

studio

SETUP GUIDE




YOURS IS HERE


studio


SETUP GUIDE

Model PP39L

Notes, Cautions, and Warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

If you purchased a Dell™ n Series computer, any references in this document to Microsoft® Windows® operating systems are not applicable.

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Contents

Setting Up Your Studio Laptop	5	Solving Problems	27
Before Setting Up Your Computer	5	Beep Codes	27
Connect the AC Adapter	6	Network Problems	29
Connect the Network Cable (optional)	7	Power Problems	29
Press the Power Button	8	Memory Problems	30
Set Up Windows Vista®	9	Lockups and Software Problems	31
Connect to the Internet (Optional)	9	Dell Support Center	33
Using Your Studio Laptop	12	Using Support Tools	33
Right Side Features	12	System Messages	34
Left Side Features	16	Hardware Troubleshooter	35
Computer Base and Keyboard Features	18	Dell Diagnostics	36
Media Controls	19	Restoring Your Operating System	38
Display Features	21	System Restore	38
Removing and Replacing the Battery	22	Dell Factory Image Restore	40
Using the Optical Disc Drive	23	Operating System Reinstallation	41
Software Features	24		

Getting Help	43
Technical Support and Customer Service	44
DellConnect™	44
Online Services	44
AutoTech Service.....	45
Product Information.....	46
Returning Items for Repair Under Warranty or for Credit.....	46
Before You Call.....	47
Contacting Dell.....	48
Finding More Information and Resources	50
Basic Specifications	52
Appendix	61
Macrovision Product Notice.....	61
Index	62


Setting Up Your Studio Laptop


This section provides information about setting up your Studio 1555 laptop and connecting peripherals.

Before Setting Up Your Computer

When positioning your computer, ensure that you allow easy access to a power source, adequate ventilation, and a level surface to place your computer.

Restricting airflow around your Studio laptop may cause it to overheat. To prevent overheating ensure that you leave at least 10.2 cm (4 in) at the back of the computer and a minimum of 5.1 cm (2 in) on all other sides. You should never put your computer in an enclosed space, such as a cabinet or drawer when it is powered on.

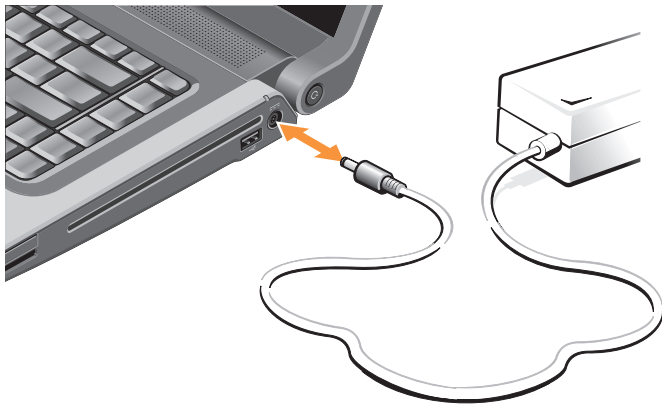
 **WARNING:** Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your Dell™ computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire. The computer turns on the fan when the computer gets hot. Fan noise is normal and does not indicate a problem with the fan or the computer.

 **CAUTION:** Placing or stacking heavy or sharp objects on the computer may result in permanent damage to the computer.

Connect the AC Adapter

Connect the AC adapter to the computer and then plug it into an electrical outlet or surge protector.

⚠ WARNING: The AC adapter works with electrical outlets worldwide. However, power connectors and power strips vary among countries. Using an incompatible cable or improperly connecting the cable to a power strip or electrical outlet may cause fire or equipment damage.



Connect the Network Cable (optional)

If you plan to use a wired network connection, plug in the network cable.




Press the Power Button




Set Up Windows Vista®


Your Dell computer is preconfigured with Windows Vista. To set up Windows Vista for the first time, follow the instructions on the screen. These steps are mandatory. The screens will take you through several procedures including accepting license agreements, setting preferences and setting up an Internet connection.

 **CAUTION:** Do not interrupt the operating system's setup process. Doing so may render your computer unusable.

Connect to the Internet (Optional)

 **NOTE:** ISPs (Internet Service Providers) and ISP offerings vary by country.

To connect to the Internet, you need an external modem or network connection and an Internet service provider (ISP).

 **NOTE:** If an external USB modem or WLAN adapter is not a part of your original order, you can purchase one from the Dell website at www.dell.com.

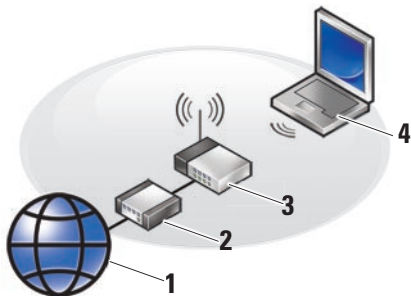
Setting Up Your Studio Laptop

Setting Up a Wired Internet Connection

If you are using a dial-up connection, connect the telephone line to the external USB modem (optional) and to the telephone wall connector before you set up your Internet connection.

If you are using a DSL or cable/satellite modem connection, contact your ISP or cellular telephone service for setup instructions and see “Setting Up Your Internet Connection” on page 11.

Setting Up a Wireless Connection




1. Internet service
2. cable or DSL modem
3. wireless router
4. portable computer with wireless network card

See the documentation for your computer or router for more information about how to set up and use your wireless network.

Before you can use your wireless Internet connection, you need to connect to your wireless router.

To establish your connection to a wireless router:


1. Save and close any open files, and exit any open programs.
2. Click **Start**  → **Connect To**.
3. Follow the instructions on the screen to complete the setup.


Setting Up Your Internet Connection


To set up an Internet connection with a provided ISP desktop shortcut:

1. Save and close any open files, and exit any open programs.
2. Double-click the ISP icon on the Microsoft® Windows® desktop.
3. Follow the instructions on the screen to complete the setup.

If you do not have an ISP icon on your desktop or if you want to set up an Internet connection with a different ISP, perform the steps in the following section.


 **NOTE:** If you cannot connect to the Internet but have successfully connected in the past, the ISP might have a service outage. Contact your ISP to check the service status, or try connecting again later.

 **NOTE:** Have your ISP information ready. If you do not have an ISP, the Connect to the Internet wizard can help you get one.

1. Save and close any open files, and exit any open programs.
2. Click **Start**  → **Control Panel**.
3. Under **Network and Internet**, click **Connect to the Internet**.

The **Connect to the Internet** window appears.

4. Select either **Broadband (PPPoE)** or **Dial-up**, depending on how you want to connect:
 - a. Choose **Broadband** if you will use a DSL, satellite modem, cable TV modem, or wireless technology connection.
 - b. Choose **Dial-up** if you will use an optional USB dial-up modem or ISDN.

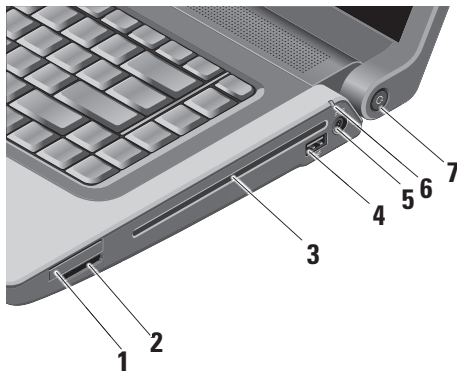
 **NOTE:** If you do not know which type of connection to select, contact your ISP.


5. Follow the instructions on the screen and use the setup information provided by your ISP to complete the setup.


Using Your Studio Laptop

Your Studio 1555 has indicators, buttons, and features that provide information at-a-glance and time-saving shortcuts for common tasks.

Right Side Features



- 1  **ExpressCard slot** – Supports one ExpressCard. The Express card slot is of 34 mm.

 **NOTE:** Your computer ships with a plastic blank installed in the ExpressCard slot. Blanks protect unused slots from dust and other particles. Save the blank for use when no ExpressCard is installed in the slot; blanks from other computers may not fit your computer.

2



8-in-1 Media card reader – Provides a fast and convenient way to view and share digital photos, music, videos, and documents stored on the following digital memory cards:

- Secure digital (SD) memory card
- Secure Digital Input Output (SDIO) card
- Multi Media Card (MMC)
- Memory Stick
- Memory Stick PRO
- xD-Picture Card (type - M and type - H)
- Hi Speed-SD
- Hi Density-SD



NOTE: Your computer ships with a plastic blank installed in the media card slot. Blanks protect unused slots from dust and other particles. Save the blank for use when no media card is installed in the slot; blanks from other computers may not fit your computer.


3 Optical Drive – Plays or burns only standard-size and shape (12 cm) CDs, and DVDs. Ensure that the side with print or writing is facing upward when inserting discs. For more information on using the optical disc drive, see “Using the Optical Disc Drive” on page 23.



4 USB 2.0 connector – Connects to a USB device, such as a mouse, keyboard, printer, external drive, or MP3 player.




5 AC adapter connector – Connects to the AC adapter to power on the computer and charge the battery when the computer is not in use.

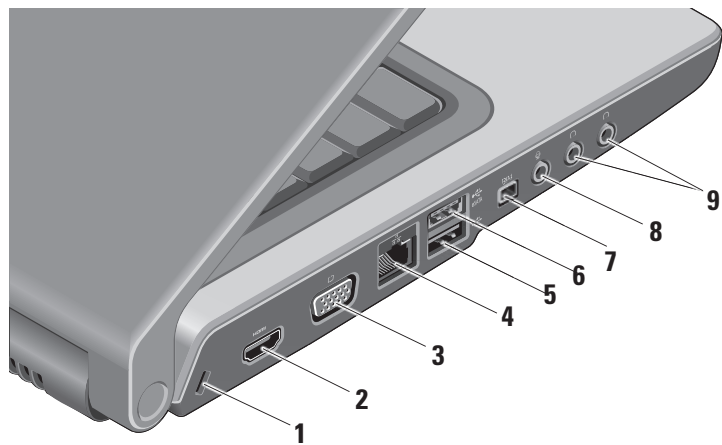
- 6  **Battery status light** – Indicates the battery charging state
- Battery status (running on battery) :
- Battery is adequately charged – no light indication (off)
 - Battery charge is low – flashing orange
 - Battery charge is critically low – solid orange

Battery status (connected to electrical outlet) :


- Battery is charging – solid white
- Battery is almost fully charged – flashing white
- Battery is fully charged – Off




- 7  **Power button and light** – Turns the power on or off when pressed. The light in the button indicates the power state:
- Computer is switched on – solid white
 - Standby mode – blinking white
 - Computer off – Off


Left Side Features




- 1 Security cable slot** – Attaches a commercially available antitheft device to the computer.

 **NOTE:** Before you buy an antitheft device, ensure that it works with the security cable slot on your computer.


-  **HDMI Connector** – HDMI (High-Definition Multimedia Interface) connector carries an uncompressed all digital signal to produce hi-definition video and audio.
-  **VGA connector** – Connects to a monitor or projector.
-  **Network connector** – If you are using a cabled network, this port connects your computer to a network or broadband device.

-  **USB 2.0 connector** – Connects to USB devices, such as a mouse, keyboard, printer, external drive, or MP3 player.

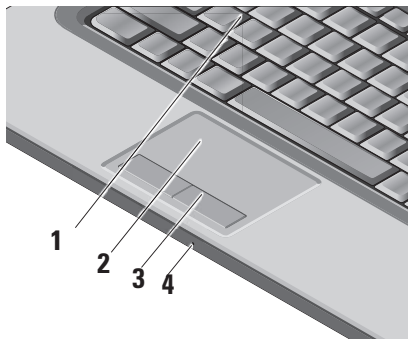
-  **eSATA Connector** – Connects to eSATA compatible storage devices, such as external hard disk drives or optical drives.


-  **IEEE 1394 connector** – Connects to high-speed serial multimedia devices, such as digital video cameras.

-  **Audio In/ Microphone connector** – Connects to a microphone or inputs signal for use with audio programs.

-  **Audio Out/ Headphone connectors (2)** – Connects one or two pairs of headphones, or sends audio to a powered speaker or sound system. The audio signal is the same for both connectors.

Computer Base and Keyboard Features



- 1 Keyboard/ Backlit Keyboard (optional) –** If you have purchased the optional backlit keyboard, the F6 key has the backlit keyboard icon  on it. The optional backlit keyboard provides visibility in dark environments by illuminating all symbols on the keys. For more information on using the keyboard, see the *Dell Technology Guide*.

Backlit Keyboard Brightness

Settings – Press <Fn> + F6 key to toggle the three lighting states (in the given order).

The three lighting states are:

- a. full keyboard/touch pad brightness.
- b. no lighting
- c. half keyboard/touch pad brightness.

- 2 Touch pad** – Provides the functionality of a mouse to move the cursor, drag or move selected items, and left-click by tapping the surface. It supports circular scrolling and zoom.

To change the circular scrolling and zoom settings, double click the *Dell Touch pad* icon in the notification area of your taskbar. In the **Scrolling** tab, you can enable or disable scrolling or circular scrolling, choose the scroll zone width, and scroll speed.

In the **Gestures** tab, you can enable or disable one finger zoom (zoom in and out moving the finger upward or downward) or the pinch zoom (zoom in and out by spreading two fingers or by bringing two fingers together).

- 3 Touch pad buttons** – Provide left- and right-click functions those on like a mouse.

- 4 Analog Microphone** – If you do not have the optional built-in camera with dual microphones, this single microphone is used for conferencing and chat.

Media Controls

The media controls are located on the keyboard. These keys control CD, DVD, and media playback.

You can toggle between **Multimedia key First and Function Key First in BIOS setup under Function Key Behavior**.

Multimedia Key First – This is the default option. Press any multimedia key directly. For function key, press <Fn> + the required function key.

Function Key First – Press any function key directly. For multimedia key, press <Fn> + the required multimedia key.




NOTE: Multimedia Key First option is active only in the operating system. During POST, press <F2> or <F12> directly.

Using Your Studio Laptop

To use the media controls, press the required key.




 Mute the sound

 Turn down the volume

 Turn up the volume

 Play the previous track or chapter

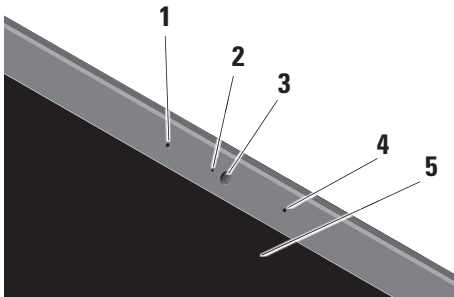
 Play or pause

 Play the next track or chapter

 Eject the disc

Display Features

The display panel holds an optional camera and accompanying dual microphones.



- 1 Left digital array microphone (optional)**
 – Combines with the right digital array microphone to provide high quality sound for video chatting and voice recording.

- 2 Camera activity light (optional)** – Indicates when the camera is on or off. Based on selections you made when purchasing your computer, your computer may not include a camera.
- 3 Camera (optional)** – Built-in camera for video capture, conferencing, and chat. Based the on selections you made when purchasing your computer, your computer may not include a camera.

FastAccess facial recognition (optional)
 – Helps to keep your Dell™ computer secure. This advanced facial recognition software learns your face and minimizes the need for you to use login passwords. For more information, click **Start** → **Programs** → **FastAccess Facial Recognition**.

- 4 Right digital array microphone (optional)**
 - Combines with the left digital array microphone to provide high quality sound for video chatting and voice recording.
- 5 Display** – Your display can vary based on selections you made when purchasing your computer. For more information about displays, see the *Dell Technology Guide*.

Removing and Replacing the Battery



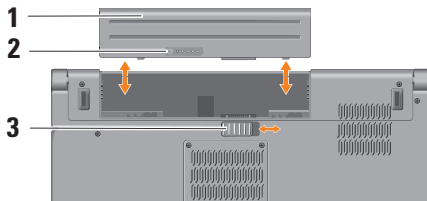
WARNING: Using an incompatible battery may increase the risk of fire or explosion. This computer should only use a battery purchased from Dell. Do not use batteries from other computers.



WARNING: Before removing the battery, shut down the computer, and remove external cables (including the AC adapter).

To remove the battery:

1. Shut down the computer and turn it over.
2. Slide the battery release latch until it clicks into place.
3. Slide the battery out.



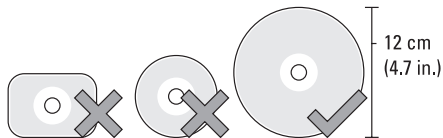
NOTE: For computers with Windows Vista, the Microsoft Windows license label is located in the battery cavity.

To replace the battery, slide it into the bay until it clicks into place.

- 1 Battery
- 2 Battery charge/health gauge
- 3 Battery release latch

Using the Optical Disc Drive

CAUTION: Do not use non-standard-size or shape discs (including mini-CDs and mini-DVDs) or you will damage the drive.




NOTE: Do not move the computer while playing or recording CDs and DVDs.


Using Your Studio Laptop

Place the disc in the center of the disc slot, with the label facing outwards and gently push the disc into the slot. The drive automatically pulls the disc in and begins to read its content.



To eject a disc from the drive, press the eject control key .

Software Features

 **NOTE:** For more information about the features described in this section, see the *Dell Technology Guide* on your hard drive or on the Dell Support website at support.dell.com.

Productivity and Communication

You can use your computer to create presentations, brochures, greeting cards, fliers, and spreadsheets. You can also edit and view digital photographs and images. Check your purchase order for software installed on your computer.

After connecting to the Internet, you can access websites, setup an e-mail account, upload and download files, and so on.

Entertainment and Multimedia

You can use your computer to watch videos, play games, create your own CDs, listen to music and internet radio stations. Your optical disc drive may support multiple disc media

formats including CDs, Blu-ray discs (if selected at the time of purchase), and DVDs.

You can download or copy pictures and video files from portable devices, such as digital cameras and cell phones. Optional software applications enable you to organize and create music and video files that can be recorded to disc, saved on portable products such as MP3 players and handheld entertainment devices, or played and viewed directly on connected TVs, projectors, and home theater equipment.

Customizing the Desktop

You can customize your desktop to change the appearance, resolution, wallpaper, screensaver, and so on by accessing the **Personalize appearance and sounds** window.

To access the display properties window:

1. Right-click an open area of the desktop.
2. Click **Personalize**, to open the **Personalize appearance and sounds** window and learn more about your customization options.


Customizing Your Energy Settings

You can use the power options in your operating system to configure the power settings on your computer. Microsoft® Windows Vista® shipped with Dell computer provides three default options:

- **Dell Recommended** — This power option offers full performance when you need it and saves power during periods of inactivity.
- **Power saver** — This power option saves power on your computer by reducing system performance to maximize the life of the computer and by reducing the amount of energy consumed by your computer over its lifetime.
- **High performance** — This power option provides the highest level of system performance on your computer by adapting processor speed to your activity and by maximizing system performance.


Backing Up Your Data

It is recommended that you periodically back up files and folders on your computer. To back up files:

1. Click **Start**  → **Control Panel** → **System and Maintenance** → **Welcome Center** → **Transfer files and settings**.
2. Click **Back up files** or **Back up computer**.
3. Click **Continue on Your User Account Control** dialog box and follow the instructions in the Back up Files wizard.

Solving Problems

This section provides troubleshooting information for your computer. If you can not solve your problem using the following guidelines, see “Using Support Tools” on page 33 or “Contacting Dell” on page 48.

 **WARNING:** Only trained service personnel should remove the computer cover. See the *Service Manual* on the Dell Support website at support.dell.com for advanced service and troubleshooting instructions.

Beep Codes

The following beep codes help you troubleshoot problems with your computer.

Number of Beeps	Description	Failure Coverage
1	BIOS ROM checksum in progress or failure. BIOS Chip	Motherboard failure, covers BIOS corruption or ROM error
2	No RAM Detected	No Memory Detected

Solving Problems

Number of Beeps	Description	Failure Coverage	Number of Beeps	Description	Failure Coverage
3	Chipset Error (North and South Bridge Chipset, DMA/IMR/Timer Error for Intel platform); Chipset Error Time-Of-Day Clock test failure Gate A20 failure Super I/O chip failure Keyboard controller test failure	Motherboard Failure	5	RTC Power Fail	CMOS battery failure
			6	Video BIOS Test Failure	Video card failure
			7	CPU Cache test failure (For Intel CPU only)	CPU failure
			8	LCD	LCD failure
4	RAM Read/Write failure	Memory failure			

Network Problems

Wired Connections


If the network connection is lost — The cable is loose or damaged. Check the cable to ensure it is plugged in and not damaged.

Power Problems

If the power light is off — The computer is either turned off or is not receiving power.

- Reseat the power cable into both the power connector on the computer and the electrical outlet.
- If the computer is plugged into a power strip, ensure that the power strip is plugged into an electrical outlet and that the power strip is turned on. Also bypass power protection devices, power strips, and power extension cables to verify that the computer turns on properly.

- Ensure that the electrical outlet is working by testing it with another device, such as a lamp.
- Check the AC adapter cable connections. If the AC adapter has a light, ensure that the light on the AC adapter is on.

 **NOTE:** The power LED is present on the AC adapter cable.

If the power light is solid white and the computer is not responding — The display may not be responding. Press the power button until the computer turns off and then turn it back on. If the problem persists, see the *Dell Technology Guide* on the Dell Support website at support.dell.com.

If the power light is blinking white — The computer is in standby mode. Press a key on the keyboard, move the pointer using the touch pad or a connected mouse, or press the power button to resume normal operation.

Solving Problems

If you encounter interference that hinders reception on your computer — An unwanted signal is creating interference by interrupting or blocking other signals. Some possible causes of interference are:

- Power, keyboard, and mouse extension cables.
- Too many devices connected to a power strip.
- Multiple power strips connected to the same electrical outlet.

Memory Problems

If you receive an insufficient memory message—

- Save and close any open files and exit any open programs you are not using to see if that resolves the problem.
- See the software documentation for minimum memory requirements. If necessary, install additional memory (See the *Service Manual* on the Dell Support website at support.dell.com).

- Reseat the memory modules (See the *Service Manual* on the Dell Support website at support.dell.com) to ensure that your computer is successfully communicating with the memory.

If you experience other memory problems —

- Ensure that you are following the memory installation guidelines (see the *Service Manual* on the Dell Support website at support.dell.com).
- Check if the memory module is compatible with your computer. Your computer supports DDR2 memory. For more information about the type of memory supported by your computer, see “Basic Specifications” on page 52.
- Run the Dell Diagnostics (see “Dell Diagnostics” on page 36).
- Reseat the memory modules (see the *Service Manual* on the Dell Support website at support.dell.com) to ensure that your computer is successfully communicating with the memory.


Lockups and Software Problems

If the computer does not start up — Ensure that the power cable is firmly connected to the computer and to the electrical outlet.


If a program stops responding — End the program:

1. Press <Ctrl><Shift><Esc> simultaneously.
2. Click **Applications**.
3. Click the program that is no longer responding
4. Click **End Task**.

If a program crashes repeatedly — Check the software documentation. If necessary, uninstall and then reinstall the program.

 **NOTE:** Software usually includes installation instructions in its documentation or on the CD.


If the computer stops responding —

 **WARNING:** You might lose data if you are unable to perform an operating system shutdown.

Turn the computer off. If you are unable to get a response by pressing a key on your keyboard or moving your mouse, press the power button for at least 8 to 10 seconds until the computer turns off and then restart your computer.

If a program is designed for an earlier Microsoft® Windows® operating system —


Run the Program Compatibility Wizard. The Program Compatibility Wizard configures a program so that it runs in an environment similar to non-Windows Vista operating system environments.

1. Click **Start**  → **Control Panel** → **Programs** → **Use an older program with this version of Windows**.
2. In the welcome screen, click **Next**.
3. Follow the instructions on the screen.

Solving Problems

If a solid blue screen appears — Turn the computer off. If you are unable to get a response by pressing a key on your keyboard or moving your pointer or mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off and then restart your computer.

If you have other software problems —


- Back up your files immediately.
- Use a virus-scanning program to check the hard drive or CDs.
- Save and close any open files or programs and shut down your computer through the **Start**  menu.
- Check the software documentation or contact the software manufacturer for troubleshooting information:
 - Ensure that the program is compatible with the operating system installed on your computer.
 - Ensure that your computer meets the minimum hardware requirements needed to run the software. See the software documentation for information.
- Ensure that the program is installed and configured properly.
- Verify that the device drivers do not conflict with the program.
- If necessary, uninstall and then reinstall the program Dell Support Center.

Using Support Tools

Dell Support Center

The Dell Support Center helps you find the service, support, and system-specific information you need. For more information about Dell Support Center and available support tools, click the **Services** tab at support.dell.com.



Click the  icon in the taskbar to run the application. The home page provides links to access:

- Self Help (Troubleshooting, Security, System Performance, Network/Internet, Backup/Recovery, and Windows Vista)
- Alerts (technical support alerts relevant to your computer)
- Assistance from Dell (Technical Support with DellConnect™, Customer Service, Training and Tutorials, How-To Help with Dell on Call, and Online Scan with PC CheckUp)


- About Your System (System Documentation, Warranty Information, System Information, Upgrades & Accessories)

The top of the Dell Support Center home page displays your system's model number along with its service tag and express service code.

For more information about the Dell Support Center, see the *Dell Technology Guide* on your hard drive or on the Dell Support website at support.dell.com.

System Messages

If your computer has an issue or error, it may display a System Message that will help you identify the cause and action needed to resolve the issue.

 **NOTE:** If the message you received is not listed in the following examples, see the documentation for either the operating system or the program that was running when the message appeared. Alternatively you could see the *Dell Technology Guide in your hard disk* or on the Dell Support website at support.dell.com or see “Contacting Dell” on page 48 for assistance.

Alert! Previous attempts at booting this system have failed at checkpoint [nnnn]. For help in resolving this problem, please note this checkpoint and contact Dell Technical Support — The computer failed to complete the boot routine three consecutive times for the same error see “Contacting Dell” on page 48 for assistance.

CMOS checksum error — Possible motherboard failure or RTC battery low. Replace the battery. See the *Service Manual* on the Dell Support website at support.dell.com or see “Contacting Dell” on page 48 for assistance.

CPU fan failure — CPU fan has failed. Replace the CPU fan. See the *Service Manual* on the Dell Support website at support.dell.com.

Hard-disk drive failure — Possible hard disk drive failure during POST, see “Contacting Dell” on page 48 for assistance.

Hard-disk drive read failure — Possible hard disk drive failure during HDD boot test see “Contacting Dell” on page 48 for assistance.

Keyboard failure — Keyboard failure or loose cable.

To replace the keyboard, see the Service Manual.

No boot device available — No bootable partition on hard disk drive, the hard disk drive cable is loose, or no bootable device exists.

- If the hard drive is your boot device, ensure that the cables are connected and that the drive is installed properly and partitioned as a boot device.
- Enter system setup and ensure that the boot sequence information is correct (see the *Dell Technology Guide* on the Dell Support website at support.dell.com).

No timer tick interrupt — A chip on the system board might be malfunctioning or motherboard failure (see “Contacting Dell” on page 48 for assistance).

USB over current error — Disconnect the USB device. Your USB device needs more power for it to function properly. Use an external power source to connect the USB device, or if your device has two USB cables, connect both of them.


CAUTION - Hard Drive SELF MONITORING SYSTEM has reported that a parameter has exceeded its normal operating range. Dell recommends that you back up your data

regularly. A parameter out of range may or may not indicate a potential hard drive problem — S.M.A.R.T error, possible hard disk drive failure (see “Contacting Dell” on page 48 for assistance).

Hardware Troubleshooter


If a device is either not detected during the operating system setup or is detected but incorrectly configured, you can use the **Hardware Troubleshooter** to resolve the incompatibility.


To start the Hardware Troubleshooter:

1. Click **Start**  → **Help and Support**.
2. Type `hardware troubleshooter` in the search field and press <Enter> to start the search.
3. In the search results, select the option that best describes the problem and follow the remaining troubleshooting steps.

Dell Diagnostics

If you experience a problem with your computer, perform the checks in “Lockups and Software Problems” on page 52 and run the Dell Diagnostics before you contact Dell for technical assistance.

 **CAUTION:** Dell Diagnostics works only on Dell computers.


 **NOTE:** The *Drivers and Utilities* media is optional and may not ship with your computer.

See the *Dell Technology Guide* to review your computer’s configuration information, and ensure that the device that you want to test displays in the system setup program and is active.


Start the Dell Diagnostics from your hard drive or from the *Drivers and Utilities* media.


Starting Dell Diagnostics From Your Hard Drive

The Dell Diagnostics is located on a hidden diagnostic utility partition on your hard drive.

 **NOTE:** If your computer cannot display a screen image, see “Contacting Dell” on page 48.

1. Ensure that the computer is connected to an electrical outlet that is known to be working properly.
2. Turn on (or restart) your computer.
3. When the DELL™ logo appears, press <F12> immediately. Select **Diagnostics** from the boot menu and press <Enter>.


 **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.


 **NOTE:** If you see a message stating that no diagnostics utility partition has been found, run the Dell Diagnostics from the *Drivers and Utilities* media.

4. Press any key to start the Dell Diagnostics from the diagnostics utility partition on your hard drive.

Starting Dell Diagnostics From the Drivers and Utilities Media

1. Insert the *Drivers and Utilities* media.
2. Shut down and restart the computer.
When the DELL logo appears, press <F12> immediately.

 **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.

 **NOTE:** The next steps change the boot sequence for one time only. On the next start-up, the computer boots according to the devices specified in the system setup program.

3. When the boot device list appears, highlight **CD/DVD/CD-RW** and press <Enter>.

4. Select the **Boot from CD-ROM** option from the menu that appears and press <Enter>.
5. Type 1 to start the CD menu and press <Enter> to proceed.
6. Select **Run the 32 Bit Dell Diagnostics** from the numbered list. If multiple versions are listed, select the version appropriate for your computer.
7. When the Dell Diagnostics **Main Menu** appears, select the test you want to run.

Restoring Your Operating System


You can restore your operating system in the following ways:


- System Restore returns your computer to an earlier operating state without affecting data files. Use System Restore as the first solution for restoring your operating system and preserving data files.
- Dell Factory Image Restore returns your hard drive to the operating state it was in when you purchased the computer. This procedure permanently delete all data on the hard drive and remove any programs installed after you received the computer. Use Dell Factory Image Restore only if System Restore did not resolve your operating system problem.
- If you received an Operating System disc with your computer, you can use it to restore your operating system. However, using the Operating System disc also deletes all data

on the hard drive. Use the disc only if System Restore did not resolve your operating system problem.


System Restore


The Windows operating systems provide a System Restore option which allows you to return your computer to an earlier operating state (without affecting data files) if changes to the hardware, software, or other system settings have left the computer in an undesirable operating state. Any changes that System Restore makes to your computer are completely reversible.

 **CAUTION:** Take regular backups of your data files. System Restore does not monitor your data files or recover them.

 **NOTE:** The procedures in this document were written for the Windows default view, so they may not apply if you set your Dell™ computer to the Windows Classic view.

Starting System Restore


1. Click **Start** .
2. In the **Start Search** box, type `System Restore` and press <Enter>.


 **NOTE:** The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to continue the desired action.

3. Click **Next** and follow the remaining prompts on the screen.


In the event that System Restore did not resolve the issue, you may undo the last system restore.


Undoing the Last System Restore

 **NOTE:** Before you undo the last system restore, save and close all open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1. Click **Start** .
2. In the **Start Search** box, type `System Restore` and press <Enter>.
3. Click **Undo my last restoration** and click **Next**.

Dell Factory Image Restore

 **WARNING:** Using Dell Factory Image Restore permanently deletes all data on the hard drive and removes any programs or drivers installed after you received your computer. If possible, back up the data before using these options. Use Dell Factory Image Restore only if System Restore did not resolve your operating system problem.


 **NOTE:** Dell Factory Image Restore may not be available in certain countries or on certain computers.

Use Dell Factory Image Restore only as the last method to restore your operating system. This option restores your hard drive to the operating state it was in when you purchased the computer. Any programs or files added since you received your computer—including data files—are permanently deleted from the hard drive. Data files include documents, spreadsheets, e-mail messages, digital photos,


music files, and so on. If possible, back up all data before using Dell Factory Image Restore.

Dell Factory Image Restore

1. Turn on the computer. When the Dell logo appears, press <F8> several times to access the **Vista Advanced Boot Options** Window.
2. Select **Repair Your Computer**.
3. The **System Recovery Options** window appears.
4. Select a keyboard layout and click **Next**.
5. To access the recovery options, log on as a local user. To access the command prompt, type `administrator` in the **User name** field, then click **OK**.
6. Click **Dell Factory Image Restore**. The **Dell Factory Image Restore** welcome screen appears.

 **NOTE:** Depending upon your configuration, you may need to select **Dell Factory Tools**, then **Dell Factory Image Restore**.

7. Click **Next**. The **Confirm Data Deletion** screen appears.

 **CAUTION:** If you do not want to proceed with Factory Image Restore, click **Cancel**.

8. Select the checkbox to confirm that you want to continue reformatting the hard drive and restoring the system software to the factory condition, then click **Next**.


The restore process begins and may take five or more minutes to complete. A message appears when the operating system and factory-installed applications have been restored to factory condition.

9. Click **Finish** to reboot the system.

Operating System Reinstallation

Before you Begin


If you are considering reinstalling the Windows operating system to correct a problem with a newly installed driver, first try using Windows Device Driver Rollback. If Device Driver Rollback does not resolve the problem, then use System Restore to return your operating system to the operating state it was in before you installed the new device driver. See “System Restore” on page 38.

 **CAUTION:** Before performing the installation, back up all data files on your primary hard drive. For conventional hard drive configurations, the primary hard drive is the first drive detected by the computer.

Restoring Your Operating System

To reinstall Windows, you need the following:

- *Dell Operating System* media
- *Dell Drivers and Utilities* media

 **NOTE:** The *Dell Drivers and Utilities* media contains drivers that were installed during the assembly of the computer. Use the Dell Drivers and Utilities media to load any required drivers. Depending on the region from which you ordered your computer, or whether you requested the media, the *Dell Drivers and Utilities* media and *Operating System* media may not ship with your computer.

Reinstalling Windows Vista

The reinstallation process can take 1 to 2 hours to complete. After you reinstall the operating system, you must also reinstall the device drivers, virus protection program, and other software.


1. Save and close any open files and exit any open programs.


2. Insert the *Operating System* disc.

3. Click **Exit** if the **Install Windows** message appears.

4. Restart the computer.

5. When the DELL logo appears, press <F12> immediately.

 **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.



 **NOTE:** The next steps change the boot sequence for one time only. On the next start-up, the computer boots according to the devices specified in the system setup program.

6. When the boot device list appears, highlight **CD/DVD/CD-RW Drive** and press <Enter>.


7. Press any key to **Boot from CD-ROM**. Follow the instructions on the screen to complete the installation.

Getting Help

If you experience a problem with your computer, you can complete the following steps to diagnose and troubleshoot the problem:

1. See “Solving Problems” on page 27 for information and procedures that pertain to the problem your computer is experiencing.
2. See the *Dell Technology Guide* for more troubleshooting information.
3. See “Dell Diagnostics” on page 36 for procedures on how to run Dell Diagnostics.
4. Fill out the “Diagnostic Checklist” on page 47.
5. Use Dell’s extensive suite of online services available at Dell Support (support.dell.com) for help with installation and troubleshooting procedures. See “Online Services” on page 44 for a more extensive list of Dell Support online.
6. If the preceding steps have not resolved the problem, see “Contacting Dell” on page 48.
 -  **NOTE:** Call Dell Support from a telephone near or at the computer so that the support staff can assist you with any necessary procedures.
 -  **NOTE:** Dell’s Express Service Code system may not be available in all countries.

When prompted by Dell’s automated telephone system, enter your Express Service Code to route the call directly to the proper support personnel. If you do not have an Express Service Code, open the **Dell Accessories** folder, double-click the **Express Service Code** icon, and follow the directions.

-  **NOTE:** Some of the services are not always available in all locations outside the continental U.S. Call your local Dell representative for information on availability.

Technical Support and Customer Service

Dell's support service is available to answer your questions about Dell hardware. Our support staff use computer-based diagnostics to provide fast, accurate answers.

To contact Dell's support service, see "Before You Call" on page 47 and then see the contact information for your region or go to support.dell.com.

DellConnect™

DellConnect is a simple online access tool that allows a Dell service and support associate to access your computer through a broadband connection, diagnose your problem and repair it all under your supervision. For more information, go to support.dell.com and click **DellConnect**.

Online Services

You can learn about Dell products and services on the following websites:

- www.dell.com
- www.dell.com/ap (Asian/Pacific countries only)
- www.dell.com/jp (Japan only)
- www.euro.dell.com (Europe only)
- www.dell.com/la (Latin American and Caribbean countries)
- www.dell.ca (Canada only)

You can access Dell Support through the following websites and e-mail addresses:

Dell Support websites

- support.dell.com
- support.jp.dell.com (Japan only)
- support.euro.dell.com (Europe only)

Dell Support e-mail addresses

- **mobile_support@us.dell.com**
- **support@us.dell.com**
- **la-techsupport@dell.com** (Latin America and Caribbean countries only)
- **apsupport@dell.com** (Asian/Pacific countries only)

Dell Marketing and Sales e-mail addresses

- **apmarketing@dell.com** (Asian/Pacific countries only)
- **sales_canada@dell.com** (Canada only)

Anonymous file transfer protocol (FTP)

- **ftp.dell.com**

Log in as user: *anonymous*, and use your e-mail address as your password.

AutoTech Service

Dell's automated support service—AutoTech—provides recorded answers to the questions most frequently asked by Dell customers about their portable and desktop computers.

When you call AutoTech, use your touch-tone telephone to select the subjects that correspond to your questions. For instructions on accessing the telephone number to call your region, see “Contacting Dell” on page 48.

Automated Order-Status Service

To check on the status of any Dell products that you have ordered, you can go to **support.dell.com**, or you can call the automated order-status service. A recording prompts you for the information needed to locate and report on your order. For the telephone number to call your region, see “Contacting Dell” on page 48 for problems with your order.

If you have a problem with your order, such as missing parts, wrong parts, or incorrect billing,

Getting Help

contact Dell for customer assistance. Have your invoice or packing slip handy when you call.

For the telephone number to call for your region, see “Contacting Dell” on page 48.

Product Information


If you need information about additional products available from Dell, or if you would like to place an order, visit the Dell website at **www.dell.com**. For the telephone number to call for your region or to speak to a sales specialist, see “Contacting Dell” on page 48.

Returning Items for Repair Under Warranty or for Credit

Prepare all items being returned, whether for repair or credit, as follows:

1. Call Dell to obtain a Return Material Authorization Number, and write it clearly and prominently on the outside of the box.
2. For the telephone number to call for your region, see “Contacting Dell” on page 48.
3. Include a copy of the invoice and a letter describing the reason for the return.
4. Include a copy of the Diagnostics Checklist (see “Diagnostic Checklist” on page 47), indicating the tests that you have run and any error messages reported by the Dell Diagnostics (see “Dell Diagnostics” on page 36).
5. Include any accessories that belong with the item(s) being returned (power cables, software, guides, and so on) if the return is for credit.
6. Pack the equipment to be returned in the original (or equivalent) packing materials.
7. You are responsible for paying shipping expenses. You are also responsible for insuring any product returned, and you assume the risk of loss during shipment to Dell. Collect On Delivery (C.O.D.) packages are not accepted.
8. Returns that are missing any of the preceding requirements will be refused at Dell’s receiving dock and returned to you.

Before You Call

 **NOTE:** Have your Express Service Code ready when you call. The code helps Dell's automated-support telephone system direct your call more efficiently. You may also be asked for your Service Tag (located on the back or bottom of your computer).

Remember to fill out the following Diagnostics Checklist. If possible, turn on your computer before you call Dell for assistance and call from a telephone at or near the computer. You may be asked to type some commands at the keyboard, relay detailed information during operations, or try other troubleshooting steps possible only at the computer itself. Ensure that the computer documentation is available.

Diagnostic Checklist

- Name:
- Date:
- Address:
- Phone number:
- Service Tag (bar code on the back or bottom of the computer):
- Express Service Code:
- Return Material Authorization Number (if provided by Dell support technician):
- Operating system and version:
- Devices:
- Expansion cards:
- Are you connected to a network? Yes /No
- Network, version, and network adapter:
- Programs and versions:


Getting Help

See your operating system documentation to determine the contents of the computer's start-up files. If the computer is connected to a printer, print each file. Otherwise, record the contents of each file before calling Dell.

- Error message, beep code, or diagnostic code:
- Description of problem and troubleshooting procedures you performed:

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

Finding More Information and Resources

If you need to:

reinstall your operating system.

run a diagnostic program for your computer, reinstall notebook system software, or update drivers for your computer, and readme files.

learn more about your operating system, maintaining peripherals, Internet, Bluetooth[®], networking, and e-mail.

upgrade your computer with new or additional memory, or a new hard drive.

reinstall or replace a worn or defective part.

See:

the Operating System media.

the *Drivers and Utilities* media.



NOTE: Drivers and documentation updates can be found on the Dell™ Support website at **support.dell.com**.

the *Dell Technology Guide* installed on your hard drive.

the *Service Manual* on the Dell Support website at **support.dell.com**



NOTE: In some countries, opening and replacing parts of your computer may void your warranty. Check your warranty and return policies before working inside your computer.

If you need to:

find safety best practices information for your computer

review Warranty information, Terms and Conditions (U.S. only), Safety instructions, Regulatory information, Ergonomics information, and End User License Agreement.

find your Service tag/Express Service Code— You must use the service tag to identify your computer on **support.dell.com** or to contact technical support.

find drivers and downloads.

access technical support and product help.

check on your order status for new purchases.

find solutions and answers to common questions.

locate information for last-minute updates about technical changes to your computer or advanced technical-reference material for technicians or experienced users.

See:

the safety and regulatory documents that shipped with your computer and also see the Regulatory Compliance Homepage at **www.dell.com/regulatory_compliance**.

the back or bottom of your computer.

the Dell™ Support website at **support.dell.com**.

Basic Specifications

System Model


Dell Studio 1555

This section provides basic information that you may need when setting up, updating drivers for, and upgrading your computer.



NOTE: Offerings may vary by region.

For more information regarding the configuration of your computer, click

Start  → **Help and Support** and select the option to view information about your computer.

Processor

Type	L2 cache
Intel® Core™2 Duo Processor	3 MB or 6 MB
Intel® Pentium® Dual-Core Processor	1 MB
Intel® Celeron® Dual-Core Processor	1 MB
Intel® Celeron® Processor	1 MB
L1 cache	64 KB (Intel - 32 KB per core)

Processor


External bus frequency	<ul style="list-style-type: none"> • Intel Core 2 Duo (800MHz /1066MHz) • Intel Pentium Dual Core (667MHz) • Intel Celeron (667Mhz)
------------------------	--


ExpressCard

ExpressCard controller	Intel ICH9M
Cards supported	ExpressCard/34 (34 mm) 1.5 V and 3.3 V
ExpressCard connector size	26 pins

Memory

Connectors	two user-accessible SODIMM connectors
Capacities	1 GB, 2 GB, and 4 GB
Memory type	800 MHz SODIMM DDR2
Minimum Memory	1 GB (single channel)
Maximum Memory	8 GB (dual channel 4G x2)

 **NOTE:** Memory specification of > 4 GB is not well supported for a 32-bit Operating System (OS).

 **NOTE:** For instructions on upgrading your memory, see the *Service Manual* on the Dell Support website at support.dell.com.

Basic Specifications

Computer Information

System Chipset	Intel GM45/PM45 + ICH9M
Data bus width	64 bits
DRAM bus width	dual channel (2) 64-bit buses
Processor address bus width	32 bits
Flash EPROM	2 MB
Graphics bus	PCI-E X16
PCI bus	32 bits

Communications

Modem type	External V.92 56K USB Modem
Modem controller	Hardware Modem

Communications

Modem interface	Universal Serial Bus (USB)
Network adapter	10/100/1000 Ethernet LAN on system board
Wireless	1 x half Mini-Card for WLAN for basic config 2 x full Mini-Cards (Optional) WWAN ExpressCard Card with Bluetooth® wireless technology

Video

Discrete

Video type	integrated on system board
Video controller	ATI Mobility Radeon HD 4570
Video memory	GDDR3 256MB/512MB

Video**UMA**

Video type	integrated on system board
Video controller	Mobile Intel GMA 4500MHD
Video memory	Up to 358 MB of shared memory
LCD interface	LVDS
TV support	HDMI 1.2

Audio

Audio type	IDT 92HD73C High Definition Audio codec
Audio controller	5.1 channel High Definition Audio
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)

Audio

Internal Interface	Intel High Definition Audio
External Interface	microphone-in connector, stereo headphones/speakers connector
Speaker	two 4.5-ohm speakers and one 4 ohm subwoofer
Internal speaker amplifier	2 Watt per channel into 4.5 ohm and 3 Watt per channel subwoofer
Volume controls	Software program menus or keyboard buttons

Basic Specifications

Ports and Connectors

Audio	microphone connector, two stereo headphone/speakers connector
IEEE 1394a	4-pin serial connector (optional)
Mini-Card	one Type IIIA, 2 full Mini-Card slots
Network adapter	RJ-45 port
eSATA	one seven-pin/four-pin eSATA/USB combo connector
USB	two 4-pin USB 2.0-compliant connectors
Video	15-hole connector
HDMI	19 pin

Display

Type (TrueLife)	15.6-inch WLED HD TrueLife
<i>Dimensions:</i>	
Height	193.5mm (7.61 in)
Width	344.2 mm (13.55 in)
Diagonal	396.2 mm (15.6 in)
Maximum resolution:	
HD with TrueLife	1366 x 768
Refresh rate	60 Hz
Operating angle	0° (closed) to 140°
<i>Viewing Angles:</i>	
Horizontal	±40° (HD with TrueLife)
Vertical	+15°/-30° (HD with TrueLife)

Display

Pixel pitch	
HD with TrueLife	0.252 mm
Controls	brightness can be controlled through keyboard shortcuts (see the <i>Dell Technology Guide</i> for more information.)

Keyboard

Number of keys	86 (U.S. and Canada); 102 (Europe); 105 (Japan); 104 (Brazil)
Layout	QWERTY/AZERTY/Kanji

Camera (optional)

Pixel	2.0 megapixel
Video resolution	320x240 ~1600x1200 (640x480 at 30fps)
Diagonal viewing angle	66°

Touch pad

X/Y position resolution (graphics table mode)	240 cpi
<i>Size</i>	
Width	73.09 mm (2.87-in) sensor-active area
Height	40.09 mm (1.57-in) rectangle

Basic Specifications

Battery

Type	4-cell/6-cell/9-cell "smart" lithium ion
Depth	48.3 mm (1.9 inches) (4/6/9-cell)
Height	20.4 mm (0.8 in) (4/6-cell) 37.8 mm (1.5 in) (9-cell)
Width	206.6 mm (8.13 in) (4/6-cell) 284.9 mm (11.2 in) (9-cell)
Weight	0.24 kg (0.54 lb) (4-cell) 0.34 kg (0.75 lb) (6-cell) 0.5 kg (1.1 lb) (9-cell)
Voltage	11.1 VDC (6/9-cell) 14.8 VDC (4-cell)
Charge time (approximate): Computer off	4 hours

Battery

Operating time	Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions. See the <i>Dell Technology Guide</i> for more information.
Life span (approximate)	300 discharge/charge cycles
<i>Temperature range:</i>	
Operating	0° to 35°C (32° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)
Coin-cell battery	CR-2032

AC Adapter

Input voltage	100–240 VAC 115–230 VAC (Auto-Air Adapter)
Input current (maximum)	1.5 A 2.5 A (Auto-Air Adapter)
Input frequency	50–60 Hz
Output power	65 W or 90 W
Output current (90 W)	5.62 A (maximum at 4-second pulse) 4.62 A (continuous)
Output current (65 W)	4.34 A (maximum at 4-second pulse) 3.34 A (continuous)
Rated output voltage	19.5 +/- 1 VDC

AC Adapter*Dimensions:*

65 W (E-Series)

Height	16 mm (0.6 in) 15 mm (0.59 in) (Auto-Air Adapter)
Width	66 mm (2.6 in)
Depth	127 mm (5.0 in)
Weight (with cables)	0.29 kg (0.64 lb) 0.26 kg (0.57 lb) (Auto-Air Adapter, without AC cord and DC extension cord)

90 W (E-Series)

Height	16 mm (0.6 in)
Width	70 mm (2.8 in)

Basic Specifications

AC Adapter

Depth	147 mm (5.8 in)
Weight (with cables)	0.345 kg (0.76 lb)
Temperature ranges:	
Operating	0° to 35°C (32° to 95°F) 0° to 40°C (32° to 104°F) (Auto-Air Adapter)
Storage	-40° to 65°C (-40° to 149°F) -40° to 70°C (-40° to 158°F) (Auto-Air Adapter)

Physical

Height	25.3 mm to 38.9 mm (0.996 in to 1.23 in)
Width	371.6 mm (14.63 in)
Depth	253 mm (9.96 in)
Weight (with 4-cell battery):	5.4 lb
Configurable to less than	
<i>Relative humidity (maximum):</i>	
Operating	10% to 90% (noncondensing)
Storage	5% to 95% (noncondensing)
Altitude (maximum):	
Operating	-15.2 to 3048 m (-50 to 10,000 ft)

Appendix

Macrovision Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Index

A

AC adapter

size and weight **59**

airflow, allowing **5**

AutoTech **45**

B

backups

creating **26**

C

calling Dell **47**

CDs, playing and creating **24**

chipset **54**

computer capabilities **24**

computer, setting up **5**

connect(ing)

to the Internet **9**

conserving energy **25**

Contacting Dell online **48**

customer service **44**

customizing

your desktop **25**

your energy settings **25**

D

damage, avoiding **5**

data, backing up **26**

DellConnect **44**

Dell Diagnostics **36**

Dell Factory Image Restore **38**

Dell Support Center **33**
Dell support website **51**
Dell Technology Guide
 for further information **50**
device status lights **12**
Diagnostic Checklist **47**
disc drive
 supported disc sizes **23**
discs
 ejecting **24**
 using **23**
drivers and downloads **51**
DVDs, playing and creating **25**

E

email addresses
 for technical support **45**

energy
 conserving **25**
expansion bus **54**

F

finding more information **50**
FTP login, anonymous **45**

H

hardware problems
 diagnosing **35**
Hardware Troubleshooter **35**
help
 getting assistance and support **43**
horizontal and vertical stand options **6**

Index

I

installing the stand **6**

Internet connection **9**

ISP

Internet Service Provider **9**

M

memory problems

solving **30**

memory support **53**

Microsoft™ Windows Vista® **9**

N

network connection

fixing **29**

O

order status **45**

P

power problems, solving **29**

power strips, using **6**

problems, solving **27**

processor **52**

products

information and purchasing **46**

R

reinstalling Windows **38**

resources, finding more **50**

restoring factory image **40**

S

setup, before you begin **5**

shipping products

for return or repair **46**

software features **24**

- software problems **31**
- solving problems **27**
- specifications **52**
- support email addresses **45**
- support sites
 - worldwide **44**
- System Messages **34**
- System Restore **38**

T

- technical support **44**

V

- ventilation, ensuring **5**

W

- warranty returns **46**
- Windows, reinstalling **38**

Windows Vista®

- Program Compatibility Wizard **31**
- reinstalling **42**
- wired network
 - network cable, connecting **7**



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