DIGITAL HiNote Ultra 2000

User's Guide

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

All external cables connecting to this basic unit must be shielded. For cables connecting to PC cards, see the option manual or installation instructions.

Canadian DOC Statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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About This Guide

This guide describes how to operate, configure, and troubleshoot the DIGITAL HiNote Ultra 2000 notebook computer. This guide, along with the on-line help that can be installed from the DIGITAL HiNote System CD, should familiarize you with all aspects of the notebook computer.

Audience

This guide is written for anyone using or configuring the DIGITAL HiNote Ultra 2000 notebook computer.

Organization

This guide contains the following:

- Chapter 1: Getting To Know Your Computer This chapter introduces you to the
 controls and indicators of your notebook computer. It also describes the function of the
 different hot keys, power controls, and information on creating a comfortable working
 environment.
- Chapter 2: *Getting Started* This chapter provides the information needed to perform installation and initial setup of your notebook computer. It also provides directions on how to install the application software that comes on the DIGITAL HiNote System CD.
- Chapter 3: Power And Your Computer This chapter provides information on using
 and maintaining your notebook computer's Battery Pack. It also provides information
 on your notebook computer's power management features for extending the life of the
 Battery Pack.
- Chapter 4: Configuring Your Notebook Computer This chapter provides information
 on how to configure your notebook computer and its security features using the System
 Setup utility.

- Chapter 5: *Peripherals* This chapter provides information on connecting peripheral devices to your notebook computer.
- Chapter 6: *External Devices and Options* This chapter describes how to connect external devices and options to your notebook computer.
- Chapter 7: *Troubleshooting* This chapter provides you with troubleshooting solutions.
- Appendix A: *Technical Specifications* This appendix lists your notebook computer's operating specifications.
- Appendix B: *Environmental Information* This appendix provides environmental information related to the materials used in your notebook computer.

Acronyms

Acronyms	Meaning
APM	Advanced Power Management
ASTN	Active Scan Technology (Dynamic Matrix)
BIOS	Basic Input/Output System
CMOS	Complementary Metal Oxide Semiconductor
DIMM	Dual In-line Memory Module
DMA	Direct Memory Access
DSTN	Dual Super Twisted Nematic
DRAM	Dynamic Random Access Memory
EDO	Extended Data Out
FDD	Floppy Disk Drive
HDD	Hard Disk Drive
IDE	Integrated Drive Electronics (internal hard disk drive interface)
FIR	Fast Infrared
ISA	Industry Standard Architecture
k	1k = 1000
KB	1Kilobyte=1024bytes
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LiIon	Lithium Ion
MB	Megabyte
MS-DOS	Microsoft Disk Operating System
MIDI	Musical Instrument Digital Interface
NTSC	National Television System Committee
PC Card	Personal Computer Card (PCMCIA card)
POST	Power On Self-Test
ROM	Read Only Memory
SO-DIMM	Small Outline Dual In-line Memory Module
SVGA	Super Video Graphics Array
TFT	Thin Film Transistor
USB	Universal Serial Bus
VGA	Video Graphics Array
XGA	Extended Graphics Adapter

Special Notices

Three kinds of special notices are used in this guide to emphasize specific information.

WARNING		
Ŵ	Warning: Indicates the presence of a hazard that can cause personal injury if the hazard is not avoided.	
	Caution	
\triangle	Caution: Indicates the presence of a hazard that might cause damage to hardware or that might corrupt data.	
	Note	
Note:	Provides additional information.	
	Caution	
\triangle	Mobile computers contain components which can be damaged if not handled with care.	

Related Documentation

A *Quick Setup Guide* is available as a supplement to the information provided in this User's Guide.

An *On-line version* of this user's guide can be installed from the DIGITAL HiNote System CD.

Using Your DIGITAL HiNote Ultra 2000 Notebook Computer is an on-line document that can be installed from the DIGITAL HiNote System CD.

On-line versions of application documentation is available on the DIGITAL HiNote System CD.

README files come with your factory installed software. The information contained in these files can help you setup, configure, and operate your notebook computer.

Additionally, these files might contain warning or caution statements. It is important to read these statements.

DIGITAL Web Site

Please visit the DIGITAL Windows Enterprise Computing Center Web site to download the latest DIGITAL HiNote Ultra 2000 Series operating system drivers and on-line User information. To navigate to the Drivers/User Information location:

- 1. Type in the Web site address: http://www.windows.digital.com/
- 2. Click on the [Service and Support] hot spot.
- 3. Scroll down to the Firmware and Drivers bullet and change [Select Library] to Intel-based systems. Click on the [Go] button.
- 4. Scroll to the HiNote Portables Table of Contents and click on HiNote Ultra 2000 notebook.

Click on the desired Driver or User Information to download the data to your hard drive. The HiNote Ultra 2000 Series User Guide Information can be browsed by using Adobe Acrobat Reader (available on the DIGITAL HiNote System CD).

Getting to Know Your Computer

This chapter identifies and describes the features, components, controls, and indicators of your DIGITAL HiNote Ultra 2000 notebook computer. It also describes the function of the different hot keys and provides suggestions for creating a comfortable work environment.

Features

The DIGITAL HiNote Ultra 2000 is a high-performance notebook computer designed for the mobile professional. It offers the best-in-class features for a notebook computer.

- Intel Pentium Processor 133 MHz or greater. Selected models incorporate cutting-edge MMX CPU technology.
- 256KB or 512KB Level 2 pipelined syncburst cache.
- Removable Hard Drive 1.44GB or larger (latest 12.7mm drive).
- 16MB or greater onboard EDO memory expandable to 144 MB or greater using 3.3V EDO SO-DIMMs.
- 12.1 inch ASTN (active scan) SVGA or 12.1 inch TFT SVGA or XGA or 14.1 inch TFT XGA Color LCD Display.
- External monitor support up to 1280 x 1024.
- CardBus slots Two Type I or Type II cards or one Type III card.
- Zoomed Video support using lower CardBus slot
- Modular bay for Diskette or CD-ROM drive.
- LCD Status display provides operating status of the computer.

- Integrated Touch pad pointing device.
- Internal 33.6kbps Data/FAX/Voice modem with speakerphone support, software upgradeable to 56kbps. Modem available on selected models.
- 16-bit Stereo Audio internal microphone and stereo speakers with connections for an external microphone and stereo headphones, speakers, or an amplifier.
- Smart Lithium Ion (LiIon) battery.
- Advanced Power Management customizes system power usage based on your needs. Works with Microsoft's APM software.
- Fast Infrared (FIR) Interface allows the transfer of information with devices that have an infrared or fast infrared (FIR) interface.
- Supports PCI hot docking to DIGITAL HiNote Ultra Enhanced Port Replicator or DIGITAL HiNote Ultra Multimedia Dock.
- Full sized 85 key Windows keyboard with integral wrist rest.

Components, Controls, and Indicators

This section shows the locations and provides a description of the different components, controls, and indicators on your DIGITAL HiNote Ultra 2000 notebook computer.

Front and Right Side Components

	Component	Description
0	Power LED Battery Charging LED	The green Power LED (lower) lights when the notebook is On. The amber Battery Charging LED (upper) lights when the battery is charging.
0	Lid Release	One of two lid releases. Push in both releases at the same time to open the LCD panel.
8	Speaker	Right stereo speaker used to hear sound files and system sounds.
4	CD-ROM/Diskette Drive Bay	Supports a CD-ROM drive or a Diskette Drive module.
6	Microphone In	Input connection for external microphone.
6	Audio Out	Connection for headphones or external speakers.
0	Suspend/Resume Button	Turns the notebook computer On, and Suspends or Resumes the system. Press and hold the [fn] + [Suspend/Resume] for four seconds to turn the notebook Off.
8	Internal Microphone	Used to record voice, music, and sound files.
0	Status Display	Provides system operating status.
0	Contrast Control (ASTN only)	Controls the contrast of the LCD display.
•	Reset button	Resets the notebook computer. All unsaved data will be lost. Refer to Figure 6-3 for instructions on how to lift the keyboard to gain access to the reset button.

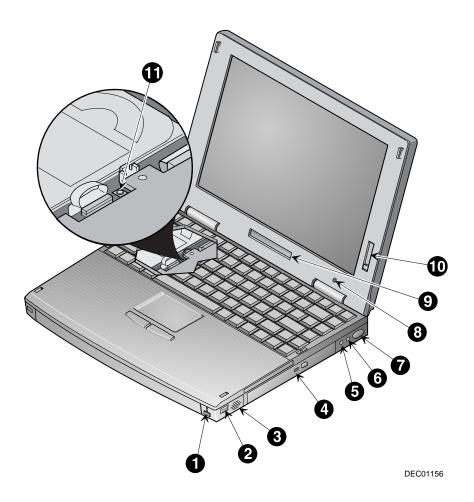


Figure 1-1 Front and Right Side View

Getting to Know Your Computer

Front and Left Side Components

	Component	Description
0	Lid Release	One of two lid releases. Push in both releases at the same time to open the LCD panel.
0	Speaker	Left stereo speaker used to hear sound files and system sounds.
8	PC Card Ejectors	Ejects a PC Card. Top button releases a PC Card from the top slot; the bottom button releases a PC Card from the bottom slot.
4	PC Card Slots	Support two Type I or II cards or one Type III card.
		Zoomed Video cards are supported in the lower slot only.
6	Keyboard Releases	These latches release the keyboard to allow access to the removable hard drive and the system Reset button.
6	Removable Hard Drive	Located under the keyboard, the hard drive is easily removable and upgradeable.
•	Security Lock	Attach a security locking device , such as a Kensington lock, to this port.

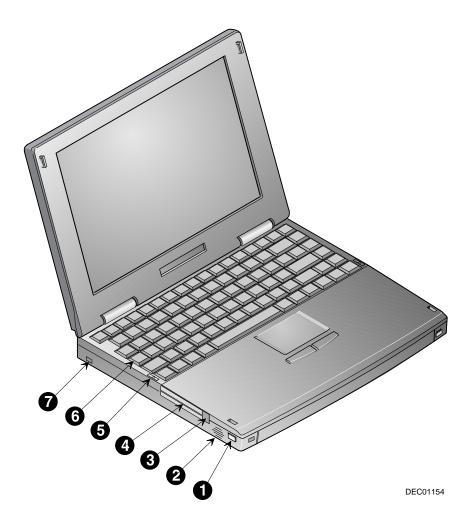


Figure 1-2 Front and Left Side View

Back Components

	Component	Description
0	AC In	Input connection for Universal AC adapter
0	External Keyboard/ Mouse Port	An external keyboard or PS/2 mouse connects to this port.
0	RJ11 Modem Port	An analog telephone line connects to this port (modem functionality on selected models only).
4	Serial Port	A serial device connects to this port.
	IOIOI	
6	Parallel Port	A parallel device, such as a printer, connects to this port.
0	Video Port	An external monitor connects to this port.
•	I/O Connector Cover and Keyboard Support	Covers I/O connectors. Can be flipped down to support the keyboard at a comfortable typing angle.
8	Fast IR Port	Fast IR interface allows wireless data transfer between the notebook and another device with an IR interface.

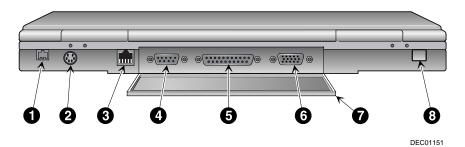


Figure 1-3 Back View

Bottom Components

	Component	Description
0	Battery Release	Releases the LiIon battery from the notebook computer for removal.
0	LiIon Battery	Provides power to your notebook computer.
8	CD-ROM/Diskette Drive Module Release	Releases either a diskette or CD-ROM Drive module from the Diskette/CD-ROM Drive Bay.
4	Memory Door	Provides access to notebook computer's memory.
6	Docking Connector Door	Provides access to the docking connector when using the DIGITAL HiNote Ultra Multimedia Dock or the DIGITAL HiNote Ultra Enhanced Port Replicator.

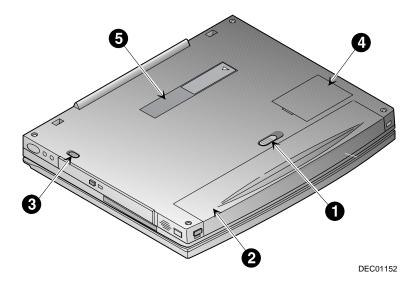


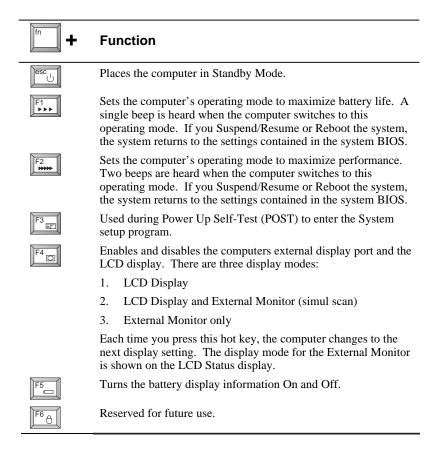
Figure 1-4 Bottom View

LCD Status Display

Indicator	Shows
\odot	AC Power – The computer is connected to and operating from its external AC power supply.
	Standby – The computer is in Standby Mode. Any system activity such as, pressing a key on the keyboard, touch pad, mouse, or other system activity resumes normal operation.
	Hard Drive/CD-ROM Activity – The hard drive or CD-ROM is being accessed.
A	The Caps Lock function is enabled.
1	NUM Lock – The NUM Lock function is enabled.
1	Monitor/Scroll Lock – The external monitor port is enabled and/or the Scroll Lock function is enabled.
	External Monitor port enabled
	Scroll Lock function enabled
	External monitor and Scroll Lock enabled
	Embedded Numeric Key pad – The keyboard's embedded key pad is enabled by a keyboard hot key.

Keyboard Hot Keys

The hot keys are used to set up and control the computer. These keys are activated by holding down the [fn] key (located in the lower left corner of the keyboard) and pressing the desired function key. The function for a hot key is indicated in yellow. The following table shows each hot key sequence and describes its function:



Getting to Know Your Computer

fn +	Function
F7 -	Toggles the system sound between mute and unmute.
F8	Enables and disables the keyboard's embedded key pad. The state of this key is shown in the LCD status display. This hot key is used in conjunction with the [F9] hot key to control the embedded key pad.
F9 num lock	Toggles NUM Lock on and off. The state of NUM Lock is shown in the LCD Status Display. This hot key is used in conjunction with the [F8] hot key to control the embedded key pad.
F10 scroll lock	Toggles Scroll Lock on and off. The state of Scroll Lock is shown in the LCD Status Display.
	Increases the audio volume.
	Decreases the audio volume.
4 ¤	Decreases the LCD screen brightness.
Po	Increases the LCD screen brightness.

Controlling Power

Unique to DIGITAL's notebooks, the Suspend/Resume button not only enables you to take advantage of the built-in power saving features but also turns the notebook On and Off.

Goal	Action
On	Press this button to turn the system On from the Off state.
Suspend	Press this button to place your system in Suspend mode, if it is on.
Resume	Press this button to resume normal operation from the Suspend mode.
Off + 1	Press and hold [fn] + [Suspend/Resume] button for four seconds to completely shut Off your notebook computer from any state.
Lid Switch	Close the LCD panel to place the system into Suspend mode. If Desktop mode is enabled in the System Setup, closing the LCD panel will not place the notebook into Suspend mode. This allows the notebook to function as a desktop computer (notebook LCD panel closed) using an external monitor, keyboard, and mouse.

Caution



Always make sure you save and close all open files before you turn Off your notebook computer. If you turn the notebook computer Off without saving and closing all open files, you could lose some or all of your work.

Using the Touch pad

The touch pad is a touch-sensitive pointing device that provides all the features of a mouse. Although its operation differs from a mouse, its function is the same – to move the cursor around the screen.

Your notebook's touch pad is equipped with many advanced feature options. To customize any of these settings, double-click on the touch pad icon in the Control Panel.

Please refer to Figure 1-5 and the following explanation on how to use the touch pad.

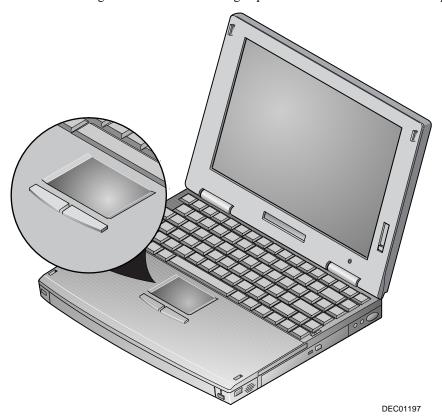


Figure 1-5 The Touch pad

- 1. With your fingers on the keyboard in the normal typing position, the touch pad is easily accessible by moving either your thumb or a finger down on to the touch pad.
- 2. Gently move your thumb or finger across the touch pad in the direction you want the cursor to move. For small movements you can use a rolling motion.
- 3. By default, the touch pad's left button is equivalent to the left button on a conventional two-button mouse. The touch pad's right button is equivalent to the right mouse button on a conventional two-button mouse.

Single-clicking/Single-tapping

Single-clicking is a common selection technique of a conventional mouse. The touch pad's left and right (mouse) buttons provide the same single-clicking function. A selection technique unique to the touch pad is single-tapping. Instead of single clicking on the left mouse button, single-tap on the touch sensitive touch pad to make the selection. When you tap the touch pad it is the same as clicking the touch pad's left button.

Double-clicking/Double-tapping

The *double-clicking* technique found on a conventional mouse is also supported by the touch pad's (mouse) buttons. Another selection technique unique to the touch pad is *Double-tapping*. *Double-tapping* allows you to select objects or execute applications. Instead of *double-clicking* on the left touch pad button, *double-tap* on the touch sensitive touch pad to make the selection. When you double-tap the touch pad, it is the same as double-clicking the touch pad's left button.

Zoomed Video Support

Your DIGITAL HiNote Ultra 2000 notebook computer supports Zoomed Video using the lower CardBus slot only. Using a Zoomed Video option card in this slot enables you to run full motion video applications, such as MPEG playback, video capture, and TV in a window on your notebook computer.

Getting Started

This chapter provides the information needed to perform installation and initial setup of your notebook computer. It also provides direction on how to install the application software that comes on the DIGITAL HiNote System CD.

Installation and Initial Setup

This section guides you through turning on your notebook for the first time. This section also explains what you need to do after turning on your notebook.

Plugging In and Turning On

The first time you use your DIGITAL HiNote Ultra 2000 notebook computer you should fully charge the battery. The battery is fully charged when the Universal AC Adapter is connected to the system and the Battery Charging LED (Figure 1-1) is not On. Refer to Chapter 3 "Power and Your Computer" for more information on the battery.

Getting Started

To power the notebook using the supplied Universal AC Adapter, refer to the following instructions:

- 1. Connect the Universal AC Adapter to the AC input on the notebook computer (Figure 2-1, step 1). The arrow on the connector should be on top.
- 2. Plug the power cord into the AC Adapter (Figure 2-1, step 2).
- 3. Plug the power cord into a working electrical outlet (Figure 2-1, step 3).
- 4. After you have plugged the notebook into its power source, press the Suspend/Resume (Power) button to turn the notebook computer On (Figure 2-2).

If the notebook does not power up, check the connections between the Universal AC Adapter and the notebook computer. If the notebook computer still does not power up, please refer to the chapter on "Troubleshooting."

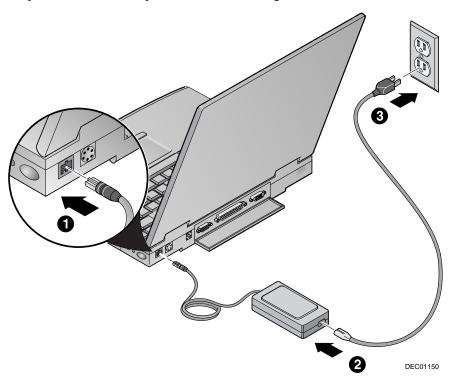


Figure 2-1 Connecting the Universal AC Adapter

WARNING	



Do not use an AC Adapter other than the one provided by Digital Equipment Corporation for the DIGITAL HiNote Ultra 2000 notebook computer and options.

To avoid personal injury and/or equipment damage, do not open the case of the Universal AC Adapter. There are no customer serviceable parts.

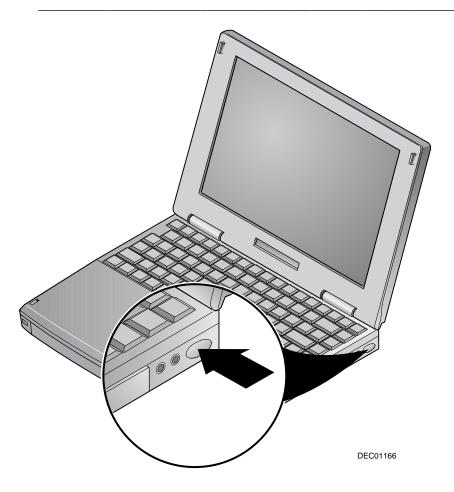


Figure 2-2 Turning on the Notebook Computer

Windows Software

Your notebook computer comes supplied with a Microsoft Windows operating system and supporting drivers. The first time you turn on your notebook, the system will begin the operating system installation process. You will be prompted for your Certification of Authenticity number, which you can find with your Windows documentation.

Installing Optional Software

Your notebook computer comes with the DIGITAL HiNote System CD. The CD contains on-line documentation, numerous applications, operating system enhancements and upgrades, and drivers for the notebook computer. The CD has a menu driven program to help with installing and accessing its various applications and information. After you have started your system and completed the installation of the factory installed software, you will want to do the following:

- Read the Read Me First file on the DIGITAL HiNote System CD and install the on-line documentation for your notebook computer, found in the Documentation menu on the CD.
- Install the Mobile Wellness Tutorial and other applications, found in the Applications menu on the CD.
- Install the Operating System Enhancements and Upgrades, found in the Enhancements and Upgrades menu on the CD.
- Create a bootable diskette.

Documentation, Applications, and Enhancements

To install software from the DIGITAL HiNote System CD:

- 1. Install the CD-ROM Drive module in the notebook computer (Figure 6-10).
- 2. Place the DIGITAL HiNote System CD in the CD-ROM drive (label side up).
- 3. From the Windows Explorer, Select the CD-ROM drive and double-click on CDInstall.exe.
- 4. The installation program is menu driven. Follow the instructions to install the desired documents and applications.

Drivers and Utilities

The DIGITAL HiNote System CD also contains hardware specific drivers for your DIGITAL HiNote Ultra 2000 notebook computer along with instructions on how to install the drivers. It also has utilities that can be used to create a system boot diskette in the event you need to reinstall the operating system on your hard drive. All required drivers are loaded on the notebook computer.

Creating a Comfortable Working Environment

The following tips can help minimize eye strain and body fatigue when using your notebook computer:

- Adjust your chair so that:
 - Your feet are flat on the floor-use a footrest if needed.
 - Your legs form a right angle to the floor.
 - The backs of your knees are free from the chair seat.
 - Your body weight rests on your spine, while supporting the lower back region.
- Adjust your notebook computer so that:
 - Your wrists are straight and supported.
 - Keyboard and touch pad or external keyboard and mouse are at elbow height.
 - Your elbows are close to your sides with your upper arms perpendicular to the floor.
 - You maintain a neutral neck posture with the top of the display no higher than eye level.
- Adjust your display and lighting so that:

or physician.

- Light is directed away from the screen to reduce glare. Look away to distant objects frequently. Use the tilt and swivel capabilities of your LCD or external monitor to place it in the most comfortable position.
- The screen is the correct distance for your vision.

	WARNING
Ŵ	If you experience pain or discomfort while using your notebook computer, take a break from using the computer. Review the information in this section. If the pain or discomfort continues after resuming use, stop and report the condition to your job supervisor

Getting Started

For more information related to using your notebook computer, install and run the Mobile Wellness Tutorial on the DIGITAL HiNote System CD found in the applications directory.

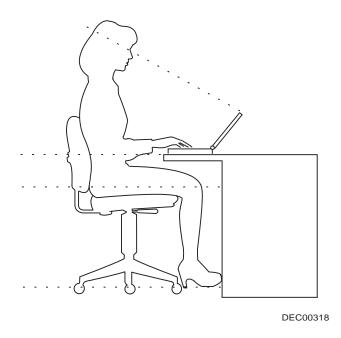


Figure 2-3 Providing a Comfortable Working Environment

Power and Your Computer

Your DIGITAL notebook computer can be powered by:

- Battery
- Universal AC Adapter

Note
If the notebook is operating on AC power, the battery will continue to charge until full. The amber battery charge indicator, located on the front of the system (Figure 1-1), is lit while the battery is charging.

Your notebook's main battery is a Lithium-ion (LiIon) Battery. To get the most out of your notebook computer and its battery, you need to:

- Know how to use and care for the Battery Pack
- Understand the Power Management features of the computer and how to configure them

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vv	HК	1411	M(3	



To prevent risk of fire and exposure to hazardous energy, do not crush, puncture, incinerate, or disassemble the battery.

Do not expose to fire or heat above 60 degrees Celsius. The battery is designed for use with HiNote Ultra 2000 series notebook personal computer and accessories

CAUTION



There is a danger of explosion if a lithium battery is incorrectly replaced. Lithium batteries must be replaced with the same or equivalent type recommended. Replace the main system battery only with DIGITAL HiNote Ultra 2000 series of rechargeable Lithium Ion battery packs. For more information contact your DIGITAL Service Center.

Battery Recycling and Disposal _____





Recycle or dispose of batteries contained in this product properly, in accordance with local regulations for battery type as marked on the battery. Prior to disposal or recycling, protect batteries against accidental short circuiting by affixing non-conductive tape across battery terminals and conductive surfaces.

If the battery is not marked, or if you require other information, consult your nearest DIGITAL Service Center.

Lilon Battery

All batteries have a limited life span. A battery's life span is measured by the number of charging and draining cycles it can undergo before it can no longer be charged. The amount of time that your system can be operated by battery power before the battery is drained is referred to as battery run time.

Lithium-ion batteries have an average life span than of approximately 1,000 complete charge/discharge cycles. In actual use, the number is larger due to the fact that most users will not fully discharge the battery during daily usage. Unlike the nickel-metal hydride battery, there is no need to be concerned with fully discharging the battery before charging it again since lithium-ion technology is not susceptible to memory effect.

If your system will not be in use for more than 30 days, DIGITAL recommends that the LiIon Battery Pack be removed from the system. When a lithium-ion battery is removed from the system, it has a shelf life of approximately 90 days before a charge cycle is required.

WARNING		
UVARINING		



When transporting the battery pack, make sure that the metal terminals on the battery pack do not come in contact with other metal surfaces (such as loose coins, paper clips, etc.). An electrical discharge can occur which may cause injury or damage.

Smart Battery Operation

Your DIGITAL HiNote Ultra 2000 uses a Smart Battery. The battery has circuitry that reports the amount of charge in the battery to the system.

Initial Use – To properly initialize the circuitry that reports the state of the battery charge, you should:

- 1. Fully charge the battery.
- 2. Fully discharge the battery. To fully discharge the battery, use the notebook computer on battery power until the computer enters suspend mode because of a *critically low battery state*.
- 3. Fully charge the battery.

Regular Use – To help maintain the accuracy of the circuitry that reports the state of the battery charge, it is recommended that you allow the battery to go through a full charge and discharge cycle at periodic intervals.

Replacing the Battery

Your DIGITAL HiNote Ultra 2000 has a Bridge Battery installed that provides system power to maintain suspend mode for up to five minutes when changing the notebook computer battery. The addition of the Bridge Battery means you do not have to waste valuable time powering off and rebooting the system in order to change the battery. Simply place the notebook into Suspend, remove the drained battery and replace it with a fully charged one. Then resume normal operation.

Please refer to the following instructions and Figure 3-1, 3-2 for detailed instructions on how to change and replace the system's main battery.

Power and Your Computer

To remove the battery:

1. Press the [Suspend/Resume] button to Suspend the notebook computer.



The DIGITAL HiNote Ultra 2000 Bridge Battery provides five minutes to change the LiIon battery while the notebook computer in Suspend mode. If the main battery is out of the system for more than five minutes and it is not connected to the AC adapter, all unsaved data will be lost.

- 2. Turn the notebook computer over so the bottom of the unit is facing up.
- 3. While depressing the battery near the latch, slide the battery latch to the right (Figure 3-1, step 1).
- 4. Lift the battery up and out of the notebook computer (Figure 3-1, step 2).

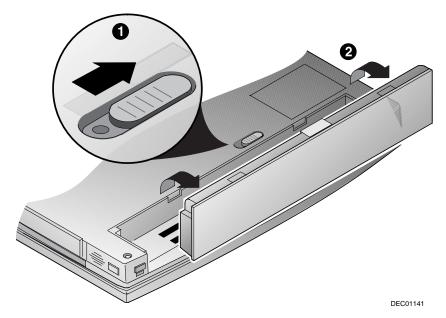


Figure 3-1 Removing Battery

To install the battery:

- 1. Verify that the battery latch is over to the right (Figure 3-2, step 1).
- 2. Place the battery in the battery compartment (Figure 3-2, step 2).
- 3. While pressing down on the battery near the latch, slide the battery latch to the left so that you cannot see the red dot (Figure 3-2, step 3).

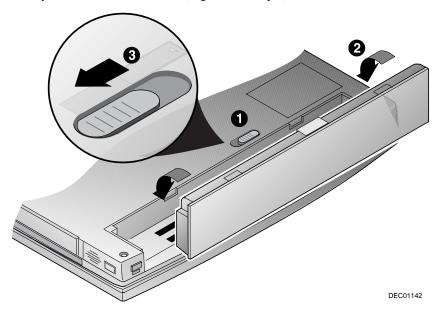


Figure 3-2 Installing the Battery

Power Management Modes

Your notebook computer is factory-configured with preset power management values. If you are not an advanced user, start by using the factory-configured power management settings. If you find that the factory settings do not fit your specific needs, enter the System Setup Program and make the needed changes. The System setup program is entered by pressing the [fn] + [F3] keys, when prompted, during system bootup.

If you choose to set your own power saving features, you should understand how it affects battery run time and system performance before changing a setting.

The power management features are designed to conserve as much power as possible by putting the notebook's components into a low power consumption mode as often as possible. These low power modes are referred to as Standby and Suspend.

For additional information on power management, refer to the on-line documentation that came with your notebook computer.

Standby Mode

In this mode, components such as the HDD, Diskette or CD-ROM drive and the LCD display are powered off and the CPU clock is stopped. Other components, transparent to the user, are put in their lowest active states.

Standby Mode is entered:

- Automatically when the system remains idle for the specified time set in the Standby Time-out field of the System Setup Program.
- Manually by pressing the [fn] + [esc] key combination.

Standby Mode is exited by any of the following actions:

- Pressing any key on the keyboard
- Touch pad or externally connected mouse activity
- Serial or parallel port activity
- PC Card activity
- Incoming modem call

Suspend Mode

Suspend Mode saves power by removing power from all system functions except memory.

Suspend Mode is entered as follows:

- Press the Suspend/Resume button.
- Close the LCD display lid (unless in Desktop Mode).
- When the specified time in the Suspend Time-out field in the BIOS is reached.
- When the battery reaches a critically low power level.
- In Windows 95 or Windows NT 4.0, click on the Suspend option on the Taskbar, if enabled.

Suspend Mode is exited to On as follows:

- Press the Suspend/Resume button.
- Opening lid if suspended from lid switch.

Suspend Mode is exited to Off as follows:

 [fn] + [Suspend/Resume] (make sure all data is saved and files/software programs are closed).

Power Management

Your DIGITAL notebook computer comes equipped with power management features designed to reduce system energy consumption. By understanding these features and utilizing good power management techniques, you will obtain the longest possible battery run time.

Good Power Management Habits

If you often operate the notebook on battery power, it is important to develop good power saving habits to maximize battery life.



The Standby/Resume Feature

If you need to stop using the notebook computer for a short period of time, press the [fn] + [esc] Standby hot key combination. The system will turn off the LCD screen and spin down the hard disk drive (HDD) to conserve some battery power. Touch pad, external mouse or keyboard activity resumes the system to normal operation.

The Suspend/Resume Feature



If you use your notebook computer daily, instead of powering off the notebook, you can use the Suspend/Resume mode. The system will suspend, conserving battery power and increasing battery run time. In suspend mode, all the high power consuming devices (LCD, HDD, PC Cards, Parallel Port, Internal Modem, and CPU) are turned off. Press the Suspend/Resume button to resume normal operation the next day.

Screen Brightness





The brighter the LCD display screen, the shorter the battery run time. Avoid setting the screen brightness higher than necessary. This will extend battery run time.

The CD-ROM/Diskette Drive

The Diskette Drive and CD-ROM drives consume a large amount of battery power. To conserve battery power, you should limit your use of these devices.

PC Cards

PC Cards will also tax your battery power significantly, reducing run time. When you are finished using your PC Card, eject it from the PC Card slot. This extends battery run time.

AC Power

The most obvious way to conserve battery power is to avoid using the battery when there is an available AC power source. The Universal AC Adapter is lightweight and compact, so it is very convenient to bring while traveling. By using the Universal AC Adapter as much as possible, you can ensure you will have a charged battery whenever you really need it.

A Power Management Example

It may be helpful to enter the System Setup Program (pressing [fn]+[F3] during bootup), and open the Power Menu for a visual reference as you read through this section.

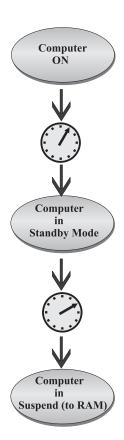
The time-out settings for Standby and Suspend Time-out specify the amount of time the system must be inactive before the next power management level is enabled. The following example demonstrates this functionality.

In this example:

- Standby Time-out is set to 5 minutes
- Suspend Time-out is set to 5 minutes

The following power management events take place:

Power and Your Computer



After 5 minutes of system inactivity, the notebook enters Standby.

After 5 additional minutes (a total of 10 minutes of inactivity), the system enters Suspend Time-out.

Power Management Summary

The following table summarizes the Notebook's power-saving features:

Power Mode	How to Enter Mode	How to Resume
Standby	Automatically when system has been inactive for the	Press any of the keys on the keyboard.
	specified period of time in the Standby field of System Setup.	 Serial or parallel port activity.
	Pressing the [fn] + [esc] hot	 PC Card activity.
	key combination.	 Touch pad entry or PS/2 mouse activity if one is connected.
		Incoming modem call.
Suspend	Close the LCD display lid unless in Desktop mode.	Open the LCD panel.Press the Suspend/ Resume
	When the specified time in the Standby field plus the specified time in the Suspend Time-out field in System Setup has been reached.	button.
	Press the Suspend/Resume Button	
	Click on the Suspend option on the Windows Taskbar	

Configuring Your Computer

This chapter provides information on how to configure your notebook computer and its security features using the System Setup utility. Your notebook computer comes configured with default settings selected for typical notebook computer use.

If you are familiar with Setup utility programs and their uses, refer to the appropriate sections in this chapter to setup or update your notebook computer. Otherwise, carefully read this chapter before attempting to modify your notebook computer's configuration and security settings.

Here are some instances when you might want to change your computer's initial setup. You might need to:

- Change the date and time
- Change your computer's security level
- Enable/disable and configure power management

Running System Setup

The System Setup utility enables you to select and store information about the notebook computer's hardware configuration, boot sequence, security, and power management features. This information is stored in the computer's battery backed-up CMOS RAM.

The System Setup utility also allows you to save and load user specific settings or load the factory default settings to the CMOS RAM.

System Setup Utility

To run System Setup:

- 1. Turn on or reboot your notebook computer.
- 2. During system boot, press [fn] + [F3] when prompted. After the prompt appears you have two to three seconds to press [fn] + [F3] and enter System Setup.

Updating Your Notebook Computer's Configuration

There are number of hardware features that can be configured on your notebook computer.

Feature	Selections
Power	Disabled Maximum Battery Life Maximum Performance Advanced Lid Switch Suspend Beep
System	Date/Time CD-ROM Boot Floppy Boot Quick Boot NUM Lock
Device	Serial Port Infrared Port Parallel Port Parallel Port Mode Audio Joystick
Security	Set User Password Set Supervisor Password Modify Password Mode Dock Security
Defaults	Save User Default Settings Load User Default Settings Load Factory Default Settings
Exit	Save Quit About

Helpful Hints

When updating your computer's setup information there are several keyboard keys assigned to help you select menus and sub-menus, options, and to change option values.

Key	Function
\rightarrow	Cursor keys move the cursor to the right and left
←	Cursor keys move the cursor up and down
Tab	Moves the cursor between menu items
Esc	Closes the current menu
Enter	Accepts the current selection
Space bar	Selects the current option or enables (check mark) or disables (no check mark) the option
Alt	Moves the cursor to the menu bar at the top of the screen

Power Features

Your notebook computer is factory-configured with preset power management values. If you are not an advanced user, start by using the default factory-configured power management settings. If you find that the factory settings do not fit your specific needs, enter the System Setup Program and make the needed changes.

Feature	Settings	Comments
Disabled		Disables the power management features supported by the system. Power management features of the operating system are still available.
Maximum Battery Life		Use Maximum Battery Life when you want to maximize the time between battery charges.
Maximum * Performance		Use Maximum Performance when you want to maximize the performance of your notebook computer while retaining some power savings for extending the life of the battery.
Advanced		Use Advanced when you want to set your own power saving features. Use this option only if you have a good understanding of the effects the various settings have on both battery life and system performance. Refer to Advanced Power Management for a description of the available settings.
Lid Switch	Suspend/Resume*	This option allows you to configure the way the
	DeskTop Mode	notebook computer responds when opening and closing the LCD display panel. When Suspend/Resume is selected, the system enters Suspend Mode when the lid is closed and Resumes operation when the lid is opened. When Desktop mode is selected, the external video port is enabled when the lid is closed.
Suspend Beep	Disabled* (No Check Mark)	This allows you to enable or disable the notebook computer's suspend beep feature. When enabled, the notebook computer emits two quick beeps before entering Suspend mode.

^{*}Factory default setting

Advanced Power Features

These features are accessed by selecting the Advanced field in Power Features.

Field	Settings	Comments
Hard Disk Timer	Disabled Selected times	This option allows you to specify a period of time the hard disk drive must be inactive before it spins down. There are separate timer entries for AC Power and Battery Power. Press the "Tab" key to move between the AC Power block and Battery Power block.
Display Timer	Disabled Selected times	This options allows you to specify a period of time the system must be inactive before the LCD backlight is turned off. There are separate timer entries for AC Power and Battery Power. Press the "Tab" key to move between the AC Power block and Battery Power block.
Standby Timer	Disabled Selected times	This option allows you to specify a period of time the system must be inactive before Standby mode is entered. There are separate timer entries for AC Power and Battery Power. Press the "Tab" key to move between the AC Power block and Battery Power block.
		Standby mode shuts down power to the LCD and backlight, hard drive, Diskette Drive, and external devices.
		Note: The selected period for inactivity is measured from the last monitored system activity. For example, a keystroke, mouse movement, or hard disk activity will reset the timer.
Suspend Timer	Disabled Selected times	This options allows you to specify a period of time the system is in Standby mode before entering Suspend mode. There are separate timer entries for AC Power and Battery Power. Press the "Tab" key to move between the AC Power block and Battery Power block.
		Suspend mode is similar to Standby mode except all devices are powered down with the exception of DRAM. To resume operation from Suspend mode press the Suspend/Resume button.

^{*}Factory default setting

Configuring Your Computer

System Features

Feature	Settings	Comments
Date/Time	Current Date/Time	Sets your notebook computer to a specified date and time.
CD-ROM Boot	Enabled Disabled* (No Check Mark)	This option enables or disables the ability to boot from a CD-ROM installed in the notebook computer.
		When enabled, the CD-ROM is the first device in the boot sequence.
Floppy Boot	Enabled* (Check Mark) Disabled	This option enables or disables the ability to boot from the Diskette Drive.
		When enabled, the Diskette Drive is the second device in the boot sequence if CD-ROM Boot is enabled. If CD-ROM Boot is disabled the Diskette Drive is the first device in the boot sequence.
Quick Boot	Enabled Disabled* (No Check Mark)	This option enables or disables a faster boot sequence. When enabled certain diagnostic tests are skipped to speed up system boot.
NUM Lock	Enabled Disabled* (No Check Mark)	This option turns the embedded numeric key pad On or Off every time the system is booted.

^{*}Factory default setting

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If both the CD-ROM (if enabled) and hard disk drive boot devices are not found at system boot, the Diskette Drive is enabled as the boot device for the current boot sequence.

Device Features

Feature	Settings	Comments
Serial Port	Disabled	Disables the onboard Serial Port.
	Auto*	Enables and automatically configures the port.
	Manual	Enables and allows you to manually configure the I/O address and Interrupt Request (IRQ) line for the port.
InfraRed	Disabled*	Disables the onboard Infrared Port.
InfraRed Port Parallel Port Parallel Port Mode Audio	Auto	Enables and automatically configures the port.
	Manual	Enables and allows you to manually configure the I/O address and Interrupt Request (IRQ) line for the port.
1 4141101	Disabled	Enables or disables the onboard Parallel Port.
1 11111111	Auto*	Enables and automatically configures the port.
	Manual	Enables and allows you to manually configure the I/O address and Interrupt Request (IRQ) line for the port.
	Standard Bi-directional (PS/2)* Enhanced Parallel Port (EPP) Extended Capabilities Port (ECP)	Selects other high performance modes that may be supported by your printer or other parallel port devices. See your device User's Guide for details.
Audio	Disabled	Disables the onboard Stereo Audio.
	Auto*	Enables and automatically configures the onboard audio.
	Manual	Enables and allows you to manually configure the I/O addresses, Interrupt Request (IRQ) line, and DMA channel for the onboard audio.
Joystick	Disabled	Enables or disables the Joystick port on the DIGITAL HiNote Ultra Multimedia Dock.
	Auto*	Enables and automatically configures the port.
	Manual	Enables and allows you to manually configure the I/O address for the port.

^{*}Factory default setting

Note	

It is highly recommended that you use the Auto configure setting. If you must manually configure a device, it is recommended that you use the "System" application located in the Windows "Control Panel."

Security Features

Feature	Settings	Comments
Set User Password	Enter a password of up to eight alphanumeric characters.	This option allows you to set a User Password that will be required during: System Boot, Resume, and Undock operations if selected. The Dock Security and Modify Password Mode features are used to select the operations that will require a password.
		Caution: Be sure to write the password down and store it in a safe place.
Set Supervisor Password	Enter a password of up to eight alphanumeric characters.	This option allows you to set a Supervisor Password that will be required to enter the System Setup. This password can also be used in place of the User Password.
		Caution: Be sure to write the password down and store it in a safe place.
Modify Password		This option allows you to change the way the system uses the Password.
Mode	Password on Boot Only	When set, you will be prompted for a password on each system boot.
	Password on Boot and Resume	When set, you will be prompted for a password each time the system boots or resumes operation from Suspend mode.
Dock Security	Enabled (Requires a User password to be set.) Disabled*	This option allows you to enable password protection for the undocking mechanism on docked options. When enabled and a User Password is set, the option cannot be undocked unless the system is powered on and the User or Supervisor password is supplied.
		If the system is not powered on, the option cannot be undocked when Dock Security is enabled.

^{*}Factory default setting

Notebook Computer Security

Notebook Computer Security is important to avoid theft or accidental loss of your computer software and hardware. The DIGITAL HiNote Ultra 2000 provides the following levels of protection:

- User Password Used to prevent unauthorized access to files on your notebook computer and unauthorized removal of a docked option.
- Supervisor Password Used to prevent unauthorized access to your notebook computer's System Setup.
- Dock Security Utilizes the User or Supervisor password to allow a docked device to be undocked. Requires a User password be set.





It is important that you remember your User and Supervisor Password after you have set one on your notebook computer. If you forget the password and want to have it reset, you must send the notebook computer along with proof of ownership to a DIGITAL Service Center for service.

User Password

Your notebook computer has a User password that you can set to prevent unauthorized access to your notebook computer files and unauthorized removal of a docked option.

Setting/Changing the User Password

Perform the following steps to set or change the User password:

- 1. Turn on your notebook computer.
- 2. After POST successfully completes, press [fn] + [F3] to access System Setup. The System Setup main menu appears on the screen.
- 3. Highlight the Security Setup menu and press [Enter].
- 4. Highlight the Set User Password field and press [Enter].

Configuring Your Computer

	5.	Type in up to an eight character User password and press [Enter].
		To confirm, type in your User password a second time and press [Enter].
		Note
		If a password already exists, you will be prompted to enter the <i>old password</i> before a new one can be set.
	6.	Select the Exit menu and choose Save to save your new settings and exit System Setup
		Depending on the settings of the Password Mode and Dock Security features, your notebook computer will prompt you for a password each time it powers on, resumes operation, or when you request to remove a docked option.
Deleting	the	e User Password
	To	delete a previously set User password and disable the feature:
	1.	Open the User password dialog box.
	2.	With the cursor in the "Enter new password" field, press [Enter].
	3.	The cursor will move to the "Re-enter new password" field. Press [Enter].
	4.	When the Notice dialog box appears notifying you that changes have been saved, press [Enter].
	5.	Select the Exit menu and choose Save to save your new settings and exit System Setup
Superv	vis	or Password
	una	ur notebook computer has a Supervisor password option that you can set to prevent authorized access to the System Setup. If you set a Supervisor password, you need to er it each time you want to access the System Setup.
		Note
		The Supervisor password can be used in place of the User password.

Setting/Changing the Supervisor Password

Perform the following steps to set or change the Supervisor password:

- 1. Turn on your notebook computer.
- 2. After Power On Self-Test (POST) successfully completes, press [fn] + [F3] to access System Setup.

The System Setup main menu appears on the screen.

- 3. Highlight the Security Setup menu and press [Enter].
- 4. Highlight the Set Supervisor Password field and press [Enter].
- Type in up to an eight character Supervisor password and press [Enter].
 To confirm, type in your Supervisor password a second time and press [Enter].

Note	
If a password already exists, you will be prompted to enter the <i>old password</i> before a new one can be set.	

6. Select the Exit menu and choose Save to save your new settings and exit System Setup. When you access System Setup, you are prompted for the Supervisor password.

Deleting the Supervisor Password

To delete a previously set Supervisor password and disable the feature:

- 1. Open the Supervisor Password dialog box.
- 2. With the cursor in the "Enter new password" field, press [Enter].
- 3. The cursor will move to the "Re-enter new password" field. Press [Enter].
- 4. When the Notice dialog box appears notifying you that changes have been saved, press [Enter].
- 5. Select the Exit menu and choose Save to save your new settings and exit System Setup.

Dock Security

Setting a User password and enabling Dock Security password protects the undocking of options from the system. When a request is made to undock an option such as the DIGITAL HiNote Ultra Multimedia Dock, you will be prompted for a password. Enter either the User or Supervisor password (if set) to complete the undock request and undock the option.

Configuring Your Computer

Default Features

Feature	Settings	Comments
Save User Default Settings		Stores the current Setup values as the user default values in non-volatile memory.
Load User Default Settings		Loads all values stored under User Defaults as the new system values.
Load Factory Default Settings		Loads all values to their Factory Default Settings.

Exit Features

Feature	Settings	Comments
Save		Saves all Setup values and exit Setup.
Quit		Ignores all changes to Setup values and exits Setup.
About		Supplies some BIOS and system version information.

5

Peripherals

This chapter provides information on connecting peripheral devices to your DIGITAL HiNote Ultra 2000 notebook computer.

Peripheral devices that you can connect to your notebook computer include:

- Keyboard/Mouse
- External Monitor
- Parallel Devices
- Serial Device
- PC Cards
- Phone Lines (selected models)
- Audio Devices

Connecting an External Keyboard or PS/2 Mouse

- Rotate the keyboard or mouse cable connector until the arrow marking is on top.
 This marking indicates the keyway (notch) on the cable connector is aligned with the keyway of the notebook computer's socket.
- 2. Plug the cable connector into the socket.

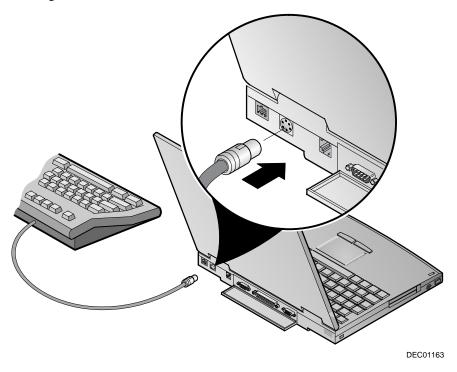


Figure 5-1 Connecting an External Keyboard or PS/2 Mouse

Connecting a Monitor

1. Connect and fully tighten the monitor signal cable to the monitor connector at the rear of the notebook computer.

Note _	
Make sure the monitor is turned off before connecting its power cord to the wall outlet.	

2. Connect the monitor's power cord to a working wall outlet and turn on the monitor.

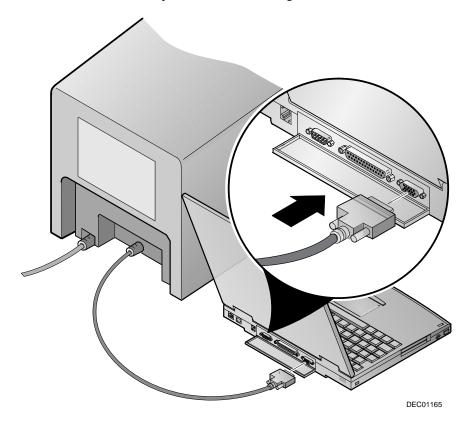


Figure 5-2 Connecting a Monitor

Peripherals

3. Press [fn] + [F4] until there is a monitor display or there is a display on both the monitor and the LCD screen.

You can configure the notebook computer's Lid Switch function to Desktop Mode. This allows your notebook computer to emulate a desktop computer using a external monitor, keyboard, and mouse.

Note	,

When using your notebook computer with an LCD projector, you may have to change the display resolution to 640 x 480. Change the display resolution using the Display applet from the Windows Control Panel.

Connecting a Printer

1. Connect and fully tighten the printer signal cable to the parallel port.

Make sure the printer is turned off before connecting its power cord to the wall outlet.

2. Connect the printer's power cord to a working wall outlet.

Refer to your printer's documentation for configuration information and the operating system documentation for general information about printers.

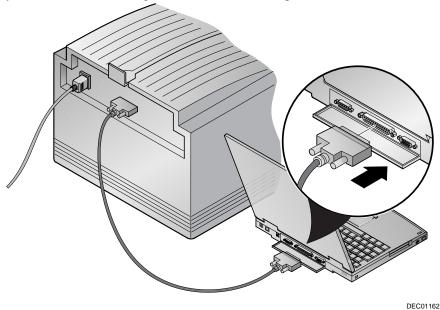


Figure 5-3 Connecting a Printer

Connecting a Serial Device

Connect a serial device to the serial port connector as shown.

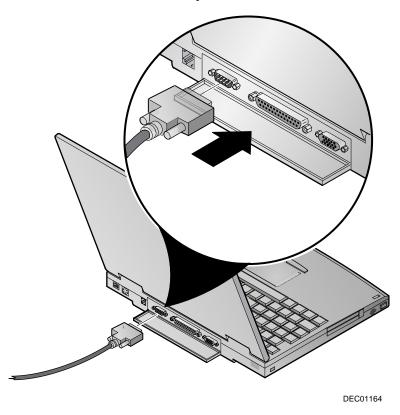


Figure 5-4 Connecting a Serial Device

PC Cards

Your DIGITAL HiNote Ultra 2000 notebook computer has PC Card slots located on the left side of the computer. These slots can hold two Type I or Type II PC Cards or one Type III PC Card.

Installing a PC Card

To install the card, insert it in the appropriate slot (Figure 5-5).

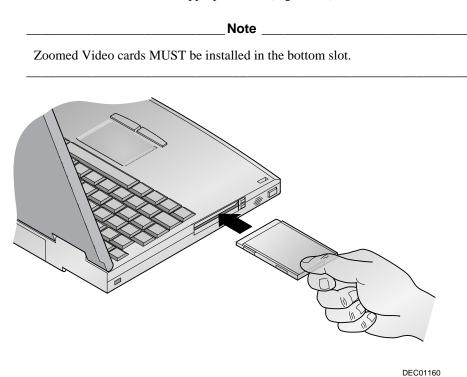


Figure 5-5 Installing a PC Card

Removing a PC Card

To remove a PC Card:

- 1. Use the operating system software to shutdown the PC Card.
- 2. Locate the eject button next to the PC Card socket. Using the tip of your finger, hinge the eject button out of the unit to the left (Figure 5-6, step 1). Push in on the eject button to remove the PC Card (Figure 5-6, step 2). For Type III PC Cards use the lower button.
- 3. Remove the PC Card and store in a safe dry place.

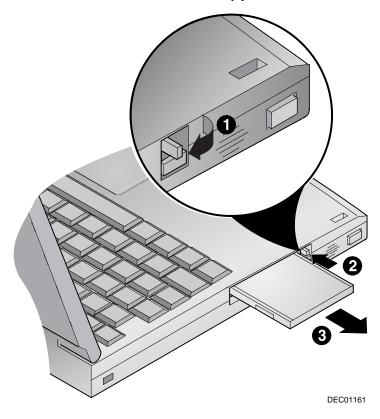


Figure 5-6 Removing a PC Card

Connecting a Phone Line to the Internal Modem

Selected units come with an internal Data/FAX/Voice Modem. To connect a phone line to the internal modem:

- 1. Connect a phone cord with an RJ11 connector to the RJ11 port located on the back of the notebook computer as shown.
- 2. Connect the phone cord to an analog phone connection.

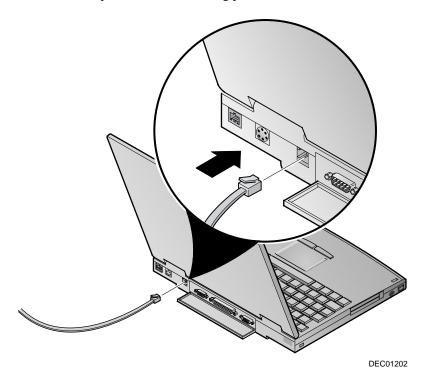


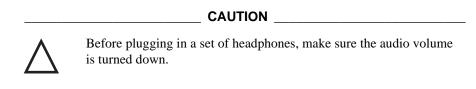
Figure 5-7 Connecting a Phone Line

Connecting External Audio Devices

Your notebook computer allows you to attach external speakers or headphones and an external microphone to the system (Figure 5-8).

Connecting Speakers/Headphones

- 1. Locate the speaker/headphone port located on the side of the notebook computer.
- 2. Plug stereo headphones or speakers into the port. This disables the notebook computer's internal speakers.



Connecting an External Microphone

- 1. Locate the external microphone port on the side of the notebook computer.
- 2. Plug the microphone into the port. This disables the notebook computer's built-in microphone.

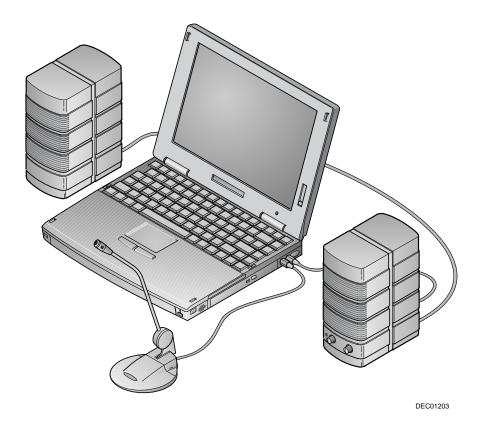


Figure 5-8 Connecting External Audio Devices

Expansion Devices and Options

Optional Expansion Devices

A variety of optional expansion devices are available to increase the already superb performance and versatility of your notebook computer. Please contact your DIGITAL notebook dealer for purchasing information.

Products	Portable and Powerful
Additional EDO Memory	With today's demanding applications and operating systems, eventually you may find it necessary to increase your system's base memory. Your DIGITAL HiNote Ultra 2000 notebook was designed to make memory upgrading easy. The DIGITAL HiNote Ultra 2000 uses fast speed 3.3V EDO (Extended Data Out) 60ns 144-pin SO-DIMM modules.
HDD	The DIGITAL HiNote Ultra 2000 has removable hard disk drives for easy expansion and investment protection.

Products	Portable and Powerful
DIGITAL HiNote Ultra Enhanced Port Replicator	The DIGITAL HiNote Ultra 2000 notebook can be used as a full office PC by connecting it to the DIGITAL HiNote Ultra Enhanced Port Replicator.
	The DIGITAL HiNote Ultra Enhanced Port Replicator provides full port replication plus a battery charge bay. The DIGITAL HiNote Ultra Enhanced Port Replicator has a port for a physical locking device that provides security for your notebook computer by allowing you to fasten it to your desk.
	It eliminates the need to disconnect and reconnect several desktop devices each time you move your notebook onto or off of your desk.
DIGITAL HiNote Ultra Multimedia Dock	The DIGITAL HiNote Ultra Multimedia Dock provides all the functions of a desktop docking station in a thin and light form factor. The DIGITAL HiNote Ultra Multimedia Dock provides you with the hardware necessary to deliver outstanding multimedia presentations. It has three speakers (two full range speakers and a sub-woofer), CardBus slots (two Type II/ one Type III), MIDI/Joystick port, 3D sound and wavetable support, CD-ROM/Diskette Drive module bay, NTSC/PAL video output, and a USB port.

Optional Memory

Your DIGITAL HiNote Ultra 2000 notebook computer comes with 16MB or greater of onboard EDO memory. You can add additional memory for a total of 144MB or greater.

Additional memory is available in 8MB, 16MB, 32MB, and 64MB SO-DIMMs. When installing DIMMs, they can be installed as single modules.

CAUTION _____

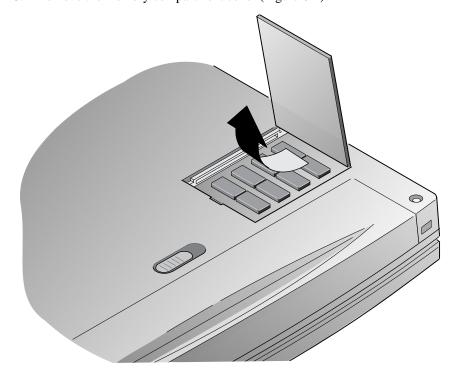


- You must turn Off the notebook computer's power before removing or installing memory. Failure to turn off the power might damage the notebook computer or memory module.
- Static electricity can cause damage to the memory module.
 Before handling the memory module, be sure to discharge all static electricity from your body by touching an exposed conductive surface of your notebook computer's chassis.
- If you frequently handle memory modules, it is recommended that you purchase a static electric wrist band. Contact your DIGITAL notebook dealer for purchasing details.

Installing Optional Memory

To install additional memory:

- 1. Save all data and shutdown any running applications and turn off the notebook computer by pressing and holding [fn] + [Suspend/Resume] button for four seconds.
- 2. Turn the unit over so the bottom is facing up.
- 3. Remove the memory compartment cover (Figure 6-1).



DEC01147

Figure 6-1 Removing Memory Compartment Cover

Expansion Devices and Options

- 4. Align the notch in the 3.3v EDO memory module with the plastic tab in the memory cradle (Figure 6-2, step 1).
- 5. Install the memory module by inserting it at an angle into one of the two sockets (Figure 6-2, step 2). Make sure the module is firmly seated in the socket.
- 6. Press the module down until it snaps into place (Figure 6-2, step 3).
- 7. Replace the memory compartment cover and press around the edges to make sure it is properly seated.

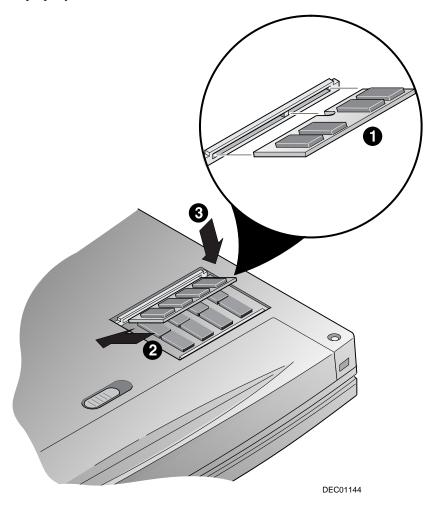


Figure 6-2 Installing Memory

Removing Memory

To remove memory:

- 1. Save all data and shutdown any running applications.
- 2. Turn off the notebook computer by pressing and holding the [fn] + [Suspend/Resume] button for four seconds.
- 3. Turn the unit over so the bottom is facing up.
- 4. Remove the memory compartment cover (Figure 6-1).
- 5. Push the tabs away from the edge of the memory module to be removed.
- 6. Lift the memory module out of the system.
- 7. Replace the memory compartment cover and press around the edges to make sure it is properly seated.

Replacing the Removable Hard Disk Drive

Your DIGITAL HiNote Ultra 2000 computer has a removable hard drive. The following procedures describe how to remove and install the hard drive.

	Caution
•	The power must be turned off. Failure to turn off the power might damage the notebook computer or hard drive. Static electricity can cause damage to the hard drive. Before handling the hard drive, be sure to discharge all static electricity from your body by touching an exposed conductive surface of your notebook computer's chassis.

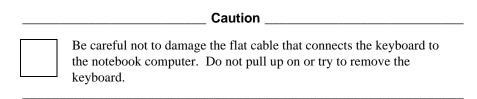
Removing the Hard Drive

To remove the hard drive (Figure 6-3 through Figure 6-5):

- 1. Save all data and close all programs.
- 2. Turn off your notebook computer by pressing and holding the [fn] + [Suspend/Resume] button for four seconds.

Expansion Devices and Options

- 3. Unlatch the keyboard by sliding the Keyboard latches toward the LCD display (Figure 6-3, step 1).
- 4. Carefully lift the keyboard up and rotate it toward the LCD display (Figure 6-3, step 2).



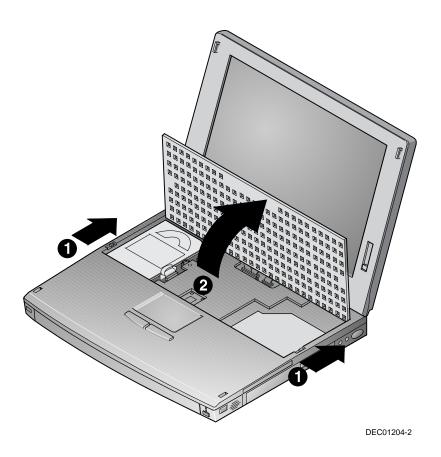


Figure 6-3 Releasing the Keyboard

- 5. Slide the latch that holds the hard drive in place to the unlocked position (Figure 6-4, step 1).
- 6. Pull up on the attached ribbon loop (Figure 6-4, step 2).

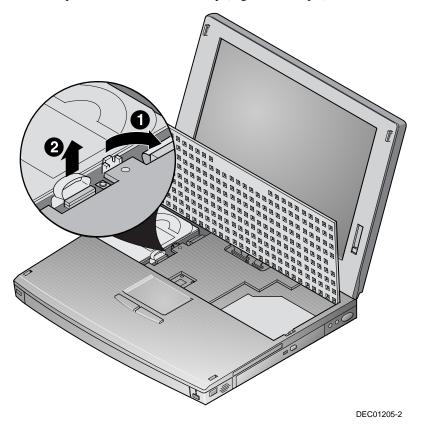


Figure 6-4 Releasing the Hard Drive

Expansion Devices and Options

7. Remove the hard drive (Figure 6-5).

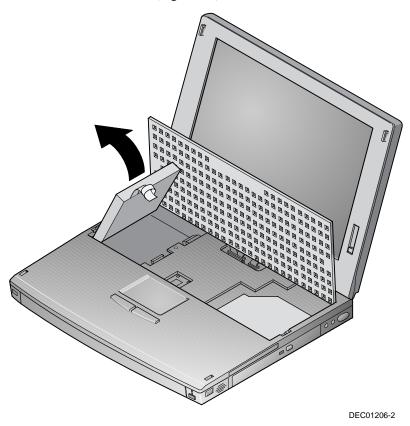


Figure 6-5 Removing the Hard Drive

Installing the Hard Drive

To install the hard drive (Figure 6-6 through Figure 6-8):

- 1. Slide the left side of the hard drive down and into the computer (Figure 6-6).
- 2. Ensure that the hard drive is securely seated (Figure 6-7, step 1).

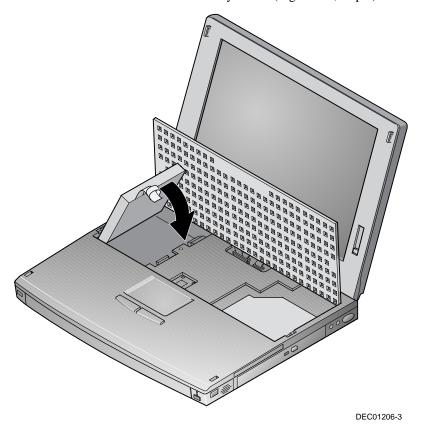


Figure 6-6 Inserting the Hard Drive

Expansion Devices and Options

3. Slide the hard drive latch into the locked position (Figure 6-7, step 2).

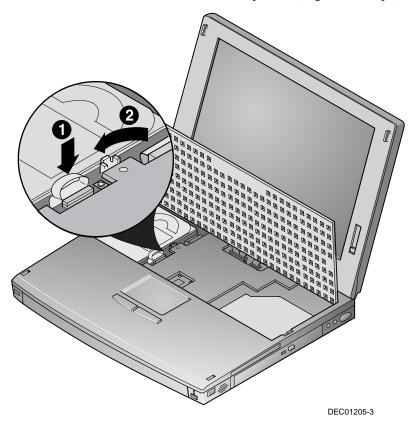


Figure 6-7 Locking the Hard Drive

- 4. Lower the keyboard back into place (Figure 6-8, step 1).
- 5. Slide the keyboard latches into the locked position (Figure 6-8, step 2).

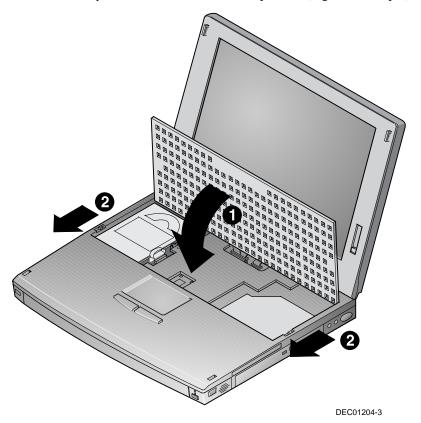


Figure 6-8 Replacing the Hard Drive

CD-ROM/Diskette Drive Module

To remove CD-ROM or Diskette Drive module:

- 1. Slide the release latch located on the bottom of the notebook computer to the unlocked position (Figure 1-4, callout number 3).
- 2. Pull the CD-ROM/Diskette Drive module out of the system (Figure 6-9).

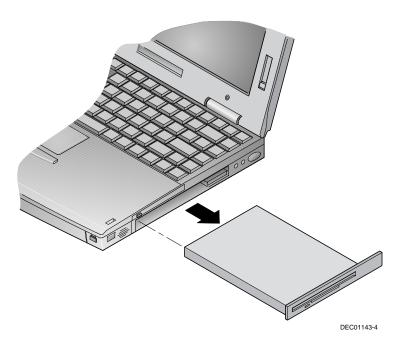
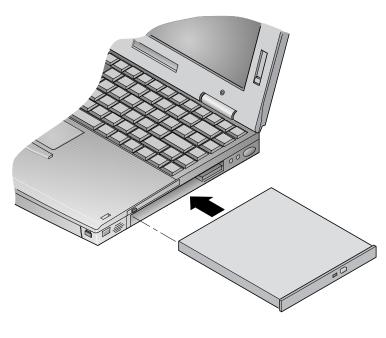


Figure 6-9 Removing CD-ROM/Diskette Drive Module

3. To install a CD-ROM/Diskette Drive module, slide the module into the system (Figure 6-10).



DEC01143-2

Figure 6-10 Installing CD-ROM/Diskette Drive Module

DIGITAL HiNote Ultra Enhanced Port Replicator

The DIGITAL HiNote Ultra 2000 notebook can be used as a full office PC by connecting it to the DIGITAL HiNote Ultra Enhanced Port Replicator.

The hot dockable DIGITAL HiNote Ultra Enhanced Port Replicator provides full port replication plus a battery charge bay. The DIGITAL HiNote Ultra Enhanced Port Replicator has a port for a physical locking device that provides security for your notebook computer by allowing you to fasten it to your desk.

It eliminates the need to disconnect and reconnect several desktop devices each time you move your notebook on or off your desk. It also provides a comfortable typing angle.

Connections and Controls

Connector/Control	Description	
Battery Charging Bay	Charge a battery with or without the notebook computer docked to the DIGITAL HiNote Ultra Enhanced Port Replicator.	
2 Docking LED	When lit, indicates that the device is docked. When off, indicates that the device is undocked or can be undocked.	
3 Undock Request Button	Used to the send an Undock request to the operating system.	
4 Release Button	Located on either side of the system, these buttons are used to undock the device. They are locked when the Docking LED is On or if Dock Security is enabled and the correct password has not been supplied.	
6 Charge LED	Indicates that the battery in the Charge Bay is being charged.	
6 Docking Connector	Mates with the docking connector of the system unit.	

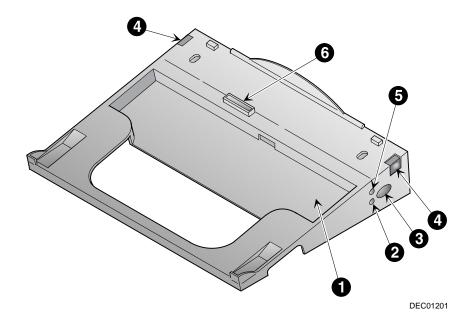


Figure 6-11 DIGITAL HiNote Ultra Enhanced Port Replicator (Front View)

Connector/Control	Description	
• AC In	Input connection for AC adapter.	
2 Mouse Connector	PS/2 style connector for a mouse.	
3 RJ45 Port	Reserved for future network connection.	
4 Serial Port	A serial device connects to this port.	
Parallel Port	A parallel device, such as a printer connects to this port.	
6 Video Port	A monitor connects to this port.	
7 USB Port	A USB (Universal Serial Bus) device connects to this port. Only available when used with the optional DIGITAL HiNote Ultra Multimedia Dock.	
8 Keyboard Connector	PS/2 style connector for a keyboard.	

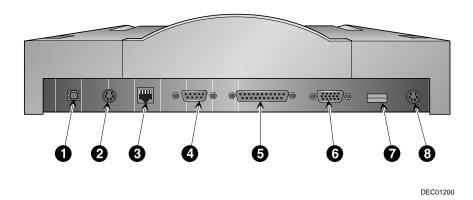


Figure 6-12 DIGITAL HiNote Ultra Enhanced Port Replicator Port (Back View)

Connecting the DIGITAL HiNote Ultra Enhanced Port Replicator

The DIGITAL HiNote Ultra Enhanced Port Replicator supports hot docking with the notebook computer. It also supports hot docking of the DIGITAL HiNote Ultra Multimedia Dock with the notebook computer attached.

To connect the DIGITAL HiNote Ultra Enhanced Port Replicator (refer to Figure 6-13):

- 1. Close the I/O Connector cover on the back of the notebook computer.
- 2. Slide open the docking connector door located on the bottom of the notebook computer (Figure 6-13, step 1).

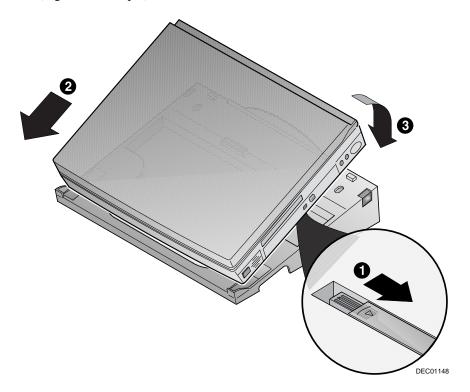


Figure 6-13 Installing the DIGITAL HiNote Ultra Enhanced Port Replicator

- 3. Slide the notebook computer into the DIGITAL HiNote Ultra Enhanced Port Replicator (Figure 6-13, step 2).
- 4. Press down on the back of the notebook computer to engage the latches that hold the units together (Figure 6-13, step 3).

 If not already attached, connect the supplied Universal AC adapter, external monitor, mouse, keyboard and other devices to the DIGITAL HiNote Ultra Enhanced Port Replicator.

Removing the DIGITAL HiNote Ultra Enhanced Port Replicator

To remove the DIGITAL HiNote Ultra Enhanced Port Replicator from the notebook computer:

- 1. While the system is running:
 - Press the Undock request button located on the right side of the DIGITAL HiNote Ultra Enhanced Port Replicator (Figure 6-14, step 2), or
 - Make an Undock request from Windows.

If Dock Security is enabled, you will be prompted for a password before the undock request will be granted and the release buttons unlocked.

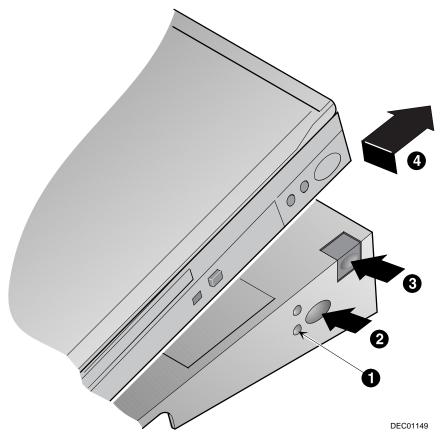


Figure 6-14 Removing DIGITAL HiNote Ultra Enhanced Port Replicator

		Note		
		When Dock Security is enabled, you cannot undock the DIGITAL HiNote Ultra Enhanced Port Replicator when the system is in Suspend mode or powered off. When Dock Security is disabled, the DIGITAL HiNote Ultra Enhanced Port Replicator can be undocked with the system powered off.		
	2.	Wait for the Docking LED next to the Undock button to turn off (Figure 6-14, ste	ep 1).	
	3.	Simultaneously press the release buttons located on the left and right of the DIGITAL HiNote Ultra Enhanced Port Replicator (Figure 6-14, step 3).		
	4.	Lift the notebook computer up and away from the DIGITAL HiNote Ultra Enhander Port Replicator (Figure 6-14, step 4).	iced	
Charg Replic	_	g a Battery Using the DIGITAL HiNote Ultra Enhanced Port		
·	Th pa	ne DIGITAL HiNote Ultra Enhanced Port Replicator provides a bay to charge a bat ack. You can charge a battery with or without the notebook computer attached to the IGITAL HiNote Ultra Enhanced Port Replicator.		
		WARNING		
		To prevent risk of fire and exposure to hazardous energy, do not crush, puncture, incinerate, or disassemble the battery. Do not expose to fire or heat above 60 degrees Celsius. The supplied battery is designed for use with the DIGITAL HiNote Ultra 2000 series notebook personal computer and accessories.		
		CAUTION		
		There is a danger of explosion if a lithium battery is incorrectly replaced. Lithium batteries must be replaced with the same or equivalent type recommended. Replace the main system battery only with DIGITAL HiNote Ultra 2000 series of rechargeable Lithium Ion battery packs. For more information contact your DIGITAL Service Center.		

Battery Recycling and Disposal





Recycle or dispose of batteries contained in this product properly, in accordance with local regulations for battery type as marked on the battery. Prior to disposal or recycling, protect batteries against accidental short circuiting by affixing non-conductive tape across battery terminals and conductive surfaces.

If the battery is not marked, or if you require other information, consult your nearest DIGITAL Service Center.

To charge a battery pack:

- 1. Place the battery pack in the DIGITAL HiNote Ultra Enhanced Port Replicator (Figure 6-15, step 1).
- 2. Ensure that the battery is securely seated in the charge bay (Figure 6-15, step 2).
- 3. Connect the supplied Universal AC adapter to the DIGITAL HiNote Ultra Enhanced Port Replicator.
- 4. The Charge LED is lit, indicating the battery is charging (Figure 6-15, step 3).

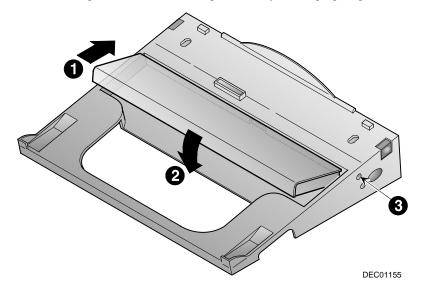


Figure 6-15 Charging Battery Pack in DIGITAL HiNote Ultra Enhanced Port Replicator

DIGITAL HiNote Ultra Multimedia Dock

The DIGITAL HiNote Ultra Multimedia Dock provides all the functions of a desktop docking station in a thin and light-weight form factor. It provides you with the hardware needed to deliver outstanding multimedia presentations. The DIGITAL HiNote Ultra Multimedia Dock provides three speakers (two full range speakers and a sub-woofer), CardBus slots (two Type II/ one Type III), MIDI/Joystick port, 3D sound and wavetable support, CD-ROM/Diskette Drive module bay, NTSC/PAL video output, and a USB port.

Connections and Controls (Left Side)

Connector/Control	trol Description	
• Line In	Connection for a stereo input.	
2 Audio Out	Connection for headphones or external stereo speakers. The internal speakers are disabled when a device is connected.	
3 USB	A USB (Universal Serial Bus) device connects to this port.	
PC Card Releases	Release a PC Card inserted in the adjacent slot.	
6 PC Card Slots	Support two Type I or II cards or one Type III card.	
6 MIDI/Joystick Connector	Allows you to connect a MIDI device or joystick to the system.	
7 Release Button	Located on either side of the system, these buttons are used to undock the device. They are locked when the Docking LED is On or if Dock Security is enabled and the correct password has not been supplied.	

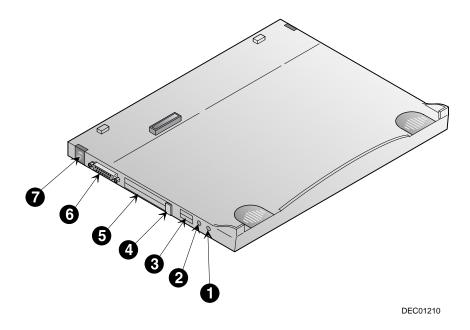


Figure 6-16 DIGITAL HiNote Ultra Multimedia Dock Connections and Controls (Left Side)

Connections and Controls (Right Side)

Connector/Control	Description	
Docking LED	When lit, indicates that the device is docked. When Off, indicates that the device can be undocked.	
2 Undock Request Button	Used to the send an Undock request to the operating system.	
3 S-Video Connector	S-Video output (only) allows you to connect the system to an S-Video device.	
4 Video (RCA) Connector	Composite video output (only) allows you to connect the system to an appropriate video device.	
CD-ROM/Diskette Drive Bay	Accepts a CD-ROM or Diskette Drive module.	
6 Release Button	Located on either side of the system, these buttons are used to undock the device. They are locked when the Docking LED is On or if Dock Security is enabled and the correct password has not been supplied.	
7 TV Switch	Located on back of unit, this switch selects the output mode of the TV outputs: NTSC, PAL, or Off.	
	For the best picture quality when using an external computer monitor, this switch must be set to the Off position.	
	For the best picture quality when using the video outputs, any external computer monitor must be disconnected and the appropriate video encoding (NTSC or PAL) selected.	
8 Docking Connector	Mates with the docking connector of the system unit.	
Full Range Speakers	Provides left and right stereo output.	

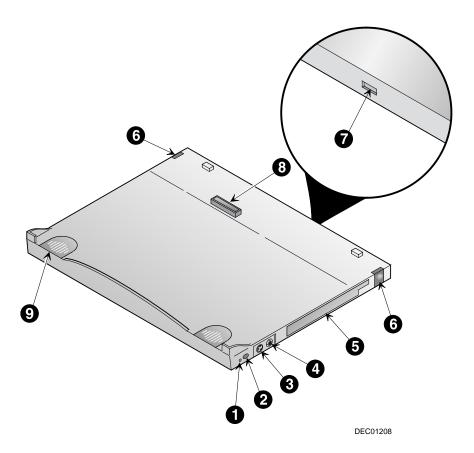


Figure 6-17 DIGITAL HiNote Ultra Multimedia Dock Connections and Controls (Right Side)

Connections and Controls (Bottom)

Connector/Control	Description
Subwoofer	Provides lower frequency audio output.
2 Docking Connector	Used when connecting to the DIGITAL HiNote Ultra Enhanced Port Replicator. Slide open the cover before connecting to the DIGITAL HiNote Ultra Enhanced Port Replicator.
3 Drive Bay Latch	Releases the drive module so it can be removed.

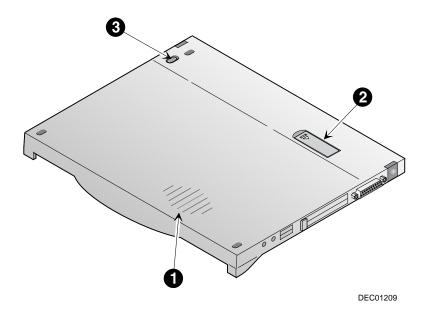


Figure 6-18 DIGITAL HiNote Ultra Multimedia Dock Connections and Controls (Bottom)

Connecting the DIGITAL HiNote Ultra Multimedia Dock

The DIGITAL HiNote Ultra Multimedia Dock can be hot docked with the notebook computer.

To connect the DIGITAL HiNote Ultra Multimedia Dock:

- 1. Slide open the docking connector door located on the bottom of the notebook computer (Figure 6-19, step 1).
- 2. Slide the notebook computer into the DIGITAL HiNote Ultra Multimedia Dock (Figure 6-19, step 2).
- 3. Press down on the back of the notebook computer to engage the latches that hold the units together (Figure 6-19, step 3).

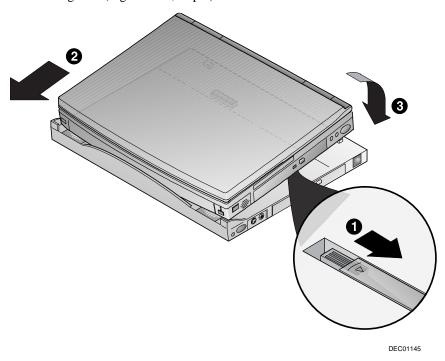


Figure 6-19 Connecting the DIGITAL HiNote Ultra Multimedia Dock

Removing the DIGITAL HiNote Ultra Multimedia Dock

To remove the DIGITAL HiNote Ultra Multimedia Dock from the notebook computer:

- 1. When the system is running:
 - Press the Undock request button located on the right side of the DIGITAL HiNote Ultra Multimedia Dock (Figure 6-20, step 1), or
 - Make an Undock request from Windows.

If Dock Security is enabled, you will be prompted to supply a password before the undock request will be granted and the release buttons unlocked.

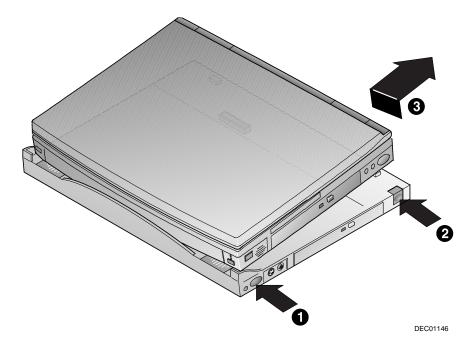


Figure 6-20 Removing the DIGITAL HiNote Ultra Multimedia Dock

Note	
When Dock Security is enabled, you cannot undock the DIGITAL HiNote Undultimedia Dock if the system is in Suspend mode or powered off. The system to be on and you must press the Undock request button or make an Uncorequest from Windows.	stem

- 2. Wait for the Docking LED next to the Undock button to turn off.
- 3. Press the release buttons located on the left and right of the DIGITAL HiNote Ultra Multimedia Dock (Figure 6-20, step 2).
- 4. Lift the notebook computer up and away from the DIGITAL HiNote Ultra Multimedia Dock (Figure 6-20, step 3).

Troubleshooting

This chapter provides troubleshooting tables listing specific problems, probable causes, and recommended actions to take if your notebook computer fails after you configure it or after you install optional hardware or software:

- Notebook Computer Troubleshooting
- PC Card Troubleshooting
- LCD Troubleshooting
- Audio and IR Troubleshooting

DIGITAL Web Site

Please visit the DIGITAL Windows Enterprise Computing Center Web site to download the latest DIGITAL HiNote Ultra 2000 Series operating system drivers and User Information. To navigate to the Drivers/ User Information location:

- 1. Type in the Web site address: http://www.windows.digital.com/
- 2. Click on the [Service and Support] hot spot.
- 3. Scroll down to the Firmware and Drivers bullet and change [Select Library] to Intel-based systems. Click on the [Go] button.
- Scroll to the HiNote Portables Table of Contents and click on HiNote Ultra 2000 notebook.

Click on the desired Driver or User Information to download the data to your hard drive. The HiNote Ultra 2000 Series User Guide Information can be browsed by using Adobe Acrobat Reader (available on the DIGITAL HiNote System CD).

Notebook Computer Troubleshooting

Problem	Possible Cause	Action
System does	Battery Pack is drained.	Charge the Battery Pack.
not start when the notebook	Battery Pack is defective.	Replace the Battery Pack.
computer is turned on and	Main logic board failure.	Press the Reset Button located under the keyboard and next to the hard drive.
running on battery power.		Contact your DIGITAL service representative.
System does not start when	AC Adapter is not connected properly.	Make sure the adapter is properly connected to the notebook computer and to its power source.
the notebook computer is turned on while	No power from the external power source, such as a wall outlet.	Check the external power source by connecting another device to it.
connected to an external	Main logic board failure.	Press the Reset Button located under the keyboard and next to the hard drive.
power source.		Contact your DIGITAL service representative.
Application software or	Insufficient notebook computer memory.	Close open applications.
files failing to	1	Install an optional memory module.
load with an out of memory error message.	Main logic board failure.	Press the Reset Button located under the keyboard and next to the hard drive.
citor message.		Contact your DIGITAL service representative.
Notebook computer operates	Memory module installed incorrectly.	Remove memory module and reinstall (Figure 6-1, 6-2). Power off the notebook before removing the memory door.
incorrectly	Memory module failed.	Replace memory module.
after installing an optional memory module.	Used non-qualified memory.	Refer to the list of qualified memory DIMMs located in the DIGITAL Windows Enterprise Web site.
	Main logic board failure.	Press the Reset Button located under the keyboard and next to the hard drive.
		Contact your DIGITAL service representative.

computer does not boot from the hard disk drive. Or wa the correct rectangle or computer does en or computer does en or computer does en or computer de correct rectangle or computer does en or computer doe	rloppy Boot" option abled in Setup perating system soft- are is not installed on e hard disk drive. ard disk drive is not crrectly formatted or the quested partition does to exist.	Remove the diskette from drive A. Install the appropriate operating system. Format the hard disk drive or partition the hard disk drive using the DIGITAL HiNote System CD.
the hard disk drive. Ha co rec	are is not installed on e hard disk drive. ard disk drive is not rrectly formatted or the quested partition does	Format the hard disk drive or partition the hard disk drive using the DIGITAL HiNote System
corec	rrectly formatted or the quested partition does	disk drive using the DIGITAL HiNote System
	nere is no software on e requested partition.	Install software on the requested partition.
computer does not boot from	Floppy Boot" option is ot enabled in Setup.	Enable "Floppy Boot" via Setup. Reboot the system and press [fn] + [F3] when prompted to enter Setup.
Deixio	iskette does not contain vstem files.	Insert a system diskette.
D	iskette drive is empty.	Insert a system diskette.
	iskette is worn or amaged.	Try another diskette.
Di	iskette drive failed.	Contact your DIGITAL service representative.
drive cannot or	iskette is not formatted formatted incorrectly.	Format the diskette.
information	iskette is worn or amaged.	Try another diskette.
	iskette is write- otected.	Slide the write-protect switch so the hole is not visible.
D	iskette drive is empty.	Insert a diskette.
Di	iskette drive failed.	Contact your DIGITAL service representative.

Troubleshooting

Problem	Possible Cause	Action
An external monitor is	Loose or incorrect cable connections	Check all cable connections, including AC power (Figure 5-2).
connected and is not working.	The notebook's video mode may be in LCD only.	Use the [fn] + [F4] key combination to switch to CRT or Simul (simultaneously viewing both LCD and CRT) mode.
	Monitor does not support multi-sync and/or higher resolutions.	Some older monitors are not multi-sync and higher resolutions will not sync up. Set the display output for external monitor only with [fn] + [F4]. Using the Display applet from the Windows Control Panel, select a resolution supported by the monitor.
		If you attach an XVGA monitor to the notebook, the system must also be set at XVGA.
Notebook computer locks up.	Software or hardware configuration problem.	Reset the notebook computer by pressing the Reset button located under the keyboard next to the hard drive.
		Check all software and hardware configurations.
		Contact your DIGITAL support help line.

LCD Troubleshooting

Problem	Possible Cause	Action
Power is on, but there is no	LCD brightness incorrectly set.	Adjust the LCD brightness using the brightness hot key combinations (Chapter 1).
LCD display.	Contrast is incorrectly set (ASTN screens only).	Adjust the Contrast using the slide control next to the LCD display.
	Notebook computer switched to Suspend.	Press the Suspend/Resume button.
	Notebook computer LCD Timer Setting went into effect.	Press a key on the keyboard or move your finger across the touch pad.
	Notebook computer	$Press\ [fn]+[F4]\ until \ the\ LCD\ screen\ displays.$
	running in CRT mode.	Press a keyboard key or click on the touch pad.
	Screen saver utility installed.	

PC Card Troubleshooting

Problem	Possible Cause	Action
Problem	Possible Cause	Action
PC Card does not work.	Card improperly inserted.	Insert the card label-side up. Card is inserted properly. You should hear at least 1 short beep. Two beeps indicate the card has been inserted properly and recognized.
	Device drivers missing	Run the troubleshooting wizard from the operating system's on-line help.
	or improperly installed. Card not supported.	Refer to the DIGITAL Windows Enterprise Web site for a list of supported PC Cards
Network card does not work despite a double beep indicating the network card was properly recognized and configured by your notebook computer.	Network configuration problem.	Further adjustments might need to be made depending on your network configuration. Refer to your network documentation or request the assistance of your Network Administrator.

Troubleshooting

Problem	Possible Cause	Action
SRAM card does not work (single beep).	Missing device driver(s).	Refer to the operating system's on-line help for information on configuring SRAM PC Cards.
SRAM card	Incorrect drive letter	Refer to operating system's on-line help.
does not work (double beep).	assigned. SRAM card not	To format the SRAM card, insert the card in a PC Card slot and then type:
	formatted.	format [drive letter]:
		If the problem persists, call your DIGITAL service representative.
ATA card does not work (single beep).	Card not supported.	Contact your DIGITAL service representative.
ATA card does not work	Missing device driver(s).	The PC Card Wizard will detect the missing device drivers and load them.
(double beep).	Unformatted ATA card	Refer to the operating systems on-line help for information on troubleshooting PC Cards.

______ WARNING ______



High voltages exist inside the Liquid Crystal Display (LCD) enclosure (notebook computer's screen display). To prevent electrical shock, do not open the LCD enclosure. If the LCD needs repair, return it to your DIGITAL service representative.

Audio and IR Troubleshooting

Problem	Possible Cause	Action
Sound is not working.	Configuration problem.	From the Windows Control Panel double- click the System icon and verify the sound device is properly configured and the drivers are loaded.
		Press [fn] + [F7] to turn on the internal audio feature.
	Audio volume needs to be increased.	Adjust audio volume with the volume control hot keys (Chapter 1).
File does not transfer.	Your FIR port is located too far from the other device's Infrared	Position your notebook closer to the other device's Infrared transceiver.
	accessory.	Make sure your notebook computer's FIR
same plane with your computed desktop computer's your tare	same plane with your desktop computer's	port is in a direct line with your target computer's Infrared accessory. Refer to your target computer's Infrared documentation for more information.
	FIR port in disabled.	Press [fn] + [F3] to enter the System Setup and enable the FIR port. Refer to Chapter 4 if you require additional information about System Setup.



Technical Specifications

System Specifications

	M	lodel
Feature	VTS5166M	GTX5166M
CPU Intel Pentium	166 MHz MMX	166 MHz MMX
LCD	12.1" SVGA TFT	14.1" XGA TFT
HDD	2.1 GB	2.1 GB
Upgradeable HDD	Yes	Yes
L2 Cache	512KB	512KB
Base RAM	16MB – EDO 3.3v	16MB – EDO 3.3v
Maximum RAM	144MB	144MB
RAM Expansion	Dual 144 pin SO–DIMM 3.3v self-refresh	Dual 144 pin SO–DIMM 3.3v self-refresh
Battery	LiIon – 8 cell 36Whrs	LiIon – 12 cell 54Whrs
Audio	Yes	Yes
CardBus/Zoomed Video	Supported	Supported
Fast IR (4 Mbps)	Yes	Yes
Integrated CD-ROM	≥11X	<u>≥</u> 11X
Integrated Modem	Optional*	33.6kbps software upgradeable to 56kps
MPEG PC Card	Optional	Optional
Pointing Device	Touch pad	Touch pad

^{*} Available separately as a customer installable option.

Technical Specifications

	ı	Model
Feature	VTS5166M	GTX5166M
DIGITAL HiNote Ultra Enhanced Port Replicator	Optional	Optional
DIGITAL HiNote Ultra Multimedia Dock	Optional	Optional
Size	9.7" x 12" x 1.25"	9.7" x 12" x 1.4"
Weight (no FDD or CD-ROM in bay)	4.8 lbs. (approximate)	5.8 lbs. (approximate)
Weight (FDD in bay)	5.2 lbs. (approximate)	6.2 lbs. (approximate)
Weight (CD-ROM in bay)	5.45 lbs. (approximate)	6.45 lbs. (approximate)
Operating System	Windows 95 or Windows NT 4.0	Windows 95 or Windows NT 4.0
Warranty	3 years	3 years

The information in this document is subject to change without notice and should not be construed as a commitment by Digital Equipment Corporation.

Environment

Storage Temperature: 0° Celsius to 60° Celsius (32° F to 140° F)

Environmental Information

This product has been designed and manufactured to achieve environmental compatibility.

Use of Brominated Flame Retardants In Enclosure Parts

The thermoplastic enclosures do not contain polybrominated diphenylether (PBDE) as a flame retardant additive; and therefore, they are not suspected to emit toxic dibenzofuran and dibenzodioxin gases.

Asbestos

Digital Equipment Corporation does not use asbestos in any form in the manufacturing of its products. The use of asbestos in DIGITAL's products is prescribed by our internal design standard EL-00136-00, "DIGITAL Policy on Government-Regulated Materials in DIGITAL Products."

Ozone Depleting Substance (ODS)

This product is in full compliance with the labeling requirements in the Clean Air Act Amendments of 1990 (USA). It does not contain nor is it manufactured with a Class 1 ODS, as defined in title VI Section 611 of that act.

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