

Appendix 4 Instruction Manual

GETTING STARTED AND REFERENCE GUIDE

CASSIUS PC

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Published November 2000.

Document number (DEN-CAS-1.00-GR-1.00A-UK)

Version 1.0 C3600 Cassius

Document Revision History

Revision	Date	Comments
1.0	7/12/2000	First release

Contents

About This Guide.....	v
Documentation Available	vi
Typographical Conventions	vi
 CHAPTER 1	 1-1
Getting Started.....	1-1
What's in the Box?	1-2
Getting to Know your Cassius PC	1-3
Cordless Keyboard and Mouse	1-11
Safety Precautions	1-15
Switching On	1-18
Windows 2000 Emergency Repair Diskette (where applicable)	1-20
 CHAPTER 2	 2-1
Using your Cassius PC.....	2-1
Introduction	2-2
Remote Control	2-2
TV Tuner	2-4
FM Radio Tuner	2-6
DVD Player	2-7
 CHAPTER 3	 3-1
Maintaining your Cassius PC	3-1
Introduction	3-2
Cleaning your Cassius PC	3-2
Memory Expansion	3-2
System Battery Replacement	3-4
PC Card Slot	3-6
Other Queries	3-7
 CHAPTER 4	 4-1
Reinstalling Software.....	4-1
Reinstalling Drivers	4-2

Obtaining New Drivers	4-2
Reinstalling Programs	4-2
CHAPTER 5	5-1
Bios Setup	5-1
The BIOS Setup	5-2
Using the Bios Setup	5-2
Changing your Bios Settings	5-3
CHAPTER 6	6-1
Troubleshooting	6-1
Problems Switching On	6-2
Problems with your Keyboard and Mouse	6-4
APPENDIX A	A-I
Regulatory Statements and Battery Disposal	A-I
CE Symbol	A-II
FCC Part 68	A-II
FCC Part 15	A-III
Laser Compliance Statement	A-IV
Disposing of the System Battery	A-V
Liquid Crystal Display Warning	A-V
Macrovision Copy Protection	A-VI
Japanese Telecommunication Business Law	A-VI
APPENDIX B	B-1
Overview	B-1
Computers Explained	B-2
Your Cassius PC	B-5
Index	

About This Guide

This section describes the contents and conventions of this guide and provides a list of available Cassius PC documentation.

The *Cassius PC Getting Started and Reference Guide* contains the chapters and appendix shown below.

Chapter 1: Getting Started — Describes how to start using your Cassius PC.

Chapter 2: Using Your Cassius PC — Describes ways you can use your Cassius PC.

Chapter 3: Maintaining Your Cassius PC — Describes how to maintain and upgrade your Cassius PC.

Chapter 4: Reinstalling Software — Describes how to reinstall software on your Cassius PC.

Chapter 5: Bios Setup — Describes the bios setup facility.

Chapter 6: Troubleshooting – Describes how to resolve problems with your Cassius PC.

Appendix A: Regulatory Statements and Battery Disposal — Describes the CE symbol, the FCC statements to which your Cassius PC conforms and how to dispose of your system battery.

Appendix B: Overview – Provides a specification of your Cassius PC and a brief explanation of some computer terminology.

Documentation Available

The Cassius PC documentation set consists of:

Cassius PC Getting Started and Reference Guide — Describes how to set up and use your Cassius PC.

www.cassiuspc.com and www.cassiuspc.co.uk — Provides online information about your Cassius PC.

Typographical Conventions

This guide uses the typographical conventions shown below.

Convention	Used
<i>Italic</i>	For cross-references.
Bold	For features, buttons, menu options and field names.
>	To indicate a menu option. For example, Select File > Exit .
▪ Bullets	For lists and instructions.

CHAPTER 1

Getting Started

This chapter describes how to start using your Cassius PC.

In This Chapter

- What's in the Box
- Getting to Know your Cassius PC
- The Cordless Keyboard and Mouse
- Safety Precautions
- Switching On
- Windows 2000 Emergency Repair Diskette

What's in the Box?

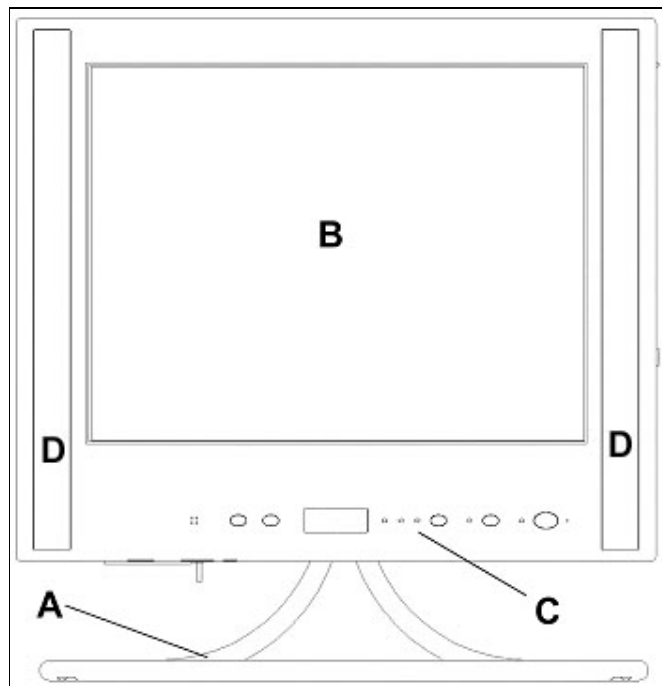
Your Cassius PC comes with the equipment listed below.

- Main unit, including a stand.
- Cordless keyboard and wrist rest.
- Cordless mouse.
- Batteries for the keyboard and mouse.
- Hardware drivers on the *Cassius PC Software* CD.
- Software disks and licence documentation for the operating system.
- AC power cord.
- *Cassius PC Getting Started and Reference Guide*.
- FM antenna (Cassius Entertainment Only).
- Remote control handset (Cassius Entertainment Only).

Getting to Know your Cassius PC

Front View of your Cassius PC

The front view of your Cassius PC is shown below.

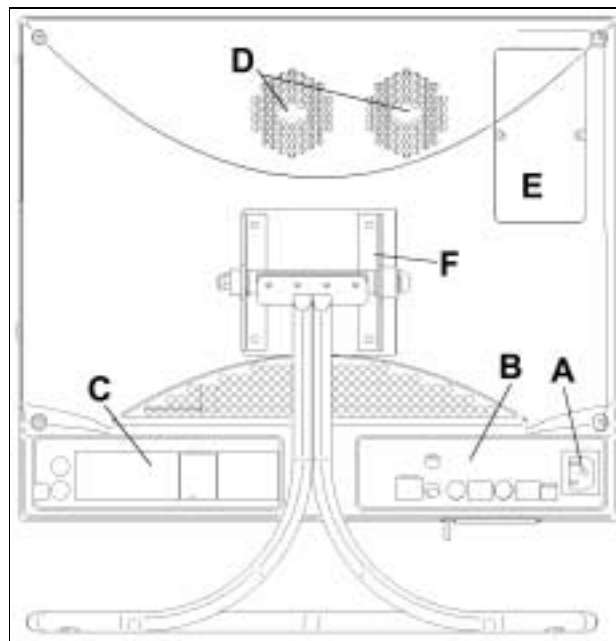


Each feature is described below.

Item	Description	Function
A	Stand	Supports your Cassius PC.
B	15" Flat Screen	Provides a sharp, flicker free display.
C	Button Panel	Refer to <i>Button Panel</i> , page 1-7.
D	Integral Speakers	Outputs stereo audio.

Rear View of your Cassius PC

The rear view of your Cassius PC is shown below.



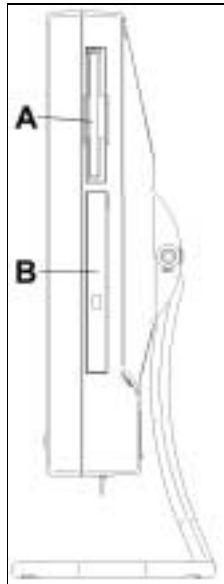
Each feature is described below.

Item	Description	Function
A	Power Socket	Connect your AC power cord to this port.
B	Connection Block 1 (Intertainment Only)	Refer to <i>Connection Block</i> .
C	Connection Block 2	Refer to <i>Connection Block 2</i> .
D	Heat Vents	Used to help keep the system cool. DO NOT BLOCK.
E	Memory Door	Used to access the memory bay for upgrading memory and replacing the CMOS Battery.

Item	Description	Function
F	VESA Mounting Plate	Attaches your Cassius PC to any VESA Standard mounting arms or stands.

Side View of your Cassius PC

The side view of your Cassius PC is shown below.



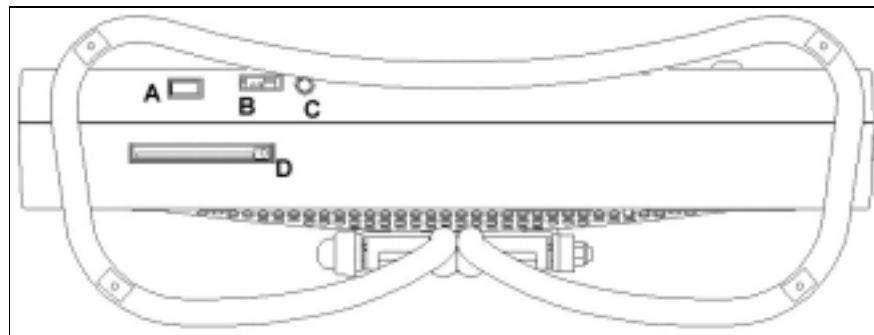
Each feature is described below.

Item	Description	Function
A	Floppy Disk Drive (3½ inch). The eject button is at the top of the drive.	For use with 3.5" floppy disks. Insert floppy discs with the label towards the front of your Cassius PC.

Item	Description	Function
B	DVD Drive (Entertainment) or CD ROM Drive (Pro)	The DVD drive accepts all CDs and DVDs. The CD drive will accept CDs only. The eject button only operates with power. After ejecting the tray, draw it out fully. Insert disc firmly, pushing at centre until it clicks in place over the spindle with the label visible. If the unit is switched off, you can eject the CD/DVD tray by inserting a straightened paper clip into the hole beside the eject button.

Bottom View of your Cassius PC

The bottom view of your Cassius PC is shown below.



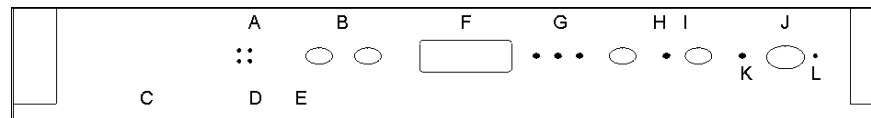
The table below describes each feature.

Item	Description	Function
A	USB Socket	Allows you to connect external USB devices.
B	Rotary Volume Control	Sets volume level for the built-in speakers.

Item	Description	Function
C	Headphone Socket	Allows you to connect headphones. Speakers become mute when you connect headphones.
D	PCMCIA Socket	Allows you to connect Type I and Type II PC Cards. Either the blank card supplied or your PCMCIA card should be in this socket. The socket should not be left empty.

Button Panel

The button panel of your Cassius PC is shown below.



The table below describes each feature.

Item	Description	Function
A	Internal Microphone	Allows you to provide audio input.
B	LCD Brightness Control Buttons	Brightness setting remains the same when the system is switched off.
C	USB Socket	Allows you to connect external USB devices.
D	Rotary Volume Control	Sets volume level for the built-in speakers.
E	Headphone Socket	Allows you to connect headphones. Speakers become mute when you connect headphones.
F	Infrared Window	For use with the remote control and IrDA function. Keep this window clean.

G	Three LEDs and a button for the internal wireless keyboard.	The left LED indicates Caps Lock; the centre LED indicates Num Lock; the right LED and the button are for connection, refer to the manual for the keyboard. These LEDs only show the status of the wireless keyboard. If an external keyboard is plugged into the purple external keyboard socket on the rear of your Cassius PC the status of Num Lock and Caps Lock will be indicated by LEDs on the external keyboard.	
H	Disc Drive Activity LED	Flickers when data is transferring between drives.	
I	Standby Button	Allows you to put your Cassius PC into standby mode.	
J	Power Switch	Allows you to switch on or off your Cassius PC.	
K	Power LED	LED Status Off Orange Flashing Orange Flashing green Green	Meaning No power Closed down Standby mode Sleep mode Operational.
L	Hardware Reset Button	Use a straightened paper clip to press this button if the Cassius PC stops responding.	

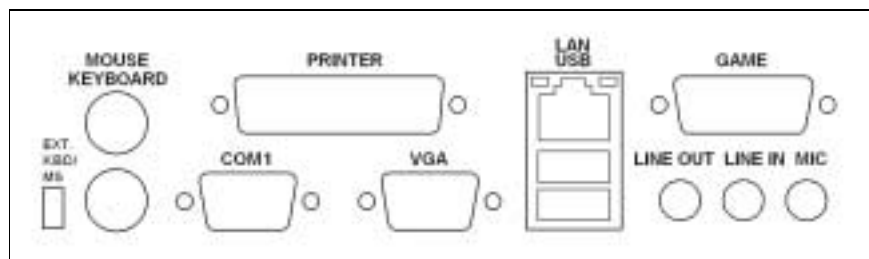
Rear Connection Blocks

The two connection blocks at the rear of your Cassius PC are shown below. Connectors that are only present on the Cassius Intertainment are indicated in the text below.



Connection Block 1

Connection block 1 at the rear of your Cassius PC is shown below.



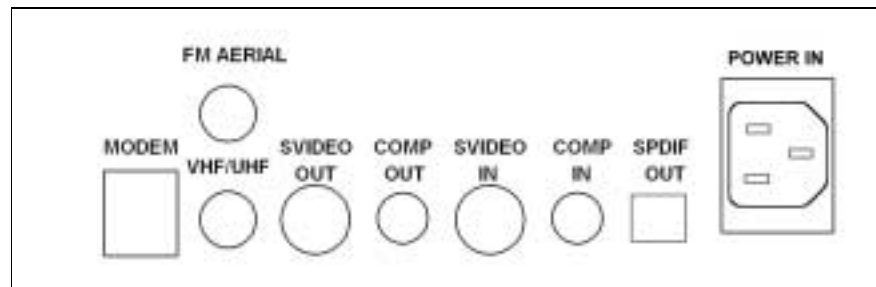
The table below describes each feature.

- **Ext. KBD/MS (RF DIS.)** — RF device switch. Allows you to enable or disable the wireless keyboard and mouse. Your Cassius PC is supplied enabled (switch down). If you want to use a conventional PS/2 keyboard and mouse, move this switch up to disable RF keyboard and mouse.
- **Mouse (green)** — External PS/2 mouse port. To enable this port, move the RF DIS switch up.
- **Keyboard (purple)** — External PS/2 keyboard port. To enable this port, move the RF DIS switch up.
- **Printer (red)** — Parallel printer port.
- **COM1 (dark green)** — Serial (RS-232) port.
- **VGA (blue)** — External VGA video port to connect an external analogue monitor. This allows the system to drive two displays simultaneously.
- **LAN (top)** — Connector for a 10/100Base-T Ethernet LAN connection. Use a category five LAN cable for this port. Two LEDs above the port indicate successful connection (yellow) and data flow (green).
- **USB (bottom)** — Two USB ports for connecting external USB devices.
- **GAME (yellow)** — Game port for connecting a joystick or MIDI device. (Entertainment)
- **LINE OUT (green)** — Line out audio jack connector. Colour coded in accordance with the Intel Microsoft PC 1999 specifications.

- **LINE IN (blue)** — Line in audio jack connector. Colour coded in accordance with the Intel Microsoft PC 1999 specifications.
- **MIC (red)** — Microphone jack connector. Colour coded in accordance with the Intel Microsoft PC 1999 specifications.

Connection Block 2

Connection block 2 at the rear of your Cassius PC is shown below.



Each feature is described below.

- **MODEM** — Modem socket.
- **FM AERIAL** — FM radio antenna connection. (Entertainment)
- **VHF RF AERIAL** — TV antenna connection or satellite/cable connection. (Entertainment)
- **SVIDEO OUT** — S-video output for connection to external television and video devices. (Entertainment)
- **COMP OUT** — Composite video output socket for connection to external television and video devices. (Entertainment)
- **SVIDEO IN** — S-video input to display video from an external source. (Entertainment)
- **COMP IN** — Composite video input to display video from an external source. (Entertainment)
- **SPDIF OUT** — S/PDIF output socket to stream digital audio from DVD discs. You can use this to connect to an external digital decoder. (Entertainment)

- **POWER IN** — IEC three-pin power input connector.

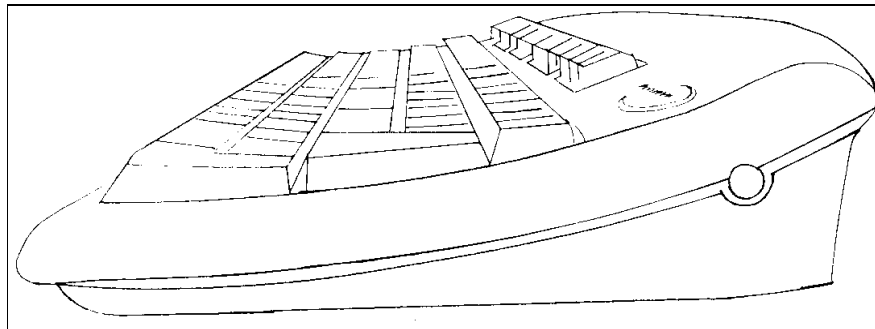
Cordless Keyboard and Mouse

This section explains how to:

- Install batteries in the keyboard and mouse.
- Switch your Cassius PC to using a normal keyboard and mouse using the Ext. KBD/MS switch on the back of your Cassius PC.

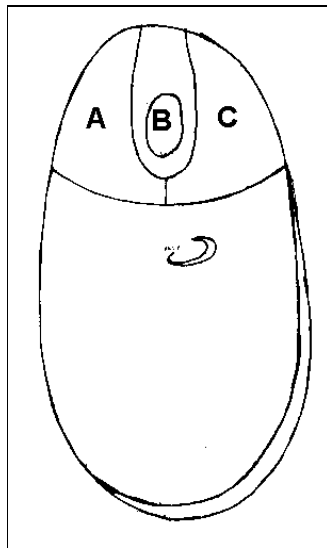
Keyboard

The side view of your keyboard is shown below.



Mouse

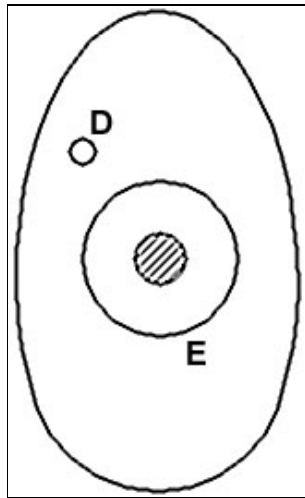
The top view of your mouse is shown below.



The table below describes each feature.

Item	Description	Function
A	Left Mouse Button	Allows you to select buttons, menus and other software features.
B	Mouse Wheel	Allows you to scroll through some applications.
C	Right Mouse Button	Allows you to use context sensitive menus and other software features.

The bottom view of your mouse is shown below.



The table below describes each feature.

Item	Description	Function
D	Connect Button	Used for manually connecting RF mouse to your Cassius PC. Refer to <i>Manually Connecting the Cordless Keyboard and Mouse</i> below.
E	Mouse Ball	If mouse operation is unreliable, this may need cleaning.

The cordless keyboard and cordless wheel mouse require batteries. A set of batteries is supplied.

The keyboard requires two AA alkaline batteries and the mouse requires two AAA alkaline batteries.

You should replace the batteries when prompted by the computer. Use alkaline batteries for best performance; other battery types are acceptable, but do not mix types.

Remove the batteries when not using the cordless keyboard and mouse for a long time.

To Install Batteries in the Keyboard

- Remove the battery compartment cover on the underside of the keyboard.
- Insert the batteries as indicated on the keyboard.
- Carefully replace the battery compartment cover.

To Install Batteries in the Mouse

- Press the tab on the underside of the mouse and slide away the battery compartment cover on the top of the mouse.
- Insert two AAA batteries according to the diagram in the battery compartment.
- Carefully replace the battery compartment cover.

To Use a Normal Keyboard and Mouse

- Switch off your Cassius PC.
- Disable the wireless keyboard and mouse switching up the **RF DIS.** switch. Refer to *Connection Block 1*.
- Connect a normal keyboard to the purple external PS/2 keyboard port. Refer to *Connection Block 1*.
- Connect a normal mouse to the green external PS/2 mouse port. Refer to *Connection Block 1*.
- Switch on your Cassius PC.

Manually Connecting the Cordless Keyboard and Mouse

It may be necessary for you to manually connect the cordless keyboard and mouse. The procedure below describes this.

- Power on your Cassius PC and wait until the Cassius logo appears on the screen.

- Press the **Connect** button on the front panel of the PC and press the **Connect** button on the right side of the keyboard. For the locations of these buttons refer to the diagrams shown in *Button Panel* and *Keyboard* above.
- Press the **Connect** button on the button panel once again and press the **Connect** button on the underside of the RF mouse.

You have now manually connected the keyboard and mouse to the same channel and it should function correctly. If you are still experiencing problems, please refer to Chapter 6, *Troubleshooting*.

Safety Precautions

This section describes the safety instructions you should follow with your Cassius PC.

Using your Cassius PC

Your Cassius PC will automatically detect whether it is connected to the mains in a country using a 110v or a 220/240v power supply and will switch accordingly. Therefore you can take it abroad and plug it in without altering the power settings.

You should however note that you should operate your Cassius PC within a temperature range of 40°F — 100°F (4°C — 38°C). You can store it within a temperature range of 0°F — 140°F (8°C — 60°C).

Follow the safety instructions shown below when using your Cassius PC.

- Do not open your Cassius PC, except when upgrading the memory or changing the system coin-cell battery.
- Before disconnecting a device from your Cassius PC, turn it off and wait five seconds. This is not necessary for USB or PCMCIA devices.
- Plug your Cassius PC into a grounded power source. Only use three-wire extension cables with plugs that are grounded. This only applies in countries that use grounded power sources.
- Ensure you cannot trip over or step on the power cable and that nothing rests on it.

- Ensure nothing is spilled onto your Cassius PC. If it gets wet, unplug it immediately from the power supply and allow it to dry for at least 24 hours.
- Ensure only compatible devices are pushed into connectors on your Cassius PC.

Positioning your Cassius PC

Follow the safety instructions shown below for comfort and efficiency.

- Do not keep your Cassius PC near radiators or other heat sources, on loose papers or cloth, or in closed spaces.
- Ensure the screen of your Cassius PC is a comfortable distance from your eyes and at eye level or slightly lower.
- Reduce screen reflections by adjusting the screen tilt and brightness. If necessary adjust the lighting around you.

Posture

An example of a suitable sitting position is shown below.



- Use a chair that supports your lower back.
- Ensure your forearms are horizontal, your wrists are comfortable and your upper arms hang naturally beside you.
- Ensure your wrists are supported when using the cordless keyboard or mouse.
- Sit upright; rest your feet on the floor and keep your thighs level. Ensure the weight of your legs rests on your feet, not your seat.

Switching On

Before switching on, ensure that the conditions below are met.

- The Cassius PC is positioned as outlined in the Safety Precautions section.
- The cordless keyboard and mouse have batteries correctly installed.
- The cordless keyboard and mouse are on a flat surface. Attach the wrist pad to the keyboard for comfort if desired.
- The power cable is connected firmly to the AC power outlet and your Cassius PC.

Windows Registration Procedure

Note Registration takes about 15 minutes. Ensure this process is not interrupted.

Follow the instructions shown below.

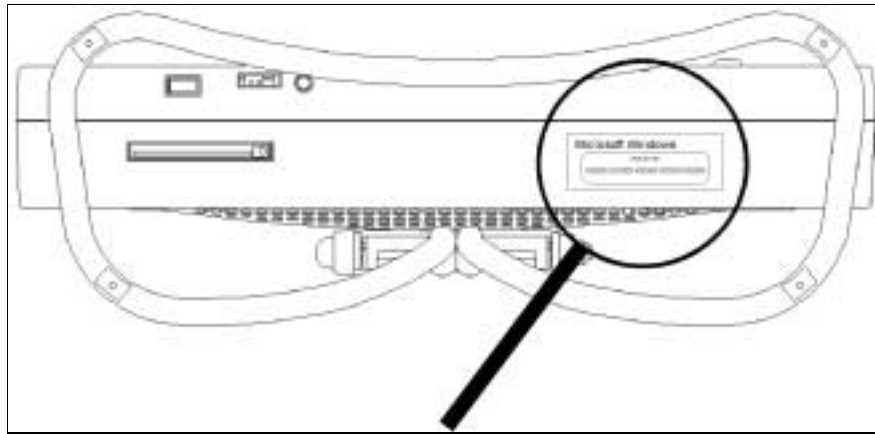
- Connect your modem to a telephone line (if required).
- Turn on your Cassius PC using the power switch on the right.

Your Cassius PC will now boot up. Whenever you start your Cassius PC you will see a standard black and white screen whilst your computer performs some self-checks. This is quite normal.

Once your Cassius PC has performed its checks, it will begin to load Windows.

The very first time that you turn on your Cassius PC, the computer will begin the Windows Registration Procedure. This short process lets the computer know your name, the company the computer belongs to (if applicable), the local time, the country you are in and other useful information. The procedure will also register your copy of Windows.

The product key for the Microsoft Windows supplied with your Cassius PC is on the underside of your Cassius PC as shown below.



Follow the instructions on your screen to successfully set up your Cassius PC. Throughout this guide, click means click the left mouse button.

To enter information in one of the text areas, move the mouse pointer over the white space and click. You will then see a cursor blinking beside the area. Type your text and then click on the next text area. Once you have completed all the text areas in a window, click the appropriate button (usually **OK** or **Next**) in the bottom of the window.

Brief explanations of the features of this process are given below.

Densitron License Agreement — A contract that you must agree to before using your copy of Windows.

Regional and Keyboard Settings — Allows you to select your region and keyboard.

Name — Your name.

Computer Name — What your Cassius PC will be called when viewed across a network.

Organisation — Organisation or company for which you work. Leave this blank if not applicable.

Product Key — Found on the back of the appropriate CD.

Password — Password you want to use with your Cassius PC.

Modem — Instructions to set up your modem.

Microsoft License Agreement — Contract that you must agree to before using your copy of Windows.

Date/Time Properties — Confirm or set the date and time.

To Complete the Set up Process

- Restart your Cassius PC by selecting **Start > Shut Down**, selecting **Restart** and clicking **OK**.

Setup is complete.

Your Cassius PC is now operational. You can set up your Cassius PC to connect to the Internet by double-clicking the **Connect to the Internet** icon on the screen when the system has finished restarting. The Microsoft Internet Configuration Setup Wizard will guide you through the process.

Windows 2000 Emergency Repair Diskette (where applicable)

Windows 2000 may become corrupted by some process during its use. In some cases, this can prevent it starting properly. To combat this, you can prepare an Emergency Repair Diskette beforehand that you can use to restore your computer's settings in such an emergency.

Note The repair diskette can be used if Windows becomes corrupted to restore your system configuration. It is not a file backup tool.

To Create an Emergency Repair Diskette

Follow the instructions shown below.

- Select **Start > Programs > Densitron Accessories** and click **Create Repair Disk**.

Your Cassius PC displays the Repair Disk Utility window.

- Click **Create Repair Disk**. Label a spare diskette **Emergency Repair Disk**. Insert it in the drive and click **OK**.

Your Cassius PC formats the diskette, copies the configuration files and displays the Repair Disk Utility window.

- Click **Exit**. Remove the diskette from the drive and store it in a safe place.

To Boot from an Emergency Repair Diskette

- Switch off your Cassius PC.
- Insert the Emergency Repair Diskette.
- Switch on your Cassius PC.

CHAPTER 2

Using your Cassius PC

This chapter describes ways you can use your Cassius PC.

In This Chapter

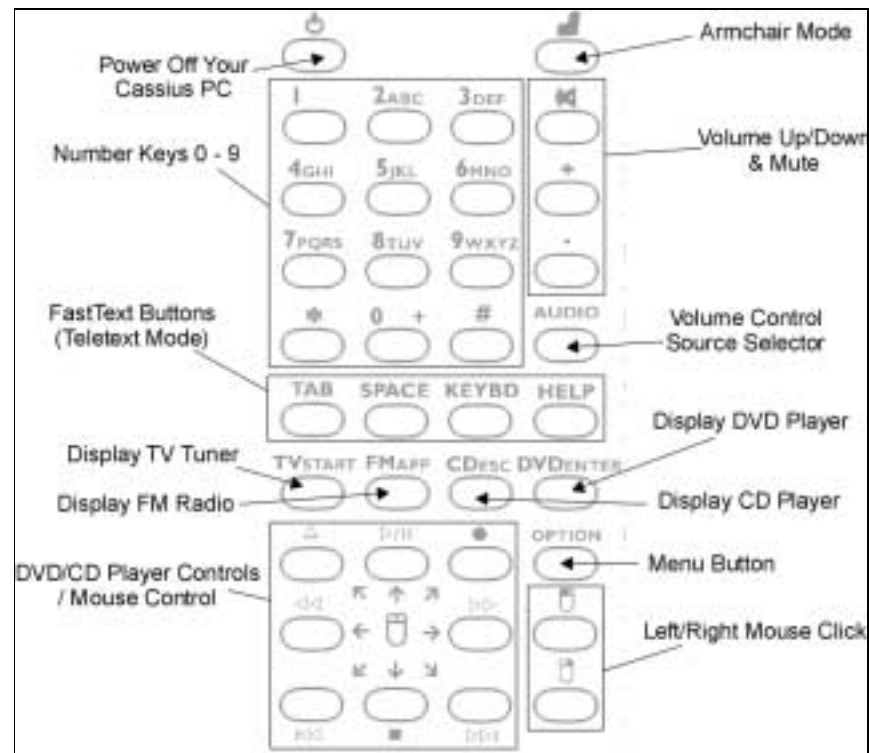
- Remote Control (Intertainment only)
- TV Tuner (Intertainment only)
- FM Radio Tuner (Intertainment only)
- DVD Player (Intertainment only)

Introduction

As well as being a high performance computer, you can also use your Cassius PC as a television, a radio and a DVD player. Furthermore, you can control all these features with a single remote control. This chapter provides a brief overview of these special features so that you may begin to use them. You can find further documentation within the Help files of the programs mentioned.

Remote Control

The remote control allows you to operate the TV tuner, FM radio tuner, DVD player and other features of your Cassius PC.



Armchair Mode

Press the **Armchair Mode** remote controller button to operate your Cassius PC as a television, CD player or DVD player. In armchair mode, the green button labels on the remote control indicate the functions available. These buttons enable full control of all functions of your Cassius PC.

In Armchair Mode the television picture fills the screen.

TV Tuner

Press the **TV_{START}** remote controller button to display the TV tuner. When using the TV tuner in armchair mode, the remote controller buttons function as described below.

- **Number buttons 0-9** — Select channel number.
- **+ / - buttons** — Volume Up/Down.

Teletext

To view teletext pages (where available) press any of the four colored **FastText** buttons on the remote controller. When using teletext, the remote controller buttons function as described below.

- **Number buttons 0-9** — Enter desired teletext page number.
- **Red/green/yellow & blue buttons** — FastText buttons for selecting the quick jump pages displayed at the bottom of the current teletext page.

DVD Player

Press the **DVD_{ENTER}** remote controller button to display the DVD player. When you are playing a DVD in armchair mode, the remote controller buttons function as described below.

- **Number buttons 0-9** — Select a new chapter in a DVD movie.
- **+ / - buttons** — Volume Up/Down
- **Play/stop/rewind/fast forward** — Normal functions that control the playback of a DVD movie.
- **⏮/⏭ buttons** — Previous chapter/next chapter in a DVD movie.

TV Tuner

The TV tuner feature allows you to use your Cassius PC to view television broadcasts. In some countries, it may be necessary to obtain a television licence to use the TV functions.












To Use the TV Tuner

- Please ensure that you have plugged an antenna or cable television connection into the TV Antenna socket on the rear of your Cassius PC before continuing.
- When you first use the TV tuner, it is necessary to scan for the TV channels that can be received in your area. Once you have completed this procedure, you will not need to repeat it unless you move the Cassius PC to another location in the country.
- Click the **TV Tuner** icon to open the TV tuner application.
- The first time you open the TV tuner application, your Cassius PC asks you if you want to Auto Tune. We recommend that you choose to Auto Tune by clicking the **Tune** button. This ensures that when using the TV tuner in the future, you can easily choose all available channels. You can also select whether to search for cable/satellite channels or for terrestrial antenna channels.
- The TV tuner application indicates the channels found by the Auto Tune. You can rename these if required to allow easier channel selection by clicking the **Edit** button.
- Click **OK** to return to the TV viewer.
- To change channel, click the Menu button, and click the desired channel from the Tuner menu. Alternatively, press the channel number on the remote control as documented in the remote control instructions above.
- You can increase or decrease the volume by pressing the increase volume buttons as described below.

Software Features

The on-screen buttons in the TV Tuner function are described below.

- **Menu** Displays the menus for adjustment of TV settings.

-  Display TV broadcasts.
-  Freeze current TV picture.
-  Capture current TV broadcast.
-  Channel Up/Down.
-  Volume Up/Down.
-  Mute the sound.
-  Display subtitles (where available).
-  Fill the screen with the TV broadcast.
-  Show all tuner channels on-screen at once.
-  View teletext in TV screen.
-  Run Teletext Explorer.
- Select **Help > Contents** to find additional information on the use of the TV viewer.

Teletext

Teletext is a limited availability service that allows you to access information from your TV tuner. Additionally the software allows you to view Teletext pages in an Internet explorer style window or a TV style full-screen mode for use with the remote control.

You can view Teletext in two ways – from within the TV viewer or from a separate program called Teletext Explorer. Both allow you to view teletext either in a window or full-screen.

Viewing Teletext within TV Viewer

- Click the **Teletext** button in the TV Tuner application.
- Type in the number of the teletext page required using the number keys on the keyboard and press **Enter** to view that page.
- Select **Help > Contents** to find additional information on the use of teletext within the TV viewer.

You may also use the remote control in armchair mode. Refer to *Armchair Mode* above.



Viewing Teletext with Teletext Explorer

Teletext Explorer offers additional features over viewing teletext within the TV viewer including a search facility. The use of Teletext Explorer is similar to that of Microsoft Internet Explorer. Consequently, many of the buttons will be familiar to Microsoft Internet Explorer users.

- Type in the number of the teletext page required using the number keys on the keyboard and press **Enter** to view that page.

You may also use the remote control in armchair mode. Refer to *Armchair Mode* above.

The on-screen buttons function as described below.

-  Go back to previous page / Go forward.
-  Go to home teletext page.
- The channel on which teletext is being received from can be selected using the drop-down menu beside the home page button.
- The Search button opens a text search dialog for text within a teletext page
- The **Print** button prints any page.
- Select **Help > Contents** to find additional information.

FM Radio Tuner

The FM radio tuner feature allows you to use your Cassius PC to listen to FM radio stations.

The FM radio tuner runs in a window or full screen and is remote control compatible.

To Use the FM Radio Tuner

- Click the **FM Radio** icon.
- The appearance of the radio on the screen is identical to that of a normal radio. The functions of the buttons are the same as those on a normal radio. Click the buttons using your mouse. Presets can be added by scanning for the radio station and then clicking and holding on the desired preset button.


DVD Player

The DVD player feature allows you to use your Cassius PC to play DVDs. The program that allows you to do this starts automatically when you put a DVD videodisc in the DVD drive. You use the program to perform all the functions you would with a standalone DVD player.

DVD videos are stored on an optical disc. You must always take great care when handling the DVD so that you do not mark the side read by the DVD drive.



The DVD player runs in window or full screen and is remote control compatible.

To Use the DVD Player

- Insert a DVD videodisc in the DVD drive or if the DVD is already inserted, click the **DVD** icon.
- The buttons on the DVD player represent the standard playback buttons on any video recorder or DVD player. To play the DVD movie click the  (play) button.

Software Features

You can fast forward or rewind the current DVD movie using the standard fast forward and rewind keys.

DVD movies also offer the feature of navigating to a particular scene in a film. You can do this using the chapter selection buttons:  and . A DVD movie is divided into discrete chapters that, during normal playback, will be switched between seamlessly but offers the viewer the option of skipping particular scenes.

It is also possible to set parental guidance levels in the DVD player. This allows only a certain level of film content to be viewed without entering a password. To enable this feature select **Menu > Parental Guidance**.

- Select **Menu > Help** to find additional information about features of the DVD player.

CHAPTER 3

Maintaining your Cassius PC

This chapter describes how to maintain and upgrade your Cassius PC.

In This Chapter

- Cleaning your Cassius PC
- Memory Expansion
- System Battery Replacement
- PC Card Slot
- Other Queries

Introduction

Your Cassius PC is completely integrated. Consequently the only internal expansion feature is main memory.

Cleaning your Cassius PC

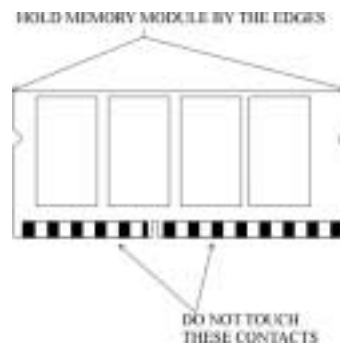
To clean the case, keyboard, mouse and LCD you should only use products designed for computers. You should never use water or damp cloths.

You should not clean the LCD screen with ammonia based household window cleaners as these will irreparably damage the specially coated LCD glass.

Memory Expansion

You can install additional main memory in your Cassius PC.

Your Cassius PC will only accept 3.3 volt PC133 144-pin SO-DIMM memory of size 32, 64, 128 or 256 MB. While your Cassius PC can use PC100 144-pin SO-DIMM memory, this will impact system performance and we do not recommend it.



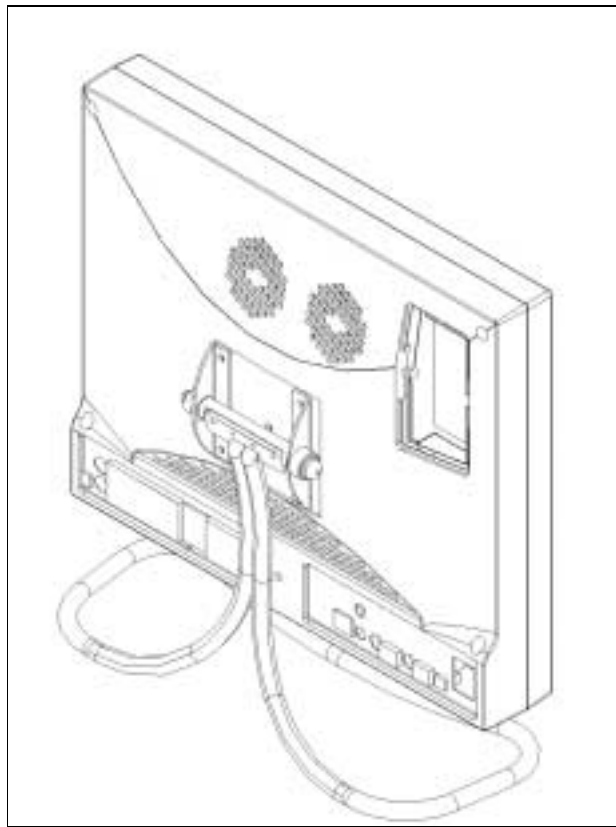
Contact your Densitron dealer for more information on purchasing the correct memory.

Your Cassius PC can also use error check and correction (ECC) compatible SO-DIMMs.

Densitron recommend you contact your Densitron supplier for the correct memory.

To Install Memory

The memory and battery compartment at the top of the rear of your Cassius PC is shown below.



Follow the instructions shown below.

- Turn off your Cassius PC and any peripherals.
- Disconnect the power cord and any other cables connected to your Cassius PC.
- Place your Cassius PC face down on a soft flat surface.

- Touch an unpainted metal surface around one of the connectors on the rear of your Cassius PC to ground yourself with respect to the computer. Repeat this frequently during the installation process.
- Use a cross-headed screwdriver to remove the two screws from the memory bay door. Ensure you do not drop the screws inside your Cassius PC.
- Carefully remove the plastic door to expose the memory expansion socket.
- Holding the new memory at the edges and keeping the SO-DIMM card at about 45° to the circuit board, gently insert the edge with the gold contacts into the memory slot. The SO-DIMM will only fit one way round, so ensure that the cut in the SO-DIMM card lines up with the bump in the socket at this stage.
- Gently push the SO-DIMM card flat until it clicks into place.
- Replace the plastic door and screws. Reconnect your Cassius PC and switch it on.
- Check the memory value on the boot screen. If the memory value does not appear or you hear a bleeping sound, check that you have correctly installed the memory. If your Cassius PC still does not work, contact the helpline.

System Battery Replacement

When your Cassius PC is not connected to a power source, the system battery saves any changes you have made to the BIOS settings (refer to Chapter 5, *Bios Setup*) and also maintains the correct time and date on your system. This battery may run out after a few years, in which case you should replace it.

Your battery needs replacing when your Cassius PC keeps losing its configuration or time and date settings.

You must use a 3.0 Volt CR2032 coin-cell replacement battery.

LITHIUM BATTERY WARNING (ENGLISH)**CAUTION**

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

LITHIUM BATTERY WARNING (DANISH)**ADVARSEL!**

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af same fabrikat og type. Lever det brugte batteri tilbage til leverandøren.

LITHIUM BATTERY WARNING (FINNISH)**VAROITUS**

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

LITHIUM BATTERY WARNING (SWEDISH)**VARNING**

Eksplosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruction.

To Replace the Battery

- Turn off your Cassius PC and any peripherals.
- Disconnect the power cord and any other cables connected to your Cassius PC.
- Place your Cassius PC face down on a soft flat surface.
- Touch an unpainted metal surface around one of the connectors on the rear of your Cassius PC to ground yourself with respect to the computer. Repeat this frequently during the installation process.
- Use a cross-headed screwdriver to remove the two screws from the memory bay door. Ensure you do not drop the screws inside your Cassius PC.
- Carefully remove the door to expose the battery socket.

- Remove the battery from its socket with your fingers or a blunt, non-conductive object. Ensure you do not damage the socket or circuit traces around it.
- Insert the new battery in the socket with the “+” side facing up.
- Replace the plastic cover and screws. Reconnect your Cassius PC and switch it on.
- Re-set the clock of your Cassius PC when you next enter Windows. If you had previously made changes to the BIOS configuration, you will need to re-enter your settings.
- Dispose of the old battery as indicated in Appendix A, *Regulatory Statements and Battery Disposal*.

PC Card Slot

The PC card slot on the bottom of your Cassius PC allows you to add extra functionality to your system by inserting a device card. The slot supports one PCMCIA or PC CARD type peripheral of size Type I or II.

Your Cassius PC may be switched on or off when installing a card in the slot.

To Insert a PCMCIA Card or PC CARD

- Press the card into the PC card slot as far as you can, with the text facing away from you.
- Position your card below the slot so that the end of the card that contains the connection pins points upwards and the bevelled side of the card points away from you.
- Press the card into the slot as far as you can. Be careful not to force the card too far in as you may damage it and your Cassius PC.
- If your Cassius PC is turned on, you will hear a two-toned beep when you correctly insert the card.
- Follow the instructions supplied with your card to install the features required. Always be careful with any extensions that may be joined to the bottom of your card so as not to damage your device.

- A brown PC Card icon in the bottom right corner of the Windows screen indicates a correctly installed PC Card. You can double-click this icon to view more information on the status of the card.
- If you wish to remove the card whilst your Cassius PC is switched on, you must first disable the card device. To do this, click the **PC Card icon** on your desktop, select the device you wish to disable and click **Stop**. A message will appear to tell you that you may remove the card.

To Remove a PCMCIA Card or PC CARD

- Press the button beside the card once to release the eject button
- Press the button again to remove the card.



CAUTION

Either the blank card supplied or your PCMCIA card should be in this socket. The socket should not be left empty.

Other Queries

If you have any other queries, try the Cassius web site at <http://www.cassiuspc.co.uk> and <http://cassiuspc.com> or contact the help line.

CHAPTER 4

Reinstalling Software

This chapter describes how to reinstall the software on your Cassius PC.

In This Chapter

- Reinstalling Drivers
- Obtaining New Drivers
- Reinstalling Programs

Reinstalling Drivers

Drivers are software applications that your Cassius PC uses to communicate with its hardware devices such as the hard disk or the monitor. Drivers act as the bridge between, for example, your audio applications and the soundcard inside your Cassius PC.

If your existing versions have been deleted or corrupted, you will need to reinstall them. If you desire the latest versions of these drivers, you must download them from the Cassius website and then install them.

The Cassius PC Software CDROM makes driver installation very simple.

To Install a Driver

- Insert the Cassius PC Software CDROM into your CDROM drive. The Cassius PC Setup menu will automatically appear.
- Select **Drivers** from the main menu to display the driver section.
- Select the driver you want to install.
- Follow the instructions on screen to complete installation.

The new drivers will be used when you restart your Cassius PC.

Obtaining New Drivers

You can download copies of up-to-date drivers for your Cassius PC from the Cassius web site at <http://www.cassiuspc.co.uk> and <http://cassiuspc.com>.

The web site also provides installation instructions.

Reinstalling Programs

Your Cassius PC comes with all the necessary programs installed. However, in the unlikely event that the programs become corrupted, you will need to reinstall them.

The Cassius PC Software CDROM contains the setup programs required to reinstall all the basic software shipped with your Cassius PC, such as Cinemaster 2000 (Intertainment only), TV Viewer (Intertainment only) and others.

To Install a Program

- Insert the Cassius PC Software CDROM into your CDROM drive. The Cassius PC Setup menu will automatically appear.
- Select **Software** from the main menu to display the software section.
- Select the program you want to install.
- Follow the instructions on screen to complete installation.

You may need to restart your PC to complete installation.

CHAPTER 5

Bios Setup

This chapter describes how to use the bios setup facility.

In This Chapter

- The Bios Setup
- Using the Bios Setup
- Changing your Bios Settings

The BIOS Setup

The BIOS setup facility on your Cassius PC is an interface that allows you to change the way your computer controls its resources. For example, from the BIOS setup you can, control the allocation of memory within the system, disable particular hardware devices and set the boot sequence of your Cassius PC.

The settings in the BIOS setup on your Cassius PC have already been configured for optimum performance and reliability, so there should be no need for change. However, if you want to make changes in the operation of your Cassius PC, you may need to alter some settings.

Due to the advanced nature of some of the options, inappropriate alteration of the settings in the BIOS Setup can result in your Cassius PC failing to operate and possible damage to some of its components. Densitron Computers Ltd accepts no responsibility for damage caused to your system in this fashion, and strongly recommends that you do not make any changes in the BIOS Setup unless they are necessary. If you are in any doubt about the changes you are about to make, please contact the help line.

Using the Bios Setup

To Access the BIOS Setup Facility

- Turn on your Cassius PC and wait for the boot screen to show.

Note The boot screen is the first page you see when you turn on your Cassius PC. It shows the speed of your processor, progress of the memory check and the results of drive detection.

- Press the **DEL** button on your keyboard.

Note If you miss the opportunity to do this, restart your Cassius PC and try again.

After a few moments you will see the BIOS menu — a blue screen with various submenus listed.

- Use the arrow keys on your keyboard to select the desired submenu required and press **ENTER**.
- Use the arrow keys to select the submenu option required.

- Use the **PAGE UP** and **PAGE DOWN** keys to change the value of the highlighted parameter, or press **ENTER** to select a value from a list.
- Pressing **ESC** on completing your changes to return to the main BIOS menu by button.
- Select either **Save & Exit Setup** to store your changes and exit, or **Exit Without Saving** to discard your changes and leave the program.

Your Cassius PC will reboot and any saved changes will take effect.

Changing your Bios Settings

The following section describes the modifications you are able to make to your BIOS settings. Options that should not be changed have been locked to prevent accidental modification.

Standard CMOS Features

DATE/TIME — Sets the date and time of your computer. These can also be changed from Windows.

HALT ON — Sets the errors that will cause the computer to pause during boot up. Options are All Errors, No Errors, All But Keyboard, All But Diskette and All But Disk/Key. Depending on the setting, if the computer does not find a keyboard or floppy disk drive when you turn it on, it will stop booting up, tell you what is missing and give you the option to continue or turn off and connect your device. Default is All Errors.

Advanced BIOS Features

VIRUS WARNING — When Enabled, this feature will prevent a virus writing to the boot sector of your hard disk drive. This can prevent common procedures from working correctly, so the default is Disabled.

PROCESSOR NUMBER FEATURE — When Enabled, this feature allows tracing of your computer via its unique processor serial number. Default is Disabled for privacy reasons.

QUICK POWER ON SELF TEST — When Enabled, this feature reduces the boot-up time by skipping certain initialization tests. The default is Disabled to identify any problems as soon as they occur.

BOOT DEVICES — Sets the order in which your Cassius PC looks for boot devices. A boot device is a drive that tells the computer what to do once it has completed its boot-up tests. Your hard disk drive, for example, will tell your computer to load Windows. The default sequence is Floppy and then HDD0. Consequently, your Cassius PC first looks at the floppy drive for boot information, and failing that will look at the C: drive (HDD0). You may change the order, if for example, you want to boot from the CDROM.

BOOT UP NUMLOCK STATUS — Sets the state of the keyboard Numlock feature when you turn on your Cassius PC. If Numlock is On (indicated by the Numlock light), the number pad on the right of your keyboard can be used to type in numbers. If the Numlock is Off, the other functions written on the pad are used. By default Numlock is On at startup.

TYPEMATIC RATE SETTING — When Enabled, this feature allows you to set the delay and repeat rate of a character when its key is held down on the keyboard. If Disabled, the default rates of 250ms and 6chars/sec respectively are used. Since the Cassius PC is designed for a Microsoft Windows operating system that overrides this setting, the default is Disabled.

SECURITY OPTION — Only applicable once a User Password has been set in the main BIOS menu. If set to Setup, you must enter your password to make changes in the BIOS setup in feature. If set to System, the password is required every time you start your Cassius PC.

VIDEO BIOS SHADOW — If Enabled, which is the default, the contents of your video ROM is copied to RAM to increase graphics performance. This can cause problems with some high-graphics applications such as 3D games. If you experience crashing when loading video intensive applications, try disabling this feature.

Advanced Chipset Features

SYSTEM BIOS CACHEABLE — If Enabled, the performance of your Cassius PC is improved by caching the system BIOS ROM to memory. However, system errors may result if any program attempts to write to this memory space. Try disabling this feature if your Cassius frequently crashes whilst using a particular program. The default setting is Enabled.

VIDEO RAM CACHEABLE — Selecting Enabled improves video performance by caching video memory. However, if any programs use the space in which the memory is cached, the system may crash. Try disabling this

feature if you experience frequent crashes when running particular programs. By default this setting is Enabled.

AGP APERTURE SIZE — In high-graphics applications, your video card can obtain extra memory from your RAM via the AGP bus. The AGP aperture size dictates the maximum amount of extra memory the video card can use. If you install extra memory in your system, increase the value here to improve video performance. Be aware that the more memory used by the video card, the less is available for your programs to run. By default, the AGP aperture size is set to half the available system RAM.

Integrated Peripherals

SIS 630 ONCHIP PCI DEVICE — Enables or disables your Audio, Network or Modem capabilities. If you disable a device you will not be able to use it until you enable it. By default, all devices are Enabled.

SIS 950 SUPER I/O — Enables or disables your onboard serial and parallel ports. By default, these should all be enabled.

USB CONTROLLER — Enables or disables USB support on your system. The default is Enabled and this setting should be kept unless there is some specific reason to disable the USB ports.

USB KEYBOARD — Enables or disables support for USB keyboards. Default is disabled.

SYSTEM SHARE MEMORY SIZE — Specifies the amount of memory set aside for your graphics card. Available shared memory sizes are 2MB, 4MB, 8MB, 16MB, 32MB and 64MB. If you install extra memory in your Cassius PC, you can increase this value to improve graphics performance. The more memory you allocate to the video card, the less memory is available to run your programs. By default, 16MB of system memory is assigned to shared graphics memory. If you use 3D applications or games heavily, you may want to increase the amount, however, bear in mind this limits the main system memory.

SIS 301 DISPLAY TYPE — Sets the display type for your Cassius PC. Please note that while the built-in TFT flat screen of your Cassius PC can display the XGA resolution of 1024x768, devices attached to the analogue VGA output port may not be able to be set at such a high resolution in Windows. Default is Auto.

Power Management Setup

This submenu allows you to configure the energy saving capabilities on your Cassius PC. From here you can set your Cassius PC to turn off various components if they are unused for a particular time, and can set which inputs are necessary to wake them up again.

ACPI FUNCTION — Enable this option to allow control of power management features from within your ACPI compatible operating system (such as Windows 98 or 2000). The default setting is Enabled.

ACPI SUSPEND TYPE — Sets the Suspend method. Selecting S1 (POS) enables Power On Suspend mode, which maintains power to all essential components and shuts down components that are unnecessary for basic system function such as the hard disk drive. Selecting S3 (STR) enables Suspend To RAM mode, which stores your current information to memory and turns off power to all components except the RAM. Default is S3 (STR).

SWITCH FUNCTION — Sets the function of the Standby button. If set to Disabled, the Standby button has no effect. If set to Break/Wake, on pressing the standby button the system enters Suspend mode. Standby must then be pressed again for full power. The default setting is Break/Wake.

POWER BUTTON OVERRIDE — Sets the function of the Power button once the computer is turned on. Selecting Instant Off means that your Cassius PC will turn off immediately when the Power button is pressed. Selecting Delay 4 Seconds means that you will have to hold the Power button down for 4 seconds to turn the computer off. This is the default to prevent accidentally turning your computer off.

PM WAKE UP EVENTS — Sets the events that will make your Cassius PC power up from Shutdown or wake up from Suspend.

PnP/PCI Configurations

This submenu allows you to configure the PCI controller within your Cassius PC. The PCI bus connects many of the extra features in your Cassius PC to the CPU and memory, and the configuration options within this submenu are used to control this PCI interface. Your Cassius PC comes with these values pre-set, and there should be no need to change them.

PC Health Status

This PC Health Status submenu allows you to help monitor your CPU. From within this submenu you can view information such as CPU fan speed, CPU I/O voltage and CPU core temperature, which can help identify system problems in the event of errors. This submenu also allows you to set the SHUTDOWN TEMPERATURE. In the event that the CPU starts to overheat, the computer will turn off at the temperature set here to prevent any permanent CPU damage.

Frequency/Voltage Control

This submenu allows you to set the frequency at which the processor and bus circuitry within your Cassius PC operate. It is also used to enable auto-detection of the PCI clock frequency and to enable spectrum spread modulation of the clock generator to minimise electromagnetic interference. Your Cassius PC will come with these options pre-set and you should not change them. Doing so could permanently damage your Cassius PC.

User Password

This option allows you to set the system password for your Cassius PC. The system password prevents other people from using your PC or changing the BIOS Settings. Please refer to *Advanced BIOS Features* above for information about how to set the function of your password. To disable the password function, leave this field blank.

CHAPTER 6

Troubleshooting

This chapter describes how to troubleshoot problems with your Cassius PC.

In This Chapter

- Problems Switching On.
- Problems with your Keyboard and Mouse.

Problems Switching On

This section covers a number of possible causes and solutions for your Cassius PC failing to correctly switch on. In many cases, you will find the solution by following the instructions below in order. Consequently, it will be unnecessary to seek technical advice.

Problem	Cause	Solution
No lights illuminated on button panel.	Your Cassius PC is not receiving mains power.	1 Check the mains lead is securely plugged into the mains power wall socket and into the back of your Cassius PC.
		2 Check the mains power wall socket into which your Cassius is plugged is functioning correctly by plugging another appliance into the same socket.
		3 Remove the mains lead from the mains power wall socket and from the back of your Cassius PC and check the fuse in the plug. If you are unsure of this procedure, contact a qualified electrician.
		4 If none of the above resolves the problem please contact your Densitron service centre.

Problem	Cause	Solution
No display on screen but lights on front panel illuminated.	Your Cassius PC is in sleep mode or in soft-power mode.	1 If you have returned to your computer having left it on for some time try pressing a key on the keyboard and moving the mouse to bring your Cassius PC out of sleep mode.
		2 If you have just plugged your Cassius PC into the mains power supply, you must press the power button located on the right of the button panel to switch on the computer.
		3 Unplug your Cassius PC from the mains power wall socket and plug it in again. Then press the power button on the button panel.
		4 If none of the above resolves the problem, please contact your Densitron service centre.
You can hear your Cassius PC booting but there is no picture.	The display connection or the display itself is damaged.	1 If you have connected another display to the analogue VGA output on the rear of your Cassius PC, switch it off, remove the power supply connector from the mains wall socket try unplugging it and switching on your Cassius PC again.
		2 Please contact your Densitron service centre. There are no user serviceable parts or fixes for this problem.

Problems with your Keyboard and Mouse

Your Cassius PC is supplied with a cordless keyboard and mouse. It is also possible to connect an external keyboard and mouse to the PS/2 sockets on the rear of your Cassius PC. Please note which type of keyboard and mouse you are having problems with before troubleshooting the problem.

Problem	Cause	Solution
Your CORDLESS keyboard or mouse is not functioning.	There are a number of reasons for the cordless keyboard and mouse not to work.	1 Ensure the Ext. KBD/MS switch on the rear of your Cassius PC is in the down position. It may be necessary to manually connect your keyboard or mouse. Please refer to Chapter 1, <i>Getting Started, Manually Connecting the Cordless Keyboard and Mouse</i> .
		2 The cordless keyboard and mouse both require batteries. Try replacing the batteries in the dysfunctional device, following all the guidelines on battery safety and disposal in Appendix A, <i>Regulatory Statements and Battery Disposal, Disposing of the System Battery</i> .
Your external keyboard or mouse is not functioning.	The keyboard and mouse are connected into the wrong ports on the rear of your Cassius PC or are not selected as the input device.	1 Ensure the external keyboard is connected to the bottom keyboard PS/2 port on the rear of your Cassius PC and the mouse is connected into the top mouse PS/2 port.
		2 Ensure the Ext. KBD/MS is in the up position.

If you are unable to resolve a problem using these troubleshooters or your problem is not covered support is available on the Cassius PC website at www.cassiuspc.com and www.cassiuspc.co.uk.

Alternatively please contact your Densitron service centre.

APPENDIX A

Regulatory Statements and Battery Disposal

This appendix describes the CE symbol, how to dispose of your system battery and the FCC regulatory compliance statements.

In This Appendix

- CE Symbol
- FCC Part 68
- FCC Part 15
- Laser Compliance Statement
- Disposing of the System Battery
- Liquid Crystal Display Warning
- Macrovision Copy Protection
- Japanese Telecommunication Business Law

CE Symbol

The CE symbol indicates that your Cassius PC complies with the European Union EMC Directive and Low Voltage Directive. This means your Cassius PC meets the technical standards shown below.

- EN 55022 — *Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment*. There are two classifications of emissions requirements; class A for typical commercial areas and class B for typical domestic areas. Your Cassius PC complies with class B.
- EN 50082-1 (1992) — Electromagnetic compatibility – Generic immunity standard Part 1: Residential, commercial and light industry.
- EN 60950 — Safety of Information Technology Equipment.

FCC Part 68

The modem in your Cassius PC complies with the FCC, Part 68 Rules and Regulations.

The telephone company may request the information shown below.

- Ringer Equivalence Number
- FCC Registration Number

The FCC label provided on the back of your Cassius PC displays this information.

Note The Ringer Equivalence Number (REN) is used to determine the quantity of devices, which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for your area.

If the modem malfunctions, disconnect it from the telephone line until the problem is corrected. If you do not disconnect the modem and correct the problem, the telephone company may temporarily disconnect your service.

No customer repairs are possible to the device. The telephone company must notify you if it makes changes to the telephone line that would affect the modem in any way. If advance notice is not practical, the phone company will contact you as soon as possible. In addition, you will be advised of your rights to file a complaint with the FCC if you believe it is necessary.

Do not connect this modem to a coin telephone line or party line.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



CAUTION

Users should not attempt to make such connections themselves, but should contact the appropriate electricity inspection authority, or electrician, as appropriate.

If you have any problems, contact Densitron.

FCC Part 15

This device 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. 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 or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and 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

Accessories: This equipment has been tested and found to comply with the limits of a Class B digital device. The accessories associated with this equipment are as follows:

- Shielded video cable
- Shielded power cord

These accessories are required to be used in order to ensure compliance with FCC rules.

American Users

Caution! — The Federal Communications Commission warns the users that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Laser Compliance Statement

The CD-ROM drive (Cassius Pro only) or DVD-ROM drive (Cassius Entertainment only) in this unit contains a Class 1 Laser that is harmful to the eyes. The classification label (shown below) of the drive is on the surface of the drive.

CLASS 1 LASER PRODUCT TO IEC 60825-1

APPAREIL A LASER DE CLASSE 1

LASER KLASSE 1 NACH IEC 60825-1

LUOKAN 1 LASERLAITE

PRODUIT LASER CATEGORIE 1

KLASSE 1 LASER APPARAT



DANGER

Do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only. No user adjustments or serviceable parts are inside.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Class 1 laser products are not considered hazardous. The design of the unit ensures no exposure to laser radiation above a Class 1 level during normal operation, user maintenance or servicing.

Disposing of the System Battery

You should not need to replace the system battery in your Cassius PC more than every few years. The UL recognized system battery, Panasonic CR2032 3v, contains lithium and can explode if it is not properly handled or disposed of. Replace only with a battery of the same type. To avoid possible injury or death do not:

- Throw or immerse the battery into water
- Allow it to heat up to more than 212°F (100°C)
- Attempt to repair or disassemble it.

When you need to dispose of the battery, obtain the address of the nearest battery deposit site from your local waste disposal agency.

Liquid Crystal Display Warning

The fluorescent lamp in the liquid crystal display (LCD) contains mercury. Do not put it in trash that is disposed of in landfills. Dispose of it as required by local ordinances or regulations.

The LCD is made of glass, and rough handling or dropping the computer can cause the LCD to break. If the LCD breaks and the internal fluid gets into your eyes or on your hands, immediately wash the affected areas with water for at least 15 minutes; if any symptoms are present after washing, seek medical attention.

Macrovision Copy Protection

The notice below applies only to Cassius Entertainment PCs with a DVD function and a TV-out function.

This device is protected by U.S. patent numbers 4631603, 4577216, 4819098, 4907093, and other intellectual property rights. The use of Macrovision's copy protection technology in the device must be authorized by Macrovision and is intended for home use and other limited pay-per-view use only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Japanese Telecommunication Business Law

If you are using the modem in your Cassius PC in Japan, specify the country as Japan in the Dialling properties, found under Modem Properties in Control Panel. Using the modem functions with another setting is a violation of the Japanese Telecommunications Business Law.

APPENDIX B

Overview

This chapter gives you a brief overview of your Cassius PC.

In This Chapter

- Computers Explained
- Your Cassius PC

Computers Explained

This section gives you a brief introduction to computers and what they do. An overview of the technology is very useful when using computers, and will help you get the most from your system.

How Computers Work

A computer is a complex body of electronic components that work with each other to provide a versatile system capable of performing many different tasks. Each part of your computer has a specialised function, and in a basic sense, will take in data, perform some calculations on it, then output the results. These calculations go on millions of times a second, and the end result is a smooth-running system.

Hardware

Inside all computers you will find the same main types of components, as outlined below.

- **Motherboard** – This is the large, main circuit board onto which most components are fixed.
- **Central Processing Unit (CPU) or Processor** – This is the microchip that performs the majority of the brain work within the computer. This chip is responsible for many of the calculations that make your computer run, and for orchestrating the other devices so that they are used efficiently. The speed of your system is highly dependant on the speed of this chip, and so computers are often sold by the specification of this chip. The faster the processor is, the faster will be the computer.
- **Random Access Memory (RAM) or Memory** – This is space in which information is stored on a temporary basis. The more information that can be stored here, the less there is that needs to be recalculated, and hence the faster the system performs overall. Combined with the CPU, the quantity of RAM is a major factor in dictating the speed of your system. The more RAM you have, the faster will be your computer.
- **Hard Disk Drive (HDD)** – The HDD is the disk on which all your files and programs are kept. Whenever you install a program onto your computer or save a document, the information is stored on your hard disk drive. To help identify the drives on your computer, they are assigned

drive letters, and the drive letter for the hard disk drive is C – hence it is the C drive. The capacity of your HDD dictates how much information you could potentially store. The bigger your HDD, the more you can store.

- **Floppy Disk Drive (FDD)** – The FDD allows you to save files to small, removable disks that can then be read by other computers. Since nearly all computers will have a 3.5” floppy disk drive (where 3.5” is the dimension of the disk), it is a convenient way to transfer small files between computers.
- **Compact Disc Read Only Memory Drive (CD-ROM Drive)** – This is a disk drive that reads from CD type disks. You can use this drive to listen to music CDs, or to read data stored on data CDs. However, you cannot save data to CD-ROM disks. This requires a special type of drive and disk.
- **Digital Versatile Disc Read Only Memory (DVD-ROM Drive)** – This is a disk drive that will read DVD disks as well as ordinary CD-ROMs. DVDs are similar to CD in physical size and use, but they can hold much more information than ordinary CDs. Consequently, movies are written onto DVDs because you cannot fit a whole film on a CD.

In addition to the devices listed above there are numerous other components working in the background to keep your computer running. Whilst their roles are crucial, it is not necessary to spend time illustrating them in this manual. An extensive amount of information on computers is available from your local library or on the Internet.

All the physical devices within your computer are referred to as hardware. In addition to the internal hardware of your system, you can connect external hardware to your computer. These devices are called peripherals, and include mice, keyboards, scanners and printers.

Software

With the hardware in place, you now need software in order to get your computers to perform useful tasks. Software is the name given to the programs loaded onto your machine. For example, the CD Player software is a program that allows you to play CDs on your computer using the CD drive. Without software, your computer is quite useless.

Software can be divided into three main types: operating systems, drivers and applications.

An operating system is the masterpiece of software that starts running when you switch on your PC, and stops running only when you switch off your PC. Operating systems are very large pieces of software, and very complicated in their behaviour, which gives you immense flexibility to customise the way your computer behaves. It is this level of intricacy that means your computer must take some time to load this piece of software, and hence this is the reason you must wait for it to load every time you start your PC. In the case of your Cassius PC, the operating system will be either Windows ME or Windows 2000. These operating systems are the platform on which all other programs run, and give a friendly environment in which to work.

Drivers are small programs that the operating system uses to talk to the hardware devices on your computer. They act as the translator between, for example, your video card and your operating system. Whilst your operating system can partially communicate with your devices without their help, correct drivers must be loaded for each device in order to utilise the full functionality of your hardware.

Finally, applications are the programs you run within your operating system in order to utilise its capabilities. Just as drivers are the bridge between hardware and the operating system, applications are the bridge between the operating system and you.

In order to help clarify the function of these three types of software, let us take the example of playing a CD audio disc on your Cassius PC. You will insert a CD into your CD drive, and then close the door. The hardware will tell the drivers that an audio CD has been loaded, and these will tell the operating system. The operating system then loads the CD player application, which gives you the ability to control the CD drive. If you decide to stop the CD playing, you will click **Stop** within the program. The program then tells the operating system, which then tells the CD drive through the drivers. This may seem like an awkward and drawn-out communication line, but it is actually highly efficient, and allows great flexibility. You have the ability to update the drivers if a new version comes out, and you can use more than one particular program to control one particular device.

The first step in using any computer is familiarising yourself with the operating system by taking some time to explore its capabilities. Information is available from the Getting Started Windows documentation supplied with your Cassius PC, as well as from numerous books available from bookshops or libraries. In addition, both operating systems and applications are supplied

with Help files, which are instruction manuals that you can access on your computer.

Your Cassius PC

Your Cassius PC is unique. No other PC offers the wide range of features that Cassius provides in such a small case. As well as being a high specification workstation, your Cassius PC is a fully integrated multimedia centre, utilising notebook technology to create an elegant desktop solution. Your Cassius PC can do everything a normal PC can, plus much more. You can compile desktop publications, create digital images, browse the Internet, play 3D computer games, listen to music and much more. In addition, the Intertainment™ model allows you to watch DVD videos, listen to FM radio, watch NICAM Stereo TV and connect your PC to a TV or video.

The key features of your Cassius PC are shown below.

- Intel Pentium III/Celeron II Processor
- Socket 370PGA Motherboard
- PC133 Synchronous DRAM
- One 144-pin SO-DIMM Socket Accepting PC100/133 Memory Modules up to 256MB
- SIS 630 System Chipset
- 3D Graphics Accelerator
- Wavetable Soundcard
- 15" TFT Flat Screen Display
- DVD-ROM Drive (Intertainment Only)
- CD-ROM Drive (Pro Only)
- 10/100 BaseT Ethernet Port
- Internal Stereo Speakers and Microphone
- Headphone Connection Port, Line Out, Line In, Microphone In
- External VGA Connector for Dual Display Mode
- One PC Card / PCMCIA Type 2/3 Socket

- 2.5" UltraDMA Hard Disk Drive
- 56kbps V.90 Internal Modem
- Stereo FM Tuner (Intertainment Only)
- NICAM Digital Stereo TV Tuner (Intertainment Only)
- Teletext Decoder (UK Intertainment Only)
- Front Mounted IrDA Infra Red Port
- Wireless Keyboard and Mouse with Additional PS/2 Keyboard and Mouse Ports
- S/PDIF Digital Audio Output
- One RS232 Serial Port
- One Bi-directional ECP/EPP Parallel/Printer Port
- Three USB Ports
- Composite / S-Video Input and Output Ports (Intertainment Only)
- VESA FPM PMI (Flat Panel Monitor Physical Mounting Interface) Compliant Stand and Mounting
- Microsoft Windows Operating System

Index

Batteries

- Disposing of System, A–V
- Installing in the Keyboard, 1–14
- Installing in the Mouse, 1–14
- Replacement of System, 3–4

Button Panel, 1–7

Cassius PC

- Bottom View, 1–6
- Front View, 1–3
- Parts List, B–5
- Rear View, 1–4
- Side View, 1–5

CE Symbol, A–II

Computers Explained, B–2

Connection Blocks

- Block 1, 1–9
- Block 2, 1–10
- Rear, 1–8

Conventions

- Typographical, vi

Cordless Keyboard and Mouse, 1–11

Documentation Available, vi

DVD Player, 2–7

Emergency Repair Diskette, 1–20

FM Radio Tuner, 2–6

Getting to Know your Cassius PC, 1–3

Hardware, B–2

How Computers Work, B–2

Inserting a PCMCIA Card or PC CARD, 3–6

Installing Memory, 3–3

Keyboard, 1–11

Manually Connecting the Cordless Keyboard and Mouse, 1–14

Memory Expansion, 3–2

Mouse, 1–11

Normal Keyboard and Mouse, 1–14

Parts List, 1–2

II Cassius PC Getting Started and Reference Guide

- PC Card Slot, 3–5
- Positioning your Cassius PC, 1–16
- Posture, 1–17
- Problems Switching On, 6–2
- Problems with your Keyboard and Mouse, 6–4
- Radio Tuner, 2–6
- Remote Control, 2–2
- Removing a PCMCIA Card or PC CARD, 3–6
- Repair Diskette, 1–20
- Safety
 - Precautions, 1–15
 - Using your Cassius PC, 1–15
- Software, B–3
- Switching On, 1–18
- System Battery Replacement, 3–4
- Television Tuner, 2–4
- TV Tuner, 2–4
- Typographical Conventions, vi
- What's in the Box?, 1–2
- Windows Registration Procedure, 1–18