Dell™ 2405FPW Flat Panel Monitor

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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.

- 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 property damage, personal injury, or death.

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

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Front View

1. Input indicators
2. Input selection
3. PIP (Picture In Picture) / PBP (Picture By Picture) selection
4. Menu selection
5. Brightness & Contrast / Down(-)
6. Auto-Adjust / Up(+)
7. Power button

Back View
1 Kensington lock slot
2 USB downstream ports and card reader
3 Mechanical attachment point for Dell™ Sound Bar
4 Cable holder
5 Stand lock release button

**Side View**
Left side

1 Card reader: for details please refer to Card Reader Specifications
2 USB downstream ports
3 Display removal button

Bottom View

1 AC power cord connector
2 DC power connector for Dell™ Sound Bar
3 S-Video connector
4 Composite video connector
5 Component video connectors
6 DVI connector
7 VGA connector
8 USB upstream port
9 USB downstream ports
Monitor Specifications

**General**

Model number 2405FPW

**Flat Panel**

Screen type Active matrix - TFT LCD

Screen dimensions 24 inches (24-inch diagonal viewable image size)

Preset display area:

- Horizontal 518.4 mm (20.4 inches)
- Vertical 324.0 mm (12.7 inches)

Pixel pitch 0.270 mm

Viewing angle +/- 89° (vertical) typ, +/- 89° (horizontal) typ

Luminance output 500 cd/m² (typ)

Contrast ratio 1000:1 (typ)

Faceplate coating Antiglare with hard-coating 3H

Backlight 6 CCFLs U-type backlight

Response Time 12ms typical (Grey to Grey) / 16ms typical (Black to White)

**Resolution**

Horizontal scan range 30 kHz to 81 kHz (automatic)

Vertical scan range 56 Hz to 76 Hz, exception 1680 x 1200 & 1920 x 1200 at 60 Hz only

Optimal preset resolution Analog: 1920 x 1200 at 60 Hz (VESA CVT-R Mode)
    Digital: 1920 x 1200 at 60 Hz (VESA CVT-R Mode)

Highest preset resolution Analog: 1920 x 1200 at 60 Hz (VESA CVT-R Mode)
    Digital: 1920 x 1200 at 60 Hz (VESA CVT-R Mode)

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

**Preset Display Modes**

<table>
<thead>
<tr>
<th>Display Mode</th>
<th>Horizontal Frequency (kHz)</th>
<th>Vertical Frequency (Hz)</th>
<th>Pixel Clock (MHz)</th>
<th>Sync Polarity (Horizontal/Vertical)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>Voltage</td>
<td>Current</td>
<td>Power Consumption</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>---------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>VGA, 720 x 400</td>
<td>31.5</td>
<td>70.1</td>
<td>28.3 +/-</td>
<td></td>
</tr>
<tr>
<td>VGA, 640 x 480</td>
<td>31.5</td>
<td>59.9</td>
<td>25.2 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 640 x 480</td>
<td>37.5</td>
<td>75.0</td>
<td>31.5 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 800 x 600</td>
<td>37.9</td>
<td>60.3</td>
<td>40.0 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 800 x 600</td>
<td>46.9</td>
<td>75.0</td>
<td>49.5 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1024 x 768</td>
<td>48.4</td>
<td>60.0</td>
<td>65.0 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1024 x 768</td>
<td>60.0</td>
<td>75.0</td>
<td>78.8 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1152 x 864</td>
<td>67.5</td>
<td>75.0</td>
<td>108.0 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1280 x 1024</td>
<td>64.0</td>
<td>60.0</td>
<td>108.0 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1280 x 1024</td>
<td>80.0</td>
<td>75.0</td>
<td>135.0 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1600 x 1200</td>
<td>75.0</td>
<td>60.0</td>
<td>162.0 +/-</td>
<td></td>
</tr>
<tr>
<td>VESA, 1920 x 1200</td>
<td>74.0</td>
<td>60.0</td>
<td>154.0 +/-</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical**

**Video input signals**
- Analog RGB: 0.7 Volts +/-5%, 75 ohm input impedance
- Digital DVI-D TMDS: 600mV for each differential line, 50 ohm input impedance
- S-video: Y input 1 volt(p-p), C input 0.286 volt(p-p), 75 ohm input impedance
- Composite: 1 volt(p-p), 75 ohm input impedance
- Component: Y, Pb, Pr are all 0.5~1volt(p-p), 75 ohm input impedance

**Synchronization input signals**
- separate horizontal and vertical, 3.3V Cmos or 5V TTL level, positive or negative sync
- SOG (Sync on green)

**AC input voltage / frequency / current**
- 100 to 240 VAC / 50 or 60 Hz ± 3 Hz / 2.0A (Max.)
- 120V: 40A (Max.)
- 240V: 80A (Max.)

**Physical Characteristics**

**Signal cable type**
- D-sub: Detachable, Analog, 15pin, shipped attached to the monitor
- DVI-D: Detachable, Digital, 24pin, shipped detached from the monitor
- S-video: Not included with display
- Composite: Not included with display
- Component: Not included with display

**Dimensions (with stand):**
- Height (fully extended in portrait mode): 642.7 mm (25.3 inches)
- Height (compressed/locked in landscape mode): 546.8 mm (21.5 inches)
- Width: 559.4 mm (22.0 inches)
- Depth: 229.0 mm (9.0 inches)

**Weight**
- Monitor (Stand and Head): 10.0 kg (22.1 lb)
- Monitor Flat panel only (VESA Mode): 7.0 kg (15.4 lb)
- Weight with packaging: 13.2 kg (29.1 lb)

**Environmental**

**Temperature:**
- Operating: 5° to 35°C (41° to 95°F)
- Nonoperating: Storage: 0° to 60°C (32° to 140°F)
- Shipping: -20° to 60°C(-4° to 140°F)
Humidity:
- Operating: 10% to 80% (noncondensing)
- Nonoperating: Storage: 5% to 90% (noncondensing), Shipping: 5% to 90% (noncondensing)

Altitude:
- Operating: 3,657.6 m (12,000 ft) max
- Nonoperating: 12,192 m (40,000 ft) max

Thermal dissipation:
- 272.8 BTU/hour (maximum)
- 201.2 BTU/hour (typical)

### Power Management Modes

If you have VESA’s DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as ‘Power Save Mode’*. If input from keyboard, mouse or other input devices is detected by the computer, the monitor will automatically “wake up”. The following table shows the power consumption and signaling of this automatic power saving feature:

<table>
<thead>
<tr>
<th>VESA Modes</th>
<th>Horizontal Sync</th>
<th>Vertical Sync</th>
<th>Video Power Indicator</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal operation</td>
<td>Active</td>
<td>Active</td>
<td>Active</td>
<td>Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>59 W (normal)**</td>
</tr>
<tr>
<td>Active-off mode</td>
<td>Inactive</td>
<td>Inactive</td>
<td>Blanked</td>
<td>Amber</td>
</tr>
<tr>
<td>Switch off</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Off</td>
</tr>
</tbody>
</table>

* With Audio + USB
** Without Audio + USB

**NOTE:** The **OSD** will only function in the ‘normal operation’ mode. Otherwise one of the following messages will appear depending upon the selected input:

1: D-SUB
   - In Power Save Mode
   - Press computer power button
   - or any key on keyboard or move mouse

2: DVI-D
   - In Power Save Mode
   - Press computer power button
   - or any key on keyboard or move mouse

Activate the computer and wake up the monitor to gain access to the **OSD**.

### Pin Assignments

**VGA Connector**

<table>
<thead>
<tr>
<th>Pin Number</th>
<th>15-pin Side of the Connected Signal Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Video-Red</td>
</tr>
<tr>
<td>2</td>
<td>Video-Green</td>
</tr>
<tr>
<td>3</td>
<td>Video-Blue</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
</tr>
<tr>
<td>5</td>
<td>Self-test</td>
</tr>
<tr>
<td>6</td>
<td>GND-R</td>
</tr>
<tr>
<td>7</td>
<td>GND-G</td>
</tr>
<tr>
<td>8</td>
<td>GND-B</td>
</tr>
<tr>
<td>9</td>
<td>Computer 5V/3.3V</td>
</tr>
<tr>
<td>10</td>
<td>GND-sync</td>
</tr>
<tr>
<td>11</td>
<td>GND</td>
</tr>
</tbody>
</table>
### DVI Connector

<table>
<thead>
<tr>
<th>Pin Number</th>
<th>24-pin Side of the Connected Signal Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TMDS RX2-</td>
</tr>
<tr>
<td>2</td>
<td>TMDS RX2+</td>
</tr>
<tr>
<td>3</td>
<td>TMDS Ground</td>
</tr>
<tr>
<td>4</td>
<td>Floating</td>
</tr>
<tr>
<td>5</td>
<td>Floating</td>
</tr>
<tr>
<td>6</td>
<td>DDC Clock</td>
</tr>
<tr>
<td>7</td>
<td>DDC Data</td>
</tr>
<tr>
<td>8</td>
<td>Floating</td>
</tr>
<tr>
<td>9</td>
<td>TMDS RX1-</td>
</tr>
<tr>
<td>10</td>
<td>TMDS RX1+</td>
</tr>
<tr>
<td>11</td>
<td>TMDS Ground</td>
</tr>
<tr>
<td>12</td>
<td>Floating</td>
</tr>
<tr>
<td>13</td>
<td>Floating</td>
</tr>
<tr>
<td>14</td>
<td>+5V / +3.3V power</td>
</tr>
<tr>
<td>15</td>
<td>Self test</td>
</tr>
<tr>
<td>16</td>
<td>Hot Plug Detect</td>
</tr>
<tr>
<td>17</td>
<td>TMDS RX0-</td>
</tr>
<tr>
<td>18</td>
<td>TMDS RX0+</td>
</tr>
<tr>
<td>19</td>
<td>TMDS Ground</td>
</tr>
<tr>
<td>20</td>
<td>Floating</td>
</tr>
<tr>
<td>21</td>
<td>Floating</td>
</tr>
<tr>
<td>22</td>
<td>TMDS Ground</td>
</tr>
<tr>
<td>23</td>
<td>TMDS Clock+</td>
</tr>
<tr>
<td>24</td>
<td>TMDS Clock-</td>
</tr>
</tbody>
</table>

### S-video Connector
<table>
<thead>
<tr>
<th>Pin Number</th>
<th>5-pin Side of the Connected Signal Cable (Cable not included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GND</td>
</tr>
<tr>
<td>2</td>
<td>GND</td>
</tr>
<tr>
<td>3</td>
<td>LUMA</td>
</tr>
<tr>
<td>4</td>
<td>CHROMA</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
</tbody>
</table>

**Composite Video Connector**

**Component Video Connector**

<table>
<thead>
<tr>
<th>Pin Number</th>
<th>1-pin Side of the Connected Signal Cable (cable not included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LUMA COMPOSITE CHROMA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin Number</th>
<th>3-pin Side of the Connected Signal Cable (Cable not included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Y (Luminance signal)</td>
</tr>
<tr>
<td>2</td>
<td>Pb (Color differential signal)</td>
</tr>
<tr>
<td>3</td>
<td>Pr (Color differential signal)</td>
</tr>
</tbody>
</table>

**Universal Serial Bus (USB) Interface**

This monitor supports High-Speed Certified USB 2.0 interface.

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>High speed</td>
<td>480 Mbps</td>
</tr>
<tr>
<td></td>
<td>2.5W (Max., each port)</td>
</tr>
<tr>
<td>Full speed</td>
<td>12 Mbps</td>
</tr>
<tr>
<td></td>
<td>2.5W (Max., each port)</td>
</tr>
<tr>
<td>Low speed</td>
<td>1.5 Mbps</td>
</tr>
<tr>
<td></td>
<td>2.5W (Max., each port)</td>
</tr>
</tbody>
</table>

**USB Upstream Connector**
<table>
<thead>
<tr>
<th>Pin Number</th>
<th>4-pin Side of the connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DMU</td>
</tr>
<tr>
<td>2</td>
<td>VCC</td>
</tr>
<tr>
<td>3</td>
<td>DPU</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
</tr>
</tbody>
</table>

### USB Downstream Connector

<table>
<thead>
<tr>
<th>Pin Number</th>
<th>4-Pin Side of the Signal Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VCC</td>
</tr>
<tr>
<td>2</td>
<td>DMD</td>
</tr>
<tr>
<td>3</td>
<td>DPD</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
</tr>
</tbody>
</table>

### USB Ports

- 1 upstream - rear
- 4 downstream - 2 on rear; 2 on right side

**NOTE:** USB 2.0 capability requires 2.0-capable computer

**NOTE:** The monitor's USB interface works only when the monitor is on or in power save mode. If you switch the monitor off and then on, attached peripherals may take a few seconds to resume normal functionality.

---

### Card Reader Specifications

#### Overview

- The Flash Memory Card Reader is a USB storage device that allows users to read and write information from and into the memory card.
- The Flash Memory Card Reader is automatically recognized by Windows® 2000 and XP.
- Once installed and recognized, each separate memory card (slot) appears as a separate drive/drive letter.
- All standard file operations (copy, delete, drag-and-drop, etc.) can be performed with this drive.

#### Features

The Flash Memory Card Reader has the following features:

- Supports Windows 2000 and XP operating systems
- No Windows 9X support from Dell
- Mass Storage Class device (No drivers are required under Windows 2000 and XP)
- USB-IF certification
- Supports various memory card media

<table>
<thead>
<tr>
<th>Slot Number</th>
<th>Flash memory cards type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CompactFlash type I/II Card (CF I/II)/ MicroDrive (MD)</td>
</tr>
<tr>
<td>2</td>
<td>SmartMedia Card (SMC)</td>
</tr>
<tr>
<td>3</td>
<td>Memory Stick Card (MS) / Memory Stick Pro Card (MS PRO) / Memory Stick Duo (with Adapter)</td>
</tr>
<tr>
<td>4</td>
<td>Secure Digital Card (SD)/ MultiMediaCard (MMC)/ Mini Secure Digital (with Adapter)</td>
</tr>
</tbody>
</table>

**General**

**Connection type**
USB 2.0 High Speed Device (USB Full Speed Device compatible)

**Supported OS**
Windows 2000 and XP

**Performance**

**Transfer Speed**

- Read: 480 Mb/s (max.)
- Write: 480 Mb/s (max.)

**Dell™ Sound Bar (Optional) Specifications**

- **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 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

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor 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 monitor settings. If desired, the user can select different settings, but in most cases monitor installation is automatic.

Caring for Your Monitor

CAUTION: Read and follow the Safety Information before cleaning the monitor.

CAUTION: Before cleaning the monitor, unplug the monitor 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. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened, warm cloth to clean the plastics. Avoid using detergent of any kind as some detergents leave a milky film on the plastics.
- If you notice a white powder when you unpack your monitor, wipe it off with a cloth. This white powder occurs during the shipping of the monitor.
- Handle your monitor with care as darker-colored plastics may scratch and show white scuff marks more than lighter-colored monitor.

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Organizing Your Cables

1. Place the stand on a flat surface.
2. Fit the groove on the back of the monitor onto the three teeth of upper stand.
3. Lower the monitor so that the monitor mounting area snaps on/locks to stand.
After attaching all necessary cables to your monitor and computer, (See [Connecting Your Monitor](#) for cable attachment,) use the cable holder to neatly organize all cables as shown above.

### Using the Tilt, Swivel and Vertical Extension

#### Tilt/Swivel

With the built-in pedestal, you can tilt and/or swivel the monitor for the most comfortable viewing angle.

![Tilt and Swivel Illustration](image)

**NOTE:** Stand is detached and extended when the monitor is shipped from the factory.

#### Vertical Extension

Stand extends vertically up to 100mm via the stand lock release button.
**NOTE:** If locked in the down position, press the stand lock release button on the bottom rear of stand. Lift the front panel up and extend the stand to the desired height.

**NOTICE:** Before relocating/moving the monitor to a different location, make sure that the stand is LOCKED DOWN. To lock it down, lower the height of the panel until it clicks and is locked into place.

---

**Removing the Stand**

After placing the monitor panel on a soft cloth or cushion, press and hold the LCD removal button, and then remove the
NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a clean surface.
Setting Up Your Monitor
Dell™ 2405FPW Flat Panel Monitor

- Connecting Your Monitor
- Using the Front Panel Buttons
- Using the OSD
- Using the Dell™ Sound Bar (Optional)
- Using the Card Reader

Connecting Your Monitor

⚠️ **CAUTION:** Before you begin any of the procedures in this section, follow the Safety Information.

![Diagram of monitor connections](image)

1. Power cord connector
2. DC power connector for Dell™ Sound Bar
3. S-Video connector (cable not included)
4. Composite video connector (cable not included)
5. Component video (Y Pb Pr) connectors (cable not included)
Turn off your computer and disconnect the power cable.

Connect either the white (digital DVI-D) or the blue (analog D-sub) display connector cable to the corresponding video port on the back of your computer. Do not use both cables on the same computer. The only case in which both cables can be used is if they are connected to two different computers with appropriate video systems. (Graphics are for illustration only. System appearance may vary).

Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer.

Connect USB peripherals to the downstream USB ports (rear or side) on the monitor. (See rear or bottom view for details.)

Plug the power cables for your computer and monitor into a nearby outlet.

Turn on the monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, see Solving Problems.

Use the cable holder on the monitor stand to neatly organize the cables.

**NOTE:** If your computer does not support the DVI connector, you can leave the cable unconnected or remove it.

**NOTE:** For USB peripherals already connected to your computer, changing the USB connection to your monitor is not necessary.

---

### Using the Front Panel Buttons

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 OSD shows their numeric values as they change.

---

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
</table>

**Input select**

Use Input Select button to select between five different video signals that may be connected to your monitor.

1. VGA input
2. DVI-D input
3. S-Video input
4. Composite video input
5. Component video (Y Pb Pr) input

**NOTE:** VGA is referred to as D-SUB in the OSD

**NOTE:** The floating 'Dell™ - self-test Feature Check' dialog will also appear on-screen (against a black background) if the monitor cannot sense a video signal. Depending upon the selected input, one of the dialogs shown below will scroll continually.

**NOTE:** Self test feature check is not available for S-Video, Composite video and Component video (Y Pb Pr) modes.

**NOTE:** If VGA/DVI-D cable is unconnected, monitor automatically looks for VGA/DVI-D connection and indicates the "Self Test Feature Check" pattern on the screen for the disconnected port that was last used.
If it finds a cable connection with the computer, then it looks for activated VGA/DVI-D port on the computer and makes the selection for that port.

NOTE: If S-video/Composite video /Component video (Y Pb Pr) cable is not connected or the video source is turned off, the screen will be turned off, when any button except power button is pressed. The monitor displays “No Input Signal” for the corresponding connection.

Pressing PIP/PBP for the first time in sequence (PIP) will open “PIP Settings” Menu.

The details of the menu is as follows:

- **PIP Source** : To select an input signal for PIP. (VGA/DVI/S-video/Composite/Component)
  - Use [ ] and [ ] to choose and [ ] to select.
- **Swap** : To switch the main-screen and sub-screen in PIP mode.
  - Use [ ] and [ ] to choose and [ ] to select.
### PBP Settings:

- **PIP size**: To adjust the size of the PIP screen between "Small", "Medium", and "Large". Use - and + to choose and = to select.
- **Position**: Move the PIP window. Use - and + to choose and = to select.
- **Advanced Menu**: To adjust the detail menu of PIP Setting. See [PIP/PBP Settings](#).
  
Pressing PIP/PBP for the second time in sequence (PIP->PBP) will open "PBP Settings" Menu.

The details of the menu is as follows:

- **PBP Source**: To select an input signal for PBP. (VGA/DVI/S-video/Composite/Component)
  Use - and + to choose and = to select. The PBP active sub-screen is shown with "blue border" beside the main-screen on the right hand side.
- **Swap**: To switch the main-screen and sub-screen in PBP mode.
  Use - and + to choose and = to select.
- **Advanced Menu**: To adjust the detail menu of PIP Setting. See [PIP/PBP Settings](#).
  Use = to select.

---

### OSD menu & select

- The MENU button is used to open the on-screen display (OSD) and select the OSD Menu. See [Accessing the Menu System](#).

### Minus (-) and Plus (+)

- Use these buttons for navigating and adjusting the slider-bar (decrease/increase ranges) controls in the OSD.

### D

- Use this button to activate Brightness/Contrast adjustment.
  
  With the Menu off, push the = button to display the Brightness/Contrast adjustment menu.
Adjust Brightness first, then adjust Contrast only if further adjustment is necessary.

1. Navigate to the Brightness control function
2. Select using key.
3. Push the button to increase Brightness;
   push the button to decrease Brightness (min 0 ~ max 100).

The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.

1. Navigate to the Contrast control function
2. Select using key.
3. Push the button to increase the contrast;
   push the button to decrease the contrast (min 0 ~ max 100).

**NOTE:** When using '2: DVI-D Input', the contrast adjustment is not available.

### Using the OSD

#### Accessing the Menu System

1. With the menu off, push the MENU button to open the OSD system and display the main features menu.
2. Push the \( \text{and} \) 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 \( \text{or} \) to select the desired parameter, push menu to enter the slidebar then use the \( \text{and} \) buttons, according to the indicators on the menu, to make your changes.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Menu Name and Sub-menus</th>
<th>Description</th>
</tr>
</thead>
</table>

---

**Table:**
- **1:** Main Menu
  - Exit
  - Positioning
  - Image Settings
  - Color Settings
  - OSD Settings
  - Language
  - PIP/PBP
  - Audio
  - Factory Reset

- **Resolution:**
  - 1024x768 60Hz
  - 1280x1024 60Hz

- **PIP:** Not Enabled
EXIT

This is used to exit out of the Main menu.

Positioning:

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' (+).

<table>
<thead>
<tr>
<th>Exit</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal</td>
<td>50</td>
</tr>
<tr>
<td>Vertical</td>
<td>50</td>
</tr>
</tbody>
</table>

**NOTE:** When using '2: DVI-D', '3: S-video Input', '4: Composite', '5: Component video (Y Pb Pr)' the positioning adjustments are not available.

**NOTE:** Horizontal and Vertical OSD positioning adjusts with respect to landscape (default) or portrait display rotation when used in conjunction with OSD rotation feature. See OSD Settings for details.

Zoom

You can zoom out or in the image through the zoom function. If you want to focus on a small area of image, to zoom in the specific area will let you see the details easier. After activating the zoom in function, you can also move the zoom lens around through zoom left/right/up/down functions.

Using the and keys.

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.

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 (course) adjustment and then use Phase (fine), again.

**NOTE:** Pixel Clock and Phase Adjustments are only available for "VGA" input.
**Sharpness**

This feature can make the image look sharper or softer. Use or to toggle between the 5 settings. Settings 1 to 5 will make the image look softer or sharper.

**NOTE:** Sharpness is only available for "S-video" and "Composite" modes. This function is not available in "VGA" or "DVI-D" modes.

**Scaling**

Scaling optimizes the display for the type of software you are using. Includes ‘1:1’, ‘fill’ and ‘aspect’.

- a. 1:1: Turns off Scaling feature and displays an image size based on the input resolution.
- b. Fill: Image size up-scaled to fill the entire screen, image maybe distorted or elongated due to non-proportional scaling of height and width.
- c. Aspect: Increases Vertical image size to fit screen and adjusts Horizontal size to maintain proportional image.

Using and to scroll through the 3 alternatives ‘1:1’, ‘fill’ and ‘aspect’.

**NOTE:** “Auto Adjust” will produce the best image for your configuration.

**Video Mode**

Turning video mode "On" reveals the true to reality crisp video images using S-video and Composite video inputs. You can choose between "On" and "Off".

On: Displays optimum video image by automatically enhancing colors in the brighter color patterns with brighter background video and darker color patterns in the darker backer background video. The setting is set to "On" by default.

Off: Displays the standard colors as relayed by the video source.

**Color Settings:**

Color Settings adjusts the color temperature, color hue and saturation.

The color hue is most noticeable in areas of white.
PC standard preset is selected to obtain the default (factory) color settings.

Mac standard preset is selected to obtain Mac default color settings.

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 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: 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 Timer:**
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.

**Transparency:**
Select this menu item with the help of - , + and button. This function is used to adjust the OSD background from opaque to transparent.

**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.

**OSD Rotation:**
OSD Rotation: Rotates the OSD by 90 ° counter-clockwise. You can adjust according to your Display Rotation.

**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.

**NOTE:** You can also lock or unlock the OSD by pushing and holding the Menu button for 15 seconds. In this mode All buttons will be locked including the "Menu" button. You can unlock by pushing and holding the Menu button for 15 seconds.

**NOTE:** In case PIP/PBP on, OSD will not Locked.

**Language:**
Language sets the OSD to display in one of five languages (English, Español, Français, Deutsch, Japanese).
## PIP/PBP Settings

The functions can bring up a picture of second image source. Thus you can watch 2 images from different sources at the same time.

### Mode
There are two sources: PIP (Picture in Picture) and PBP (Picture by Picture).

Use [←] and [→] to browse and [↑] to select "Off", "PIP", or "PBP". The "Off" item means the PIP/PBP window will be closed.

### When selected PIP

#### PIP Source:
To select an input signal for PIP. (VGA/DVI/S-video/Composite)

Use [←] and [→] to browse and [↑] to select.

#### Swap:
To switch the main-screen and sub-screen in PIP mode.

#### PIP size:
To adjust the size of the PIP screen.

Use [←] and [→] to browse and [↑] to select.

#### Position:
Move the PIP window.

Use [←] and [→] to browse and [↑] to select.

### When selected PBP

#### PIP Source:
To select an input signal for PBP. (VGA/DVI/S-video/Composite/Component)

Use [←] and [→] to select.

#### Swap:
To switch the main-screen and sub-screen in PBP mode.

#### Brightness:
Adjust the brightness level of the picture in PIP/PBP Mode.

- [↓] decreases the brightness
- [↑] increases the brightness

#### Contrast:
Adjust the contrast level of the picture in PIP/PBP Mode.

- [↓] decreases the contrast
- [↑] increases the contrast

NOTE: The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.
**Hue/Tint:**
This function makes color shift of PIP/PBP image to green or purple. This is used to adjust for desired flesh tone color.
- makes image shade into green
- makes image shade into purple

**Saturation:**
Adjust the color saturation of PIP/PBP image.
- makes the image looks more monochrome
- makes the image looks more colorful

**NOTE:** The sub-menu adjusts per the type of the input signal.

---

**Audio**
Audio for the Dell™ Sound Bar (Optional) can be turned on or off when the monitor is 'Power Saving' mode.
- **Yes:** Enables Audio to be turned on when computer is in Power Saving mode.
- **No:** Disables Audio to be turned on when computer is in Power Saving mode (Default Condition)

**NOTE:** When Dell™ Sound Bar is not properly connected to the monitor, the audio menu is not available.
Automatic Save

With the OSD on, 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

<table>
<thead>
<tr>
<th>Reset to Factory Settings</th>
<th>Exit leaves this submenu without resetting any values.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Position Settings resets the settings only for horizontal/vertical Position.</td>
</tr>
<tr>
<td></td>
<td>Color Settings resets the Red, Green and Blue Color Control settings to their original factory settings and sets to the default setting of Normal Preset.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

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.

OSD Warning Messages

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

Cannot Display this 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 Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920 X 1200 @ 60Hz.

When monitor get into Power Save mode, one of the following messages will appear depending upon the selected input.

1: D-SUB
   In power save mode
   Press computer power button
   or any key on keyboard or move mouse
   Activate the computer and wake up the monitor to gain access to the OSD

2: DVI-D
   In power save mode
   Press computer power button
   or any key on keyboard or move mouse
   Activate the computer and wake up the monitor to gain access to the OSD

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

Depending upon the selected input, one of the dialogs shown below appear.
NOTE: When the cable is connected back to the input of the monitor, any active PIP/PBP window will disappear. Please press PIP/PBP select key to bring back the PIP/PBP window.

When the monitor does not sense the selected video input, one of the following messages will appear depending upon the selected input as long as you press any button other than power button.

- 3: S-VIDEO
  - No input signal

- 4: COMPOSITE
  - No input signal

- 5: COMPONENT
  - No input signal

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.

In PIP/PBP mode, when the monitor does not sense the selected second signal input, one of the following messages will appear depending upon the selected input as long as the OSD screen is closed.

- 1. VGA
  - No input signal
  - No Cable
  - Can not display this mode

- 2. DVI
  - No input signal
  - No Cable

- 3. S-VIDEO
  - No input signal

- 4. Composite Video
  - No input signal

- 5. Component Video (Y Pb Pr)
  - No input signal

See Solving Problems for more information.

Using the Dell™ Sound Bar (Optional)

The Dell™ Sound Bar is a four-speaker, two-channel system adaptable to mount on Dell™ Flat Panel Displays. The Sound Bar has a rotary volume and on/off control to adjust the overall system level, a green LED for power indication, and two audio headset jacks.
1. Attach mechanism
2. Headphone connectors
3. Power indicator
4. Power/Volume control

**Sound Bar Attachment to the Monitor**
NOTE: Sound Bar Power Connector - 12V DC output is for optional Dell™ Sound Bar only.

NOTICE: DO NOT USE WITH ANY DEVICE OTHER THAN DELL SOUND BAR.

1. Working from the rear of the monitor, attach Sound Bar by aligning the two slots with the two tabs along the bottom rear of the monitor.
2. Slide the Sound Bar to the left until it snaps into place.
3. Connect the sound Bar with the DC power connector.
4. Insert the lime green mini stereo plug from the rear of the Sound Bar into the computer's audio output jack.

## Using the Card Reader

### Installation (Windows® 2000 and XP)

- The Flash Memory Card Reader adheres to the USB Mass Storage Class specifications.
- Windows 2000 and XP recognize this class of devices (Plug-and-Play) and work with them automatically.

### Operation

- After the Flash Memory Card Reader is connected to the computer via USB upstream cable (included with the monitor), four removable disks are displayed in Windows Explorer. Drives can be used just like any other drive in Windows.

- Simply insert the memory card into the appropriate card slot.

See [Card Reader Specifications](#) for more information.

- The drive is ready for use.

[Back to Contents Page]
Setting Up Your Monitor
Dell™ 2405FPW Flat Panel Monitor

Important instructions and graphic drivers to set the display resolution to 1920x1200 (Optimal)

For optimal display performance while using the Microsoft Windows® operating systems, set the display resolution to 1920 x 1200 pixels by performing the following steps:

1. Right-click on the desktop and click Properties.
2. Select the Settings tab.
3. Move the slider-bar to the right by pressing and holding left-mouse button and adjust the screen resolution to 1920x1200.
4. Click OK.

If you do not see 1920x1200 as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

1: If you have a Dell™ desktop with no internet access.
2: If you have a Dell™ desktop or a Dell™ portable computer with internet access.
3: If you have non Dell™ desktop, portable computer, or graphic card.
Rotating Your Monitor

Dell™ 2405FPW Flat Panel Monitor

Changing the Rotation of Your Monitor

Before you rotate the monitor, your monitor should either be vertically extended (Vertical Extension) or tilted (Tilt) to avoid hitting the bottom edge of the monitor.

In locked/down position tilt upwards, so that lower edge of monitor clears the stand and then rotate the monitor clockwise until the monitor stops at 90 °.

In the extended position rotate clockwise until the monitor stops at 90 °.

**NOTE:** To take advantage of the "Display Rotation" function (Landscape versus Portrait view) an updated graphics driver is required for your Dell™ Computer not included with this monitor. Please download the graphics driver from support.dell.com and refer to the "download" section for "Video Drivers" for latest driver updates.

**NOTE:** When in "Portrait View Mode", you may experience performance degradation in graphic-intensive applications (3D Gaming etc.)

Rotating Your Operating System

After you have rotated your monitor, you need to complete the procedure below to rotate your operating system.

**NOTE:** If you are using the monitor with a non-Dell™ computer, you need to go the graphics driver website or your computer manufacturer website for information on rotating your operating system.

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab and click **Advanced**.
3. If you have ATI, select the **Rotation** tab and set the preferred rotation.
   - If you have nVidia, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
   - If you have Intel, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.

**NOTE:** If you do not see the rotation option or it is not working correctly, go to support.dell.com and download the latest driver for your graphics card.
Solving Problems
Dell™ 2405FPW Flat Panel Monitor

Monitor Specific Troubleshooting

Self-Test Feature Check (STFC)

Your monitor provides a self-test feature that allows you to check whether 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 both Digital (white connector) and the Analog (blue connector) cables 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. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

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.

NOTE: Self test feature check is not available for S-Video, Composite video and component video (Y Pb Pr) modes.

OSD Warning Messages

For OSD-related issues, see OSD Warning Messages

Common Problems

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

<table>
<thead>
<tr>
<th>COMMON SYMPTOMS</th>
<th>WHAT YOU EXPERIENCE</th>
<th>POSSIBLE SOLUTIONS</th>
</tr>
</thead>
</table>
| No Video/ Power LED off | No picture, monitor is dead | - Check connection integrity at both ends of the video cable  
- Electric outlet verification  
- Ensure power button depressed fully |
### Video Problems

<table>
<thead>
<tr>
<th>COMMON SYMPTOMS</th>
<th>WHAT YOU EXPERIENCE</th>
<th>POSSIBLE SOLUTIONS</th>
</tr>
</thead>
</table>
| No Video        | No signal indicator is displayed | - Check Video Input Selection  
  - Composite: Yellow colored RCA jack  
  - S-Video: Typically a round 4 pin jack  
  - Component: Red, Blue, Green colored RCA jacks |
| Poor Focus      | Picture is fuzzy, blurry or ghosting | - Push Auto Adjust button  
  - Adjust Phase and Clock controls via OSD  
  - Perform monitor reset  
  - Lower video resolution or increase font size |
| Shaky/Jittery Video | Wavy picture or fine movement | - Push Auto Adjust button  
  - Adjust Phase and Clock controls via OSD  
  - Perform monitor reset  
  - Check environmental factors  
  - Relocate and test in another room |
| Missing Pixels  | LCD screen has spots | - 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 | - 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 | - Perform monitor reset on "All Settings"  
  - Push Auto Adjust button  
  - Adjust brightness & contrast controls |
| Geometric Distortion | Screen not centered correctly | - Perform monitor reset on "Position Settings Only"  
  - Push auto-adjust button  
  - Adjust the centering controls  
  - Ensure monitor is in proper video mode |
| Horizontal/Vertical Lines | Screen has one or more lines | - Perform monitor reset on "All Settings"  
  - 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 |
| Sync Problems   | Screen is scrambled or appears torn | - Perform monitor reset on "All Settings"  
  - 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 |
| LCD Scratched   | Screen has scratches or smudges | - Turn monitor off and clean the screen  
  - For cleaning instruction, see Caring for Your Monitor. |
| Safety Related Issues | Visible signs of smoke or sparks | - Do not perform any troubleshooting steps  
  - Monitor needs to be replaced |
| Intermittent Problems | Monitor malfunctions on & off | - Ensure monitor is in proper video mode  
  - Ensure video cable connection to computer and to the flat panel is secure  
  - Perform monitor reset on "All Settings"  
  - Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode |
| Missing Color   | Picture missing color | - Perform monitor self-test feature check  
  - Check connection integrity at both end of the video cable  
  - Check for bent or broken pins |
| Wrong Color     | Picture color not good | - Change the color to "User Preset"  
  - Adjust R/G/B value of "User Preset" |
### Product Specific Problems

<table>
<thead>
<tr>
<th>SPECIFIC SYMPTOMS</th>
<th>WHAT YOU EXPERIENCE</th>
<th>POSSIBLE SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen image is too small</td>
<td>Image is centered on screen, but does not fill entire viewing area</td>
<td>• Perform monitor reset on &quot;All Settings&quot;</td>
</tr>
<tr>
<td>Cannot adjust the monitor with the buttons on the front panel</td>
<td>OSD does not appear on the screen</td>
<td>• Turn the monitor off and unplug the power cord and then plug back and power on</td>
</tr>
<tr>
<td>The monitor will not go into power saving mode.</td>
<td>No picture, the LED light is green. When press &quot;+&quot;, &quot;-&quot; or &quot;Menu&quot; key, the message &quot;No input signal&quot; will appear.</td>
<td>• Move mouse or hit any key on the keyboard on the computer or activate video player, then access the OSD to set both Audio/Video to &quot;off&quot; state.</td>
</tr>
<tr>
<td>No Input Signal when user controls pressed</td>
<td>No picture, the LED light is green. When press &quot;+&quot;, &quot;-&quot; or &quot;Menu&quot; key, the message &quot;No input signal&quot; will appear.</td>
<td>• Check the signal source. Make sure the Computer is not in power saving by moving mouse or pressing any key on the keyboard. • Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media. • Check whether the signal cable is plugged in and seated properly. Re-plug the signal cable if necessary. • Re-boot the computer or video player.</td>
</tr>
<tr>
<td>The monitor will not fill the entire screen.</td>
<td>The picture can't fill the height or width of the screen.</td>
<td>• Due to the non-standard formats of DVDs, the monitor may not show the full screen pictures.</td>
</tr>
</tbody>
</table>

**NOTE:** When choosing S-Video, Composite video, Component video (Y Pb Pr), **Auto Adjust** hot key function is not available.

### Universal Serial Bus (USB) Specific Problems

<table>
<thead>
<tr>
<th>SPECIFIC SYMPTOMS</th>
<th>WHAT YOU EXPERIENCE</th>
<th>POSSIBLE SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB interface is not working</td>
<td>USB peripherals are not working</td>
<td>• Check that your monitor is powered ON. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Switch off and then turn on the monitor again. • Reboot the computer.</td>
</tr>
<tr>
<td>High Speed USB 2.0 interface is slow.</td>
<td>High Speed USB 2.0 peripherals working slowly or not at all.</td>
<td>• Check that your computer is USB 2.0 capable. • Verify USB 2.0 source on your computer. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Reboot the computer.</td>
</tr>
</tbody>
</table>

### Dell™ Sound Bar (Optional) Troubleshooting

<table>
<thead>
<tr>
<th>COMMON SYMPTOMS</th>
<th>WHAT YOU EXPERIENCE</th>
<th>POSSIBLE SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Sound</td>
<td>No power to Sound Bar - the power indicator is off. (built-in DC power supply. i.e. 240SFPW)</td>
<td>• Turn the Power/Volume knob on the Sound Bar clockwise to the middle position; check if the power indicator (green LED) on the front of the Sound Bar is illuminated. • Confirm that the power cable from the Sound Bar is plugged into the monitor. • Confirm that the monitor has power. • If the monitor has no power, see <strong>Monitor Specific Troubleshooting</strong> for monitor common problem.</td>
</tr>
</tbody>
</table>
No Sound

- Sound Bar has power - power indicator is on.
- 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 Sound Bar clockwise to a higher volume setting.
- Clean and reseat the audio line-in plug.
- Test the Sound Bar using another audio source (i.e. portable CD player).

Distorted Sound

- Computer's sound card is used as the audio source.
- Confirm that the audio line-in plug is completely inserted into the jack of the sound card.
- Decrease the volume of the audio application.
- Turn the Power/Volume knob on the Sound Bar counter-clockwise to a lower volume setting.
- Clean and reseat the audio line-in plug.
- Test the Sound Bar using another audio source (i.e. portable CD player).

Distorted Sound

- Other audio source is used.
- Clear any obstructions between the Sound Bar and the user.
- Confirm that the audio line-in plug is completely inserted into the jack of the audio source.
- Turn the Power/Volume knob on the Sound Bar counter-clockwise to a lower volume setting.
- Clean and reseat the audio line-in plug.

Unbalanced Sound Output

- Sound from only one side of Sound Bar.
- Clear any obstructions between the Sound Bar 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 reseat the audio line-in plug.
- Test the Sound Bar using another audio source (i.e. portable CD player).

Low Volume

- Volume is too low.
- Clear any obstructions between the Sound Bar and the user.
- Turn the Power/Volume knob on the Sound Bar clockwise to the maximum volume setting.
- Set all Windows volume controls to their maximum.
- Increase the volume of the audio application.
- Test the Sound Bar using another audio source (i.e. portable CD player).

Card Reader Troubleshooting

**NOTICE:** Do not remove the device while reading or writing media. Doing so may cause loss of data or malfunction in the media.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Drive letter is not assigned. (Windows XP only) | Conflict with network drive letter. | A. Right-click **My Computer** on the desktop, and then click **Manage**. Under **Computer Management**, click **Desk Management**.  
B. In the list of drives in the right panel, right-click **Removable Device** and then click **Change Drive Letter and Paths**.  
C. Click **Change**, and in the drop-down box, specify a drive letter for the **Removable Device**, choosing one that is not assigned to the mapped network drives.  
D. Click **OK**, and then click **OK** again. |
| Drive letter is assigned, but the media is not accessible | The media needs reformatting. | Right-click the drive in Explorer and choose **Format** from the resulting menu. |
| The media has been ejected during writing or erasing. | Displays the error message, "Error copying file or folder." Displays the error message, "Cannot write folder (folder name) or file (file name)," during writing, or, "Cannot remove folder (folder name) or file(file name)." While erasing, you cannot write or erase in the same folder or file name. | Reinsert the media and write or erase again. Format the media for writing or erasing the same folder or file name. |
| Despite the disappearance of the pop-up window, the media has been ejected while the LED was blinking. | Although the pop-up window disappears during writing, if you eject your media while the LED is still blinking, then you cannot complete your action on the media. | Format the media for writing or erasing the same folder or file name. |
| Cannot format or write on the | | Verify that the write- protect switch of the |
media.

Write protect switch is enabled.

media is unlocked.
Appendix

Dell™ 2405FPW Flat Panel Monitor

- Warranty Information
- Safety Information
- Safety Information: Card Reader
- Contacting Dell™
- Regulatory Notices
- Your Monitor Set-up Guide

Warranty Information

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 https://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.
Limited Warranties and Return Policy

Dell™-branded hardware products purchased in the U.S. or Canada come with either a 90-day, one-year, two-year, three-year, or four-year limited warranty. To determine which warranty you purchased, see the invoice that accompanied your hardware product(s). The following sections describe the limited warranties and return policy for the U.S., the limited warranties and return policy for Canada, and the manufacturer guarantee for Latin America and the Caribbean.

Limited Warranty for the U.S.

What is covered by this limited warranty?
This limited warranty covers defects in materials and workmanship in your—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 products and accessories
- Problems that result from:
  - External causes such as accident, abuse, misuse, or problems with electrical power
  - Servicing not authorized by us
  - 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 us
- Products with missing or altered service tags or serial numbers
- Products for which we have 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 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 invoice, except that the limited warranty on Dell™-branded batteries lasts only one year and the limited warranty on the lamps for Dell™-branded projectors lasts only ninety days. The limited warranty begins on the date of the 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 number or order number available.

<table>
<thead>
<tr>
<th>Individual Home Consumers:</th>
<th>U.S. Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Support</td>
<td>1-800-624-9896</td>
</tr>
<tr>
<td>Customer Service</td>
<td>1-800-624-9897</td>
</tr>
<tr>
<td>Individual Home Consumers who purchased through an Employee Purchase Program:</td>
<td></td>
</tr>
<tr>
<td>Technical Support and Customer Service</td>
<td>1-800-822-8965</td>
</tr>
<tr>
<td>Home and Small Business Commercial Customers:</td>
<td></td>
</tr>
<tr>
<td>Technical Support and Customer Service</td>
<td>1-800-456-3355</td>
</tr>
<tr>
<td>Medium, Large, or Global Commercial Customers, Healthcare Customers, and Value Added Resellers (VARs):</td>
<td></td>
</tr>
<tr>
<td>Technical Support and Customer Service</td>
<td>1-800-822-8965</td>
</tr>
<tr>
<td>Government and Education Customers:</td>
<td></td>
</tr>
<tr>
<td>Technical Support and Customer Service</td>
<td>1-800-234-1490</td>
</tr>
<tr>
<td>Dell™-Branded Memory</td>
<td>1-888-363-5150</td>
</tr>
</tbody>
</table>
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 thirty days after we ship the replacement part to you. If we do not receive the original part within thirty 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.

What do I do if I am not satisfied?

We pride ourselves on our great customer service. If you are not satisfied with the service you receive under this limited warranty, please let us know. We have found that the best way to resolve issues regarding our limited warranty is to work together. If, after those discussions, you are still not satisfied, we believe arbitration is the most expeditious way to resolve your concerns. Therefore, 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) AGAINST DELL™ arising from or relating to this limited warranty, its interpretation, or the breach, termination, or validity thereof, the relationships which result from this limited warranty (including, to the full extent permitted by applicable law, relationships with third parties), 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 www.arb-forum.com/ or via telephone at 1-800-474-2371). The arbitration will be limited solely to the dispute or controversy between you and Dell™. 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. Information may be obtained and claims may be filed with the NAF at P.O. Box 50191, Minneapolis, MN 55405. This provision applies only to individual home consumers and consumers who purchased through an employee purchase program. It does not apply to small, medium, large, and global commercial customers or government, education, and healthcare customers.

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:
Total Satisfaction Return Policy (U.S. Only)

We value our relationship with you and want to make sure that you're satisfied with your purchases. That's 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 PowerEdge™, PowerConnect™ and 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).
  
  Non-defective 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 and/or software products may be returned within fourteen (14) days from 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, 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.

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 from 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.

Limited Warranty Terms for Canada
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 products and accessories
- Problems that result from:
  - External causes such as accident, abuse, misuse, or problems with electrical power
  - Servicing not authorized by us
  - 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 us
- Products with missing or altered service tags or serial numbers
- Products for which we have 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 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 invoice, except that the limited warranty on Dell™-branded batteries lasts only one year and the limited warranty on the lamps for Dell™-branded projectors lasts only ninety days. The limited warranty begins on the date of the 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 number or order number available.

<table>
<thead>
<tr>
<th>Individual Home Consumers; Home Office and Small Business Customers:</th>
<th>Canada Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Support and Customer Service</td>
<td>1-800-847-4096</td>
</tr>
</tbody>
</table>

| 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 |
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, 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 thirty days after we ship the replacement part to you. If we do not receive the original part within thirty 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 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. Dell™ owns all parts removed from repaired products.

What do I do if I am not satisfied?

We pride ourselves on our great customer service. If you are not satisfied with the service you receive under this limited warranty, please let us know. We have found that the best way to resolve issues regarding our limited warranty is to work together. If, after those discussions, you are still not satisfied, we believe arbitration is the most expeditious way to resolve your concerns. Therefore, 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) AGAINST DELL™ ARISING FROM OR RELATING TO THIS LIMITED WARRANTY, ITS INTERPRETATION, OR THE BREACH, TERMINATION OR VALIDITY THEREOF, OR RELATING TO THE RELATIONSHIP WHICH RESULT FROM THIS LIMITED WARRANTY (INCLUDING, TO THE FULL EXTENT PERMITTED BY APPLICABLE LAW, RELATIONSHIPS WITH THIRD PARTIES), 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 WWW.ARB-FORUM.COM/, OR VIA TELEPHONE AT 1-800-474-2371). THE ARBITRATION WILL BE LIMITED SOLELY TO THE DISPUTE OR CONTROVERSY BETWEEN YOU AND DELL™. 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. INFORMATION MAY BE OBTAINED AND CLAIMS MAY BE FILED WITH THE NAF AT P.O. BOX 50191, MINNEAPOLIS, MN 55405.

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 our website:

- If you are an Individual Home Consumer, go to www.dell.com/us/en/dhs/topics/sbtopic_016_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_016_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_016_ccare.htm

If you do not have Internet access, please call Dell™ at 1-800-326-9463.

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 of 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 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 1-800-387-5759 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 five 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 floppy disk(s) or CD(s) is unopened. Returned products must be in as-new condition, and all of the manuals, floppy disk(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™ invoice and/or the product documentation that accompanied your product. Descriptions of Dell™’s limited warranties are described in preceding sections.

Return Policy

If you are an end-user customer who bought Dell™ Software and Peripherals products directly from a Dell™ company, you may return Dell™ Software and Peripherals products that are in as-new condition to Dell™ up to 30 days from the date of invoice for a refund of the product purchase price if already paid. This refund will not include any shipping and handling charges shown on your invoice; you are responsible for those.

To return products, you must call Dell™ Customer Service at 1-800-387-5759 to receive a Credit Return Authorization Number. You must ship the Dell™ Software and Peripherals products back to Dell™ in their original manufacturer's packaging (which must be in as-new condition), prepay shipping charges, and insure the shipment or accept the risk of loss or damage during shipment.

To qualify for refund or replacement, returned products must be in as-new condition, software products must be unopened, and all of the manuals, floppy disk(s), CD(s), power cables, and other items included with a product must be returned with it.
One-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 one 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™ Computer Corporation
One Dell™ Way, Round Rock, TX 78682, USA

Dell™ Computadores do Brasil Ltda (CNPJ No. 72.381.189/0001-10)/
Dell™ Commercial do Brasil Ltda (CNPJ No. 03 405 822/0001-40)
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.

One-Year Dell™ Manufacturer End-User Guarantee (European Union, Norway, and Switzerland)

Guarantee
DELL™ Products, Raheen Industrial Estate, Limerick, Ireland (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 the European Union, Norway or Switzerland, will be free from defects in materials, workmanship and design affecting normal use, for a period of one year as of the original purchase date. Products for which proper claims are made will, at DELL™’s option, be repaired or replaced at DELL™’s expense.

**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 the European Union, Norway or Switzerland, by contacting the point of sale or any DELL™ office 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 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™ repair/replacement center. End-user must ensure defective product is available for collection properly packed in original or equally protective packaging together with 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.

**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.

Safety Information: Card Reader

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

- Read and understand all instructions before using the Flash Memory Card Reader.
- Never disassemble or touch the inside of this product. Such actions could result in electrical shock, fire, and/or malfunction.
- Do not insert fingers or any objects inside into the product. Such actions could cause injuries or result in electrical shock, fire, and/or malfunction.
- If the product produces noise or smoke, or if any substance is inside the product such as water, then turn the power off immediately and unplug the computer from the electrical outlet. Please contact an authorized customer support member, as there may be a risk of electrical shock, fire, and/or malfunction.
- Do not apply force when you insert the media into the product. This may cause the product to break or malfunction.

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.

<table>
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<th>Country (City) Code</th>
<th>International Access Code</th>
<th>Country Code</th>
<th>Department Name or Service Area, Website and E-Mail Address</th>
<th>Area Codes, Local Numbers, and Toll-Free Numbers</th>
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<td>Anguilla</td>
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<td>1-800-805-5924</td>
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<td>E-mail: <a href="mailto:us_latin_services@dell.com">us_latin_services@dell.com</a></td>
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<td>E-mail for desktop and portable computers:</td>
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<td><a href="mailto:la-techsupport@dell.com">la-techsupport@dell.com</a></td>
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<td>Australia (Sydney)</td>
<td>E-mail (Australia): <a href="mailto:au_tech_support@dell.com">au_tech_support@dell.com</a></td>
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<td>Government and Business</td>
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<td>Preferred Accounts Division (PAD)</td>
<td>toll-free: 1-800-060-889</td>
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<td>For servers and storage</td>
<td>toll-free: 1-800-505-095</td>
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<td>For desktop and portable computers</td>
<td>toll-free: 1-800-733-314</td>
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<td>Corporate Sales</td>
<td>toll-free: 1-800-808-385</td>
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<td>Transaction Sales</td>
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<td>Fax</td>
<td>toll-free: 1-800-818-341</td>
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<td>Austria (Vienna)</td>
<td>Website: <a href="http://support.euro.dell.com">support.euro.dell.com</a></td>
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Finland (Helsinki)
International Access Code: 990
Country Code: 358
City Code: 9
Website: support.euro.dell.com
E-mail: fin_support@dell.com
E-mail Support (servers): Nordic_support@dell.com
Technical Support 09 253 313 60
Technical Support Fax 09 253 313 81
Relational Customer Care 09 253 313 38
Home/Small Business Customer Care 09 693 791 94
Fax 09 253 313 99
Switchboard 09 253 313 00

France (Paris) (Montpellier)
International Access Code: 00
Country Code: 33
City Codes: (1) (4)
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
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### 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

### Korea (Seoul)
International Access Code: **001**
Country Code: **82**
City Code: **2**

### Latin America
Customer Technical Support (Austin, Texas, U.S.A.)
Customer Service (Austin, Texas, U.S.A.)
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<td>Website: support.euro.dell.com</td>
<td>00 352 342080875</td>
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<td>E-mail: <a href="mailto:tech_be@dell.com">tech_be@dell.com</a></td>
<td>or 00 352 34208070</td>
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Home/Small Business Fax 020 674 47 75  
Relational Sales Fax 020 674 47 50  
Switchboard Fax 020 674 47 50  
E-mail (New Zealand): nz_tech_support@dell.com  
E-mail (Australia): au_tech_support@dell.com  
Technical Support (for desktop and portable computers) 0800 443 563  
Technical Support (for servers and storage) 0800 505 098  
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  
Website: support.euro.dell.com  
E-mail Support (portable computers): nor_nbk_support@dell.com  
E-mail Support (desktop computers): nor_support@dell.com  
E-mail Support (servers): nordic_server_support@dell.com  
Technical Support 671 16882  
Relational Customer Care 671 17514  
Home/Small Business Customer Care 2316298  
Switchboard 671 16800  
Fax Switchboard 671 16865 |
| **Poland (Warsaw)** | General Support 0800-50-669  
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 |
<p>| <strong>Peru</strong>       | General Support 001-800-507-0962 |
| <strong>Portugal</strong>   | Website: support.euro.dell.com |</p>
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<td>Dell™ Outlet Store (Dell™ refurbished computers)</td>
<td>toll-free: 1-888-798-7561</td>
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<td>Software and Peripherals Sales</td>
<td>toll-free: 1-800-671-3355</td>
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<td>Spare Parts Sales</td>
<td>toll-free: 1-800-357-3355</td>
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<td>Extended Service and Warranty Sales</td>
<td>toll-free: 1-800-247-4618</td>
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<td>Fax</td>
<td>toll-free: 1-800-727-8320</td>
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<td>Dell™ Services for the Deaf, Hard-of-Hearing, or Speech-Impaired</td>
<td>toll-free: 1-877-DELLTTY</td>
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Regulatory Notices

TCO'03 (DualTone Gray 2405FPW)

If the display you have just purchased carries the TCO'03 display label:

This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

**Ergonomics**

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

**Energy**

- Energy-saving mode after a certain time - beneficial both for the user and the environment
- Electrical safety

**Emissions**

- Electromagnetic fields
- Noise emissions

**Ecology**

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14000
- Restrictions on
  - chlorinated and brominated flame retardants and polymers
  - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit www.tcodevelopment.com
If the display you have just purchased carries the TCO'99 display label:

You have just purchased a TCO'99 approved 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?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labeling of personal computers. The labeling 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: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer 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 computer shall be reasonable for the user.

Labeled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document 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 TCO?9 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 monitor is ENERGY STAR®-compliant.

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

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

![FCC Notice](image)

**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.

![Energy Star](image)
• 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 should be used.
2. Video inputs: The input signal amplitude must not exceed the specified level.

⚠️ **CAUTION:** 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)

2405FPW / DELL™ - BenQ
(Model No / Brand Name) (Basic Model)

* Manufactured at:
BenQ Corporation
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:
Compliance Engineering Services, Sunnyvale, CA, USA

* Responsible Party for Product Compliance:
BenQ Corporation
157, Shan-Ying Road, Gueishan, Taoyuan 333
Tel +886-3-3598800
Fax +886-3-3599000

* Manufacturer Information:
BenQ Corporation
157, Shan-Ying Road, Gueishan, Taoyuan 333

BenQ Co., Ltd.
New District 169 Zhujiang Rd Suzhou
Jiangsu, China

Products Regulatory Manager

Ray Huang

(place and date of issue) (name and signature of authorized person)
EU Declaration of Conformity (LVD, EMC)

For the following product:
COLOR MONITOR
(category name)

2405FPW
(model name)

Manufactured at:
BenQ Co., Ltd.
New District 169 Zhujiang Rd Suzhou Jiangsu, China

(factory name,address)

We hereby declare, that all major safety requirements, concerning to 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:

LVD : EN 60950:2000

1. Certificate of conformity / Test report issued by:
   LVD : NEMKO, TUV
   EMC : Audix Corporation

2. Technical documentation kept at:
   BenQ Corporation

which will be made available upon request.

(Manufacturer)

BenQ Corporation
157, Shan-Ying Road, Gueishan, Taoyuan 333

BenQ Co., Ltd.
New District 169 Zhujiang Rd Suzhou Jiangsu, China

Ray Huang/Manager

Canadian Regulatory Information (Canada Only)

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.

Note that Canadian Department of Communications (DOC) regulations provide, that changes or modifications not expressly approved by Dell™ Computer Corporation could void your authority to operate this equipment.

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

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.
EN 55022 Compliance (Czech Republic Only)

The device belongs to category B devices as described in EN 55022, unless its use specifically stated that it's category A device on the specification label. The following applies to category B devices only.

The use of this device is subject to the following conditions:

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

VCCI Class B Notice (Japan Only)

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 (VCCI) for preventing radio frequency interference in residential areas.

Class B ITE

MIC Notice (Republic of Korea Only)

Class B Device

Please note that this device has been approved for non-business purposes and may be used in any environment, including residential areas.

Polish Center for Testing and Certification Notice

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.

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).

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.
Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem).
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 wyłączania urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazda, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.
Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kolka obwodu ochronnego z wtyczki. Jeżeli konieczne jest używanie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym obwodem ochronnym.
- System komputerowy należy zabezpieczyć przed naglymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezpiecznika olimpiowego 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 napełniać 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 dale 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.

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):

Export: Dell™ Computer Corporation
One Dell™ Way
Round Rock, TX 78682

Importer: Dell™ Computer de México,
S.A. de C.V. Rio Lerma No. 302 - 4º Piso
Col. Cuauhtemoc 16500 México, D.F.

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

Supply voltage: 100-240V~
Frequency: 50/60 Hz
Current consumption: 2.0 A

Información para NOM (únicamente para México)

La información siguiente se proporciona en el dispositivo o en los dispositivos descritos en este documento, en cumplimiento con los requisitos de la Norma Oficial Mexicana (NOM):

Exporter: Dell™ Computer Corporation
One Dell™ Way
Round Rock, TX 78682

Importador: Dell™ Computer de México,
S.A. de C.V. Rio Lerma No. 302 - 4º Piso
Col. Cuauhtemoc 16500 México, D.F.

Embarcar a: Dell™ Computer de México,
S.A. de C.V. al Cuido de Kuehne & Nagel
de México S. de R.L., Avenida Soles No. 55
Col. Peñón de los Baños, 15520 México, D.F.

Tensión alimentación: 100-240V~

Frecuencia: 50/60 Hz

Consumo de corriente: 2.0 A

BSMI Notice (Taiwan Only)

Ergonomics Notice (Germany Only)

Under the requirements of German ergonomics standard EK 1/59-98, EK 1/60-98, graphics or characters:

1. Blue graphics or characters in dark background are not recommended. (This combination may increase eye fatigue due to poor visibility caused by low contrast.)
2. Graphics controller and monitor are recommended to be used in the following conditions:
   - Vertical frequency: 60 Hz or higher.
   - Display mode: Dark characters in bright background.

Ergonomie Hinweis (nur Deutschland)

Um den Anforderungen der deutschen Ergonomie-Norm EK 1/59-98, EK 1/60-98 zu entsprechen.

1. Wird empfohlen, die Grunfarbe Blau nicht auf dunklem Hintergrund zu verwenden (schiechte Erkennbarkeit. Augenbelastung bei zu geringem Zeichenkontrast).
2. Wird folgende Einstellung des Grafik-Controllers und Monitors empfohlen.
   - Vertikalfrequenz: 60 Hz oder hoher.
   - Ohne Zeillensprung.

Regulatory Listing

Safety Certifications:

- UL 60950
EMC Certifications:

- FCC Part 15 Class B
- VCCI Class B ITE
- MIC
- BSMI
- ICES–003
- C–Tick

Ergonomics:

- ENERGY STAR®
- TUV Ergo
- TCO'03/TCO'99

Recycling information

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

NOTES: 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.
Dell™ 2405FPW Flat Panel Monitor

- User Guide
- Important instructions and graphic drivers to set the display resolution to 1920x1200 (Optimal)

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.
- **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 property damage, personal injury, or death.

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

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April  2005   Rev. A01
Setting Up Your Monitor
Dell™ 2405FPW Flat Panel Monitor

If you have a Dell™ desktop with no internet access

1. Right-click on the desktop and click Properties.
2. Select the Settings tab.
3. Select Advanced. if you are using Windows XP, click the Adapter tab.
4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
5. Follow the directions listed below for your identified Graphics Adapter:

- **ATI:**
  1. ATI Folder on the CD (RADEON & RAGE family only; excludes mobile and FireGL platforms).
  2. Run the installation by double clicking the executable file.
  3. After installing the drivers, attempt to set the resolution to **1920x1200** again.

- **Nvidia:**
  1. NVidia folder on the CD (GEFORCE & TNT2 family only; excludes mobile and QUADRO chipsets).
  2. Run the installation by double clicking the executable file.
  3. After installing the drivers, attempt to set the resolution to **1920x1200** again.

**NOTE:** If you are unable to set the resolution to 1920x1200, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.
Setting Up Your Monitor
Dell™ 2405FPW Flat Panel Monitor

If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to [http://support.dell.com](http://support.dell.com), enter your service tag, and download the latest driver for your graphics card.

2. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1920x1200** again.

   **NOTE:** If you are unable to set the resolution to 1920x1200, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

Back to Contents Page
If you have non Dell™ desktop, portable computer, or graphic card

1. Right-click on the desktop and click Properties.
2. Select the Settings tab.
3. Select Advanced.
4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
5. Please refer to the graphic card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com ).
6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to 1920x1200 again.

**NOTE:** If you are unable to set the resolution to 1920x1200, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920x1200.
Attach the Display until it locks in place
Retachez l’écran jusqu’à ce qu’il s’encastre
Monto el panel hasta que quede firme en su posición
Fixe a tela, travando-a no local correto
Будьте внимательны при установке

Extend the stand to the maximum extendable position then rotate the Display for easy connection.
Extrayez le bras jusqu’à sa position maximale, puis tournez l’écran pour une connexion facile.
Extienda el soporte hasta su posición máxima y gire el panel para facilitar la conexión.
Extenda o apoio até a posição máxima e gire o monitor para facilitar a conexão.
Несите от дисплея максимум и поверните его при необходимости.

Connect either the blue video cable or white DVI cable to the computer. Do not use both cables on the same computer.
Connectez le câble vidéo bleu ou le câble DVI blanc à l’ordinateur. Ne branchez pas les deux câbles sur un seul ordinateur.
Conecte el cable de vídeo azul o el cable DVI blanco al ordenador. No utilice ambos cables en el mismo ordenador.
Conecte o cabo de vídeo azul ou o cabo DVI branco ao computador. Não use ambos os cabos no mesmo computador.
Включите компоненты DVI и видеокабель синего цвета в компьютер. Не используйте оба кабеля в одном компьютере.

Connect the power cable to the computer.
Connectez le cordon d’alimentation à l’ordinateur.
Conecte el cable de alimentación al ordenador.
Conecte o cabo de alimentação ao computador.
Подключите кабель питания в компьютер.

If nothing appears on the screen, press the input selection button.
Si rien apparaît à l’écran, appuyez sur le bouton de sélection d’entrée.
Si no aparece nada, pulse el boton de selección de entrada.
Если ничего не появляется на экране нажмите кнопку селекция дисплей.