



# Macintosh PowerBook DVD-Video Kit

Vivid digital video. Crystal-clear digital audio. Massive storage capacity for data and multimedia. The world is moving to DVD technology, and you can catch the excitement with the Macintosh PowerBook DVD-Video Kit.

Unlike consumer DVD players, this complete PowerBook-based solution retains your access to current CDs while adding DVD-ROM and DVD-Video capability. So you can enjoy today's hottest movies as well as multimedia titles, educational materials, games, and your other favorite discs.

The Macintosh PowerBook DVD-Video Kit contains a PowerBook G3 Series DVD-ROM Expansion Bay Module, a Macintosh PowerBook DVD-Video PC Card, and Apple DVD Player software. The DVD-ROM expansion bay module is an extremely versatile drive that can play CD-ROMs, audio CDs, and other types of CDs in addition to DVD discs. The PC Card adds the ability to play DVD movies (discs formatted to the DVD-Video specification). And the software provides an intuitive interface for easily controlling DVD movies.

Because the DVD-Video Kit is designed especially for Macintosh PowerBook G3 Series computers, you can enjoy the benefits of DVD and CD access wherever you are—such as on long airplane flights. If you're near a larger computer monitor or a TV, you can even view discs on one of those devices instead of on the built-in PowerBook display. Similarly, you can listen to movies on the stereo speakers built into your PowerBook, or connect the computer to an external stereo or Dolby Pro Logic surround-sound system for an enhanced audio experience.



## Features

### Complete DVD solution

- DVD-ROM drive (CD-compatible)
- DVD-Video PC Card
- DVD Player software

### Stunning playback of digital movies

- Provides superb digital video and audio
- Lets you view movies on an external monitor or television

### Access to popular DVD and CD formats

- Lets you use CD-ROM, audio CD, Photo CD, CD-R, and CD-i discs in addition to DVD-ROM and DVD-Video discs
- Accesses CD-ROM discs at up to 12x speed and DVD discs at up to 1.5x speed

### Easy-to-use video control software

- Provides easy access to all DVD movie functions
- Lets you quickly select different audio tracks, movie formats, subtitles, or captions (when subtitles and captions are provided on the disc)
- Permits slow-motion, high-speed, and freeze-frame playback
- Supports the Motion Picture Association of America (MPAA) rating system for controlling access to viewing movies



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## **A superior CD and DVD solution for every user**

The Macintosh PowerBook DVD-Video Kit offers solid benefits for business, education, and home users.

The huge capacity of DVD discs makes them ideal for distributing massive amounts of business-related information. Comprehensive sales information including text, graphics, and videos of products in action could be put on a DVD disc for use by mobile personnel, giving them instant access to vital sales information wherever they are. For service and support organizations, a single DVD disc could potentially contain all relevant manuals with animations and videos of maintenance, diagnostic, and repair procedures. And because the Apple DVD drive can also play CDs, you'll retain access to your commercial and custom CD-based materials.

In education, the DVD-Video Kit will allow students and faculty to continue to enjoy CDs while adding exciting new capabilities, such as putting an entire curriculum on a single disc.

Home users will enjoy the superb video and audio of the movies now being released on DVD-Video discs. And as more educational and entertainment titles become available on DVD discs, you and your children will be able to view more exciting multimedia adventures than ever before.

## **About DVD technology**

Whether you need the benefits of high-capacity DVD-ROM storage or want to enjoy your favorite DVD movies wherever you are, the Macintosh PowerBook DVD-Video Kit brings you the best of the exciting new DVD technology.

DVD (which stands for "digital video disc" or "digital versatile disc") technology offers a dramatic increase in storage capacity over CD technology. In fact, a single DVD disc can hold the same amount of data that would fill as many as 25 CD-ROMs.

DVD-Video is the exciting offspring of the laserdisc format long favored by movie buffs, educators, and multimedia professionals. It makes it possible to put outstanding video and audio on discs the size of standard CD-ROMs. DVD-Video discs feature state-of-the-art MPEG-2-encoded video and Dolby Digital audio.

A DVD-Video disc can not only play back movies as a VCR does, but can also provide advanced features such as subtitles, captions, audio tracks in different languages, a director's narration, multiple viewing angles, and scene preview functions. And different locations on a DVD movie disc can be accessed immediately, unlike with videotape.

Some DVD-Video discs even contain versions of the movie in both pan-and-scan (full screen) and letterbox (original theatrical aspect ratio) viewing formats. Some have a director's cut version with footage not contained in the original theatrical release. On discs that support Motion Picture Association of America (MPAA) rating codes, parents and teachers can limit access to films at or below a certain rating.

## **Apple DVD Player software**

Apple DVD Player software, based on Apple's award-winning QuickTime 3 technology, gives you easy access to basic functions like start, stop, and play, in addition to advanced features such as progressive slow motion, step frame, language preferences, subtitles, and multiple-angle viewing. You can access these features via an intuitive, orb-shaped on-screen controller, menu commands, or keyboard shortcuts.





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## Technical Specifications

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### PowerBook G3 Series DVD-ROM Expansion Bay Module

- Disc formats supported: DVD-ROM, DVD-Video, ISO-9660, CD-ROM, audio CD, Photo CD, CD-R, and CD-i
- Access speeds: CD-ROM discs at up to 12x, DVD discs at up to 1.5x

### Macintosh PowerBook DVD-Video PC Card

- Interface: 16-bit Type II Zoomed Video PC Card (placed in the lower PC Card slot)
- Power: 1.5W maximum, 3.3V
- Video decoding standard: MPEG-2
- Video format: NTSC interlaced
- Display output resolution: 720 by 480 pixels at 30 Hz
- Frame rate: 30 frames per second
- DVD compatibility: Universal Data Format (UDF) and ISO-9660
- Audio format: Dolby Digital 5.1 (AC-3) mixed to two-channel Dolby Pro Logic surround sound
- Audio output channels: Two

### Apple DVD Player software

- Information display options: Status, title number, chapter number, elapsed time, remaining time
- Forward playback speeds: 1/8, 1/4, 1/2, 1x, 2x, 8x, and freeze frame
- Backward playback speeds: 2x, 8x
- Disc access controls: Based on MPAA ratings (G, PG, PG-13, R, and NC-17)
- DVD-Video disc region compatibility: United States and Canada (Region 1)
- Copy protection controls: CSS disc authentication and Macrovision support

### System requirements

To use the Macintosh PowerBook DVD-Video Kit, you need:

- A Macintosh PowerBook G3 Series computer
- At least 32MB of RAM
- Mac OS 8.1 or later (U.S. English version only)
- QuickTime 3 software (automatically installed with Apple DVD Player software)

- One of the following display options:
  - PowerBook built-in active-matrix TFT display\*
  - Compatible with monitor connected to the VGA video output connector
  - NTSC- or PAL-compatible television with composite or S-video input. Connection to the PowerBook system is through the S-video output port on most models.

*\* If you have a PowerBook G3 Series computer with a passive-matrix (STN) display, we recommend that you view DVD-Video discs on an external monitor.*

## Ordering Information

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### Macintosh PowerBook DVD-Video Kit

Order No. M7164LL/A

- PowerBook G3 Series DVD-ROM Expansion Bay Module
- Macintosh PowerBook DVD-Video PC Card for the PowerBook G3 Series
- Apple DVD Player software

### Macintosh PowerBook DVD-Video PC Card for the PowerBook G3 Series (with Apple DVD Player software)

Order No. M6664LL/A

If you already have the DVD-ROM Expansion Bay Module in your PowerBook G3 Series computer, all you need to play DVD movies is the DVD-Video PC Card and accompanying software. Check with your authorized Apple reseller or order directly from the Apple Store.

### For more information

For more information about these products, or to find out where to buy Apple products, visit [www.apple.com](http://www.apple.com) on the World Wide Web or call 1-800-538-9696. To purchase these products from the Apple Store, go to [www.apple.com/store](http://www.apple.com/store).