring program.

# 2

## Edit in real time

As a video editor, your goal is to complete the greatest number of projects, with the highest production values, in the shortest possible time, and have fun doing it. Editing is more productive and more enjoyable when your editing system lets you see the results of your edit decisions immediately; when you have complete creative control; when you AVOID RENDERING!

Matrox RT2500 lets you work with two video streams plus a graphics/title track, all at the same time, with maximum creative freedom. It delivers over 1,000 realtime, broadcast-quality 2D and 3D digital video effects and transitions including page curls, organic wipes, particle effects, distortions, 3D tiles, and 2D and 3D DVEs with customizable drop shadows, soft edges, and color borders. You can even use key frames to size, position, and rotate your clips in real time to get exactly the look you want. Over 60 of Adobe Premiere's native transitions can also be used in real time.



If you're into effects, Matrox RT2500, with its vast repertoire of dazzling realtime transitions and filters, is definitely the editing platform for you. But even if you prefer a more conservative look, you can still save countless hours of rendering thanks to RT2500's true three-layer realtime editing architecture and essential realtime capabilities such as transparency, colorization, cropping, picture-in-picture, and realtime title preview.

# 3

## Deliver anywhere

Matrox RT2500 lets you easily deliver your project in any format you need.

- Record to analog or DV tape.
- Output MPEG-2 files for use in your DVD authoring program.
- Use the bundled Ligos LSX MPEG LE software to quickly output MPEG-1 files for multimedia and Video CD authoring.
- Create web video streams in RealVideo, Windows Media, and QuickTime directly from your Adobe Premiere timeline.





## Complete Content Creation Solution

The Matrox RT2500 bundle includes the video editing card, a breakout cable for your analog audio and video connections, a 1394 cable, and all the industry-leading applications you need to complete your video productions.

- Adobe Premiere** for realtime nonlinear editing
- Inscriber TitleExpress** for television-quality titling
- Sonic Foundry ACID Music** for music track production
- Sonic Solutions DVDIt! LE** for DVD authoring
- Adobe Photoshop LE** for graphics creation
- Pixélan Video SpiceRack Lite** for organic transitions
- Matrox DVD Player** for computer playback of DVD discs
- Matrox MediaTools** for automated tape scan and capture
- Terran Media Cleaner 5 EZ** for web video output
- Ligos LSX MPEG LE** for accelerated MPEG-1 output

## Matrox RT2500 Specifications

### Minimum System Requirements

- Microsoft Windows Me or Windows 2000
- Intel Pentium II CPU, 350 MHz or AMD Athlon CPU\*
- 256 MB physical memory (RAM)
- Free PCI Slot
- Display card (Matrox Millennium G450 recommended)
- 500 MB of free space for software installation on system drive
- Separate hard drive for A/V content
- 16-bit sound card
- CD-ROM drive for software installation
- Video camera or VCR

\* Certain complex realtime effects may require a Pentium III or AMD Athlon CPU running at 750 MHz or faster.  
Visit our web site for a complete list of validated computers, motherboards, display cards, storage devices, and cameras.

[www.matrox.com/video](http://www.matrox.com/video)

### Corporate Headquarters

Matrox Video Products Group  
1-800-361-4903 (US and Canada)  
tel: (514) 685-2630  
e-mail: [video.info@matrox.com](mailto:video.info@matrox.com)

### Europe, Middle East & Africa

Matrox Video & Imaging Technology  
Europe Limited  
tel: +44 (0) 1753 665577  
e-mail: [video.info.emea@matrox.com](mailto:video.info.emea@matrox.com)

### France

Matrox France SARL  
tel: +33 (0) 1 45 60 62 00  
e-mail: [infovideo.br@matrox.com](mailto:infovideo.br@matrox.com)

### Germany

Matrox Electronic Systems GmbH  
tel: +49 (0) 89 621 70 570  
e-mail: [video.info.emea@matrox.com](mailto:video.info.emea@matrox.com)

### Asia Pacific

Matrox Beijing Representative Office  
tel: (86-10) 6256-4853  
e-mail: [myang@matrox.com](mailto:myang@matrox.com)

Matrox Electronic Systems Ltd. reserves the right to make changes in specifications at any time and without notice. Matrox is a registered trademark and Matrox RT2500, and Matrox Flex 3D are trademarks of Matrox Electronic Systems Ltd. Other product names mentioned in this document may be registered trademarks or trademarks of other companies. \$VE-5217-B

### General

- |                       |                                |
|-----------------------|--------------------------------|
| PCI interface         | RT2500 3/4 size PCI codec card |
| Regulatory compliance | FCC Class B, CE Mark Class B   |

### Video features

- |               |  |
|---------------|--|
| Inputs        | 1394 6-pin<br>composite video (CVBS), RCA jack<br>S-video (Y/C), mini-DIN<br>NTSC, PAL, and SECAM                              |
| Outputs       | 1394 6-pin<br>composite video (CVBS), RCA jack<br>S-video (Y/C), mini-DIN<br>NTSC and PAL                                      |
| Video formats | ITU-R 601 YUV 4:2:2<br>NTSC: 720 x 480 at 30 frames/sec<br>PAL/SECAM: 720 x 576 at 25 frames/sec<br>4:3 and 16:9 aspect ratios |
| Video overlay | programmable NTSC and PAL video-in-a-window<br>support on console at 60/50 fields/sec  |

### Audio features

- |                  |   |
|------------------|---|
| Genlock to video | SMPTE-272M and AES11-1991 compliant                   |
| Analog audio I/O | unbalanced stereo I/O (1 pair RCA in, 1 pair RCA out) |
| Sampling method  | 16 bit, 48 kHz, 128X oversampling                     |

### Video codec

- |              |  |
|--------------|--|
| Multi-format | C-Cube DVxpress-MX25 codec supports single stream capture and dual-stream playback DV, DVCAM, DVCPR<br>NTSC 4:1:1, PAL 4:1:1 and 4:2:0<br>MPEG-2 4:2:2 I-frame from 10 to 25 Mbps<br>MPEG-2 MP@ML IBP output |
|--------------|--|