

Contents: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Preface](#)

[Introduction](#)

[Setup](#)

[Using the Display](#)

[Troubleshooting](#)

[Specifications](#)

[Appendix](#)

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Preface: Dell™ E173FP Flat Panel Color Monitor User's Guide

[About This Guide](#) • [Notational Conventions](#)

About This Guide

This guide is intended for anyone who uses the Dell E173FP Color Monitor. It describes the display's features, setup, and operation.

The sections are as follows:

- [Introduction](#) gives an overview of the display's features and provides an orientation to the display.
 - [Setup](#) describes the initial setup process.
 - [Using the Display](#) gives an overview of how to use the display.
 - [Troubleshooting](#) provides tips and solutions for common problems.
 - [Specifications](#) lists the technical specifications of the display.
 - [Appendix](#) provides additional documentation that supports this product.
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Notational Conventions

The following subsections describe notational conventions used in this document.

Notes, Notices, and Cautions

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, notices, and cautions, and they are used as follows:



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



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



CAUTION: A CAUTION indicates the potential for bodily harm and tells you how to avoid the problem.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

Introduction: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Overview](#) • [Graphics](#)

Overview

Thank you for purchasing the Dell E173FP 17-inch Flat Panel Display. The Dell E173FP was designed to accommodate a wide variety of users ranging from home and small offices to large corporate environments. Displaying brilliant images at a maximum resolution of up to 1280x1024 pixels, this Active Matrix TFT LCD monitor is ideal for word processing, e-mail, spreadsheets, and Internet browsing. Those who require exceptional quality and reliability at an affordable price will appreciate the value that the Dell E173FP provides.

For more details see [Specifications](#) section.

Graphics

The following links show various views of the display and its components.

[Front View](#)

[Back View](#)

[Bottom View](#)

[Side View](#)

[Back to Contents Page](#)

Setup: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Tilt Base](#)

[Attaching the Cables](#)

[Attaching the optional Dell™ Soundbar](#)

[Positioning the Display](#)

[Maintenance](#)

[Back to Contents Page](#)

[Back to Contents Page](#)

Using the Display: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Setting the Optimal Resolution](#)

[Controls and Indicators](#)

[Back to Contents Page](#)

Troubleshooting: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Monitor Specific Troubleshooting](#) • [Common Problems](#) • [Product Specific Problems](#)

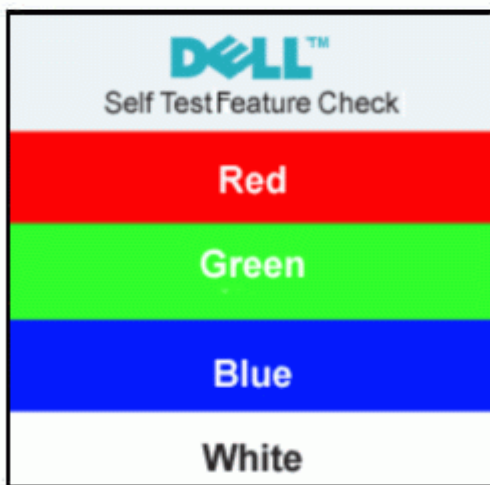
Monitor Specific Troubleshooting

Self-Test Feature Check (STFC)

Your monitor provides a self-test feature that allows you to check if your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove Analog (blue connector) cable from the back of computer.
3. Turn on the monitor.

The floating 'Dell - self-test Feature Check' dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains green and the self-test pattern will scroll through the screen continually.



4. This box also appears during normal system operation if the video cable becomes disconnected or damaged.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer system; your monitor is functioning properly.

OSD Warning Messages

A warning message may appear on the screen indicating that the monitor is out of sync range.

Cannot Display This Video Mode

This means that the monitor cannot synchronize with the signal that it is receiving from the computer. Either the signal is too high or too low for the monitor to use. See [Specifications](#) for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1280x1024 @ 60Hz.

Occasionally, no warning message appears, but the screen is blank. This could also indicate that the monitor is not synchronizing with the computer or the monitor is in a power save mode.

Common Problems

The following table contains general information about common monitor problems you might encounter.

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Video/ Power LED off	No picture, monitor is dead	<ul style="list-style-type: none"> • Check connection integrity at both ends of the video cable • Electric outlet verification • Ensure power button depressed fully
No Video/ Power LED on	No picture or no brightness	<ul style="list-style-type: none"> • Increase 'Brightness' & 'Contrast' controls • Perform monitor self-test feature check • Check for bent or broken pins on the D-sub cable.
Poor Focus	Picture is fuzzy, blurry or ghosting	<ul style="list-style-type: none"> • Push 'Auto adjust' button • Adjust 'Phase' and 'Clock' controls via OSD • Eliminate video extension cables • Perform monitor reset • Lower video resolution or increase font size
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> • Push 'Auto Adjust' button • Adjust 'Phase' and 'Clock' controls via OSD • Perform monitor reset • Check environmental factors • Relocate and test in other room
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> • Clean the LCD Screen, please refer to maintenance. • Cycle power on-off • These are pixels that are permanently off and is a natural defect that occurs in LCD technology
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> • Cycle power on-off • These are pixels that are permanently on and is a natural defect that occurs in LCD technology
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> • Perform monitor reset • Push 'Auto Adjust' button • Adjust 'Brightness' & 'Contrast' controls
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> • Perform monitor reset on "All Settings" • Push 'Auto-Adjust' button • Adjust the centering controls • Ensure monitor is in proper video mode, please refer to preset display modes.
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> • Perform monitor reset • Push 'Auto Adjust' button • Adjust 'Phase' and 'Clock' controls via OSD • Perform monitor self-test feature check and determine if these lines are also in self-test mode • Check for bent or broken pins on the D-sub cable.
Sync Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> • Perform monitor reset • Push 'Auto Adjust' button • Adjust 'Phase' and 'Clock' controls via OSD • Perform monitor self-test feature check to determine if scrambled screen appears in self-test mode • Check for bent or broken pins on the D-sub cable. • Boot up in the 'Safe mode'

LCD Scratched	Screen has scratches or smudges	<ul style="list-style-type: none"> • Turn monitor off and clean the screen • For cleaning instruction, see maintenance.
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> • Do not perform any troubleshooting steps • Monitor needs to be replaced
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> • Ensure monitor is in proper video mode • Ensure video cable connection to computer and to the flat panel is secure • Perform monitor reset • Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode

Product Specific Problems

SPECIFIC SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	<ul style="list-style-type: none"> • Perform monitor reset on "All Settings"
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"> • Turn the monitor off and unplug the power cord and then plug back and power on

[Back to Contents Page](#)

Specifications: Dell™ E173FP Flat Panel Color Monitor User's Guide

[General](#) • [Flat Panel](#) • [Resolution](#) • [Preset Display Modes](#) • [Electrical](#) • [Physical Characteristics](#) • [Environmental](#) • [Power Management Modes](#) • [Pin Assignments](#) • [Plug and Play Capability](#)

General

Model number	E173FP
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Flat Panel

Screen type	Active matrix - TFT LCD
Screen dimensions	Diagonal 17 inches (432.0 mm) Horizontal 13.3 inches (337.9 mm) Vertical 10.6 inches (270.3 mm)
Pixel pitch	0.264 x 0.264 mm
Viewing angle	120° (vertical) typical, 140° (horizontal) typical
Luminance output	250 cd/m ² typical
Contrast ratio	450 : 1 typical
LCD surface coating	Hardness 3H, antiglare treatment
Backlight	4 CCFL type
Response time	16ms

Resolution

Horizontal scan range	31 kHz to 80 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)
Optimal preset resolution	1280 x 1024 at 60 Hz
Highest preset resolution	1280 x 1024 at 75 Hz

Dell guarantees image size and centering for all preset modes listed in the following table.

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal / Vertical)
DOS 720 x 400	31.5	70.1	28.3	-/+
VGA 640 x 480	31.5	60.0	25.18	-/-
VESA 640 x 480	37.5	75.0	31.5	-/-
VESA 800 x 600	37.9	60.3	40.0	+/+
VESA 800 x 600	46.9	75.0	49.5	+/+
VESA 1024 x 768	48.4	60.0	65.0	-/-
VESA 1024 x 768	60.0	75.0	78.8	+/+
VESA 1152 x 864	67.5	75.0	108.0	+/+
VESA 1280 x 1024	64.0	60.0	108.0	+/+
VESA 1280 x 1024	80.0	75.0	135.0	+/+

Electrical

Video input signals	Analog RGB, 0.7 Volts +/-5%, 75 ohm input impedance
Synchronization input signals	separate horizontal and vertical; 3.3V Cmos or 5V TTL level, positive or negative sync.
AC input voltage / frequency / current	100 ~240 VAC/ 50 ~ 60 Hz 2A (RMS) max
Inrush current at 110 V	30 A max
Inrush current at 220 V	60 A max

Physical Characteristics

Connector type	15-pin D-subminiature, blue connector
Signal cable type	Detachable, D-sub, 15pin, attached to the monitor
Dimensions: (with stand)	
Height	15.9inches (402.9mm)
Width	14.9inches (378.5mm)
Depth	5.55inches (141mm)
Dimensions: (without stand)	
Height	12.7 inches (322.8 mm)
Width	14.9 inches (378.5 mm)
Depth	2.66 inches (67.7 mm)
Stand dimensions:	
Height	11.81 inches (300 mm)
Width	10.6 inches (270 mm)
Depth	5.55 inches (141 mm)
Weight with packaging	14.7 lb (6.5 kg) max
Weight with stand assembly and video cable	11.74 lb (5.3 kg) max
Weight without stand assembly (For wall mount or VESA mount considerations)	8.9 lb (4.05 kg) max
Weight of stand assembly	approx 2.5 lb (1.13 kg)

Environmental

Temperature:

Operating	41° to 95°F (5° to 35 °C)
Nonoperating	-4° to 140°F (-20° to 60°C)

Humidity:

Operating	10% to 80% (noncondensing)
Nonoperating	5% to 90% (noncondensing)

Altitude:

Operating	3,658 m (12,000 ft)
Nonoperating	12,192 m (40,000 ft)

Thermal dissipation	137 BTU/hour max 116 BTU/hour typical
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Power Management Modes

If you have VESA's DPMS compliant display card or software installed in your PC, the display can automatically reduce its power consumption when not in use. If input from keyboard, mouse or other input devices is detected, the display will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving	LED color
ON	Active	Yes	Yes	<=35W	0%	Green
Power Saving	Blanked	No	No	<=2W	99%	Amber
Switch Off*	Blanked	--	--	<=1W	99%	off

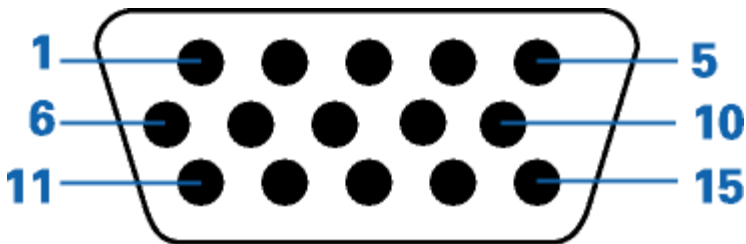


This display is ENERGY STAR® -compliant .

ENERGY STAR® is a U.S. registered mark. As an ENERGY STAR® Partner, DELL has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Pin Assignments

15-pin D-sub connector



Pin Number	15-Pin Side of the Signal Cable
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1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	PC5V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

Plug and Play Capability

You can install the display in any Plug and Play-compatible system. The display automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the display settings. If desired, the user can select different settings, but in most cases display installation is automatic.

[Back to Contents Page](#)

Appendix: Dell™ E173FP Flat Panel Color Monitor User's Guide

- [Warranty](#)
- [Safety Information](#)
- [Contacting Dell](#)
- [Regulatory Notices](#)
- [Recycling](#)
- [Your Monitor Set-up Guide](#)

Warranty

U.S. Terms and Conditions of Sale

These terms and conditions ("Agreement") apply to your purchase of computer systems and/or related products and/or services and support sold in the United States ("Product") by the Dell entity named on the invoice or acknowledgement ("Dell") provided to you. By accepting delivery of the Product, you accept and are bound to the terms and conditions of this Agreement. If you do not wish to be bound by this Agreement, you must notify Dell immediately and return your purchase pursuant to Dell's Total Satisfaction Return Policy.

(See: <http://support.dell.com/ContactUs/ByPhone.aspx?c=us&l=en&s=gen> for our contact information.) If returned, Product(s) must remain in the boxes in which they were shipped. THIS AGREEMENT SHALL APPLY UNLESS (I) YOU HAVE A SEPARATE PURCHASE AGREEMENT WITH DELL, IN WHICH CASE THE SEPARATE AGREEMENT SHALL GOVERN; OR (II) OTHER DELL TERMS AND CONDITIONS APPLY TO THE TRANSACTION.

1. Other Documents.

This Agreement may NOT be altered, supplemented, or amended by the use of any other document(s) unless otherwise agreed to in a written agreement signed by both you and Dell. If you do not receive an invoice or acknowledgement in the mail, via e-mail, or with your Product, information about your purchase may be obtained at <http://support.dell.com/dellcare/Invoice.aspx> or by contacting your sales representative.

2. Payment Terms; Orders; Quotes; Interest.

Payment terms are within Dell's sole discretion, and, unless otherwise agreed to by Dell, payment must be made at the time of purchase. Payment for Product may be made by credit card, wire transfer, or some other prearranged payment method. Dell may invoice parts of an order separately. Your order is subject to cancellation by Dell, at Dell's sole discretion. Unless you and Dell have agreed to a different discount, Dell's standard pricing policy for Dell™-branded systems, which include both hardware and services in one discounted price, allocates the discount off list price applicable to the service portion of the system to be equal to the overall calculated percentage discount off list price on the entire system. Dell is not responsible for pricing, typographical, or other errors, in any offer by Dell and reserves the right to cancel any orders resulting from such errors.

3. Shipping Charges; Taxes; Title; Risk of Loss.

Shipping and handling are additional unless otherwise expressly indicated at the time of sale. Loss or damage that occurs during shipping by a carrier selected by Dell is Dell's responsibility. Loss or damage that occurs during shipping by a carrier selected by you is your responsibility. You must notify Dell within 30 days of the date of your invoice or acknowledgement if you believe any part of your purchase is missing, wrong or damaged. Unless you provide Dell with a valid and correct tax exemption certificate applicable to your purchase of Product and the Product ship-to location, you are responsible for sales and other taxes associated with the order. Shipping dates are estimates only. Title to software will remain with the applicable licensor(s).

4. Warranties.

THE LIMITED WARRANTIES APPLICABLE TO DELL-BRANDED HARDWARE PRODUCT CAN BE FOUND AT <http://www.dell.com/policy/legal/warranty.htm> OR IN THE DOCUMENTATION DELL PROVIDES WITH THE PRODUCT. DELL MAKES NO WARRANTIES FOR SERVICE, SOFTWARE, OR NON-DELL BRANDED PRODUCT. SUCH PRODUCT IS PROVIDED BY DELL "AS IS." WARRANTY AND SERVICE FOR NON-DELL BRANDED PRODUCT, IF ANY, IS PROVIDED BY THE ORIGINAL MANUFACTURER, NOT BY DELL. DELL MAKES NO EXPRESS WARRANTIES EXCEPT THOSE STATED IN DELL'S APPLICABLE WARRANTY STATEMENT IN EFFECT ON THE DATE OF THE INVOICE, PACKING SLIP OR ACKNOWLEDGEMENT. WARRANTIES AND SERVICE WILL BE EFFECTIVE, AND DELL WILL BE OBLIGATED TO HONOR ANY SUCH WARRANTIES AND SERVICES, ONLY UPON DELL'S RECEIPT OF PAYMENT IN FULL FOR THE ITEM TO BE WARRANTED OR SERVICED.

5. Software.

All software is provided subject to the license agreement that is part of the software package and you agree that you will be bound by such license agreement.

6. Return Policies; Exchanges.

New and refurbished Product that you purchase directly from Dell (and not a third party) you may return or exchange only in accordance with Dell's return policy in effect on the date of the invoice or acknowledgement. Any returns or exchanges will be made in accordance with Dell's exchange policies in effect on the date of the return or exchange. You must contact us directly before you attempt to return Product to obtain a Return Material Authorization Number for you to include with your return. You must return Product to us in their original or equivalent packaging. You are responsible for risk of loss, shipping and handling fees for returning or exchanging Product. Additional fees may apply. Dell's return policy for Dell-branded Product can be found at: <http://www.dell.com/policy/legal/warranty.htm>. Non-Dell branded software and peripheral return policies can be found at: http://rcommerce.us.dell.com/rcomm/include/dw_policies.htm.

Refurbished Product return policies can be found at: http://www.dell.com/us/en/dfh/topics/segtopic_nav_info_002_info.htm. If you fail to follow the return or exchange instructions and policies provided by Dell, Dell is not responsible whatsoever for Product that is lost, damaged, modified or otherwise processed for disposal or resale. If you are returning all components in an order, you will be credited the full amount paid for the order. At Dell's discretion, credit for partial returns may be less than invoice or individual component prices due to bundled or promotional pricing.

7. Changed or Discontinued Product.

Dell's policy is one of ongoing update and revision. Dell may revise and discontinue Product at any time without notice to you and this may affect information saved in your online "cart." Dell will ship Product that has the functionality and performance of the Product ordered, but changes between what is shipped and what is described in a specification sheet or catalog are possible. Parts used in repairing or servicing Product may be new, equivalent-to-new, or reconditioned.

8. Service and Support.

Service offerings may vary from Product to Product. If you purchase optional services and support from Dell, Dell and/or your third-party service provider will provide such service and support to you in the United States in accordance with the terms and conditions located at http://www.dell.com/us/en/gen/services/service_service_contracts.htm or as mailed to you. You may contact Dell for more information, see <http://www1.us.dell.com/content/topics/segtopic.aspx/contact/contact?c=us&l=en&s=gen> for contact information. Dell and/or the third-party service provider may at their discretion, revise their general and optional service and support programs and the terms and conditions that govern them without prior notice to you. Dell has no obligation to provide service or support until Dell has received full payment for the Product or service/support contract you purchased. Dell is not obligated to provide service or support you purchase through a third party and not Dell.

9. Limitation of Liability.

DELL DOES NOT ACCEPT LIABILITY BEYOND THE REMEDIES SET FORTH HEREIN, INCLUDING BUT NOT LIMITED TO ANY LIABILITY FOR PRODUCT NOT BEING AVAILABLE FOR USE, LOST PROFITS, LOSS OF BUSINESS OR FOR LOST OR CORRUPTED DATA OR SOFTWARE, OR THE PROVISION OF SERVICES AND SUPPORT. EXCEPT AS EXPRESSLY PROVIDED HEREIN, DELL WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY THIRD PARTY. YOU AGREE THAT FOR ANY LIABILITY RELATED TO THE PURCHASE OF PRODUCT, DELL IS NOT LIABLE OR RESPONSIBLE FOR ANY AMOUNT OF DAMAGES ABOVE THE AMOUNT INVOICED FOR THE APPLICABLE PRODUCT. NOTWITHSTANDING ANYTHING IN THIS AGREEMENT TO THE CONTRARY, THE REMEDIES SET FORTH IN THIS AGREEMENT SHALL APPLY EVEN IF SUCH REMEDIES FAIL THEIR ESSENTIAL PURPOSE. **DELL IS NOT LIABLE TO YOU FOR WARRANTIES, SUPPORT, OR SERVICE MADE BY OR PURCHASED FROM A THIRD PARTY AND NOT DIRECTLY FROM DELL. DELL IS NOT RESPONSIBLE FOR REPRESENTATIONS OR OMISSIONS MADE BY A THIRD PARTY.**

10. Applicable Law; Not For Resale or Export.

You agree to comply with all applicable laws and regulations of the various states and of the United States. You agree and represent that you are buying only for your own internal use only, and not for resale or export. Dell has separate terms and conditions governing resale of Product by third parties and transactions outside the United States. Terms and conditions for resale are located at: <http://www.dell.com/policy/legal/termsofsale.htm>.

11. Governing Law.

THIS AGREEMENT AND ANY SALES THERE UNDER SHALL BE GOVERNED BY THE LAWS OF THE STATE OF TEXAS, WITHOUT REGARD TO CONFLICTS OF LAWS RULES.

12. Headings.

The section headings used herein are for convenience of reference only and do not form a part of these terms and conditions, and no construction or inference shall be derived there from.

13. Binding Arbitration.

ANY CLAIM, DISPUTE, OR CONTROVERSY (WHETHER IN CONTRACT, TORT, OR OTHERWISE, WHETHER PREEXISTING, PRESENT OR FUTURE, AND INCLUDING STATUTORY, COMMON LAW, INTENTIONAL TORT AND EQUITABLE CLAIMS) BETWEEN CUSTOMER AND DELL, its agents, employees, principals, successors, assigns, affiliates (collectively for purposes of this paragraph, "Dell") arising from or relating to this Agreement, its interpretation, or the breach, termination or validity thereof, the relationships which result from this Agreement (including, to the full extent permitted by applicable law, relationships with third parties who are not signatories to this Agreement), Dell's advertising, or any related purchase SHALL BE RESOLVED EXCLUSIVELY AND FINALLY BY BINDING ARBITRATION ADMINISTERED BY THE NATIONAL ARBITRATION FORUM (NAF) under its Code of Procedure then in effect (available via the Internet at <http://www.arb-forum.com>, or via telephone at 1-800-474-2371). The arbitration will be limited solely to the dispute or controversy between customer and Dell. NEITHER CUSTOMER NOR DELL SHALL BE ENTITLED TO JOIN OR CONSOLIDATE CLAIMS BY OR AGAINST OTHER CUSTOMERS, OR ARBITRATE ANY CLAIM AS A REPRESENTATIVE OR CLASS ACTION OR IN A PRIVATE ATTORNEY GENERAL CAPACITY. This transaction involves interstate commerce, and this provision shall be governed by the Federal Arbitration Act 9 U.S.C. sec. 1-16 (FAA). Any award of the arbitrator(s) shall be final and binding on each of the parties, and may be entered as a judgment in any court of competent jurisdiction. Dell will be responsible for paying any arbitration filing fees and fees required to obtain a hearing to the extent such fees exceed the amount of the filing fee for initiating a claim in the court of general jurisdiction in the state in which you reside. Each party shall pay for its own costs and attorneys' fees, if any. However, if any party prevails on a statutory claim that affords the prevailing party attorneys' fees, or if there is a written agreement providing for fees, the Arbitrator may award reasonable fees to the prevailing party, under the standards for fee shifting provided by law. Information may be obtained and claims may be filed with the NAF at P.O. Box 50191, Minneapolis, MN 55405. (REV 4/04)

Limited Warranty for Dell-Branded Hardware Products (U.S. Only)

Dell-branded hardware products purchased in the U.S. come with either a 90-day, 1-year, 2-year, 3-year, or 4-year limited warranty depending on the product purchased. To determine which warranty came with your hardware product(s), see your packing slip or invoice.

What is covered by this limited warranty?

This limited warranty covers defects in materials and workmanship in your—our end-user customer's—Dell-branded hardware products, including Dell-branded peripheral products.

What is not covered by this limited warranty?

This limited warranty does not cover:

- Software, including the operating system and software added to the Dell-branded hardware products through our factory-integration system, third-party software, or the reloading of software
- Non-Dell-branded and Solution Provider Direct products and accessories
- Problems that result from:
 - External causes such as accident, abuse, misuse, or problems with electrical power
 - Servicing not authorized by Dell
 - Usage that is not in accordance with product instructions
 - Failure to follow the product instructions or failure to perform preventive maintenance
 - Problems caused by using accessories, parts, or components not supplied by Dell

- Products with missing or altered Service Tags or serial numbers
- Products for which Dell has not received payment

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE (OR JURISDICTION TO JURISDICTION). DELL'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN HARDWARE IS LIMITED TO REPAIR AND REPLACEMENT AS SET FORTH IN THIS WARRANTY STATEMENT. ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE TERM OF THE LIMITED WARRANTY PERIOD REFLECTED ON YOUR PACKING SLIP OR INVOICE. NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY PERIOD HAS EXPIRED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THIS LIMITATION MAY NOT APPLY TO YOU.

WE DO NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED FOR IN THIS LIMITED WARRANTY OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LIABILITY FOR THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES, FOR PRODUCTS NOT BEING AVAILABLE FOR USE, OR FOR LOST DATA OR LOST SOFTWARE. OUR LIABILITY WILL BE NO MORE THAN THE AMOUNT YOU PAID FOR THE PRODUCT THAT IS THE SUBJECT OF A CLAIM. THIS IS THE MAXIMUM AMOUNT FOR WHICH WE ARE RESPONSIBLE.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

How long does this limited warranty last?

This limited warranty lasts for the time period indicated on your packing slip or invoice, except for the following Dell-branded hardware:

- Portable computer batteries carry a 1-year limited warranty.
- Projector lamps carry a 90-day limited warranty.
- Memory carries a lifetime limited warranty.
- Monitors carry the longer of either a 3-year limited warranty or the remainder of the warranty for the Dell™ computer to which the monitor will be connected.
- PDAs, MP3 players, earphones, remote inline controls, and AC adapters carry a 1-year limited warranty.
- Other add-on hardware carries the longer of either a 1-year limited warranty for new parts and a 90-day limited warranty for reconditioned parts or, for both new and reconditioned parts, the remainder of the warranty for the Dell computer on which such parts are installed.

The limited warranty on all Dell-branded products begins on the date of the packing slip or invoice. The warranty period is not extended if we repair or replace a warranted product or any parts. Dell may change the availability of limited warranties, at its discretion, but any changes will not be retroactive.

What do I do if I need warranty service?

Before the warranty expires, please call us at the relevant number listed in the following table. Please also have your Dell Service Tag or order number available.

Web Support	support.dell.com/ContactUs/ContactUsHome.aspx?c=us&l=en&s=gen
Individual Home Consumers:	U.S. Only
Technical Support	1-800-624-9896
Customer Service	1-800-624-9897
Individual Home Consumers who purchased through an Employee Purchase Program:	
Technical Support and Customer Service	1-800-822-8965
Home and Small Business Commercial Customers:	
Technical Support and Customer Service	1-800-456-3355
Medium, Large, or Global Commercial Customers, Healthcare Customers, and Value-Added Resellers (VARs):	
Technical Support and Customer Service	1-800-822-8965
Government and Education Customers:	
Technical Support and Customer Service	1-800-234-1490
Dell-Branded Memory	1-888-363-5150

What will Dell do?

During the 90 days of the 90-day limited warranty and the first year of all other limited warranties: During the 90 days of the 90-day limited warranty and the first year of all other limited warranties, we will repair any Dell-branded hardware products returned to us that prove to be defective in materials or workmanship. If we are not able to repair the product, we will replace it with a comparable product that is new or refurbished.

When you contact us, we will issue a Return Material Authorization Number for you to include with your return. You must return the products to us in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk if the product is lost or damaged in shipment. We will return the repaired or replacement products to you. We will pay to ship the repaired or replaced products to you if you use an address in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, we will ship the product to you freight collect.

If we determine that the product is not covered under this warranty, we will notify you and inform you of service alternatives that are available to you on a fee basis.



NOTE: Before you ship the product(s) to us, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). Remove any confidential, proprietary, or personal information and removable media such as floppy disks, CDs, or PC Cards. We are not responsible for

any of your confidential, proprietary, or personal information; lost or corrupted data; or damaged or lost removable media.

During the remaining years: For the remaining period of the limited warranty, we will replace any defective part with new or refurbished parts, if we agree that it needs to be replaced. When you contact us, we will require a valid credit card number at the time you request a replacement part, but we will not charge you for the replacement part as long as you return the original part to us within 30 days after we ship the replacement part to you. If we do not receive the original part within 30 days, we will charge to your credit card the then-current standard price for that part.

We will pay to ship the part to you if you use an address in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, we will ship the part freight collect. We will also include a prepaid shipping container with each replacement part for your use in returning the replaced part to us.

 **NOTE:** Before you replace parts, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). We are not responsible for lost or corrupted data.

What if I purchased a service contract?

If your service contract is with Dell, service will be provided to you under the terms of the service agreement. Please refer to that contract for details on how to obtain service.

If you purchased through us a service contract with one of our third-party service providers, please refer to that contract for details on how to obtain service.

How will you fix my product?

We use new and refurbished parts made by various manufacturers in performing warranty repairs and in building replacement parts and systems. Refurbished parts and systems are parts or systems that have been returned to Dell, some of which were never used by a customer. All parts and systems are inspected and tested for quality. Replacement parts and systems are covered for the remaining period of the limited warranty for the product you bought. Dell owns all parts removed from repaired products.

May I transfer the limited warranty?

Limited warranties on systems may be transferred if the current owner transfers ownership of the system and records the transfer with us. The limited warranty on Dell-branded memory may not be transferred. You may record your transfer by going to Dell's website:

- If you are an Individual Home Consumer, go to www.dell.com/us/en/dhs/topics/sbtopic_015_ccare.htm
- If you are a Home Office, Small, Medium, Large, or Global Commercial Customer, go to www.dell.com/us/en/biz/topics/sbtopic_ccare_nav_015_ccare.htm
- If you are a Government, Education, or Healthcare Customer, or an Individual Home Consumer who purchased through an Employee Purchase Program, go to www.dell.com/us/en/pub/topics/sbtopic_015_ccare.htm

If you do not have Internet access, call your customer care representative or call 1-800-624-9897.

All requests to transfer ownership are at Dell's sole discretion. All such transfers will be subject to the terms and conditions of the original service or limited warranty agreement and Dell's terms and conditions of sale located at www.dell.com. Dell cannot guarantee the authenticity of the products, limited warranties, service or support, or the accuracy of the listings of products you purchase from a third party.

Total Satisfaction Return Policy (U.S. Only)

We value our relationship with you and want to make sure that you are satisfied with your purchases. That is why we offer a Total Satisfaction return policy for most products that you, the end-user customer, purchase directly from Dell. Under this policy, you may return to Dell products that you purchased directly from Dell for a credit or a refund of the purchase price paid, less shipping and handling and applicable return fees as follows:

New Hardware Products and Accessories — Unless you have a separate agreement with Dell, all hardware, accessories, peripherals, parts, and unopened software still in its/their sealed package, excluding the products listed below, may be returned within twenty-one (21) days from the date on the packing slip or invoice.

Exclusions from the foregoing return policy:

- New Dell PowerEdge™, Dell PowerConnect™, and Dell PowerVault™ products (excluding PowerVault 160T tape libraries) may be returned within thirty (30) days from the date on the packing slip or invoice, except that new PowerEdge **SC** servers and n series products purchased from the Small and Medium Business Sales Division may only be returned within fourteen (14) days from the date on the packing slip or invoice.
- Application software or an operating system that has been installed by Dell may not be returned unless you return the entire computer under the 21-day return policy, if applicable to your purchase (if not applicable to your purchase, you may not return application software or an operating system).
- Nondefective third-party and Dell-branded software, peripheral, electronics and accessory products (for example: televisions, printers, projectors, MP3 players, PDAs, battery chargers, un-preinstalled third-party software, wireless cards/access points/routers), including but not limited to those sold by or through Dell's "Software & Peripherals" or "Electronics & Accessories" groups, may be returned within twenty-one (21) days from the date on the packing slip or invoice, but a fifteen percent (15%) return fee may be deducted from any refund or credit.
- Dell | EMC storage products, EMC-branded products, Unisys-branded products, PowerVault 160T tape libraries, enterprise software, non-Dell-branded enterprise products, software and/or software licenses, or any non-Dell-customized hardware and/or software product(s) may not be returned at any time.

Reconditioned or Refurbished Dell-Branded Hardware Products and Parts — All reconditioned or refurbished PowerEdge, PowerConnect, and PowerVault products may be returned within thirty (30) days from the date on the packing slip or invoice. All other reconditioned or refurbished Dell-branded hardware products and parts may be returned within fourteen (14) days of the date on the packing slip or invoice.

How to Return — To return products, e-mail or call Dell customer service to receive a Credit Return Authorization Number within the return policy period applicable to the product you want to return. You must obtain a Credit Return Authorization Number in order to return the product. See "Contacting Dell" or "Getting Help" in your customer documentation (or go to www.dell.com/us/en/gen/contact.htm) to find the appropriate contact information for obtaining customer assistance.

You must ship the products to Dell within five (5) days of the date that Dell issues the Credit Return Authorization Number. You must also return the products to Dell in their original packaging, in as-new condition along with any media, documentation, and all other items that were included in the original shipment, prepay shipping charges, and insure the shipment or accept the risk of loss or damage during shipment.

 **NOTE:** Before you ship the product(s) to us, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). Remove any confidential, proprietary, or personal information and removable media such as floppy disks, CDs, or PC Cards. We are not responsible for

Limited Warranty Terms for Dell-Branded Hardware Products (Canada Only)

Dell-branded hardware products purchased in Canada come with either a 90-day, 1-year, 2-year, 3-year, or 4-year limited warranty depending on the product purchased. To determine which warranty came with your hardware product(s), see your packing slip or invoice.

What is covered by this limited warranty?

This limited warranty covers defects in materials and workmanship in your—our end-user customer's—Dell-branded hardware products, including Dell-branded peripheral products.

What is not covered by this limited warranty?

This limited warranty does not cover:

- Software, including the operating system and software added to the Dell-branded hardware products through our factory-integration system, or the reloading of the software
- Non-Dell-branded and Solution Provider Direct products and accessories
- Problems that result from:
 - External causes such as accident, abuse, misuse, or problems with electrical power
 - Servicing not authorized by Dell
 - Usage that is not in accordance with product instructions
 - Failure to follow the product instructions or failure to perform preventive maintenance
 - Problems caused by using accessories, parts, or components not supplied by Dell
- Products with missing or altered Service Tags or serial numbers
- Products for which Dell has not received payment

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM PROVINCE TO PROVINCE. DELL'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN PRODUCT IS LIMITED TO REPAIR AND REPLACEMENT AS SET FORTH IN THIS WARRANTY STATEMENT, FOR THE TERM OF THE WARRANTY PERIOD REFLECTED ON YOUR PACKING SLIP OR INVOICE. EXCEPT FOR THE EXPRESS WARRANTIES CONTAINED IN THIS WARRANTY STATEMENT, DELL DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. SOME PROVINCES DO NOT ALLOW THE EXCLUSION OF CERTAIN IMPLIED WARRANTIES OR CONDITIONS, OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS. THEREFORE, THE FOREGOING EXCLUSIONS AND LIMITATIONS MAY NOT APPLY TO YOU.

WE DO NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED FOR IN THIS WARRANTY STATEMENT OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LIABILITY FOR THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES, FOR PRODUCTS NOT BEING AVAILABLE FOR USE, OR FOR LOST DATA OR LOST SOFTWARE. OUR LIABILITY WILL BE NO MORE THAN THE AMOUNT YOU PAID FOR THE PRODUCT THAT IS THE SUBJECT OF A CLAIM. THIS IS THE MAXIMUM AMOUNT FOR WHICH WE ARE RESPONSIBLE.

SOME PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

How long does this limited warranty last?

This limited warranty lasts for the time period indicated on your packing slip or invoice, except that the limited warranty on Dell-branded batteries lasts only 1 year and the limited warranty on the lamps for Dell-branded projectors lasts only 90 days. The limited warranty begins on the date of the packing slip or invoice. The warranty period is not extended if we repair or replace a warranted product or any parts. Dell may change the terms and availability of limited warranties, at its discretion, but any changes will not be retroactive (that is, the warranty terms in place at the time of purchase will apply to your purchase).

What do I do if I need warranty service?

Before the warranty expires, please call us at the relevant number listed in the following table. Please also have your Dell Service Tag or order number available.

Web Support	support.dell.com/ContactUs/ContactUsHome.aspx?c=us&l=en&s=gen
Individual Home Consumers; Home Office and Small Business Customers:	Canada Only
Technical Support and Customer Service	1-800-847-4096
Medium, Large, and Global Commercial Customers; Government, Education, and Healthcare Customers; and Value-Added Resellers (VARs):	
Technical Support	1-800-387-5757
Customer Service	1-800-326-9463
Government or Education Customers, or Individual Home Consumers who purchased through an Employee Purchase Program:	
Technical Support	1-800-387-5757
Customer Service	1-800-326-9463 (Extension 8221 for Individual Consumers)

What will Dell do?

During the 90 days of the 90-day limited warranty and the first year of all other limited warranties: During the 90 days of the 90-day limited warranty and the first year of all other limited warranties, we will repair any Dell-branded hardware products returned to us that prove to be defective in materials or workmanship. If we are not able to repair the product, we will replace it with a comparable product that is new or refurbished.

When you contact us, we will issue a Return Material Authorization Number for you to include with your return. You must return the products to us in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk if the product is lost or damaged in shipment. We will return the repaired or replacement products to you. We will pay to ship the repaired or replaced products to you if you use an address in Canada. Otherwise, we will ship the product to you freight collect.

If we determine that the problem is not covered under this warranty, we will notify you and inform you of service alternatives that are available to you on a fee basis.

NOTE: Before you ship the product(s) to us, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). Remove any confidential, proprietary, or personal information and removable media such as floppy disks, CDs, or PC Cards. We are not responsible for any of your confidential, proprietary, or personal information; lost or corrupted data; or damaged or lost removable media.

During the remaining years following the first year of all limited warranties: We will replace any defective part with new or refurbished parts, if we agree that it needs to be replaced. When you contact us, we will require a valid credit card number at the time you request a replacement part, but we will not charge you for the replacement part as long as you return the original part to us within 30 days after we ship the replacement part to you. If we do not receive the original part within 30 days, we will charge to your credit card the then-current standard price for that part.

We will pay to ship the part to you if you use an address in Canada. Otherwise, we will ship the part freight collect. We will also include a prepaid shipping container with each replacement part for your use in returning the replaced part to us.

NOTE: Before you replace parts, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). We are not responsible for lost or corrupted data.

What if I purchased a service contract?

If your service contract is with Dell, service will be provided to you under the terms of the service contract. Please refer to that contract for details on how to obtain service. Dell's service contracts can be found online at www.dell.ca or by calling Customer Care at 1-800-847-4096. If you purchased through us a service contract with one of our third-party service providers, please refer to that contract (mailed to you with your packing slip or invoice) for details on how to obtain service.

How will you fix my product?

We use new and refurbished parts made by various manufacturers in performing warranty repairs and in building replacement parts and systems. Refurbished parts and systems are parts or systems that have been returned to Dell, some of which were never used by a customer. All parts and systems are inspected and tested for quality. Replacement parts and systems are covered for the remaining period of the limited warranty for the product you bought. Dell owns all parts removed from repaired products.

May I transfer the limited warranty?

Limited warranties on systems may be transferred if the current owner transfers ownership of the system and records the transfer with us. The limited warranty on Dell-branded memory may not be transferred. You may record your transfer by going to Dell's website.

- For Canada-purchased computers (in-country transfers) and to transfer from one customer to another, go to www.dell.ca/ca/en/gen/topics/segtopic_ccare_nav_013_ccare.htm
- For out-of-country transfers (outside of the original country of purchase), go to www.dell.com/us/en/biz/topics/sbtopic_ccare_nav_016_ccare.htm

If you do not have Internet access, call Dell at 1-800-847-4096 (Home Consumer customers) or 1-800-326-9463 (Corporate Commercial or Government customers).

All requests to transfer ownership are at Dell's sole discretion. All such transfers will be subject to the terms and conditions of the original service or limited warranty agreement and Dell's terms and conditions of sale located at www.dell.com. Dell cannot guarantee the authenticity of the products, limited warranties, service or support, or the accuracy of the listings of products you purchase from a third party.

Total Satisfaction Return Policy (Canada Only)

If you are an end-user customer who bought new products directly from Dell, you may return them to Dell up to 30 days after you receive them for a refund or credit of the product purchase price. If you are an end-user customer who bought reconditioned or refurbished products from Dell, you may return them to Dell within 14 days after the date on the packing slip or invoice for a refund or credit of the product purchase price. In either case, the refund or credit will not include any shipping and handling charges shown on your packing slip or invoice and will be subject to a fifteen percent (15%) restocking fee, unless otherwise prohibited by law. If you are an organization that bought the products under a written agreement with Dell, the agreement may contain different terms for the return of products than specified by this policy.

To return products, you must call Dell Customer Service at 1-800-847-4096 to receive a Credit Return Authorization Number. To expedite the process of your refund or credit, Dell expects you to return the products to Dell in their original packaging within 5 days of the date that Dell issues the Credit Return Authorization Number. You must also prepay shipping charges and insure the shipment or accept the risk of loss or damage during shipment. You may return software for a refund or credit only if the sealed package containing the diskette(s) or CD(s) is unopened. Returned products must be in as-new condition, and all of the manuals, diskette(s), CD(s), power cables, and other items included with a product must be returned with it. For customers who want to return, for refund or credit only, either application or operating system software that has been installed by Dell, the whole system must be returned, along with any media and documentation that may have been included in the original shipment.

The "Total Satisfaction" Return Policy does not apply to Dell | EMC storage products. It also does not apply to products purchased through Dell's Software and Peripherals division. For those products, please instead refer to Dell's Software and Peripheral's then-current return policy (see the following section, "Dell Software and Peripherals [Canada Only]").

Dell™ Software and Peripherals (Canada Only)

Third-Party Software and Peripherals Products

Similar to other resellers of software and peripherals, Dell does not warrant third-party products. Third-party software and peripheral products are covered by the warranties provided by the original manufacturer or publisher only. Third-party manufacturer warranties vary from product to product. Consult your product documentation for specific warranty information. More information may also be available from the manufacturer or publisher.

While Dell offers a wide selection of software and peripheral products, we do not specifically test or guarantee that all of the products we offer work with any or all of the various models of Dell computers, nor do we test or guarantee all of the products we sell on the hundreds of different brands of computers available today. If you have questions about compatibility, we recommend and encourage you to contact the third-party software and peripheral product manufacturer or publisher directly.

Dell-Branded Peripheral Products

Dell does provide a limited warranty for new Dell-branded peripheral products (products for which Dell is listed as the manufacturer) such as monitors, batteries, memory, docking stations, and projectors. To determine which limited warranty applies to the product you purchased, see the Dell packing slip or invoice and/or the product documentation that accompanied your product. Descriptions of Dell's limited warranties are described in preceding sections.

1-Year End-User Manufacturer Guarantee (Latin America and the Caribbean Only)

Guarantee

Dell Inc. ("Dell") warrants to the end user in accordance with the following provisions that its branded hardware products, purchased by the end user from a Dell company or an authorized Dell distributor in Latin America or the Caribbean, will be free from defects in materials, workmanship, and design affecting normal use, for a period of 1 year from the original purchase date. Products for which proper claims are made will, at Dell's option, be repaired or replaced at Dell's expense. Dell owns all parts removed from repaired products. Dell uses new and reconditioned parts made by various manufacturers in performing repairs and building replacement products.

Exclusions

This Guarantee does not apply to defects resulting from: improper or inadequate installation, use, or maintenance; actions or modifications by unauthorized third parties or the end user; accidental or willful damage; or normal wear and tear.

Making a Claim

Claims must be made in Latin America or the Caribbean by contacting the Dell point of sale within the guarantee period. The end user must always supply proof of purchase, indicating name and address of the seller, date of purchase, model and serial number, name and address of the customer, and details of symptoms and configuration at the time of malfunction, including peripherals and software used. Otherwise, Dell may refuse the guarantee claim. Upon diagnosis of a warranted defect, Dell will make arrangements and pay for ground freight and insurance to and from Dell's repair/replacement center. The end user must ensure that the defective product is available for collection properly packed in original or equally protective packaging together with the details listed above and the return number provided to the end user by Dell.

Limitation and Statutory Rights

Dell makes no other warranty, guarantee or like statement other than as explicitly stated above, and this Guarantee is given in place of all other guarantees whatsoever, to the fullest extent permitted by law. In the absence of applicable legislation, this Guarantee will be the end user's sole and exclusive remedy against Dell or any of its affiliates, and neither Dell nor any of its affiliates shall be liable for loss of profit or contracts, or any other indirect or consequential loss arising from negligence, breach of contract, or howsoever.

This Guarantee does not impair or affect mandatory statutory rights of the end user against and/or any rights resulting from other contracts concluded by the end user with Dell and/or any other seller.

Dell World Trade LP
One Dell Way, Round Rock, TX 78682, USA


Dell Computadores do Brasil Ltda (CNPJ No. 72.381.189/0001-10)
Avenida Industrial Belgraf, 400
92990-000 - Eldorado do Sul – RS - Brasil

Dell Computer de Chile Ltda
Coyancura 2283, Piso 3- Of.302,
Providencia, Santiago - Chile

Dell Computer de Colombia Corporation
Carrera 7 #115-33 Oficina 603
Bogota, Colombia

Dell Computer de Mexico SA de CV
Paseo de la Reforma 2620 - 11° Piso
Col. Lomas Altas
11950 México, D.F.

Safety Information

 **CAUTION: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.**

Read and follow these instructions when connecting and using your computer monitor:

- To help avoid damaging your computer, be sure that the voltage selection switch on the power supply for the computer is set to match the alternating current (AC) power available at your location:
 - 115 volts (V)/60 hertz (Hz) in most of North and South America and some Far Eastern countries such as Japan, South Korea (also 220 volts (V)/60 hertz (Hz)), and Taiwan.
 - 230 volts (V)/50 hertz (Hz) in most of Europe, the Middle East, and the Far East.

Always be sure that your monitor is electrically rated to operate with the AC power available in your location.

 **NOTE:** This monitor does not need or have a voltage selection switch for setting the AC voltage input. It will automatically accept any AC input voltage according to the ranges defined in the "Electrical Specifications" section.


- Do not store or use the LCD monitor in locations that are exposed to heat, direct sunlight, or extreme cold.
- Avoid moving the LCD monitor between locations with large temperature differences.
- Do not subject the LCD monitor to severe vibration or high impact conditions. For example, do not place the LCD monitor inside a car trunk.
- Do not store or use the LCD monitor in locations exposed to high humidity or dusty environment.
- Do not allow water or other liquids to spill on or into the LCD monitor.
- Keep flat panel monitor in room temperature conditions. Excessive cold or hot conditions can have an adverse effect on the liquid crystal of the display.
- Never insert anything metallic into the monitor openings. Doing so may create the danger of electric shock.
- To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor case.
- Never use your monitor if the power cable has been damaged. Do not allow anything to rest on the power cable. Keep the power cable away from where people could trip over it.
- Be sure to grasp the plug, not the cable, when disconnecting the monitor from an electric socket.
- Openings in the monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Avoid using the monitor on a bed, sofa, rug, or other soft surface, as doing so may block the ventilation openings in the bottom of the cabinet. If you place the monitor in a bookcase or an enclosed space, be sure to provide adequate ventilation and air flow.
- Place your monitor in a location with low humidity and minimum dust. Avoid places similar to a damp basement or dusty hallway.
- Do not expose the monitor to rain or use it near water (in kitchens, next to swimming pools, etc.). If the monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the monitor with a damp cloth when necessary, being sure to unplug the monitor first.
- Place the monitor on a solid surface and treat it carefully. The screen is made of glass and can be damaged if dropped or hit sharply.
- Locate your monitor near an easily accessible electric outlet.
- If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Do not attempt to remove the back cover, as you will be exposed to an electrical shock hazard. The back cover should only be removed by qualified service personnel.
- High temperatures can cause problems. Don't use your monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- Unplug the monitor when it is going to be left unused for an extended period of time.
- Unplug your monitor from the electric outlet before any service is performed.
- Hg Lamp(s) inside this product contains mercury and must be recycled or disposed of according to local, state or federal laws. Or contact the electronic industries alliance: <http://www.eiae.org> for more information.

Contacting Dell

To contact Dell electronically, you can access the following websites:

- www.dell.com
- support.dell.com (technical support)
- premiersupport.dell.com (technical support for educational, government, healthcare, and medium/large business customers, including Premier, Platinum, and Gold customers)

For specific web addresses for your country, find the appropriate country section in the table below.

 **NOTE:** Toll-free numbers are for use within the country for which they are listed.

When you need to contact Dell, use the electronic addresses, telephone numbers, and codes provided in the following table. If you need assistance in determining which codes to use, contact a local or an international operator.

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Anguilla	General Support	toll-free: 800-335-0031
Antigua and Barbuda	General Support	1-800-805-5924
Argentina (Buenos Aires) International Access Code: 00 Country Code: 54 City Code: 11	Website: www.dell.com.ar	
	E-mail: us_latin_services@dell.com	
	E-mail for desktop and portable computers: la_techsupport@dell.com	
	E-mail for servers and EMC: la_enterprise@dell.com	
	Customer Care	toll-free: 0-800-444-0730
	Tech Support	toll-free: 0-800-444-0733
	Tech Support Services	toll-free: 0-800-444-0724
	Sales	0-810-444-3355
Aruba	General Support	toll-free: 800-1578
Australia (Sydney) International Access Code: 0011 Country Code: 61 City Code: 2	E-mail (Australia): au_tech_support@dell.com	
	E-mail (New Zealand): nz_tech_support@dell.com	
	Home and Small Business	1-300-655-5333
	Government and Business	toll-free: 1-800-633-559
	Preferred Accounts Division (PAD)	toll-free: 1-800-060-889
	Customer Care	toll-free: 1-800-819-339
	Technical Support (portables and desktops)	toll-free: 1-300-655-533

	Technical Support (servers and workstations)	toll-free: 1-800-733-314
	Corporate Sales	toll-free: 1-800-808-385
	Transaction Sales	toll-free: 1-800-808-312
	Fax	toll-free: 1-800-818-341
Austria (Vienna) International Access Code: 900 Country Code: 43 City Code: 1	Website: support.euro.dell.com	
	E-mail: tech_support_central_europe@dell.com	
	Home/Small Business Sales	0820 240 530 00
	Home/Small Business Fax	0820 240 530 49
	Home/Small Business Customer Care	0820 240 530 14
	Preferred Accounts/Corporate Customer Care	0820 240 530 16
	Home/Small Business Technical Support	0820 240 530 14
	Preferred Accounts/Corporate Technical Support	0660 8779
	Switchboard	0820 240 530 00
Bahamas	General Support	toll-free: 1-866-278-6818
Barbados	General Support	1-800-534-3066
Belgium (Brussels) International Access Code: 00 Country Code: 32 City Code: 2	Website: support.euro.dell.com	
	E-mail for French-speaking Customers: support.euro.dell.com/be/fr/emaildell/	
	Technical Support	02 481 92 88
	Technical Support Fax	02 481 92 95
	Customer Care	02 713 15 .65
	Corporate Sales	02 481 91 00
	Fax	02 481 92 99
	Switchboard	02 481 91 00
Bermuda	General Support	1-800-342-0671
Bolivia	General Support	toll-free: 800-10-0238
Brazil International Access Code: 00 Country Code: 55 City Code: 51	Website: www.dell.com/br	
	Customer Support, Technical Support	0800 90 3355
	Technical Support Fax	51 481 5470
	Customer Care Fax	51 481 5480
	Sales	0800 90 3390
British Virgin Islands	General Support	toll-free: 1-866-278-6820
Brunei Country Code: 673	Customer Technical Support (Penang, Malaysia)	604 633 4966
	Customer Service (Penang, Malaysia)	604 633 4949
	Transaction Sales (Penang, Malaysia)	604 633 4955
Canada (North York, Ontario) International Access Code: 011	Online Order Status: www.dell.ca/ostatus	
	AutoTech (automated technical support)	toll-free: 1-800-247-9362
	Customer Care (Home Sales/Small Business)	toll-free: 1-800-847-4096
	Customer Care (med./large business, government)	toll-free: 1-800-326-9463
	Technical Support (Home Sales/Small Business)	toll-free: 1-800-847-4096
	Technical Support (med./large bus., government)	toll-free: 1-800-387-5757
	Sales (Home Sales/Small Business)	toll-free: 1-800-387-5752
	Sales (med./large bus., government)	toll-free: 1-800-387-5755
	Spare Parts Sales & Extended Service Sales	1 866 440 3355
Cayman Islands	General Support	1-800-805-7541
Chile (Santiago) Country Code: 56 City Code: 2	Sales, Customer Support, and Technical Support	toll-free: 1230-020-4823
	Technical Support website: support.dell.com.cn	
	Technical Support E-mail: cn_support@dell.com	
	Customer Care E-mail: customer_cn@dell.com	
	Technical Support Fax	818 1350
	Technical Support (Dell™ Dimension™ and Inspiron™)	toll-free: 800 858 2969
	Technical Support (OptiPlex™, Latitude™, and Dell Precision™)	toll-free: 800 858 0950
	Technical Support (servers and storage)	toll-free: 800 858 0960
	Technical Support (projectors, PDAs, printers, switches, routers, and so on)	toll-free: 800 858 2920

China (Xiamen) Country Code: 86 City Code: 592	Customer Care	toll-free: 800 858 2060
	Customer Care Fax	592 818 1308
	Home and Small Business	toll-free: 800 858 2222
	Preferred Accounts Division	toll-free: 800 858 2557
	Large Corporate Accounts GCP	toll-free: 800 858 2055
	Large Corporate Accounts Key Accounts	toll-free: 800 858 2628
	Large Corporate Accounts North	toll-free: 800 858 2999
	Large Corporate Accounts North Government and Education	toll-free: 800 858 2955
	Large Corporate Accounts East	toll-free: 800 858 2020
	Large Corporate Accounts East Government and Education	toll-free: 800 858 2669
	Large Corporate Accounts Queue Team	toll-free: 800 858 2572
	Large Corporate Accounts South	toll-free: 800 858 2355
	Large Corporate Accounts West	toll-free: 800 858 2811
	Large Corporate Accounts Spare Parts	toll-free: 800 858 2621
Colombia	General Support	980-9-15-3978
Costa Rica	General Support	0800-012-0435
Czech Republic (Prague) International Access Code: 00 Country Code: 420	Website: support.euro.dell.com	
	E-mail: czech_dell@dell.com	
	Technical Support	22537 2727
	Customer Care	22537 2707
	Fax	22537 2714
	Tech Fax	22537 2728
Denmark (Copenhagen) International Access Code: 00 Country Code: 45	Switchboard	22537 2711
	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/dk/da/emaildell/	
	Technical Support	7023 0182
	Customer Care (Relational)	7023 0184
	Home/Small Business Customer Care	3287 5505
	Switchboard (Relational)	3287 1200
	Switchboard Fax (Relational)	3287 1201
Dominica	Switchboard (Home/Small Business)	3287 5000
	Switchboard Fax (Home/Small Business)	3287 5001
Dominica	General Support	toll-free: 1-866-278-6821
Dominican Republic	General Support	1-800-148-0530
Ecuador	General Support	toll-free: 999-119
El Salvador	General Support	01-899-753-0777
Finland (Helsinki) International Access Code: 990 Country Code: 358 City Code: 9	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/fi/fi/emaildell/	
	Technical Support	09 253 313 60
	Customer Care	09 253 313 38
	Fax	09 253 313 99
France (Paris) (Montpellier) International Access Code: 00 Country Code: 33 City Codes: (1) (4)	Switchboard	09 253 313 00
	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/fr/fr/emaildell/	
	Home and Small Business	
	Technical Support	0825 387 270
	Customer Care	0825 823 833
	Switchboard	0825 004 700
	Switchboard (calls from outside of France)	04 99 75 40 00
	Sales	0825 004 700
	Fax	0825 004 701
	Fax (calls from outside of France)	04 99 75 40 01
	Corporate	
	Technical Support	0825 004 719
Customer Care	0825 338 339	

	Switchboard	01 55 94 71 00
	Sales	01 55 94 71 00
	Fax	01 55 94 71 01
Germany (Langen) International Access Code: 00 Country Code: 49 City Code: 6103	Website: support.euro.dell.com	
	E-mail: tech_support_central_europe@dell.com	
	Technical Support	06103 766-7200
	Home/Small Business Customer Care	0180-5-224400
	Global Segment Customer Care	06103 766-9570
	Preferred Accounts Customer Care	06103 766-9420
	Large Accounts Customer Care	06103 766-9560
	Public Accounts Customer Care	06103 766-9555
	Switchboard	06103 766-7000
Greece International Access Code: 00 Country Code: 30	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/gr/en/emaildell/	
	Technical Support	00800-44 14 95 18
	Gold Service Technical Support	00800-44 14 00 83
	Switchboard	2108129810
	Gold Service Switchboard	2108129811
	Sales	2108129800
	Fax	2108129812
Grenada	General Support	toll-free: 1-866-540-3355
Guatemala	General Support	1-800-999-0136
Guyana	General Support	toll-free: 1-877-270-4609
Hong Kong International Access Code: 001 Country Code: 852	Website: support.ap.dell.com	
	Technical Support E-mail: apsupport@dell.com	
	Technical Support (Dimension and Inspiron)	2969 3188
	Technical Support (OptiPlex, Latitude, and Dell Precision)	2969 3191
	Technical Support (PowerApp™, PowerEdge™, PowerConnect™, and PowerVault™)	2969 3196
	Customer Care	3416 0910
	Large Corporate Accounts	3416 0907
	Global Customer Programs	3416 0908
	Medium Business Division	3416 0912
	Home and Small Business Division	2969 3105
India	Technical Support	1600 33 8045
	Sales (Large Corporate Accounts)	1600 33 8044
	Sales (Home and Small Business)	1600 33 8046
Ireland (Cherrywood) International Access Code: 16 Country Code: 353 City Code: 1	Website: support.euro.dell.com	
	E-mail: dell_direct_support@dell.com	
	Technical Support	1850 543 543
	U.K. Technical Support (dial within U.K. only)	0870 908 0800
	Home User Customer Care	01 204 4014
	Small Business Customer Care	01 204 4014
	U.K. Customer Care (dial within U.K. only)	0870 906 0010
	Corporate Customer Care	1850 200 982
	Corporate Customer Care (dial within U.K. only)	0870 907 4499
	Ireland Sales	01 204 4444
	U.K. Sales (dial within U.K. only)	0870 907 4000
	Fax/Sales Fax	01 204 0103
Switchboard	01 204 4444	
Italy (Milan) International Access Code: 00 Country Code: 39	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/it/it/emaildell/	
	Home and Small Business	
	Technical Support	02 577 826 90
	Customer Care	02 696 821 14
	Fax	02 696 821 13
	Switchboard	02 696 821 12

City Code: 02	Corporate		
	Technical Support	02 577 826 90	
	Customer Care	02 577 825 55	
	Fax	02 575 035 30	
	Switchboard	02 577 821	
Jamaica	General Support (dial from within Jamaica only)	1-800-682-3639	
Japan (Kawasaki) International Access Code: 001 Country Code: 81 City Code: 44	Website: support.jp.dell.com		
	Technical Support (servers)	toll-free: 0120-198-498	
	Technical Support outside of Japan (servers)	81-44-556-4162	
	Technical Support (Dimension and Inspiron)	toll-free: 0120-198-226	
	Technical Support outside of Japan (Dimension and Inspiron)	81-44-520-1435	
	Technical Support (Dell Precision, OptiPlex, and Latitude)	toll-free: 0120-198-433	
	Technical Support outside of Japan (Dell Precision, OptiPlex, and Latitude)	81-44-556-3894	
	Technical Support (PDAs, projectors, printers, routers)	toll-free: 0120-981-690	
	Technical Support outside of Japan (PDAs, projectors, printers, routers)	81-44-556-3468	
	Faxbox Service	044-556-3490	
	24-Hour Automated Order Service	044-556-3801	
	Customer Care	044-556-4240	
	Business Sales Division (up to 400 employees)	044-556-1465	
	Preferred Accounts Division Sales (over 400 employees)	044-556-3433	
	Large Corporate Accounts Sales (over 3500 employees)	044-556-3430	
	Public Sales (government agencies, educational institutions, and medical institutions)	044-556-1469	
	Global Segment Japan	044-556-3469	
	Individual User	044-556-1760	
		Switchboard	044-556-4300
	Korea (Seoul) International Access Code: 001 Country Code: 82 City Code: 2	Technical Support	toll-free: 080-200-3800
Sales		toll-free: 080-200-3600	
Customer Service (Penang, Malaysia)		604 633 4949	
Fax		2194-6202	
Switchboard		2194-6000	
Technical Support (Electronics and Accessories)		toll-free: 080-200-3801	
Latin America	Customer Technical Support (Austin, Texas, U.S.A.)	512 728-4093	
	Customer Service (Austin, Texas, U.S.A.)	512 728-3619	
	Fax (Technical Support and Customer Service) (Austin, Texas, U.S.A.)	512 728-3883	
	Sales (Austin, Texas, U.S.A.)	512 728-4397	
	SalesFax (Austin, Texas, U.S.A.)	512 728-4600 or 512 728-3772	
Luxembourg International Access Code: 00 Country Code: 352	Website: support.euro.dell.com		
	E-mail: tech_be@dell.com		
	Technical Support (Brussels, Belgium)	3420808075	
	Home/Small Business Sales (Brussels, Belgium)	toll-free: 080016884	
	Corporate Sales (Brussels, Belgium)	02 481 91 00	
	Customer Care (Brussels, Belgium)	02 481 91 19	
	Fax (Brussels, Belgium)	02 481 92 99	
	Switchboard (Brussels, Belgium)	02 481 91 00	
Macao Country Code: 853	Technical Support	toll-free: 0800 105	
	Customer Service (Xiamen, China)	34 160 910	
	Transaction Sales (Xiamen, China)	29 693 115	
Malaysia (Penang) International Access Code: 00 Country Code: 60 City Code: 4	Website: support.ap.dell.com	toll-free: 1 800 88 0193	
	Technical Support (Dell Precision, OptiPlex, and Latitude)	toll-free: 1 800 88 1306	
	Technical Support (Dimension, Inspiron, and Electronics and Accessories)		
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 88 1386	
	Customer Service (Penang, Malaysia)	04 633 4949	
	Transaction Sales	toll-free: 1 800 888 202	
	Corporate Sales	toll-free: 1 800 888 213	
		001-877-384-8979	

Mexico International Access Code: 00 Country Code: 52	Customer Technical Support	or 001-877-269-3383
	Sales	50-81-8800 or 01-800-888-3355
	Customer Service	001-877-384-8979 or 001-877-269-3383
	Main	50-81-8800 or 01-800-888-3355
Montserrat	General Support	toll-free: 1-866-278-6822
Netherlands Antilles	General Support	001-800-882-1519
Netherlands (Amsterdam) International Access Code: 00 Country Code: 31 City Code: 20	Website: support.euro.dell.com	
	Technical Support	020 674 45 00
	Technical Support Fax	020 674 47 66
	Home/Small Business Customer Care	020 674 42 00
	Relational Customer Care	020 674 4325
	Home/Small Business Sales	020 674 55 00
	Relational Sales	020 674 50 00
	Home/Small Business Sales Fax	020 674 47 75
	Relational Sales Fax	020 674 47 50
	Switchboard	020 674 50 00
	Switchboard Fax	020 674 47 50
	New Zealand International Access Code: 00 Country Code: 64	E-mail (New Zealand): nz_tech_support@dell.com
E-mail (Australia): au_tech_support@dell.com		
Technical Support (for desktop and portable computers)		toll-free: 0800 446 255
Technical Support (for servers and workstations)		toll-free: 0800 443 563
Home and Small Business		0800 446 255
Government and Business		0800 444 617
Sales		0800 441 567
Fax		0800 441 566
Nicaragua	General Support	001-800-220-1006
Norway (Lysaker) International Access Code: 00 Country Code: 47	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/no/no/emaildell/	
	Technical Support	671 16882
	Relational Customer Care	671 17575
	Home/Small Business Customer Care	23162298
	Switchboard	671 16800
Fax Switchboard	671 16865	
Panama	General Support	001-800-507-0962
Peru	General Support	0800-50-669
Poland (Warsaw) International Access Code: 011 Country Code: 48 City Code: 22	Website: support.euro.dell.com	
	E-mail: pl_support_tech@dell.com	
	Customer Service Phone	57 95 700
	Customer Care	57 95 999
	Sales	57 95 999
	Customer Service Fax	57 95 806
	Reception Desk Fax	57 95 998
	Switchboard	57 95 999
Portugal International Access Code: 00 Country Code: 351	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/pt/en/emaildell/	
	Technical Support	707200149
	Customer Care	800 300 413
	Sales	800 300 410 or 800 300 411 or 800 300 412 or 21 422 07 10
Fax	21 424 01 12	
Puerto Rico	General Support	1-800-805-7545
St. Kitts and Nevis	General Support	toll-free: 1-877-441-4731
St. Lucia	General Support	1-800-882-1521

St. Vincent and the Grenadines	General Support	toll-free: 1-877-270-4609
Singapore (Singapore) International Access Code: 005 Country Code: 65	Website: support.ap.dell.com	
	Technical Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1800 394 7430
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 394 7488
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 394 7478
	Customer Service (Penang, Malaysia)	604 633 4949
	Transaction Sales	toll-free: 1 800 394 7412
	Corporate Sales	toll-free: 1 800 394 7419
Slovakia (Prague) International Access Code: 00 Country Code: 421	Website: support.euro.dell.com	
	E-mail: czech_dell@dell.com	
	Technical Support	02 5441 5727
	Customer Care	420 22537 2707
	Fax	02 5441 8328
	Tech Fax	02 5441 8328
	Switchboard (Sales)	02 5441 7585
South Africa (Johannesburg) International Access Code: 09/091 Country Code: 27 City Code: 11	Website: support.euro.dell.com	
	E-mail: dell_za_support@dell.com	
	Gold Queue	011 709 7713
	Technical Support	011 709 7710
	Customer Care	011 709 7707
	Sales	011 709 7700
	Fax	011 706 0495
Switchboard	011 709 7700	
Southeast Asian and Pacific Countries	Customer Technical Support, Customer Service, and Sales (Penang, Malaysia)	604 633 4810
Spain (Madrid) International Access Code: 00 Country Code: 34 City Code: 91	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/es/es/emailldell/	
	Home and Small Business	
	Technical Support	902 100 130
	Customer Care	902 118 540
	Sales	902 118 541
	Switchboard	902 118 541
	Fax	902 118 539
	Corporate	
	Technical Support	902 100 130
	Customer Care	902 115 236
	Switchboard	91 722 92 00
	Fax	91 722 95 83
Sweden (Upplands Vasby) International Access Code: 00 Country Code: 46 City Code: 8	Website: support.euro.dell.com	
	E-mail: support.euro.dell.com/se/sv/emailldell/	
	Technical Support	08 590 05 199
	Relational Customer Care	08 590 05 642
	Home/Small Business Customer Care	08 587 70 527
	Employee Purchase Program (EPP) Support	20 140 14 44
	Technical Support Fax	08 590 05 594
Sales	08 590 05 185	
Switzerland (Geneva) International Access Code: 00 Country Code: 41 City Code: 22	Website: support.euro.dell.com	
	E-mail: Tech_support_central_Europe@dell.com	
	E-mail for French-speaking HSB and Corporate Customers: support.euro.dell.com/ch/fr/emailldell/	
	Technical Support (Home and Small Business)	0844 811 411
	Technical Support (Corporate)	0844 822 844
	Customer Care (Home and Small Business)	0848 802 202
	Customer Care (Corporate)	0848 821 721
	Fax	022 799 01 90
Switchboard	022 799 01 01	
	Website: support.ap.dell.com	

Taiwan International Access Code: 002 Country Code: 886	E-mail: ap_support@dell.com	
	Technical Support (OptiPlex, Latitude, Inspiron, Dimension, and Electronics and Accessories)	toll-free: 00801 86 1011
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 00801 60 1256
	Transaction Sales	toll-free: 00801 65 1228
	Corporate Sales	toll-free: 00801 651 227
Thailand International Access Code: 001 Country Code: 66	Website: support.ap.dell.com	
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 0060 07
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 0600 09
	Customer Service (Penang, Malaysia)	604 633 4949
	Corporate Sales	toll-free: 1800 006 009
	Transaction Sales	toll-free: 1800 006 006
Trinidad/Tobago	General Support	1-800-805-8035
Turks and Caicos Islands	General Support	toll-free: 1-866-540-3355
U.K. (Bracknell) International Access Code: 00 Country Code: 44 City Code: 1344	Website: support.euro.dell.com	
	Customer Care website: support.euro.dell.com/uk/en/ECare/Form/Home.asp	
	E-mail: dell_direct_support@dell.com	
	Technical Support (Corporate/Preferred Accounts/PAD [1000+ employees])	0870 908 0500
	Technical Support (direct and general)	0870 908 0800
	Global Accounts Customer Care	01344 373 186
	Home and Small Business Customer Care	0870 906 0010
	Corporate Customer Care	01344 373 185
	Preferred Accounts (500–5000 employees) Customer Care	0870 906 0010
	Central Government Customer Care	01344 373 193
	Local Government & Education Customer Care	01344 373 199
	Health Customer Care	01344 373 194
	Home and Small Business Sales	0870 907 4000
	Corporate/Public Sector Sales	01344 860 456
Home and Small Business Fax	0870 907 4006	
Uruguay	General Support	toll-free: 000-413-598-2521
U.S.A. (Austin, Texas) International Access Code: 011 Country Code: 1	Automated Order-Status Service	toll-free: 1-800-433-9014
	AutoTech (portable and desktop computers)	toll-free: 1-800-247-9362
	Consumer (Home and Home Office)	
	Technical Support	toll-free: 1-800-624-9896
	Customer Service	toll-free: 1-800-624-9897
	DellNet™ Service and Support	toll-free: 1-877-Dellnet (1-877-335-5638)
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Financial Services website: www.dellfinancialservices.com	
	Financial Services (lease/loans)	toll-free: 1-877-577-3355
	Financial Services (Dell Preferred Accounts [DPA])	toll-free: 1-800-283-2210
	Business	
	Customer Service and Technical Support	toll-free: 1-800-822-8965
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Printers and Projectors Technical Support	toll-free: 1-877-459-7298
	Public (government, education, and healthcare)	
	Customer Service and Technical Support	toll-free: 1-800-456-3355
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-234-1490
	Dell Sales	toll-free: 1-800-289-3355 or toll-free: 1-800-879-3355
	Dell Outlet Store (Dell refurbished computers)	toll-free: 1-888-798-7561
	Software and Peripherals Sales	toll-free: 1-800-671-3355
Spare Parts Sales	toll-free: 1-800-357-3355	
Extended Service and Warranty Sales	toll-free: 1-800-247-4618	
Fax	toll-free: 1-800-727-8320	

	Dell Services for the Deaf, Hard-of-Hearing, or Speech-Impaired	toll-free: 1-877-DELLTTY (1-877-335-5889)
U.S. Virgin Islands	General Support	1-877-673-3355
Venezuela	General Support	8001-3605

Regulatory Notices

TCO99



Congratulations!

You have just purchased a TCO'99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labeled computers?

In many countries, environmental labeling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labeling involve?

The product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers and/or displays. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: ecology, ergonomics, emission of electrical and magnetical fields, energy consumption and electrical safety.

Ecological criteria impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, and other substances. The product must be prepared for recycling and the manufacturing site(s) shall be certified according to ISO14001 or EMAS registered.

Energy requirements include a demand that the system unit and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the system unit shall be reasonable for the user.

Labeled products must meet strict environmental demands, for example, in respect of the reduction of electrical and magnetical fields as well as work load and visual ergonomics.

Below you will find a brief summary of the ecological requirements met by this product. The complete ecological criteria document can be found at TCO Development's website <http://www.tcodevelopment.com> or may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labeled products may also be obtained via the Internet, using the address: <http://www.tco-info.com/>

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative^{*} processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as there today is no commercially available alternative. TCO aims on removing this exception when a mercury free alternative is available.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO99 requirement permits the inclusion of lead since no replacement has yet been developed.

* Bio-accumulative is defined as substances which accumulate within living organisms

** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

Energy Efficiency



The proper operation of the function requires a computer with VESA® DPMS power management capabilities. When used with a computer equipped with VESA® DPMS, the display is ENERGY STAR-compliant.

As an ENERGY STAR® Partner, Dell Inc. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Federal Communications Commission (FCC) Notice (U.S. Only)

⚠ CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate 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.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

Instructions to Users: This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that following conditions are met.

1. Power cable: Shielded power cable must be used.
2. Video inputs: The input signal amplitude must not exceed the specified level.

🔒 NOTICE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Declaration of Conformity

According to 47 CFR, Part 15 of the FCC Rules

* For the following named product :

COLOR MONITOR

(Category Name)

E173FPb / DELL - BENQ E173FPb

E173FPc / DELL - TPV E173FPc

E173FPf / DELL- FOXCONN E173FPf

*** Manufactured at :**

1. BENQ Corporation

157 Shanying Road, Gueishan, Taoyuan 333, Taiwan, R.O.C.

2. BENQ Co., Ltd.

New District 169 Zhujiang Rd Suzhou Jiangsu, China

3. TPV Electronics (Fujian) Co., Ltd.

Yuan Hong Rd., Shang-Zhen, Hong-Lu, Fuqing City, Fujian, China

4.Hong Fu Jin Precision Industry(Shenzhen) Co., Ltd.

2, 2nd Donghuan Road, 10 th Yousong Industrial District, Longhua Town, Baoan, Shenzhen, Guangdong 518109, China

We hereby declare that this device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions :

1. This device may not cause harmful interference, and
2. This device must accept any interference received,
including interference that may cause undesired operation.

*** FCC Rules :**

Tested to comply with FCC part 15, class B

*** Test site at :**

1. Compliance Engineering Services, Sunnyvale, CA, USA -BENQ
2. Advance Data Technology Corporation, Taiwan - TPV
3. The Best Lab Co., Ltd, Taiwan - FOXCONN

*** Responsible Party for Product Compliance :**

BENQ Corporation

157, Shan-Ying Road, Gueishan, Taoyuan 333

Tel +886-3-3598800

Fax +886-3-3599000

Top Victory Electronics (Taiwan) Co., Ltd.

18F, No.738, Chung Cheng Road, Chung Ho, Taipei Hsien, Taiwan 235

Tel +886-2-82261668

Fax +886-2-82261666

FOXCONN Technology Co., Ltd.

No.3-2, Chung-Shan Rd. Tu- Cheng City, Taipei Hsien, Taiwan

Tel +886-2-22680970

Fax +886-2-22687176

*** Manufacturer Information :**

1. BENQ Corporation

157, Shan-Ying Road,
Gueishan, Taoyuan 333

2. BENQ Co., Ltd.

New District 169 Zhujiang Rd Suzhou Jiangsu, China

(2004-05-15)

(place and date of issue)



Ray Huang / Products Regulatory Manager

(name and signature of authorized person)

TPV Electronics (Fujian) Co., Ltd.

Yuan Hong Rd., Shang-Zhen, Hong-Lu, Fuqing City, Fujian,
China

George Wang / Project

George Wang

Manager

Wilson Huang

Wilson Huang/ Product Regulatory Manager

FOXCONN Technology Co., Ltd.
No. 3-2, Chung-Shan Rd. Tu-Cheng City, Taipei
Hsien, Taiwan

EU Declaration of Conformity (LVD, EMC)

Canadian Regulatory Information (Canada Only)

For the following product:
COLOR MONITOR
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.
E173FPC
Note that Canadian Department of Communications (DOC) regulations provide, that changes or modifications not expressly approved by Dell Inc. could void your authority to operate this equipment.
Manufactured at :
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Yuan Hong Rd., Shang-Zhen, Hong-Lu, Fuqing City, Fujian, China

EN 55022 Compliance (Green Republic Only)
CE-Mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC), Electromagnetic Compatibility Directives (89/336/EEC, 92/31/EEC) are fulfilled, as laid out in the guidelines set down by the member states of the EEC Commission. This declaration is valid for all samples that are part of this declaration, which are manufactured according to the production charts appendix. The standards relevant for the evaluation of electrical safety & EMC requirements are as follows:

EN 60950 and addition A1:2009
EN 60950-1:2006
EN 60950-2:2006
EN 60950-3-1:2000, EN61000-3-2:2000, EN61000-3-3:1995+A1:2001
EN 55024:1998+A1:2000, EN 55022:1998, EN 55024:1998+A1:2000, EN 55022:1998, EN 61000-3-2:2000, EN 61000-3-3:1995+A1:2001

1. Certificate of conformity / Test report issued by :

LVD : TUV
VCCI Class B Notice (Japan Only)

FEEMC : ADVANCE DATA TECHNOLOGY CORPPORATION
This equipment complies with the limits for a Class B digital device (devices used in or adjacent to a residential environment) and conforms to the standards for information technology equipment that are set by the Voluntary Control Council for Interference for preventing radio frequency interference in residential areas.
2. Technical documentation kept at :



TPV Electronics (Fujian) Co., Ltd.

Class B ITE
which will be made available upon request.
(Manufacturer)

この装置は、情報処理装置等電磁障害防止規則協議会 (VCCI) の基準に適合した情報装置です。この装置は家庭環境で使用することをお勧めいたしません。この装置がラジオやテレビジョン受信機に近接して使用すると、受信障害を及ぼすことがあります。取扱説明書に従って正しい取り扱いをしてください。

MIQ Notice (Republic of Korea Only)
Class B Device

George Wang

Table with 2 columns: 기종별 (Model), 사용자 안내문 (User Notice). Content: B급 기기 (가정용 정보통신기기), 이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Display Division Safety Department Manager
Signature of authorized person)

Please note that this device has been approved for non-business purposes and may be used in any environment, including residential areas.
TPV Electronics (Fujian) Co., Ltd.

Yuan Hong Rd., Shang-Zhen, Hong-Lu, Fuqing City, Fujian,
Polish Center for Testing and Certification Notice
George Wang

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, monitor, printer, and so on) should have the same power supply source.

George Wang / Display Division EMC Department Manager

(place and date of issue) The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

(name and signature of authorized person)

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

EU Declaration of Conformity (LVD, EMC)

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251. For the following product:

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kolkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkownika zawartymi w PN-93/T-42107 i PN-89/E-06251.

Mark Directive (93/68/EEC) and Low Voltage Directive '31/EEC) are fulfilled, as laid out in the guidelines set out for all samples that are part of this declaration, which standards relevant for the evaluation of electrical safety &

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kolka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłócenowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

which will be made available upon request.

(Manufacturer)

NOM Information (Mexico Only)

The following information is provided on the device(s) described in this document in compliance with the requirements of the official Mexican standards (NOM):

1. BENQ Corporation

157, Shan-Ying Road,
Exporter:
Gueishan, Taoyuan 333

2003-10-30
Importer:
2. BENQ Co., Ltd.

New District 169 Zhujiang Rd Suzhou Jiangsu, China
Ship to:

(place and date of issue)
Supply voltage:

Frequency:

Current consumption:

Dell Computer Corporation
One Dell Way
Round Rock, TX 78682
Dell Computer de México, S.A. de C.V.
Paseo de la Reforma 2620, 11th Floor
Col. Lomas Altas
11950 México, D.F.

Dell Computer de México,
S.A. de C.V. al Cuidado de Kuehne & Nagel
de México S. de R.L., Avenida Soles No. 55
Col. Peñon de los Baños, 15520 México, D.F.

> 100/240 VAC
50/60 Hz
E173FPc : 1.5 A

Ray Huang

Ray Huang / Display Division Safety Department Manager

(name and signature of authorized person)

(Representative in the EU)

NOM Information (Mexico Only)

1. BENQ Corporation

The following information is provided on the device(s) described in this document in compliance with the requirements of the official Mexican standards (NOM):
157, Shan-Ying Road,

Gueishan, Taoyuan 333
Exporter:

2003-10-30

Importer:
2. BENQ Co., Ltd.

New District 169 Zhujiang Rd Suzhou Jiangsu, China

(place and date of issue)

Supply voltage:

Frequency:

Current consumption:

For the following product:

COLOR MONITOR

NOM Information (Mexico Only)

E173FPf

The following information is provided on the device(s) described in this document in compliance with the requirements of the official Mexican standards (NOM)

Manufactured at :

Dell Inc.

EU Declaration of Conformity (LVD, EMC)

> 100/240 VAC
50/60 Hz
E173FPb : 2.0 A

COLOR MONITOR

NOM Information (Mexico Only)

E173FPf

The following information is provided on the device(s) described in this document in compliance with the requirements of the official Mexican standards (NOM)

Manufactured at :

Dell Inc.

Ray Huang

Ray Huang / Display Division EMC Department Manager

(name and signature of authorized person)

Exporter: One Dell Way
FOXCONN Round Rock, TX 78682
Dell Computer de México, S.A. de C.V.
Hong Fu Jin Precision Industry (Shenzhen) Co., Ltd. Paseo de la Reforma 2620, 11th Floor
Importer: Col. Lomas Altas
2, 2nd Donghuan Road, 10th Yousong Industrial District, Longhua
11950 Mexico, D.F.
Town, Baoan, Shenzhen, Guangdong 518101
Ship to: S.A. de C.V. al Cuidado de Kuehne & Nagel
de México S. de R.L., Avenida Soles No. 55

We hereby declare, that all major safety requirements, EMC, CE, Mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC), Electromagnetic Compatibility Directives (89/336/EEC, 92/31/EEC) are fulfilled, as laid out in the guidelines set down by the member states of the EEC Commission. This declaration is valid for all samples that are part of this declaration, which are manufactured according to the production charts appendix. The standards relevant for the evaluation of electrical safety & EMC requirements are as follows :
Current consumption: E173FPf : 1.5A

LVD : EN 60950:1997+A1+A2+A3+A4
BSMI Notice (Taiwan Only)
EMC : EN 55024:1998, EN55022:1998, EN61000-3-2, 3:1995

警告使用者：這是甲類的資訊產品，在指定的環境中使用時，可能會造成無線電干擾，在這種情況下，使用者會感受到採取某些適當的對策。
by :

EEMC : Best laboratory Co., Ltd.

2. Technical documentation kept at :

Foxconn Technology Co., Ltd.

Regulatory listing available upon request. (Manufacturer)

Safety Certifications:

- UL/CUL 60950
- NOM
- FCC Part 15 Class B
- IEC 950
- CNS 14754
- PCBC
- PCBC
- TUVGS
- SAA
- GOST
- PSB
- IRAM/EZU
- TUV-S
- SASO
- SII
- MEEI
- SIQ
- SABS

EMC Certifications:

- FCC Part 15 Class B
- VCCI Class B ITE
- BSMI

Ergonomics:

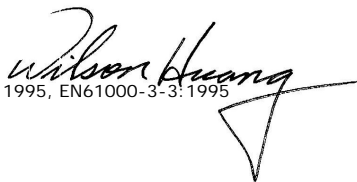
- ENERGY STAR®
- TCO 99



Wilson Huang / Display Division Safety Department Manager

(name and signature of authorized person)

(Representative in the EU)



Wilson Huang / Display Division EMC Department Manager

(name and signature of authorized person)

Recycling

Dell recommends that customers dispose of their used computer hardware, including monitors, in an environmentally sound manner. Potential methods include the reuse of parts or whole products and recycling of product, components, and/or materials.

For more information, please visit www.dell.com/recycling_programs and www.dell.com/environment.

Your Monitor Set-up Guide

To view PDF files (files with an extension of **.pdf**), click the document title. To save PDF files (files with an extension of **.pdf**) to your hard drive, right-click the document title, click **Save Target As** in Microsoft® Internet Explorer or **Save Link As** in Netscape Navigator, and then specify a location on your hard drive to which you want to save the files.

[Setup Guide \(.pdf\)](#)

NOTE: PDF files require Adobe™ Acrobat Reader, which can be downloaded from the Adobe website at www.adobe.com.



To view a PDF file, launch Acrobat Reader. Then click **File® Open** and select the PDF file.

[Back to Contents Page](#)

Contents: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Preface](#)

[Introduction](#)

[Setup](#)

[Using the Display](#)

[Troubleshooting](#)

[Specifications](#)

[Appendix](#)

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Initial release: January 2005

Front View: Dell™ E173FP Flat Panel Color Monitor User's Guide



A B C D

A Menu button

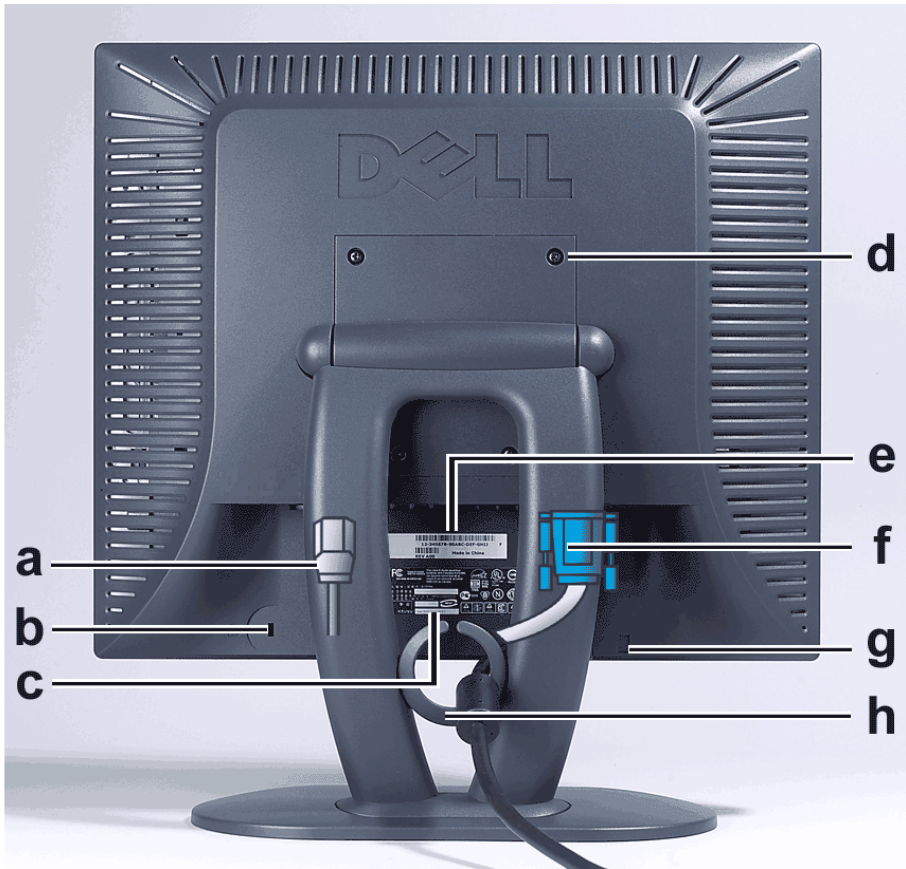
B Brightness / Contrast Hotkey and - button

C Auto Adjust and + button


D Power On/Off button with LED Indicator

 **NOTE:** The graphic is for illustration only. Product appearance may vary.

Back View: E173FP Flat Panel Color Monitor User's Guide




- a** Power Cord, plugs into monitor and wall receptacle
- b** Kensington Lock Slot
- c** Regulatory Label
- d** VESA mounting holes, 100mm (Behind attached base plate)
- e** Barcoded serial number label
- f** 15-pin D-sub signal cable (Used for analog video and is detachable)
- g** Mounting Location for Optional Sound Bar
- h** Cable Holder

 **NOTE:** The graphic is for illustration only. Product appearance may vary.

[Back to Contents Page](#)

E173FP Flat Panel Color Monitor User's Guide




 *NOTE: The graphic is for illustration only. Product appearance may vary.*

[Back to Contents Page](#)

Side View: Dell™ E173FP Flat Panel Color Monitor User's Guide



 *NOTE: The graphic is for illustration only. Product appearance may vary.*

Tilt Base: Dell™ E173FP Flat Panel Color Monitor User's Guide

Tilt Base

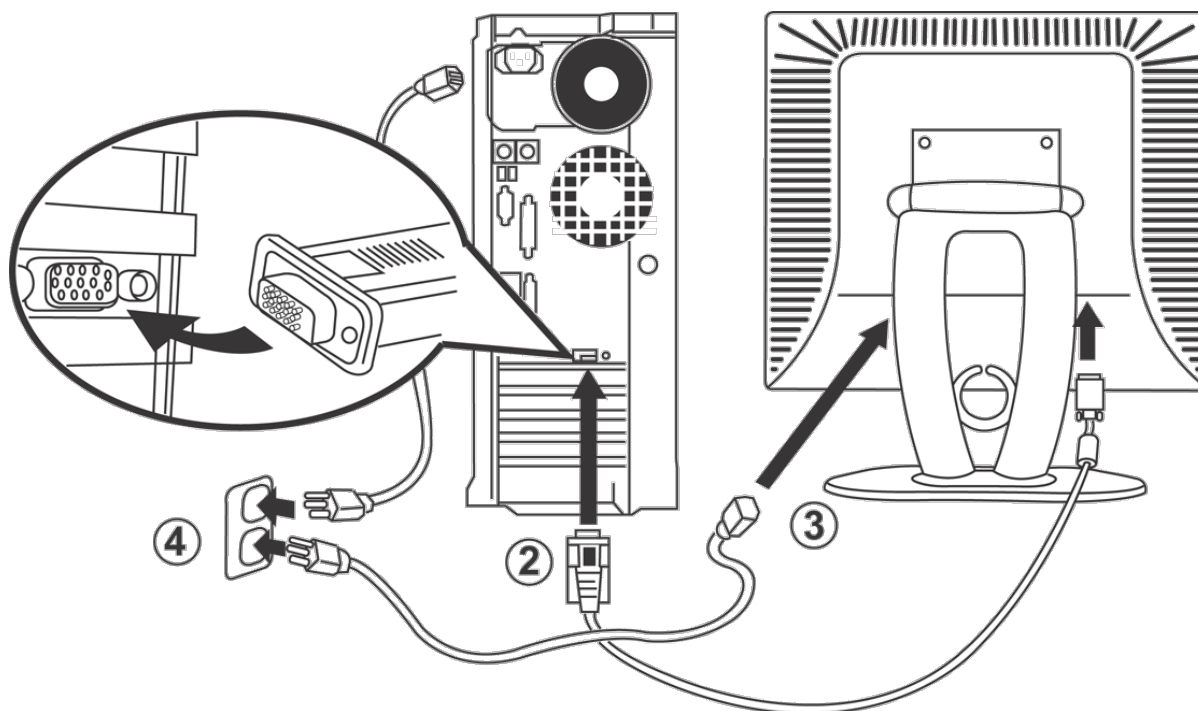
With the Tilt base, you can tilt the display for the most comfortable viewing angle.



 **NOTE:** The graphic is for illustration only. Product appearance may vary.

Attaching the Cables: Dell™ E173FP Flat Panel Color Monitor User's Guide

Cable Connections on the Back of the Monitor and the Computer



1. Turn off your computer and unplug its power cable.
2. Connect the blue (analog D-sub) display connector cable to the corresponding video port on the back of your computer. (The graphic is for illustration only. System appearance may vary).
3. Connect the power cable for your display to the power port on the back of the display.
4. Plug the power cables of your computer and your display into a nearby outlet. Your monitor is equipped with an automatic power supply for a voltage range from 100 to 240 Volt at a frequency of 50/60 Hz. Be sure that your local power is within the supported range. If you are unsure, ask your electricity supplier.
5. Turn on your display and computer.

If your monitor displays an image, installation is complete. If it does not display an image, see [Troubleshooting](#).

Dell™ Soundbar (Optional): E173FP Flat Panel Color Monitor User's Guide

[Overview](#) • [Graphics](#) • [Soundbar Attachment to Monitor](#) • [Specification](#) • [Troubleshooting](#)

Overview

The Dell™ Soundbar is a four-speaker, two-channel system adaptable to mount on Dell Flat Panel Displays. Located on the Soundbar area: A rotary volume and on/off control to adjust the overall system level, a green LED for power indication, and two audio headset jacks.

Graphics




a. Attach Mechanism

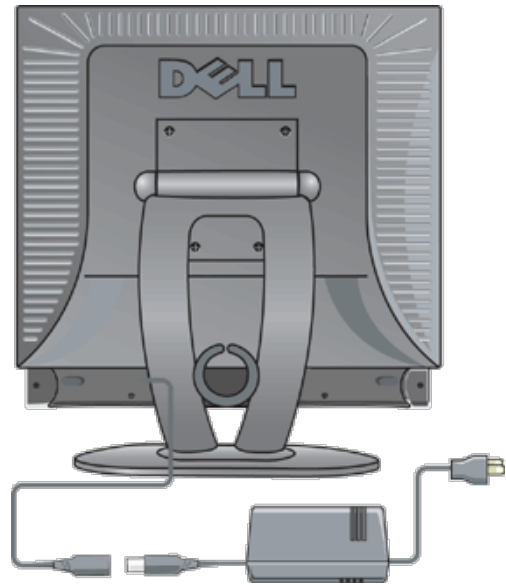
b. Headphone Jacks

c. Power Indicator

d. Power / Volume control

 **NOTE:** The graphic is for illustration only. Product appearance may vary.

Soundbar Attachment to Monitor



1. Working from the rear of the monitor, attach Soundbar by aligning the two slots with the two tabs along the bottom rear of the monitor.
2. Slide the Soundbar to the left until it snaps into the place.
3. Connect the sound bar with the power brick.
4. Plug the power cables of the power brick into a nearby outlet.
5. Insert the lime green mini stereo plug from the rear of the Soundbar into the computer's audio output jack.

NOTE: The graphic is for illustration only. Product appearance may vary.

NOTE: The base removal is not necessary to install the sound bar. Shown with base detached for illustration purposes only.

Specification

System Frequency Response	95 Hz to 20 kHz @ 10 dB below avg. SPL
Total Power Output	14 W continuous average power (all speakers operating) @ 10% (THD+N), 1 kHz (FTC rated)
Headphone Jack Output Power	40 mW continuous average power (RL = 32Ω) @ 10% (THD+N), 1 kHz
Input Sensitivity for Rated Output	500 ± 50 mVrms @ 1 kHz
Input Impedance	>10kΩ
Maximum Input Signal Voltage	2 Vrms
Controls	Power On/Off Volume Control
Input Cables	3.0 m ± 0.1 m AWG26 black cable attached to enclosure, with 3.5 mm lime green stereo plug
Power Requirements	DC12V, 1.5A +/-10% (Power brick is required)
Power Cord Length	305 mm +/- 15 mm AWG22 black cable attached to enclosure, with DC plug (5.5 x 2.1 x 12 mm)
Operating Temperature Range	10°C to 40°C
Humidity, Non-condensing	95% RH @ 40°C

Troubleshooting

The following table contains general information about common audio problems you might encounter.

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Sound	No power to Soundbar - the power indicator is off.	<ul style="list-style-type: none"> • Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (green LED) on the front of the Soundbar is illuminated.

		<ul style="list-style-type: none"> • Confirm that the power cable from the Soundbar is plugged correctly into the power brick. • Confirm that the power brick is plugged correctly into AC outlet.
No Sound	Soundbar has power - power indicator is on.	<ul style="list-style-type: none"> • Plug the audio line-in cable into the computer's audio out jack. • Set all Windows volume controls to their maximum. • Play some audio content on the computer (i.e. audio CD, or MP3). • Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. • Clean and reseal the audio line-in plug. • Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source.	<ul style="list-style-type: none"> • Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the sound card. • Set all Windows volume controls to their midpoints. • Decrease the volume of the audio application. • Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. • Clean and reseal the audio line-in plug. • Troubleshoot the computer's sound card. • Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used.	<ul style="list-style-type: none"> • Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the audio source. • Decrease the volume of the audio source. • Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. • Clean and reseal the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	<ul style="list-style-type: none"> • Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. • Set all Windows audio balance controls (L-R) to their midpoints. • Clean and reseal the audio line-in plug. • Troubleshoot the computer's sound card. • Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low.	<ul style="list-style-type: none"> • Clear any obstructions between the Soundbar and the user. • Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. • Set all Windows volume controls to their maximum. • Increase the volume of the audio application. • Test the Soundbar using another audio source (i.e. portable CD player).


[Back to Contents Page](#)


Positioning the Display: Dell™ E173FP Flat Panel Color Monitor User's Guide

Consider the following environmental factors when you are deciding how to position the display:

- Do not store or use the LCD monitor in locations exposed to heat, direct sunlight, or extreme cold.
 - Avoid moving the LCD monitor between locations with large temperature differences. Choose a site falling within the following temperature and humidity ranges.
 - Temperature: 5° to 35°C (41° to 95°F)
 - Humidity: 80% max. (non-condensing)
 - Do not subject the LCD monitor to severe vibration or high impact conditions. Do not place the LCD monitor inside a car trunk.
 - Do not store or use the LCD monitor in locations exposed to high humidity or dusty environment. Also do not allow water or other liquids to spill on or into the LCD monitor.
 - Keep flat panel monitor in room temperature conditions. Excessive cold or hot conditions can have an adverse effect on the liquid crystal of the display.
-

Maintenance: Dell™ E173FP Flat Panel Color Monitor User's Guide

 **CAUTION:** To avoid risk of electric shock, do not disassemble the display cabinet. Users cannot service the display. User maintenance is restricted to cleaning.

 **NOTE:** Before cleaning the display, unplug it from the electrical outlet.

- To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating.
 - To clean your Midnight Gray display cabinet, avoid using detergent of any kind. Detergent leaves a milky film on plastics; particularly the darker colored ones. It is best to use a lightly dampened warm cloth to clean the cabinet.
 - White powder substance, due to shipping, may appear on the plastic or near bezel edge. If you observe this, simply wipe it off.
 - Darker color plastics may scratch and shows white scuff marks more than lighter-colored display. Handle your Midnight Gray display with care.
 - Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
-

[Back to Contents Page](#)

Setting the Optimal Resolution: Dell™ E173FP Flat Panel Color Monitor User's Guide

For optimal display performance while using the Microsoft® Windows® operating systems, set the display resolution to 1280 x 1024 pixels by performing the following steps:

1. Click the **Start** button, point to **Settings**, and click **Control Panel**.
 2. Double-click the **Display** icon in the **Control Panel** window, and then click the **Settings** tab.
 3. In the **Desktop** area, move the sidebar to 1280 by 1024 pixels. Then click **OK**.
 4. Recommended frequency for best performance is 60Hz.
-

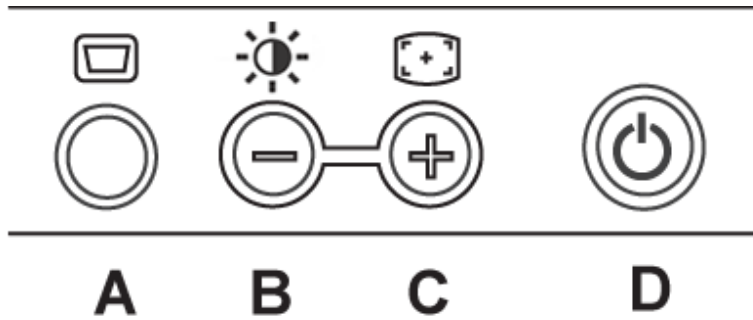
[Back to Contents Page](#)



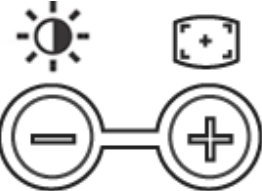

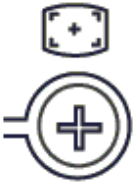


Controls and Indicators: Dell™ E173FP Flat Panel Color Monitor User's Guide

[Overview](#) • [On Screen Menu/Display \(OSD\)](#) • [Automatic Save](#) • [Reset Functions](#) • [OSD Warning Messages](#)

Overview

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an on-screen display (OSD) shows their numeric values as they change.



A	 MENU	<p>The 'MENU' button is used to open the on-screen display (OSD), select function icons, exit from menus and sub-menus, and to exit the OSD. See Accessing the Menu System.</p>
B	 Brightness/Contrast Hot Key	<p>Use this button for direct access to the 'Brightness' and 'Contrast' control menu.</p>
B C	 - and + buttons	<p>Use these buttons to adjust (decrease/increase ranges) items in the OSD.</p> <p> NOTE: you can activate automatic scroll feature by pressing and holding either + or - button.</p>
C	 Auto Adjust	<p>Use this button to activate automatic setup and adjustment. The following dialog will appear on screen as the monitor self-adjusts to the current input:</p> <div style="text-align: center; background-color: black; color: white; padding: 5px; margin: 10px 0;">Auto Adjust In Progress</div> <p>Auto Adjustment  button allows the monitor to self-adjust to the incoming video signal. After using 'Auto Adjustment', you can further tune your monitor by using the 'Pixel Clock' and 'Phase' controls in the OSD.</p> <p> NOTE: Auto Adjust will not occur if you press the button while there are no active video input signals, or attached cables.</p>

D












**Power Button &
Indicator**

The green LED indicates the monitor is on and fully functional. An amber LED indicates DPMS power save mode.

The Power button turns the monitor on and off.

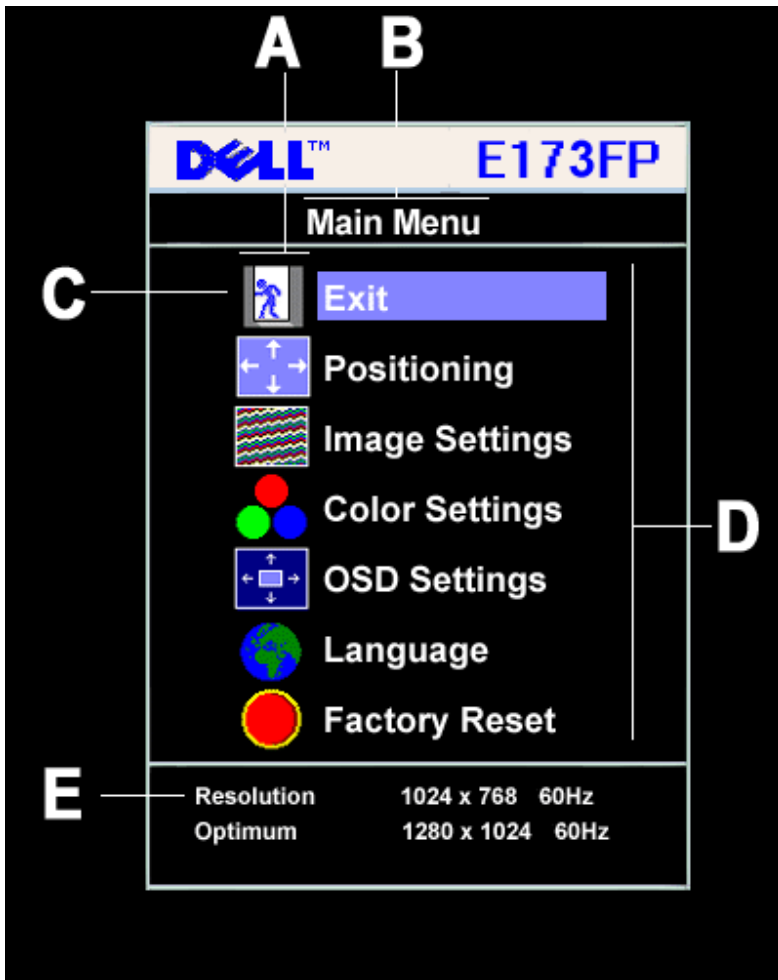
On Screen Menu/Display (OSD)

Direct-Access Functions

Function	Adjustment Method
<p>Auto adjustment</p>	<p>Use this button to activate automatic setup and adjustment. The following dialog will appear on screen as the monitor self-adjusts to the current input:</p> <div style="text-align: center;">  </div> <p>Auto Adjustment  button allows the monitor to self-adjust to the incoming video signal. After using 'Auto Adjustment', you can further tune your monitor by using the 'Pixel Clock' and 'Phase' controls in the OSD.</p> <p> NOTE: Auto Adjust will not occur if you press the button while there are no active video input signals, or attached cables</p>
<p>Brightness / Contrast</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Brightness/Contrast</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 15%;">Exit</div> <div style="width: 10%;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="width: 15%;">Brightness</div> <div style="width: 10%;"></div> <div style="width: 75%;"></div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="width: 15%;">Contrast</div> <div style="width: 10%;"></div> <div style="width: 75%;"></div> </div> </div>	<p>With the menu off, push  button to display the 'Brightness' and 'Contrast' adjustment menu.</p> <p>The 'Brightness' function adjusts the luminance of the flat panel. Adjust 'Brightness' first, then adjust 'Contrast' only if further adjustment is necessary.</p> <p>"+" increase 'brightness' " - "decrease 'brightness'</p> <p>The 'Contrast' function adjusts the degree of difference between darkness and lightness on the display screen.</p> <p>"+" increase the 'contrast' "-" decrease the 'contrast'</p>



Accessing the Menu System

1. With the menu off, push the 'MENU' button to open the OSD system and display the main features menu.



A Function icons **B** Main Menu **C** Menu icon
D Sub-Menu name **E** Resolution

2. Push the - and + buttons to move between the function icons. As you move from one icon to another, the function name is highlighted to reflect the function or group of functions (sub-menus) represented by that icon. See the table below for a complete list of all the functions available for the monitor.
3. Push the 'MENU' button once to activate the highlighted function; Push -/+ to select the desired parameter, push menu to enter the sidebar then use the - and + buttons, according to the indicators on the menu, to make your changes.
4. Push the 'Menu' button once to return to the main menu to select another function or push the 'Menu' button two or three times to exit from the OSD.

Icon	Menu Name and Sub-menus	Description
	EXIT	This is used to exit out of the 'Main menu'.
	Positioning: Horizontal Vertical	'Positioning' moves the viewing area around on the monitor screen. When making changes to either the 'Horizontal' or 'Vertical' settings, no changes will occur to the size of the viewing area; the image will simply be shifted in response to your selection/change. Minimum is '0' (-). Maximum is '100' (+).

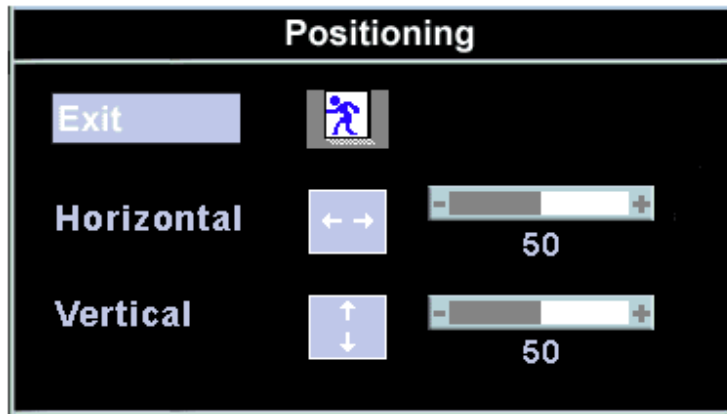


Image settings:

Auto Adjust Even though your computer system can recognize your new flat panel monitor on startup, the 'Auto Adjustment' function will optimize the display settings for use with your particular setup.

NOTE: In most cases, 'Auto Adjust' will produce the best image for your configuration; this function can be directly access via Auto Adjustment hotkey.

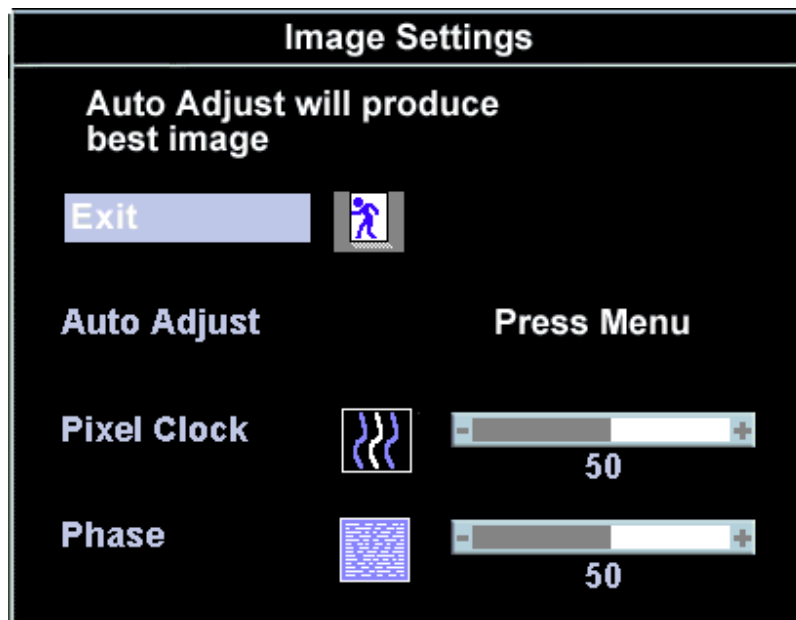


Pixel Clock The 'Phase' and 'Pixel Clock' adjustments allow you to more closely adjust your monitor to your preference. These settings are accessed through the main OSD menu, by selecting 'Image Settings'.

Use the - and + buttons to adjust away interference. Minimum: 0 ~ Maximum: 100



Phase If satisfactory results are not obtained using the 'Phase' adjustment, use the 'Pixel Clock' adjustment and then use 'Phase' again.

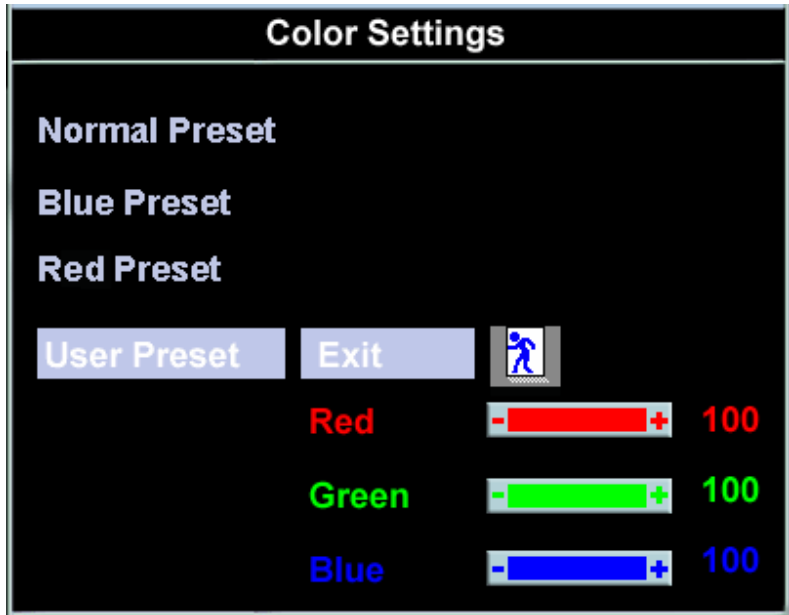


NOTE: This function may change the width of the display image. Use the 'Horizontal' function of the 'Position' menu to center the display image on the screen.



Color Settings:

'Color Settings' adjusts the color temperature and saturation.




Normal Preset 'Normal Preset' is selected to obtain the default (factory) color settings.

Blue Preset 'Blue Preset' is selected to obtain a bluish tint. This color setting is typically used for text based applications (Spreadsheets, Programming, Text Editors etc.).

Red Preset 'Red Preset' is selected to obtain a redder tint. This color setting is typically used for color intensive applications (Photograph Image Editing, Multimedia, Movies etc.).

User Preset 'User Preset': Use the plus and minus buttons to increase or decrease each of the three colors (R, G, B) independently, in single digit increments, from '0' to '100'.

 *NOTE: 'Color temperature' is a measure of the 'warmth' of the image colors (red/green/blue). The two available presets ('Blue' and 'Red') favor blue and red accordingly. Select each one to see how each range suits your eye; or utilize the 'User Preset' option to customize the color settings to your exact choice.*

OSD Settings: Each time the OSD opens, it displays in the same location on the screen. 'OSD Settings' (horizontal/vertical) provides control over this location.




Horizontal Position - and + buttons move OSD to the left and right.



Vertical Position - and + buttons move OSD down and up.



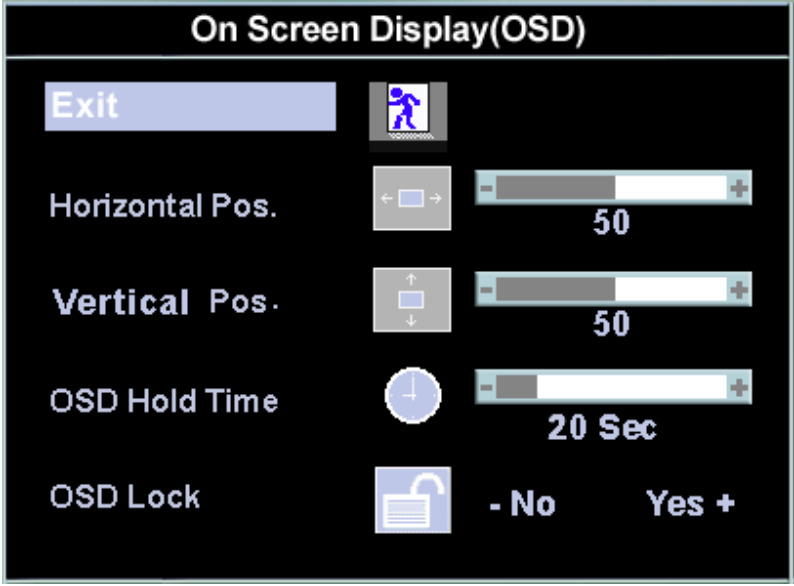
OSD Hold Time: The OSD stays active for as long as it is in use.
 'OSD Hold Time': Sets the length of time the OSD will remain active after the last time you pressed a button.
 Use the - and + buttons to adjust the slider in 5 second increments, from 5 to 60 seconds.

 *NOTE: Default 'OSD hold time' is 20 seconds.*



OSD Lock 'OSD Lock': Controls user access to adjustments. When 'Yes' (+) is selected, no user adjustments are allowed. All buttons are locked except the menu button.

All buttons can be locked or unlocked when the 'Menu' button is pushed and held for over 15 seconds.



NOTE: When the OSD is locked, pressing the 'Menu' button will take the user directly to the 'OSD settings' menu, with 'OSD Lock' preselected on entry. Select 'No' (-) to unlock and allow user access to all applicable settings.



Language:

Language sets the OSD to display in one of five languages (English, Español, Français, Deutsch, Japanese).



NOTE: The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.



Factory Reset:


'Factory Reset' returns the settings to the factory preset values for the selected group of functions. 'Exit' is used to exit out of 'Factory Reset' menu. For 'All settings', all user adjustable settings are reset at one time except 'Language settings'.

Automatic Save

With the OSD open, if you make an adjustment and then either proceed to another menu, or exit the OSD, the monitor automatically saves any adjustments you have made. If you make an adjustment and then wait for the OSD to disappear the adjustment will also be saved.

Reset Functions

Factory Preset Restoration

	<p>'Exit' leaves this submenu without resetting any values.</p> <p>'All Settings' returns your monitor settings to those that were set at the time of manufacture. This includes 'Color', 'Position', 'Clock frequency', 'Phase', 'Brightness', 'Contrast' and 'OSD hold time'.</p>
<p>NOTE: There is no "Undo" when you use the 'Reset function'. To return to the previous function settings, you must adjust the functions again. 'Reset' will set the clock and phase back to factory settings, activating auto adjust may be required and this will optimize the image for your system.</p>	

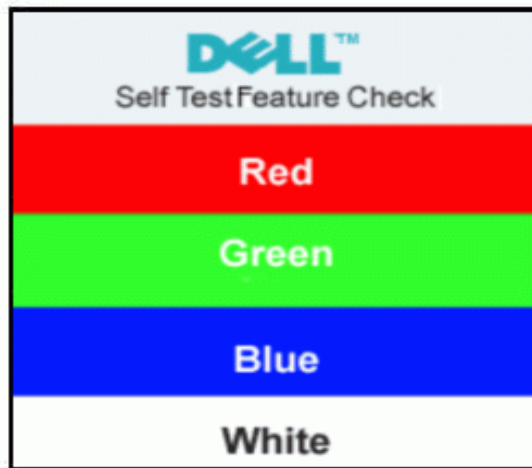
OSD Warning Messages

A warning message may appear on the screen indicating that the monitor is out of sync.



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. Either the signal is too high or too low for the monitor to use. See [Specifications](#) for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1280 X 1024 @ 60Hz.

NOTE: The floating 'Dell - self-test Feature Check' dialog will appear on-screen if the monitor cannot sense a video signal.



Occasionally, no warning message appears, but the screen is blank. This could also indicate that the monitor is not synchronizing with the computer.

See [Troubleshooting](#) for more information.

[Back to Contents Page](#)

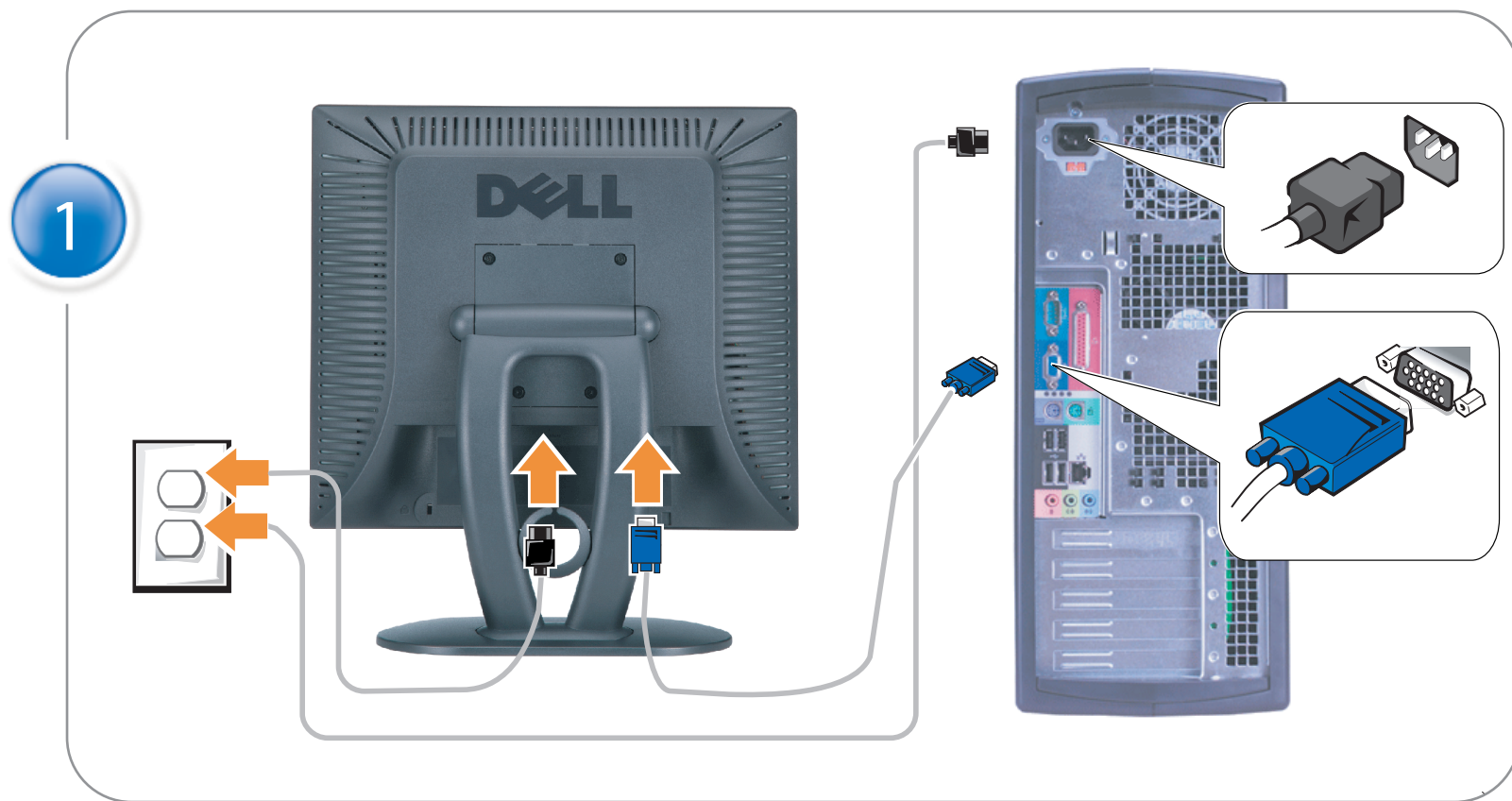


Setting Up Your Monitor

安裝顯示器 | 安装您的显示器 | モニターのセットアップ | 모니터 설치 | การติดตั้งจอภาพ
Parametrer votre moniteur | Instalacion del monitor | Configurar o monitor
Inbetriebnahme des Monitors | Configurazione del monitor | Instalacja monitora

Dell™ E173FP

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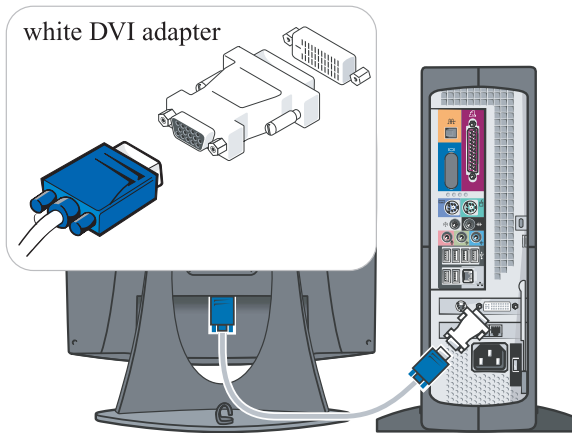


Connect the monitor to the computer

Rac ordez le moniteur à l'ordinateur.
Conecta el monitor al ordenador
conectar o monitor ao computador
Fügen Sie den Monitor zum Computer zu
Colligare il Monitor al computer
Podłączyć monitor do komputera
連接顯示器至電腦
连接显示器至主机
モニタをコンピュータに接続してください。
모니터를 컴퓨터에 연결합니다.
การต่อสายเคเบิลของเครื่องคอมพิวเตอร์กับmonitor

OPTIONAL CONNECTION

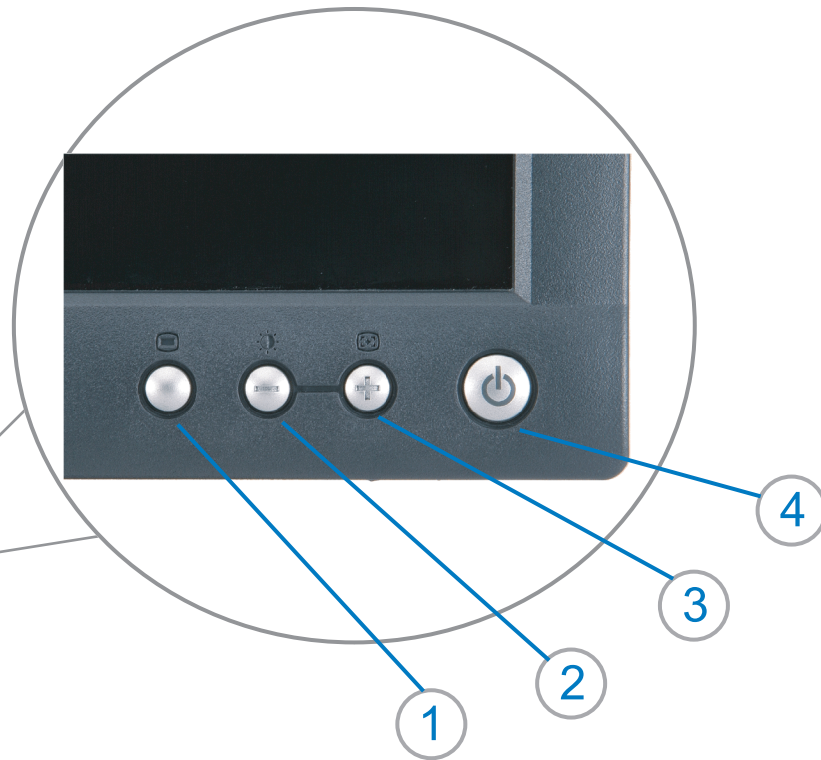
If computer has optional video card with white digital connector Only, connect monitor to card using white DVI adapter (Adapter included with computer)



Adjust the monitor

Ajustez le moniteur
Ajuste el monitor
Ajuste o monitor
Stellen Sie den Monitor ein.
Regolare ol monitor
Wyregulowac monitor
調整顯示器
调节显示器
モニタを調節します。
모니터를 조정합니다.
ปรับหน้าจอ





1

OSD menu/select
Menu OSD/Sélectionner
à des modifications sans préavis.
Menú OSD/Selección
menu OSD/seleccionar
OSD-Menü/Auswählen
Menu OSD/selezione
Menu OSD/wybór
OSD 功能表/選擇
OSD菜单/选择
OSD 메뉴/선택
OSD 메뉴/선택
เมนูบนหน้าจอ

2

Brightness and Contrast/down
Luminosité et Contraste/Descendre
Brillo y Contraste/Abajo
Brilho e Contraste/para baixo
Helligkeit und Kontrast/abwärts
Luminosità e Contrasto/giù
Jasność i Kontrast/dół
亮度及對比/向下
亮度及對比度/向下
明るさとコントラスト/ダウン
화면선명도조정 & 화면밝기조정
ความสว่าง / ความคมชัด / ออถน

3

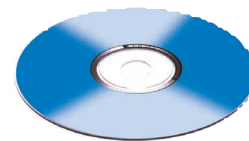
Auto-Adjust/up
Réglage automatique/Monter
Ajuste automático/Arriba
Ajuste Automático/para cima
Automatische Anpassung/aufwärts
Regolazione automatica/su
Regulacja automatyczna/góra
自動調整/向上
自動調整/向上
自動調節/アップ
자동 조정/업
ปรับอัตโนมัติ/ปรับขึ้น

4

power button
Alimentation
Botón Power (Alimentación)
botão de alimentação
Netzschalter
Pulsante dell'alimentazione
Przycisk zasilania
電源按鈕
電源按鈕
電源
전원 버튼
ปุ่มเริ่มทำงาน

5

cable holder
Support de câbles
Guía de cables
suporte de cabos
Kabelhalter
Portacavi
Uchwyty przewod
連接線蓋
電纜夾圈
케이블 홀더
ที่ยึดสายเคเบิ้ล



NOTE: Detailed user information is included on the CD.
Remarque: Vous trouverez des informations détaillées sur le CD-Rom.
NOTA: en el CD se incluyen más detalles para el usuario.
NOTA: Informações detalhadas para o utilizador estão incluídas no CD.
HINWEIS: Ausführliche Informationen sind auf der CD enthalten.
NOTA: il CD contiene informazioni più dettagliate per l'utente.
UWAGA: Szczegółowe informacje znajdują się na płycie CD.
注意: 光碟中包含詳細的使用者資訊。
注: 詳細的用户信息包括在CD中。
注: 詳細なユーザー情報は、CDに収録されています。
주: 세부 사용자 설명서는 CD에 포함되어 있습니다.
หมายเหตุ: ข้อมูลสำหรับผู้ใช้งานมีอยู่ในซีดี



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2004年4月

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