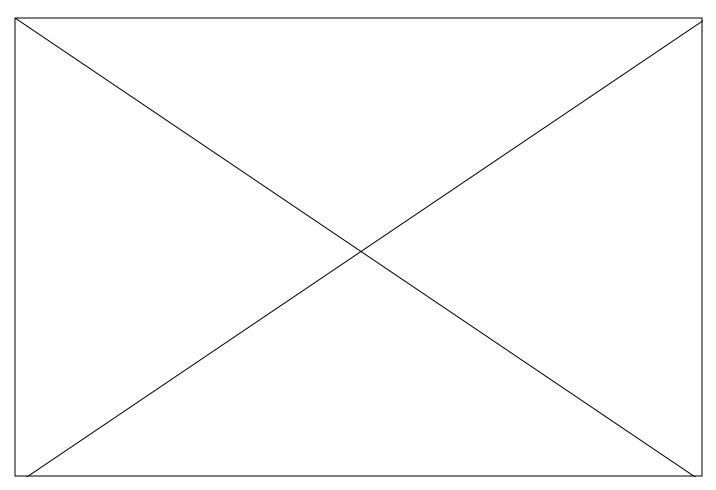
MacintoshLC





Overview

The Apple® Macintosh® LC personal computer is Apple Computer's lowest-cost color-capable Macintosh. Combining the flexibility of a modular system with a sleek new design, the Macintosh LC gives you a range of options for larger screens, color displays, and system expansion, all at an even more affordable price.

The computer features a 16-megahertz 68020 microprocessor that increases system responsiveness more than 100 percent over the Macintosh SE and the Macintosh Cassic®.

The Macintosh L Calsooffers built-in support for three Applemonitors—including the Macintosh 12" RGB Display, the Macintosh 12" Monochrome Display, and the Apple Color High-Resolution RGB Monitor. This means you can choose the monitor you want to work with—without having to add a separate video card.

Rightfromthe start, with a Macintosh LCyoucanenhance graphics, presentation materials, and other documents with a rangeofshadesandcolors-256colorson the Macintosh 12" RGBD isplay, 16 shades of gray on the Macintosh 12" Monochrome Display, and 16colors on the Apple Color High-Resolution RGB Monitor.

Withanoptional Macintosh LC512K VRAM (videorandom-accessmemory) SIMM (Single In-line Memory Module), the systemiscapable of generating even more colors or shades of gray on all three monitors.

The Macintosh L Calso provides an important new Macintosh capability: sound input. Macintosh computers have always offered sound output, but the Macintosh L Chasbeen designed so you can add sound sto documents created with the computer.

The system comes standard with the 1.4-megabyte Apple Super Drive disk drive, which allows you towork more easily indifferent computing environments because it can read from and write to 3.5-inch disks initialized for the Macintoshas

wellas/VS-DOS,OS/2,and/ProDOS®. Inaddition,a40-megabyteinternalhard diskdriveaccommodateslargefiles and applications.

Sevenbuilt-inportsallowyoutoexpand the system with popular peripheral equipments uch as additional hard disks, scanners, and printers. Built-innetworking makes it easy to connect to different networks for sharing information. And a processor direct slot allows you to add a high-performance expansion card for additional graphics, communications, and other capabilities.

What's more, when equipped with the Apple lle Card, the Macintosh L C can run virtually all applications developed for Apple lle systems. And the Macintosh L C will be able to run the next generation of Macintosh application—those supported by Macintosh systems of twareversion 7.0—when they become available.

Features

Benefits

68020 microprocessor, running at 16 megahertz	 Offers more than 100 percent faster performance and system responsiveness than Macintosh SE and Macintosh Classic systems.
Built-in video support for three Apple monitors: -Macintosh 12" RGBD isplay -Macintosh 12" Monochrome Display -AppleColor High-Resolution RGB Monitor	 Letsyouchoose from the most popular Appled is plays, both color and monochrome. Letsyouwork with up to 256 colors simultaneously on the Macintosh 12" RGB Display, up to 16 shades of gray on the Macintosh 12" Monochrome Display, and up to 16 colors on the Apple Color High-Resolution RGB Monitor. Allows you to change displays without adding a video card.
· OptionalMacintoshLC512KVRAMSIMM	 Boosts the color depth to 256 colors or shades of gray on the Apple Color High- Resolution RGB Monitor and Macintosh 12" Monochrome Display. Provides 32,000 colors on the Macintosh 12" RGBD isplay.
· Soundinput	 Allows you to add voice comments to voice- capable word processing, spread sheet, and other documents; send spoken electronic mail messages; add voice excerpts to presentations; and create spoken password protection for sensitive files.
AppleSuperDrive (1.4-megabytefloppydiskdrive)	 Allows convenient transfer of datafiles between Macintosh, OS/2, MS-DOS, and Apple Ilsystems. Provides almost twice the storage capacity of 800K disk drives.
· ApplelleCard	 Allowsyoutorunvirtuallyallapplications that have been developed for Apple IIe computers. Preserves your investment in Apple IIe software.
· 020 Direct Slot	 Allowsyoutoexpandsystemcapabilities with a high-performance expansion card for communication, emulation, graphics and other options.

Features

Benefits

Sevenbuilt-inports: -One SCSI port -One Apple Desktop Bus [§] (ADB) port -Two serial ports -One sound-inport -One sound-outport -One video output port	 Provide support for up to seven popular peripherals such as CD-ROMdrives, scanners, and printers. Permit communication with the keyboard, mouse, and other input devices Provide easy external access to optional expansion cards. Provide access to Local Talk® cable based networks, which allowyou to connect Macintosh LC systems to other computers and to Laser Writer® printers through the Apple Talk® network system. Supports ound input via microphone or phonojack adapter. Supply high-quality sound output that is compatible with all applications that use Macintosh sound. Provide connection to external video display devices.
 40-megabyte internal harddiskdrive 2megabytesofon-boardRAM, expandableto10megabytes 	 Handlesabroadrangeofcomputdiskample storagecapacityforfilesandapplications. Providesasimplegrowthpathasyouneed additionalmemory. Letsyouworkwithlargeamountsofdata, suchasspreadsheets,scannedimages,and soundfiles.
Macintosh user interface, including mouse, icons, windows, and pull-downmenus	 Makes most applications intuitive and easy to learn. Reduces training and support costs. Provides a consistent user interface a cross applications.
· MultiFinder® operating system	 Allowsmultipleapplicationstobeopened concurrently. Letsyoueasilycutandpastepartsof documents from one application to another. Allowsbackgroundtasks to be run while you interact with applications in the foreground.
· Software compatibility	 Letsyourun virtually all Macintosh software. Allowsyoutorun virtually all applications that have been developed for Apple IIe computers using the Apple IIe Card.

Product Details

System configuration

The Macintosh LC comes with 2 megabytes of RAM (expandable to 10 megabytes), internal 1.4-megabyte Apple Super Drive floppy disk drive, internal 40-megabyte hard disk drive, ADB keyboard and mouse, systems of tware, and training disk.

RAMconfigurations

The Macintosh L Coomes with 2 megabytes of RAM on the main logic board. Up to 8 megabytes of RAM can be added by installing a memory expansion card and then adding SIMMs. Some possible configurations include:

 4 megabytes (2 megabytes on main logic board; two 1 - megabytes (2 megabytes on main logic
 10 megabytes (2 megabytes on main logic

board;two4-megabyteSIMMs)

SCSI

 SCSI (Small Computer System Interface) is a high-performance interface bus used to connect hard disks and other SCSI-based devices, such as the Apple CDSC® CD-ROM drive, the Apple Scanner, and the Apple Personal Laser Writer to the Macintosh LC. This single interface can support up to seven SCSI peripheral devices.

Network support

 The Macintosh LC provides full ROM support for all Apple Talk protocols and includes built-in serial ports for Loca Talk network connections.

Operating system support

- Macintoshsystemsoftwareincludes:

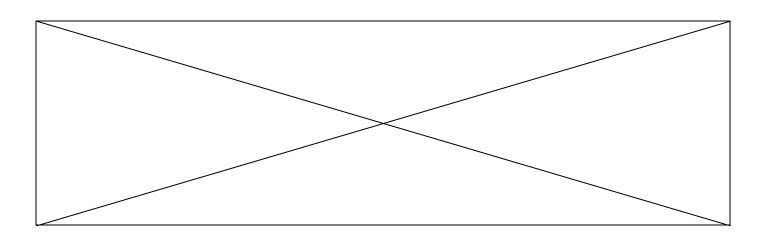
 Systemsoftwareversion 6.0.6 or later (the Macintosh Operating System) with System Startup disk
- -SystemAdditionsdisk (includes utilities such as the Apple File Exchange, HDSC Setup, Close View, Disk First Aid[§], and Font/DAMover)
- HyperCard® 2.0 Home, Addresses with Audio, Appointments with Audio, Audio Palette, and Audio Help stacks.

Sound input

 The Macintosh L Chasbeen designed to accept and process sound as well as generate it. Using a microphone or phonojack adapter, and appropriate software, you can speak into the computer to create electronic voice messages and add voice comments to files.
 Sound entering the computer is filtered through a custom filter/preamplifier chip, converted to digital form, and stored in DRAM or directly on the hard disk.

Sound generator

 The sound generator is a high-quality sampling generator that provides the sound signal to the internal speaker or to both channels of stereomini-phone-jackheadphones.



Technical Specifications

Microprocessor

- · MC68020,32-bitarchitecture
- 16-megahertzdockspeed

Memory

- 2megabytesofRAM,expandableto4or10 megabytes
- 512KofROM, socketed for future ROM upgrades
- 256bytesofparametermemory

Disk drives

- Built-inAppleSuperDrive1.4-megabyte floppydiskdrive
- Internal40-megabyteAppleSCSI harddisk drive
- Optional external Apple SCSI hard disk (many capacities available)

Monitors

- Supports several color and monochrome monitors, including:
- -Macintosh12"RGBDisplay
- -Macintosh 12" Monochrome Display
- -AppleColorHigh-ResolutionRGBMonitor
- When equipped with a video expansion card, supports other Apple and non-Apple monitors; see your authorized Apple dealer for details.

Interfaces

 One Apple Desktop Bus (ADB) port, supporting a keyboard, mouse, and other devices daisy-chained through a low-speed, synchronous serial bus (a maximum of three daisy-chained devices is recommended)

- Twoserial (RS-232/RS-422) ports, 230 kilobits per second maximum (up to 0.920 megabits per second if clocked externally)
- Videoport, supporting color and monochrome monitors of various sizes and resolutions
- SCSI interface, using a 50-pin internal connector and a DB-25 connector for the first external device; all subsequent SCSI-based peripheral devices use standard SCSI-to-SCSI interface cables.
- Internal expansion slot, supporting an 020
 Direct Slot expansion card
- Monophonic sound output port for external audiodevices
- · Soundinputportformonauralsoundinput

(continued)

MacintoshLCwithADBkeyboard,
MacintoshLCwithADBkeyboard,mouse,microphone,
MacintoshLCwithADBkeyboard,
mouse,microphone,andMacintosh
and13-inchAppleColort-ligh-ResolutionRGBMonitor:

12"RGBDisplay

MonochromeDisplay



MacintoshLC

Technical Specifications (continued)

Sound input

- Monaural8-bitsound
- Soundsamplescanbemadeat
 22or11 kilohertz.
- MacintoshAudioCompression Expansion(MACE)soundutility, supporting3:1 or 6:1 compression, which allows approximately halfan hour of sound to be stored on a single 40-megabyte harddisk

Sound generator

 Monophonic8-bitdigital-analog conversion using 22-kilohertz sample rate—capable of supplying the same signal to both channels of stereo headphones or other stereo equipment through the sound jack

Microphone

· "Handsfree" omnidirectional electretmicrophone

Keyboard

- ADBkeyboardwithnumeric keypad
- Two-leveltiltadjustment

Mouse

 AppleDesktopBusMouse; mechanicaltracking:opticalshaft orcontactencoding;100±10 pulsesperin.(3.9±0.39pulses permm)oftravel

Electrical requirements

- Linevoltage: 90to 240 volts AC,
 RVS
- Frequency: 47 to 63 hertz, singlephase
- Power:50wattsmaximum,not includingmonitorpower

ADB power requirements

- Maximumpowerdrawforall ADBdevices: 200 milliamps (a maximumofthree ADBdevices, daisy-chained to the port, is recommended)
- Mousedraws80milliamps.
- Keyboarddraws25milliamps.

Size and weight *Main unit:*

- Height: 3.0 in. (7.7 cm)
- Width: 12.2in. (31.0cm)
- Depth: 15.0in. (38.2cm)
- Weight: 8.8lb (4.0kg)

Mase:

- Height: 1.1 in. (2.8 cm)
- Width: 2.1 in. (5.3cm)
- Depth: 3.8 in. (9.7 cm)
- Weight:6oz.(.17kg)

Keyboard:

- Height: 1.8 in. (4.4 cm)
- Width: 16.5in. (41.8cm)
- Depth: 5.6 in. (14.2 cm)
- Weight: 2lb. (1 kg)

Operatingenvironment

- Operating temperature: 50°F to 104°F (10°C to 40°C)
- Storagetemperature: -40°Fto 116.6°F(-40°Cto47°C)
- Relative humidity: 20% to 80%, noncondensing
- · Maximumaltitude:10,000 ft.(3,048m)

Ordering Information

MacintoshLC OrderNo.M0442LL/A Withyourorder, you'll receive:

- MacintoshLCpersonal computerwith2megabytesof RAM,built-in1.4-megabyteApple SuperDrivefloppydiskdrive,and internal40-megabyteharddisk drive
- Kevboard
- Mouse
- · Complete setup, learning, and reference documentation
- System software and Hyper-Cardsoftware
- Trainingdisks
- Limitedwarrantystatement