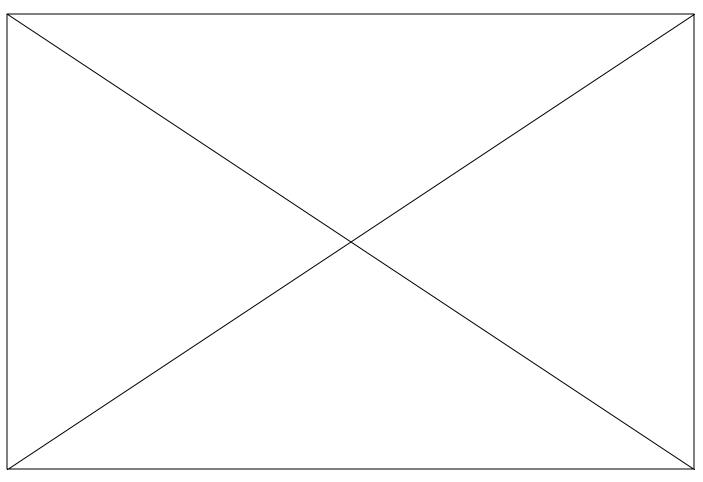
# Magintosh System Software Version 7.0





### Overview

Macintosh System Software Version 7.0, the new Macintosh standard for personal computing, brings dynamic new capabilities and greater ease of operation to everyone who uses an Apple Macintosh personal computer. System 7 offers immediate advantages to users of any Macintosh with 2 megabytes of memory and a hard disk drive, and it paves the way for a new generation of powerful application software.

You'll find that System 7 builds on the basic capabilities that distinguish the Macintosh from other personal computers. System 7 strengthens the computer's familiar, commonsense way of working that gives you direct, intuitive access to the computer's resources.

Because many of System 7's new features work with current Macintosh applications, you can take advantage of them right away. True Type fonts, for example, give you sharp-looking text in all your current applications—

on screen and on your printer. A new version of the Finder gives you easier and faster access to your folders and documents. Multitasking, now standard to the Macintosh experience, allows you to work with several programs at the same time and even continue working while the computer performs other tasks. And System 7's virtual memory capability allows you toopen more applications simultaneously without having to buy additional RAM.

System 7 also provides easier network access with built-in Macintosh file sharing. You can easily share files and folders with other Macintosh users on the same network without having to dedicate a Macintosh for use as a file server. And the innovative Balloon Help' feature makes it easy to learn as you work; you can interactively find out about Macintosh features simply by pointing at something on the screen. And since developers are building Balloon Help into new versions of their Macintosh applications, you can easily learn about and take better advantage of your software.

New versions of Macintosh applications will allow you to take advantage of other new System 7 capabilities such as Publish and Subscribe and Data Access. Publish and Subscribe helps you keep information up-to-date by providing an automatic link between documents—between a spreadsheet and a report, for example. Changes in one document are automatically reflected in the other, even over a network. And Data Access provides better access to remote host databases.

Macintosh users can easily upgrade to System 7, retaining their investment in both their applications and their Macintosh expertise. Upgrade kits are available for both individuals and groups of Macintosh users, and each upgrade kit includes toll-free phone support. Other support programs are also available.

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### **Benefits**

Features available with current Macintosh applications	Compatibility with current Macintosh applications and utilities	<ul> <li>Lets you run most Macintosh software.</li> <li>Preserves and enhances your investment in software, hardware, information, and training.</li> </ul>
	· Multitasking	<ul> <li>Lets you use two or more applications at the same time and switch among them easily.</li> <li>Allows you to continue working on other tasks while printing a document, copying or transferring files, sorting databases, recalculating spreadsheets, etc.</li> </ul>
	· Cut, Copy, and Paste	<ul> <li>Allows you to move information back and forth between all Macintosh applications with exe.</li> <li>Allows you to use the most appropriate application for your work.</li> </ul>
	· Virtual memory*	<ul> <li>Allows you to open more applications without adding RAM.</li> </ul>
	· 32-bit addressing**	<ul> <li>Lets you use more than 8 megabytes of RAM on certain models of Macintosh.</li> <li>Makes it possible for you to work with very large applications, complex graphic documents, and data-intensive applications.</li> </ul>
	· Finder, including:	
	–Find command	<ul> <li>Quickly locates files on your hard disk.</li> <li>Lets you search for files by name, size, kind, date, and other criteria.</li> </ul>
	-Customizable Apple menu	<ul> <li>Lets you add your own programs and documents to the Apple menu for quick, one- dick access.</li> </ul>
	–Alias capability	<ul> <li>Allows you to file an application or a document in more than one place on your hard disk.</li> <li>Allows you to access your hard disk when working at another Macintosh computer on the same network.</li> </ul>
	· TrueType outline fonts	<ul> <li>Lets you work with multiple sizes of precision fonts on the screen.</li> <li>Helps you produce professional-quality documents on any printer.</li> <li>Allows you to install fonts simply by dragging their icons into the System Folder.</li> </ul>
	· Balloon Help	<ul> <li>Provides "learn as you work" help.</li> <li>You simply point to something on the screen; balloons appear to identify and describe the feature.</li> <li>Allows you to get help while you work, without stopping what you're doing.</li> </ul>

<sup>\*</sup> Virtual memory is supported by Macintosh computers with a 68030 microprocessor and Macintosh II computers with both a 68020 microprocessor and a 68851 Paged Memory Management Unit (PMMU).

\*\* 32-bit addressing is available on the following Macintosh models: Macintosh LC, Macintosh IIsi, Macintosh IId, and

Macintosh Ilfx.

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# **Benefits**

	·Macintosh file sharing	<ul> <li>Allows workgroups to share folders and files without the expense of a dedicated server.</li> </ul>
		<ul> <li>Permits you to use the network to retrieve files from your office when working in anothe location.</li> </ul>
		<ul> <li>Lets you share files with System 6 Macintosh computers and, with third-party products, with MS-DOSŠ or Windows-based computers.</li> </ul>
Features available with new versions of Macintosh applications	Publish and Subscribe	<ul> <li>Allows you to automatically update information by creating links between documents—a spreadsheet and a report, for example—so that changes made in one document are automatically reflected in the other.</li> <li>Streamlines the revision process.</li> <li>Lets you work with the most current information.</li> <li>Makes it easier for people to work together, because Macintosh users can update documents across the network.</li> </ul>
	Data Access capability	<ul> <li>Provides built-in access to remote host databases.</li> <li>Allows you to extract data from remote mainframes using one familiar Macintosh interface.</li> </ul>
	· 32-bit QuickDraw graphics	<ul> <li>Produces screen images of true photographic quality by enabling color systems to display up to 16 million colors simultaneously.</li> <li>Allows the creation of highly detailed renderings, simulations, and animation sequences.</li> </ul>
	Sound input	Allows you to add voice comments to voice-capable word processing, spreadsheet, presentation, and other documents.
Upgrade Kit features	· "Before You Install" disk	<ul> <li>Prepares you for System 7 by introducing new features and checking your system for compatibility.</li> <li>Provides a printed compatibility report of your system.</li> </ul>
	· Installer	<ul> <li>Allows convenient, one-click installation of system software, even across a network.</li> <li>Saves time when upgrading many computers.</li> </ul>
	Networking Basics Tour	Makes it easy to understand and use the networking features of System 7.

### Product Specifications and Details

Upgrade products
Two kits are available for Macintosh
users who want to upgrade to System
7. The System 7 Personal Upgrade Kit
is for individuals who want to upgrade a single Macintosh to System 7.
The System 7 Group Upgrade Kit is
designed for users who want to

upgrade a group of Macintosh computers to System 7. Both upgrade kits include the "Before You Install" disk, which simplifies installation and checks for application compatibility with System 7.

The Group Upgrade Kit contains special materials and tools to help

you move a group or entire installation of Macintosh computers to System 7. The kit includes the System 7 Group Upgrade Guide, which has upgrade strategies and information; a CD-ROM disc containing version 7.0 software, which allows System 7 to be installed across the network and

administrator tools.

To help customers with questions about System 7, each upgrade kit includes direct, toll-free telephone upgrade support. Other support programs are also available.

#### New Features at a Glance When opening and saving New features of Finder windows, The Startup Items folder The Balloon The Application menu such as keyboard navigation and documents, it's easier to lets you launch items at Help facility makes it easy to switch gives you information choose among items on the outline views of folders, make it startup simply by placing amongseveralopen Macintosh desktop. easierto selecticons. them in the folder. as you work. programs. You can assign labels to icons. Macintosh file sharing lets you share folders on a hard disk with other users on the network without a dedicated file server. Control panels let you set options in your system. The Find command quickly locates files and brings them to the desktop. Automatic document updating is available with new Macintosh applications. You can open deskaccess bries by double-clicking their icons. Items in the System Folder are organized into intelligent folders. New system tools are automatically placed in the correct location. You can create custom ico Stationery pads The Apple Menu Virtual memory Fontsand The Trash Aliases give let you easily you access to Items folder lets lets most sounds are is n't emptied create documents untilyouchoose documentsand you add docu-Macintoshusers easier to install withcommon expand system and remove; the Empty Trash applications from mentsorapplielements. cations to the memorywith simply drag their command. two or more Apple menuby hard disk space. icons into or locations in the svstem. draggingicons out of the System file. into the folder.

Built-in fonts
Two types of fonts are supplied with
System 7: TrueType fonts
and bitmapped fonts. TrueType
fonts include: Times°Š (plain, bold,
italic, and bold italic), Helvetica°Š
(plain and bold), Symbol, Courier
(plain and bold), Chicago, New York,
Monaco, and Geneva.

Print drivers
ImageWiter\*Š Diver, LæerWiter\*Š
Diver, Personal LæerWiter LS
Diver, Personal LæerWiter SC
Driver, ImageWriter LQ Driver, Apple
StyleWriter\*Š Driver, AppleTalk\*Š
ImageWriter Driver, and AppleTalk
ImageWriter
LQ Driver are included with
Svstem7.

Networking capabilities

AppleTalk network system

- Media supported LocalTall<sup>®</sup> Š
   Ethernet (EtherTall<sup>®</sup> Š), or TokenRing (TokenTall<sup>®</sup>)
- Maximum number of nodes per network: Over 16 milion with AppleTalk Phase Il networking
   Macintosh file sharing
- Maximum number of shared

folders per machine: 10, with an unlimited number of enclosed folders

- Maximum number of guest users connected: 10, with up to 50 identified in the Users & Groups file
- User Management: Built-in; specify user names, passwords, group membership, access privileges (open, read, modify)

## Product Specifications and Details

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- Accessible memory with 24-bit addressing: Up to 8MB of physical memory; up to 14MB with virtual memory
- Accessible memory with 32-bit addressing: Up to 1 gigabyte of physical memory; up to 1 gigabyte of virtual memory (maximum installable memory in Macintosh Ilfx and Ilci is 128 MB)

Performance characteristics Application compatibility

- Compatible with most Macintosh System 6 applications
   Processor compatibility
- Compatible with 68000, 68020, and 68030 miorprocessors, 68861 Paged Memory Management Unit (PMMU), and 68881 and 68882 floating point units (FPUs)
   Memory (RAM)
- Required: Minimum 2 MB of RAM

· Used: 1 to 1.25 MB, depending on CPU configuration

#### Diskuse

- Space consumed: Approximately 25 to 4 MB, depending on configuration
- Formats supported 400K, 800K, 1.4 MB Macintosh disks; read/write 720K and 1.44 MB MS-DOS or OS/ 2 disks.
- File name format: Up to 31 characters with mixed case, spaces, and symbols

- Maximum file and volume size:
   4 gigabytes
- Maximum number of files per volume: 65.536
- Maximum number of volumes open at once: Unlimited\*
- Maximum number of tasks supported: Unlimited\* Saund
- Play from disk and input to disk
- Meximum number of channels of sound simultaneously: 4
- \*Limited only by available system memory

### The Finder

The Finder displays all of the pull-down menus and icons needed to manage files, folders, disks, and applications in the Macintosh and over a network. Some of the capabilities in the System 7 Finder include:

Applemenu Choose Control Panels, desk accessories, and other

user-selected items.

Monitormemoryusage.

File menu Locate files by name, date, size, label, or kind.

Open applications, documents, and folders.

Print documents and directories. Share folders with other users.

Make an alias for an application, document, or folder. File information for an application or document; adjust memory usage of an application; turn a

document into stationery.

Edit menu Cut, Copy, and Paste information.

Viewsmenu View the contents of a Finder window by icon, name,

size, kind, date, or label.

View an outline of the contents of a folder.

Labelsmenu Assign labels or colors to icons.
Specialmenu Clean upwindows and desktop.

Sort by icon, name, size, kind, date, or label. Erase the contents of floppy disks and hard disks.

Restart and shut down the computer.

Helpmenu Display information about items on the screen.

Application menu Switch among open applications.

Hide and show programs.

Trash container Discard files and folders.

#### Deskaccessories

Chooser Select among printers, file servers, and other

network resources.

KeyCaps Display characters of different fonts.

Alarm Clock Clock/calendarwithalarm
Calculator Four-function calculator
Puzzle Classic 15-tilegame

 NotePad
 Eight pages of "scratch paper" for text

 Scrapbook
 Storage for frequently used graphics and text

 Battery
 Battery charge indicator on Macintosh Portable\*\*

### Control Panels

Macintosh control panels make it possible to change many of the standard settings for the Macintosh. Special control panels are supplied with some Macintosh models. The standard set of System 7 control panels includes:

General controls

Set des ktop pattern and color, time, date, and volume

Startup Device

Select the disk drive to be used for startup.

Mouse

Set mouse speed and responsiveness.

Keyboard

Set keyboard repeat rate and layout for

international use.

Monitors Choose the number of colors/grays to display.

Specify positions of multiple monitors.

Brightness Setscreen brightness.\*\*

Color Select highlight and window color.

Memory Increase system memory by using hard disk space,

set the disk cache, and turn on 32-bit addressing

on supporting Macintosh models.

Labels Customize labels in the Finder.

Vews Customize icons and information in Finder windows.
Sharing Setup Identify the Macintosh to the network, start file

sharing, and turn on program linking.

Network Specify network cabling system to use (LocalTalk,

EtherTalk, or TokenTalk).\*\*

Users & Groups Administer names and passwords of users with

whom files and folders will be shared.

File Sharing Monitor Monitor file sharing activity.

Sound Specify system alert sound and, on some models,

inputsounds.

Map Set physical location and time zone.

EasyAccess Keyboard operation for physically impaired users
CloseView Screen magnifier for visually impaired users
Portable Special settings for the Macintosh Portable\*\*
International Specifytime, date, currency format, and script system.

Utilities

Apple File Exchange Convertiles from other operating systems such as

MS-DOS.

Disk First Aid Disk diagnostics and repair

LaserWriter Download one or more fonts to an Apple

Font Utility LaserWriterprinter.

TeachText Simple text editor

Apple HDSC Setup Apple SCSI hard disk initialization

<sup>\*\*</sup> Available with certain Macintosh models



# Macintosh System Software Version 7.0

System Requirements	To use Macintosh System Software Version 7.0, you'll need the following:	AMacintosh Plus, Classic*, SE, SE/30, Portable, LC, II, IIx, IIcx, IIsi, IIci, or Ilfx personal computer with at least 2 megabytes of RAM and a hard disk     AMacintosh 128K, 512K, or 512K-enhanced personal	computer with a Macintosh Plus Logic Board Upgrade, at least 2 megabytes of RAM, and a hard disk Note: Those who are using the built-in video capabilities of a Macintosh Ilsi or Macintosh Ilci may want to add RAM when upgrading to System 7.
Ordering Information	System 7 Personal Upgrade Kit* Order No. M8220LL/A	With your order, you'll receive:  · Macintosh System Software Version 7.0 (eight 800K disks)  · "Before You Install" with Compatibility Checker (one disk)  · HyperCardŠ version 2.1 (two disks)	Complete setup, learning, and reference documentation     90 days of toll-free upgrade assistance     Limited warranty statement
	System 7 Group Upgrade Kit* Order No. M8221LL/A With your order, you'll receive:  *Macintosh System Software Version 7.0 is also delivered free of charge to subscribers to the Macintosh System Software Update Program.	System 7 Group Upgrade Guide System 7 CDR OM disc with: - Macintosh System Software Version 7.0 - System 7 disk images - Macintosh Electronic Reference - "Before You Install" - Compatibility Checker - Networking Basics Tour - HyperCard version 2.1	Floppy disks of all System 7 software (11 disks)     Complete setup, learning, and reference documentation     Licensing agreement and registration card     180 days of tol-free upgrade assistance     Limited warranty statement
System 7 Upgrade Assistance	To make your transition to System 7 as smooth as possible, Apple offers two direct upgrade support services for customers in the U.S.A.:  System 7 Upgrade Answerline This direct telephone service helps customers plan their upgrade (including hardware requirements, compatibility, and backup strategies); install System 7; and troubleshoot any problems that might surface during the upgrade process.	Purchasers of the System 7 Personal Upgrade Kit receive 90 days of toll-free upgrade assistance, and purchasers of the System 7 Group Upgrade Kit receive 180 days of toll-free upgrade assistance. Customers who have questions about upgrading to System 7 but have not purchased an upgrade kit can contact the Upgrade Answerline by calling 1-900-535-APPL at the cost of \$2 per minute.	Automated Q&A System This automated, computer-based system allows callers to listen to recorded answers to the most frequently asked questions about installing and using System 7. It is available 24 hours a day, 7 days a week Purchasers of the System 7 Personal Upgrade Kit receive 90 days of toll-free access; purchasers of the System 7 Group Upgrade Kit receive 180 days of toll-free access; and oustomers who do not purchase an upgrade kit can call (408) 257-7700 to access the automated Q&A System; they pay only the cost of the telephone call.

Apple Computer, hc.

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