

# Matrox RTMac

Realtime editing and effects for the Power Mac G4



Matrox RTMac brings realtime power and creative freedom to Apple Final Cut Pro users. A Matrox RTMac in your Apple Power Mac G4 lets you work with three layers of video and graphics in real time and create broadcast-quality effects instantly — NO RENDERING!

## Realtime creativity

Realtime editing lets you experiment to your heart's content. There's no penalty for changing your mind. Try out any number of different effects and transitions. View them instantly on your computer and video monitors simultaneously. Get exactly the look you want every time.

Matrox RTMac is powered by Matrox Flex 3D, a revolutionary video mixing and effects architecture that exploits the explosive performance of award-winning Matrox graphics accelerator technology to provide a wide variety of broadcast-quality digital video effects in real time. With Matrox RTMac and Final Cut Pro, video transitions and keyframeable motion effects happen instantly.

## Enhanced productivity

In addition to the productivity boost you get from realtime editing, the RTMac also brings you other important benefits to streamline your workflow.

Matrox RTMac complements Apple FireWire support built into Power Mac G4 computers with analog video capture and output. Using the RTMac breakout box, you can digitize source material from analog devices to use in your DV editing projects and record your finished projects to videotape for distribution. You also get full resolution viewing on an NTSC or PAL video monitor without connecting a DV device to your Power Mac G4.

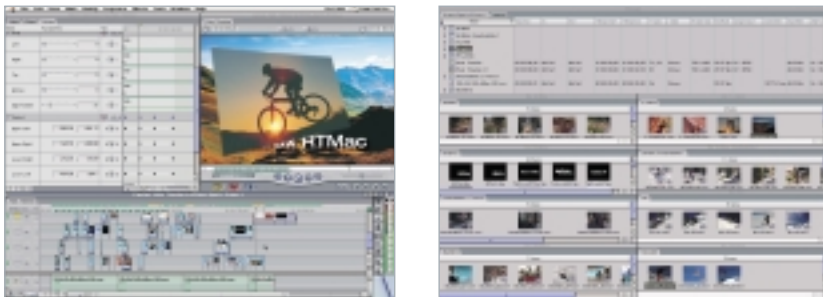
Dual-screen editing is an added benefit of Matrox RTMac. Simply connect a second computer monitor to increase your Final Cut Pro workspace.

## Key features

- Three-layer realtime editing
- Realtime broadcast-quality effects and transitions powered by Matrox Flex 3D
- Native-DV editing
- Analog Y/C and composite input/output complements FireWire support built into the Power Mac G4
- Digital video on console display and simultaneous full-resolution viewing on your NTSC/PAL monitor
- VGA display output drives a second computer monitor for dual-screen editing
- 48 KHz stereo audio input/output genlocked to video

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## Realtime native-DV editing

- Three-layer realtime editing - work with two video layers and one graphics layer OR two graphics layers and one video layer simultaneously.
- Linear alpha keying - overlay titles, logos, and graphics on video in realtime.
- 16:9 support - edit in wide screen format.

## Broadcast-quality effects powered by Matrox Flex 3D

- Realtime transitions - apply a cross dissolve, wipe, slide, or iris effect between two video layers or a video layer and a graphics layer.
- Realtime motion effects - use practically any Final Cut Pro keyframeable motion effect on a video or graphics layer including scaling, rotation, position, cropping, distortion, drop shadow, and opacity.

## Versatile capture and output

- Native DV support - use Final Cut Pro and your G4 FireWire ports to bring in your source material and export back to DV tape without transcoding.
- Y/C (S-Video) and composite video capture/output - digitize video to DV from analog sources to mix with your native DV sources. Record your finished program to tape using any standard VHS or S-VHS VCR.
- 48 kHz unbalanced stereo RCA audio capture/ output - digitize audio while maintaining perfect sync with video.



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Matrox RTMac was developed through close collaboration between Matrox and Apple. It is fully optimized for Final Cut Pro and seamlessly integrates into Power Mac G4 computers. The incredible productivity boost you get with Matrox RTMac will leave you wondering how you ever managed without it.

## Matrox RTMac Specifications

### System Requirements

Single or multiprocessor Power Mac G4 with AGP motherboard  
400 MHz or faster PowerPC G4 processor  
256 MB RAM  
One free PCI slot  
Final Cut Pro 2.0  
QuickTime 5.0  
Mac OS 9.1

Visit our web site for complete details and updates.

### General

PCI interface: RTMac 3/4 size PCI codec/display card  
Regulatory compliance: FCC-B and CE-B compliant

### Video Codec

Multi-format: mini DV, DV, DVCAM, DVCPRO  
NTSC 4:1:1, PAL 4:1:1 and 4:2:0

### Video Features

Inputs: composite video (CVBS)  
RCA jack S-video (Y/C), mini-DIN composite video (CVBS)  
Outputs: RCA jack S-video (Y/C), mini-DIN composite video (CVBS)  
Video formats: ITU-R 601 YUV 4:2:2  
NTSC 720x486 at 29.97 frames/sec  
PAL 720x576 at 25 frames/sec  
Video overlay: programmable NTSC and PAL  
video-in-a-window support  
on console at 30/25 images per second

### Audio Features

Genlock to video: audio clock locked to video clock for perfect sync  
Analog audio I/O: unbalanced stereo I/O  
(1 pair RCA in, 1 pair RCA out)  
Sampling: 16 bit, 48 kHz, 64X oversampling

### VGA display

Output: standard 15 pin VGA connector

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

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