# **Dell™ SP1908FP Flat Panel Monitor User's Guide**

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# Notes, Notices, and Cautions

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 a potential for property damage, personal injury, or death.

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Model SP1908FP

July 2007 Rev. A01

# **About Your Monitor**

**Dell™ SP1908FP Flat Panel Monitor User's Guide** 

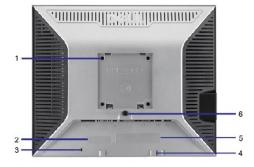
- Front View
- Back View
- Bottom View
- Side View
- Monitor Specifications
- Cleaning Your Monitor

# **Front View**



- 1. Video input select
- 2. OSD menu / select button
- 3. Brightness & Contrast / Down (-) button
- 4. Auto-Adjust / Up (+) button
- 5. Power button (with power light indicator)

# **Back View**



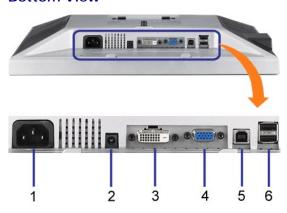


VESA mounting holes (100mm) (Behind attached base plate) Use to mount the monitor. 2 Barcode serial number label Refer to this label if you need to contact Dell for technical support. 3 Security lock slot Use a security lock with the slot to help secure your monitor. 4 Dell Soundbar mounting brackets Attach the optional Dell Soundbar. 5 Regulatory rating label List the regulatory approvals. 6 Stand removal button Press to release the stand.

Help organize cables by placing them through the hole.

# **Bottom View**

7 Cable management hole



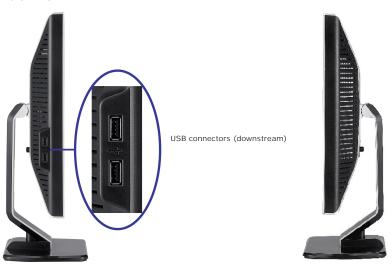
1 Power connector Insert the power cable. 2 Dell Soundbar power connector Connect the power cord for the Soundbar (optional). 3 DVI connector Connect your computer DVI cable. 4 VGA connector Connect your computer VGA cable. 5 USB upstream connector

Connect the USB cable that came with your monitor to the monitor and the computer. Once this cable is connected you can use the USB connectors on the side and bottom of the monitor.

Connect your USB devices. 6 USB connector

NOTE: You can use this connector only after you connect the USB cable to the computer and the USB upstream connector on the monitor.

# **Side View**



Left side Right side

# **Monitor Specifications**

# **Power Management Modes**

If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor automatically reduces its power consumption when not in use. This is referred to as Power Save Mode. The monitor automatically resumes functioning when the computer detects input from the keyboard, mouse, or other input devices. The following table shows the power consumption and signaling of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation (with Dell Soundbar and USB active)	Active	Active	Active	Green	75 W (maximum)
Normal operation	Active	Active	Active	Green	35 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W



NOTE: The OSD only functions in the normal operation mode. One of the following messages appears when the "menu" or "plus" buttons are pressed wh Active-off mode



Activate the computer and the monitor to gain access to the OSD.

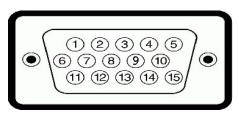
This monitor is ENERGY STAR®-compliant as well as TCO '99 / TCO '03 power management compatible.



\* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor

# **Pin Assignments**

#### 15-pin D-Sub connector

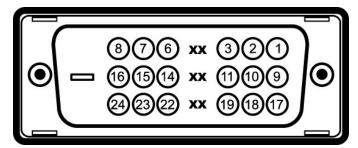


The following table shows pin assignments in the D-Sub connector:

Pin Number	Monitor Side of the 15-pin Side Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-Test
6	GND-R
7	GND-G
8	GND-B
9	DDC +5V
10	GND

```
11
           GND
12
           DDC data
13
           H-sync
14
           V-sync
           DDC clock
15
```

# 24-pin Digital-only DVI Connector



NOTE: Pin 1 is at the top right.

The following table shows pin assignments in the DVI connector:

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S. Data 2-	9	T.M.D.S. Data 1-	17	T.M.D.S. Data 0-
2	T.M.D.S. Data 2+	10	T.M.D.S. Data 1+	18	T.M.D.S. Data 0+
3	T.M.D.S. Data 2 Shield	11	T.M.D.S. Data 1 Shield	19	T.M.D.S. Data 0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Self-Test	23	T.M.D.S. Clock +
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock -

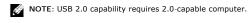
# Universal Serial Bus (USB) Interface

This monitor supports High-Speed Certified USB 2.0 interface.



#### USB ports:

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



NOTE: The USB interface of the monitor works ONLY when monitor is powered ON (or in Power Save Mode). Switching your monitor OFF and then ON would re-enumerate its USB interface; attached peripherals may take a few seconds to resume normal functionality.

# 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. Most monitor installations are automatic; you can select different settings, if desired.

# General

Model number SP1908FP

#### Flat Panel

Active matrix - TFT LCD Screen type

Screen dimensions 19 inches (19-inch viewable image size)

Preset display area:

Horizontal 380 mm (14.96 inches)

Vertical 300 mm (11.81 inches)

Pixel pitch 0.294 mm

160° (vertical) typ, 160° (horizontal) typ Viewing angle

300 CD/m <sup>2</sup>(typ) Luminance output Contrast ratio 800 to 1 (typ)

Faceplate coating ARC-Glare (2H), Reflection Ratio 2%

Backlight CCFL (4) edgelight system

Response Time 5ms typical

#### Resolution

Horizontal scan range 30 kHz to 81 kHz (automatic) Vertical scan range 56 Hz to 76 Hz (automatic) 1280 x 1024 at 60 Hz Optimal preset resolution Highest preset resolution 1280 x 1024 at 75 Hz

# **Video Supported Modes**

Video display capabilities (DVI playback) 480p/576p/720p (Supports HDCP)

# **Preset Display Modes**

For quick adjustments of different modes, the monitor has default setting modes as shown in the following table:

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.0	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.3	49.5	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1152 x 864	67.5	75.0	108	+/+
VESA, 1280 x 1024	64.0	60.0	108	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+

# **Electrical**

Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input Video input signals

Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)  $\,$ Synchronization input signals

100 to 240 VAC / 50 or 60 Hz  $\pm$  3 Hz / 2.0A (Max.)

120V:42A (Max.) 240V:80A (Max.) Inrush current

# **Physical Characteristics**

AC input voltage / frequency / current

The following table shows the Physical Characteristics of monitor:

Connector type 15-pin D-subminiature, blue connector; DVI-D, white connector

Signal cable type Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor Analog: Detachable, D-Sub, 15pins, shipped attached to the monitor

Dimensions (with stand):

16.56 inches (420.5 mm) Height

Width 16.15 inches (410.1 mm)

Depth 7.17 inches (182.0 mm)

Dimensions: (without stand)

13.31 inches (338.1 mm) Height

16.15 inches (410.1 mm) Width

2.59 inches (65.9 mm) Depth

Stand dimensions:

12.66 inches (321.5 mm) Height

10.26 inches (260.7 mm) Width

5.74 inches (145.7 mm) Depth

Weight with packaging 15.11 lbs (6.86 kg)

Weight with stand assembly and cables 11.9 lbs (5.4 kg)

8.81 lbs (4 kg)

Weight without stand assembly (For wall mount or VESA mount considerations - no cables)

Weight of stand assembly 2.8 lbs (1.27 kg)

# **Environmental**

Please refer to the operation conditions given below to use the monitor correctly.

Temperature: 5° to 35°C (41° to 95°F) Operating

Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C(-4° to 140°F) Nonoperating

Humidity:

Operating 10% to 80% (noncondensing)

Storage: 5% to 90% (noncondensing) Nonoperating

Shipping: 5% to 90% (noncondensing)

Altitude:

3,657.6m (12,000 ft) max Operating

12,192 m (40,000 ft) max Nonoperating

Thermal dissipation 256.08 BTU/hour (maximum) 119.5 BTU/hour (typical)

# **Cleaning Your Monitor**



CAUTION: Read and follow the safety instructions before cleaning the monitor.



AUTION: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

- To clean your antistatic screen, slightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for To clean your antistatic screen, slightly dampen a soft, clean cloth with water. It position, use a special screen-cleaning ussue or solution surfainer the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.

  Use a slightly-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 monitor may scratch and show white scuff marks more than lighter-colored monitor.

  To help maintain the best image quality on your monitor, use a dynamically changing screen saver and power off your monitor when not in use.

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Appendix Dell <sup>TM</sup> SE198WFP Flat Panel Monitor User's Guide
☐ <u>FCC Notice (U.S. Only)</u>
☐ CAUTION: Safety Instruction
☐ Contacting Dell
☐ Your Monitor Set-up Guide
FCC Notice (U.S. Only)
FCC Class B
This equipment generates, uses, and can radiate

te radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio and television reception. 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.

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.

2 This device must accept any interference received, including interference that may cause undesired operation.

NOTICE: The FCC regulations provide that changes or modifications not expressly approved by Dell Inc. could void your authority to operate this equipment.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the system with respect to the receiver.
- Move the system away from the receiver
- Plug the system into a different outlet so that the system and the receiver are on different branch circuits.

If necessary, consult a representative of Dell Inc. or an experienced radio/television technician for additional suggestions.

The following information is provided on the device or devices covered in this document in compliance with the FCC regulations:

Product name: SE198WFPf

1 Model number: SF198WFPf

Company name:

Dell Inc.

Worldwide Regulatory Compliance & Environmental Affairs

Round Rock, TX 78682 USA 512-338-4400

# **CAUTION: Safety Instruction**

<b> *</b>	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:

- 1 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:

  o 115 volts (V)/60 Pertz (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.

    o 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 accounts. 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.

- 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. For more information, Go Or contact the electronic industries alliance: <a href="http://www.elae.org/">http://www.elae.org/</a> for more information.

# **Contacting Dell**

You can contact Dell through the Internet and by phone:

- For support through the web, go to support.dell.com. For worldwide support through the web, use the Choose A Country/Region menu near the bottom of the page, or see the web addresses listed in the following table.

  support.dell.com (support)

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.
NOTE: In certain countries, support specific to Dell XPS <sup>TM</sup> portable computers is available at a separate telephone number listed for participating countries you do not see a telephone number listed that is specific for XPS portable computers, you may contact Dell through the support number listed and your call will be routed appropriately.
1 For support by phone, use the phone 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.
NOTE: The contact information provided was deemed correct at the time that this document went to print and issubject to change.

Country (City) International Access Code Country Code City Code	Service Type	Area Codes, Local Numbers, and Toll-Free Numbers Website and E-Mail Address
Anguilla	Online Support	www.dell.com/ai
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 800-335-0031
Antigua and Barbuda	Online Support	www.dell.com.ag
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	1-800-805-5924
Aomen	Technical Support	toll-free: 0800-105
	Customer Service (Xiamen, China)	34 160 910
Country Code: 853	Transaction Sales (Xiamen, China)	29 693 115
Argentina (Buenos Aires)	Online Support	www.dell.com.ar
	E-mail for Desktops and Portables	la-techsupport@dell.com
International Access Code: 00	E-mail for Servers and EMC® Storage Products	la_enterprise@dell.com
G . G . 54	Customer Service	toll-free: 0-800-444-0730
Country Code: 54	Technical Support – Dell PowerApp™, Dell PowerEdge™, Dell PowerConnect™, and Dell PowerVault™	toll-free: 0-800-222-0154
City Code: 11	Technical Support Services	toll-free: 0-800-444-0724
	Sales	0-810-444-3355
Aruba	Online Support	www.dell.com.aw
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 800-1578
Australia (Sydney)	Online Support	support.ap.dell.com
		support.ap.dell.com/contactus
International Access Code: 0011	Technical Support	
Country Code (1	Technical Support for XPS computers only	toll-free: 1300 790 877
Country Code: 61	Home and Home Office	toll-free: 1300-655-533
City Code: 2	Medium and Large Business	toll-free: 1800-633-559
City Code. 2	Small Business, Education, Local Government	toll-free: 1800-060-889

	Customer Service	toll-free: 1300-662-196
Austria (Vienna)	Online Support	support.euro.dell.com
I		tech_support_central_europe@dell.com
International Access Code: 900	Technical Support for XPS computers only	0820 240 530 81
Country Code: 43	Home/Small Business Sales	0820 240 530 00
Country Couc. 45	Home/Small Business Fax	0820 240 530 49
City Code: 1	Home/Small Business Customer Service	0820 240 530 14
•	Home/Small Business Support  Preferred Accounts/Corporate Customer Service	0820 240 530 17 0820 240 530 16
	Preferred Accounts/Corporate Support	0820 240 530 17
	Switchboard	0820 240 530 00
Bahamas	Online Support	www.dell.com/bs
zanamas	Commo dapport	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 1-866-874-3038
Barbados	Online Support	www.dell.com/bb
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	1-800-534-3142
Belgium (Brussels)	Online Support	support.euro.dell.com
	Technical Support for XPS computers only	02 481 92 96
International Access Code: 00	General Support	02 481 92 88
Country Codes 22	General Support Fax	02 481 92 95
Country Code: 32	Customer Service	02 713 15 65
City Code: 2	Corporate Sales	02 481 91 00
City Couc. 2	Fax	02 481 92 99
	Switchboard	02 481 91 00
Bermuda	Online Support	www.dell.com/bm
261	Commission of the commission o	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	1-877-890-0751
Bolivia	Online Support	www.dell.com/bo
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 800-10-0238
Brazil	Online Support	www.dell.com/br
		BR-TechSupport@dell.com
International Access Code: 00	Customer Service and Tech Support	0800 90 3355
Country Code 55	Technical Support Fax	51 2104 5470
Country Code: 55	Customer Service Fax	51 2104 5480
City Code: 51	Sales	0800 970 3390
British Virgin Islands	Technical Support, Customer Service, Sales	toll-free: 1-866-278-6820
Brunei	Technical Support (Penang, Malaysia)	604 633 4966
	Customer Service (Penang, Malaysia)	604 633 3101
Country Code: 673	J. S.	or toll-free: 801 1012
	Transaction Sales (Penang, Malaysia)	604 633 3101
		or toll-free: 801 1012
Canada (North York, Ontario)	Online Order Status	www.dell.ca/ostatus
	Online Support	support.ca.dell.com
International Access Code: 011	AutoTech (automated Hardware and Warranty Support)	toll-free: 1-800-247-9362
	Customer Service	
	Home/Home Office	toll-free: 1-800-847-4096
	Small Business	toll-free: 1-800-906-3355
	Medium/Large Business, Government, Education	toll-free: 1-800-387-5757
	Hardware Warranty Phone Support	
	XPS Computers Only	toll-free: 1-866-398-8977
	Computers for Home/Home Office	toll-free: 1-800-847-4096
	Computers for Small/Medium/Large Business, Government	toll-free: 1-800-387-5757
	Printers, Projectors, Televisions, Handheld, Digital Jukebox,	1-877-335-5767
	and Wireless	
	Sales Home and Home Office Sales	toll-free: 1-800-999-3355
	Small Business	toll-free: 1-800-999-3355
	Medium/Large Business, Government	toll-free: 1-800-387-5755
	Spare Parts and Extended Service	1 866 440 3355
		la-techsupport@dell.com
Cavman Islands	Il Online Support	
Cayman Islands	Online Support Technical Support, Customer Service, Sales	
	Technical Support, Customer Service, Sales	1-877-262-5415
		1-877-262-5415 www.dell.com/cl
Chile (Santiago)	Technical Support, Customer Service, Sales Online Support	1-877-262-5415
Cayman Islands Chile (Santiago) Country Code: 56	Technical Support, Customer Service, Sales	1-877-262-5415 www.dell.com/cl
Chile (Santiago)	Technical Support, Customer Service, Sales Online Support	1-877-262-5415 www.dell.com/cl la-techsupport@dell.com

Country Code: 94	Technical Support E-mail	support.dell.com.cn/email
Country Code: 86	Customer Service E-mail	customer_cn@dell.com
City Code: 592	Technical Support Fax	592 818 1350
City Code. 372	Technical Support – XPS computers only	toll-free: 800 858 0540
	Technical Support - Dell™ Dimension™ and Dell Inspiron™	toll-free: 800 858 2969
	Technical Support – Dell OptiPlex™, Dell Latitude™, and Dell Precision™	toll-free: 800 858 0950
	Technical Support - Servers and Storage	toll-free: 800 858 0960
	Technical Support - Projectors, PDAs, Switches, Routers,	toll-free: 800 858 2920
	Technical Support - Printers	toll-free: 800 858 2311
	Customer Service	toll-free: 800 858 2060
	Customer Service Fax	592 818 1308
	Home and Small Business	toll-free: 800 858 2222
	Preferred Accounts Division	toll-free: 800 858 2557
	Large Corporate Accounts GCP	toll-free: 800 858 2055
	Large Corporate Accounts Key Accounts	toll-free: 800 858 2628
	Large Corporate Accounts North	toll-free: 800 858 2999
	Large Corporate Accounts North Government and Education	toll-free: 800 858 2955
	Large Corporate Accounts East	toll-free: 800 858 2020
	Large Corporate Accounts East Government and Education	toll-free: 800 858 2669
	Large Corporate Accounts Queue Team	toll-free: 800 858 2572
	Large Corporate Accounts South	toll-free: 800 858 2355
	Large Corporate Accounts West	toll-free: 800 858 2811
	Large Corporate Accounts Spare Parts	toll-free: 800 858 2621
Colombia	Online Support	www.dell.com/co
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	01-800-915-4755
Costa Rica	Online Support	www.dell.com/cr
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	0800-012-0231
Czech Republic (Prague)	Online Support	support.euro.dell.com
T. (		czech_dell@dell.com
International Access Code: 00	Technical Support	22537 2727
Country Code: 420	Customer Service	22537 2707
Country Code. 420	Fax	22537 2714
	Technical Fax	22537 2728
	Switchboard	22537 2711
Denmark (Copenhagen)	Online Support	support.euro.dell.com
International Access Code: 00	Technical Support for XPS computers only	7010 0074
international recess code: 00	Technical Support	7023 0182
Country Code: 45	Customer Service - Relational	7023 0184
·	Home/Small Business Customer Service	3287 5505 3287 1200
	Switchboard - Relational Switchboard Fax - Relational	3287 1200
	Switchboard - Home/Small Business	3287 5000
	Switchboard Fax - Home/Small Business	3287 5000
Dominica	Online Support	www.dell.com/dm
Borriiriica	Offine Support	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 1-866-278-6821
Dominican Republic	Online Support	www.dell.com/do
•		la-techsupport@dell.com
	Technical Support, Customer Service, Sales	1-800-156-1588
Ecuador	Online Support	www.dell.com/ec
		la-techsupport@dell.com
	Technical Support, Customer Service, Sales (calling from Quito)	toll-free: 999-119-877-655-3355
	Technical Support, Customer Service, Sales (calling from Guayaquil)	toll-free: 1800-999-119-877-655-3355
El Salvador		toll-free: 1800-999-119-877-655-3355 www.dell.com/sv
El Salvador	Guayaquil)	
El Salvador	Guayaquil)	www.dell.com/sv
El Salvador Finland (Helsinki)	Guayaquil) Online Support	www.dell.com/sv la-techsupport@dell.com
Finland (Helsinki)	Guayaquil) Online Support Technical Support, Customer Service, Sales	www.dell.com/sv la-techsupport@dell.com 800-6132
	Guayaquil) Online Support Technical Support, Customer Service, Sales	www.dell.com/sv la-techsupport@dell.com 800-6132 support.euro.dell.com
Finland (Helsinki) International Access Code: 990	Guayaquil)  Online Support  Technical Support, Customer Service, Sales  Online Support	www.dell.com/sv  [la-techsupport@dell.com  800-6132  support.euro.dell.com  fi_support@dell.com
Finland (Helsinki)	Guayaquil) Online Support  Technical Support, Customer Service, Sales Online Support  Technical Support	www.dell.com/sv  Ia-techsupport@dell.com  800-6132  support.euro.dell.com  fi_support@dell.com  0207 533 555
Finland (Helsinki) International Access Code: 990 Country Code: 358	Guayaquil) Online Support  Technical Support, Customer Service, Sales Online Support  Technical Support  Customer Service	www.dell.com/sv  la-techsupport@dell.com  800-6132  support.euro.dell.com  fi_support@dell.com  0207 533 555  0207 533 538  0207 533 533  0207 533 530
Finland (Helsinki) International Access Code: 990	Guayaquil) Online Support Technical Support, Customer Service, Sales Online Support Technical Support Customer Service Switchboard Fax Sales under 500 employees	www.dell.com/sv  la-techsupport@dell.com  800-6132  support.euro.dell.com  fi_support@dell.com  0207 533 555  0207 533 538  0207 533 533  0207 533 530  0207 533 540
Finland (Helsinki) International Access Code: 990 Country Code: 358	Guayaquil) Online Support  Technical Support, Customer Service, Sales Online Support  Technical Support  Customer Service Switchboard Fax	www.dell.com/sv  la-techsupport@dell.com  800-6132  support.euro.dell.com  fi_support@dell.com  0207 533 555  0207 533 538  0207 533 533  0207 533 530

International Access Code: 00		
international Access Code: 00	Home and Small Business	0005 007 070
Country Code: 33	Technical Support	0825 387 270
•	Customer Service Switchboard	0825 823 833 0825 004 700
<b>City Codes:</b> (1) (4)	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 Service	0825 338 339
	Switchboard	01 55 94 71 00
	Sales	01 55 94 71 00
	Fax	01 55 94 71 01
Germany (Frankfurt)	Online Support	support.euro.dell.com
International Access Code: 00	T. I. i. I.C I.C VPC	tech_support_central_europe@dell.com
international riceess code: 00	Technical Support for XPS computers only	069 9792-7222
Country Code: 49	Technical Support Home/Small Business Customer Service	069 9792-7200
•	Global Segment Customer Service	0180-5-224400
City Code: 69	Preferred Accounts Customer Service	069 9792-7320
	Large Accounts Customer Service	069 9792-7320
	Public Accounts Customer Service	069 9792-7320
	Switchboard	069 9792-7000
Greece	Online Support	support.euro.dell.com
	Technical Support	00800-44 14 95 18
International Access Code: 00	Gold Service Technical Support	00800-44 14 00 83
Country Code: 30	Switchboard	2108129810
Country Code: 30	Gold Service Switchboard	2108129811
	Sales	2108129800
	Fax	2108129812
Grenada	Online Support	www.dell.com/gd
	Taskeisel Coursest Courteres Couries Color	la-techsupport@dell.com
Guatemala	Technical Support, Customer Service, Sales Online Support	toll-free: 1-866-540-3355 www.dell.com/gt
Guaternala	Offine Support	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	1-800-999-0136
Guyana	Online Support	la-techsupport@dell.com
•	Technical Support, Customer Service, Sales	toll-free: 1-877-270-4609
Hong Kong	Online Support	support.ap.dell.com
		support.dell.com.cn/email
International Access Code: 001	Technical Support - XPS computers only	00852-3416 6923
Country Codes 952	Technical Support - Dimension and Inspiron	00852-2969 3188
Country Code: 852	Technical Support - OptiPlex, Latitude, and Dell Precision	00852-2969 3191
	Technical Support - Servers and Storage	00852-2969 3196
	Technical Support – Projectors, PDAs, Switches, Routers, etc.	00852-3416 0906
	Customer Service	00852-3416 0910
	Large Corporate Accounts	00852-3416 0907
	Global Customer Programs	00852-3416 0908
	Medium Business Division	00852-3416 0912
	Home and Small Business Division	00852-2969 3105
India	Online Support	support.ap.dell.com
	Portable and Desktop Support	
	Desktop Support E-mail	india_support_desktop@dell.com
	Portable Support E-mail	india_support_notebook@dell.com
	Phone Numbers	080-25068032 or 080-25068034
		or your city STD code + 60003355
	Server Support	or toll-free: 1-800-425-8045
	Server Support  E-mail	india_support_Server@dell.com
	L=111011	
		080-25068032 or 080-25068034
	Phone Numbers	080-25068032 or 080-25068034
		or your city STD code + 60003355
	Phone Numbers	
	Phone Numbers  Gold Support Only	or your city STD code + 60003355 or toll-free: 18004258045
	Phone Numbers  Gold Support Only  E-mail	or your city STD code + 60003355 or toll-free: 18004258045 eec_ap@dell.com
	Phone Numbers  Gold Support Only	or your city STD code + 60003355 or toll-free: 18004258045 eec_ap@dell.com 080-25068033
	Phone Numbers  Gold Support Only  E-mail	or your city STD code + 60003355 or toll-free: 18004258045 eec_ap@dell.com
	Phone Numbers  Gold Support Only  E-mail	or your city STD code + 60003355 or toll-free: 18004258045 eec_ap@dell.com 080-25068033 or your city STD code + 60003355

11	1	
	Phone Numbers	080-25068066
		or toll-free: 1-800-425-2066
	Customer Service	Ladia area UCDOdall area
	Home and Small Business	India_care_HSB@dell.com toll-free: 1800-4254051
	Large Corporate Accounts	India care REL@dell.com
		toll-free: 1800-4252067
	Sales	
	Large Corporate Accounts	1600 33 8044
	Home and Small Business	1600 33 8046
Ireland (Cherrywood)	Online Support	support.euro.dell.com
Intermetional Access Code 60		dell_direct_support@dell.com
International Access Code: 00	Technical Support	
Country Code: 353	XPS computers only	1850200722
	Business computers	1850 543 543
City Code: 1	Home computers At Home Support	1850 543 543 1850 200 889
	Sales	1830 200 889
	Home	1850 333 200
	Small Business	1850 664 656
	Medium Business	1850 200 646
	Large Business	1850 200 646
	Sales E-mail	Dell_IRL_Outlet@dell.com
	Customer Service	
	Home and Small Business	01 204 4014
	Business (greater than 200 employees)	1850 200 982
	General	
	Fax/Sales Fax	01 204 0103
	Switchboard	01 204 4444
	U.K. Customer Service (dial within U.K. only)	0870 906 0010
	Corporate Customer Service (dial within U.K. only)	0870 907 4090
Italy (Milan)	U.K. Sales (dial within U.K. only)  Online Support	support.euro.dell.com
	Home and Small Business	
International Access Code: 00	Technical Support	02 577 826 90
	Customer Service	02 696 821 14
Country Code: 39	Fax	02 696 821 13
C'+ C d 02	Switchboard	02 696 821 12
City Code: 02	Corporate	
	Technical Support	02 577 826 90
	Customer Service	02 577 825 55
	Fax	02 575 035 30
	Switchboard	02 577 821
Jamaica	Online Support	la-techsupport@dell.com
Sa.maiou	Technical Support, Customer Service, Sales (dial from within Jamaica only)	1-800-440-9205
Japan (Kawasaki)	Online Support	support.jp.dell.com
	Technical Support - XPS computers only	toll-free: 0120-937-786
International Access Code: 001	Technical Support outside of Japan - XPS computers only	044-520-1235
Country Code: 81	Technical Support - Dimension and Inspiron	toll-free: 0120-198-226
Country Code: 81	Technical Support outside of Japan - Dimension and Inspiron	81-44-520-1435
City Code: 44	Technical Support - Dell Precision, OptiPlex, and Latitude	toll-free: 0120-198-433
0	Technical Support outside of Japan – Dell Precision,	
	OptiPlex, and Latitude	81-44-556-3894
	Technical Support - Dell PowerApp, Dell PowerEdge, Dell	toll-free: 0120-198-498
	PowerConnect, and Dell PowerVault  Technical Support outside of Japan - PowerApp,	
	PowerEdge, PowerConnect, and PowerVault	81-44-556-4162
	Technical Support - Projectors, PDAs, Printers, Routers	toll-free: 0120-981-690
	Technical Support outside of Japan – Projectors, PDAs,	81-44-556-3468
	Printers, Routers  Faybox Sarvice	
	Faxbox Service	044-556-3490 044-556-3801
	24-Hour Automated Order Status Service  Customer Service	044-556-4240
	Business Sales Division – up to 400 employees	044-556-1465
	Preferred Accounts Division Sales – over 400 employees	044-556-3433
	Public Sales - government agencies, educational	
	institutions, and medical institutions	044-556-5963
	Global Segment Japan	044-556-3469
	Individual User	044-556-1657
	Individual User Online Sales	044-556-2203
	Individual User Real Site Sales	044-556-4649

Country Code: 82   Technical Support   Technical Support   Technical Support   Technical Support, Customer Se   Technical Support - Dimension, Accessories   Sales	rvice toll-free: 080-200-3800  PDA, Electronics, and toll-free: 080-200-3801  toll-free: 080-200-3600  2194-6202  2194-6000  stin, Texas, U.S.A.) 512 728-4093 , U.S.A.) 512 728-3619
Technical Support, Customer Se Technical Support - Dimension, Accessories Sales Sales Switchboard  Latin America  Customer Technical Support (Auricustomer Service (Austin, Texas) Fax (Technical Support and Customer Service (Austin, Texas) Fax (Technical Support and Customer Service (Austin, Texas) Fax (Technical Support and Customer Service (Austin, Texas) Fax (Austin, Texas, U.S.A.) Sales (Austin, Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  Luxembourg International Access Code: 00  Online Support Support Home/Small Business Sales	rvice toll-free: 080-200-3800  PDA, Electronics, and toll-free: 080-200-3600  2194-6202 2194-6000 stin, Texas, U.S.A.) 512 728-4093 , U.S.A.) 512 728-3819  omer Service) (Austin, 512 728-4397  512 728-4600
City Code: 2    Sales   Fax   Switchboard	toll-free: 080-200-3600  2194-6202  2194-6000  512 728-4093  , U.S.A.)  512 728-3619  omer Service) (Austin,  512 728-4397  512 728-4600
City Code: 2    Sales     Fax     Switchboard     Customer Technical Support (Aur     Customer Service (Austin, Texas     Fax     Customer Technical Support and Customer Service (Austin, Texas     Fax     Customer Technical Support and Customer Service (Austin, Texas     Fax     Customer Technical Support and Customer Service (Austin, Texas     Fax     Customer Technical Support and Customer Service (Austin, Texas     Fax     Sales     Fax     Support     Home/Small Business Sales     Customer Service (Austin, Texas     Customer Service (Austin, Texas     Customer Service (Austin, Texas     Customer Service (Austin, Texas     Fax     Customer Service (Austin, Texas     Sales     Customer Service (Austin, Texas     Sales	2194-6202 2194-6000 stin, Texas, U.S.A.) 512 728-4093 , U.S.A.) 512 728-3619 omer Service) (Austin, 512 728-3883 512 728-4997 512 728-4600
City Code: 2    Fax     Switchboard     Customer Technical Support (Au Customer Service (Austin, Texas Fax (Technical Support and Cust Texas, U.S.A.)     Sales (Austin, Texas, U.S.A.)     Sales (Austin, Texas, U.S.A.)     Sales (Austin, Texas, U.S.A.)     Customer Service (Austin, Texas, U.S.A.)     Sales (Aust	2194-6202 2194-6000 stin, Texas, U.S.A.) 512 728-4093 , U.S.A.) 512 728-3619 omer Service) (Austin, 512 728-3883 512 728-4997 512 728-4600
Latin America  Customer Technical Support (Au Customer Service (Austin, Texas Fax (Technical Support and Cust Texas, U.S.A.) Sales (Austin, Texas, U.S.A.)  Sales Fax (Austin, Texas, U.S.A.)  Luxembourg  International Access Code: 00  Customer Technical Support (Austin, Texas, U.S.A.)  Sales Fax (Austin, Texas, U.S.A.)  Sales Fax (Austin, Texas, U.S.A.)  Luxembourg  International Access Code: 00	stin, Texas, U.S.A.)     512 728-4093       , U.S.A.)     512 728-3619       omer Service) (Austin,     512 728-3883       512 728-4397     512 728-4600
Customer Service (Austin, Texas Fax (Technical Support and Cust Texas, U.S.A.) Sales (Austin, Texas, U.S.A.) SalesFax (Austin, Texas, U.S.A.)  Luxembourg Online Support Support Home/Small Business Sales	, U.S.A.) 512 728-3619 omer Service) (Austin, 512 728-3883 512 728-4397 512 728-4600
Fax (Technical Support and Cust Texas, U.S.A.)  Sales (Austin, Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  Luxembourg  International Access Code: 00  Fax (Technical Support and Cust Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  Support  Home/Small Business Sales	omer Service) (Austin, 512 728-3883 512 728-4397 512 728-4600
Texas, U.S.A.)  Sales (Austin, Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  Luxembourg  International Access Code: 00  Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  Luxembourg  Home/Small Business Sales	512 728-4397 512 728-4600
Sales (Austin, Texas, U.S.A.)  SalesFax (Austin, Texas, U.S.A.)  Luxembourg  International Access Code: 00  Support  Home/Small Business Sales	512 728-4600
Luxembourg Online Support Support Home/Small Business Sales	
Luxembourg Online Support Support Home/Small Business Sales	or 512 728-3772
International Access Code: 00  Support Home/Small Business Sales	01 312 120-3112
International Access Code: 00  Support Home/Small Business Sales	support.euro.dell.com
International Access Code: 00 Home/Small Business Sales	342 08 08 075
Cornerate Sales	+32 (0)2 713 15 96
Corporate sales	26 25 77 81
Country Code: 352	+32 (0)2 481 91 19
Fax	26 25 77 82
Malaysia (Penang) Online Support Technical Support - YPS comput	support.ap.dell.com
International Access Code: 00 Technical Support - XPS comput Technical Support - Dell Precision	
Technical Support - Dimension,	Inspiron, and Electronics
Country Code: 60 and Accessories	Toll-free: 1 800 881 306
Technical Support - PowerApp, and PowerVault	PowerEdge, PowerConnect, toll-free: 1 800 881 386
Customer Service	toll-free: 1 800 881 306 (option 6)
Transaction Sales	toll-free: 1 800 888 202
Corporate Sales	toll-free: 1 800 888 213
Mexico Online Support	www.dell.com/mx
International Access Code: 00 Technical Support	la-techsupport@dell.com
Sales	50-81-8800
Country Code: 52	or 001-800-888-3355
	001-877-384-8979
Customer Service	001 977 260 2292
Main	or 001-877-269-3383
Main	or 01-800-888-3355
	or 001-866-851-1754
Montserrat Online Support	la-techsupport@dell.com
Technical Support, Customer Se	
Netherlands Antilles Online Support	la-techsupport@dell.com
Technical Support, Customer Se	
Netherlands (Amsterdam)  Online Support	support.euro.dell.com
International Access Code: 00 Technical Support for XPS computed Technical Support	020 674 45 94 020 674 45 00
Technical Support Fax	020 674 47 66
Country Code: 31 Home/Small Business Customer	Service 020 674 42 00
City Code: 20 Relational Customer Service	020 674 4325
Home/Small Business Sales	020 674 55 00
Relational Sales	020 674 50 00
Home/Small Business Sales Fax Relational Sales Fax	020 674 47 75 020 674 47 50
Switchboard	020 674 50 00
Switchboard Fax	020 674 47 50
New Zealand Online Support	support.ap.dell.com
International Access Code: 00	support.ap.dell.com/contactus
Technical Support for XPS comp	uters only toll-free: 0800 335 540
Country Code: 64 Technical Support, Customer Se	rvice, Sales 0800 441 567
Nicaragua Online Support	www.dell.com/ni
	la-techsupport@dell.com
Technical Support, Customer Se	
Norway (Lysaker)  Online Support  Technical Support for VDS compo	support.euro.dell.com
International Access Code: 00 Technical Support for XPS composition Technical Support	uters only 815 35 043 671 16882
Relational Customer Service	671 17575
Country Code: 47 Home/Small Business Customer	

	Switchboard	671 16800		
	Fax Switchboard	671 16865		
Panama	Online Support	www.dell.com/pa		
		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	001-800-507-1264		
Peru	Online Support	www.dell.com/pe		
		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	0800-50-669		
Poland (Warsaw)	Online Support	support.euro.dell.com		
International Access Code: 011	Customer Service Phone	pl_support_tech@dell.com 57 95 700		
	Customer Service	57 95 999		
Country Code: 48	Sales	57 95 999		
	Customer Service Fax	57 95 806		
City Code: 22	Reception Desk Fax	57 95 998		
	Switchboard	57 95 999		
Portugal	Online Support	support.euro.dell.com		
3	Опште заррогт	Support.euro.den.com		
International Access Code: 00	Technical Support	707200149		
Country Code: 351	Customer Service	800 300 413		
	Sales	800 300 410 or 800 300 411 or 800 300 412 or 21 422 07 10		
	Fax	21 424 01 12		
Puerto Rico	Online Support	www.dell.com/pr		
		la-techsupport@dell.com		
	Technical Support	toll-free: 1-866-390-4695		
		or 1-866-851-1760		
	Customer Service and Sales	1-877-537-3355		
St. Kitts and Nevis	Online Support	www.dell.com/kn		
		la-techsupport@dell.com		
Ct Lucia	Technical Support, Customer Service, Sales	toll-free: 1-866-540-3355		
St. Lucia	Online Support	www.dell.com/lc		
	Technical Support, Customer Service, Sales	la-techsupport@dell.com toll-free: 1-866-464-4352		
St. Vincent and the Grenadines	Online Support	www.dell.com/vc		
ot. Vincent and the orendantes	Опште зарроге	la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	toll-free: 1-866-464-4353		
Singapore (Singapore)	NOTE: The phone numbers in this section should be			
	called from within Singapore or Malaysia only.			
International Access Code: 005	Online Support	support.ap.dell.com		
0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .	Technical Support – XPS computers only	toll-free: 1800 394 7464		
Country Code: 65	Technical Support - Dimension, Inspiron, and Electronics and Accessories	toll-free: 1800 394 7430		
	Technical Support - OptiPlex, Latitude, and Dell Precision	toll-free: 1800 394 7488		
	Technical Support - PowerApp, PowerEdge, PowerConnect,	t-II f 1000 204 7470		
	and PowerVault	toll-free: 1800 394 7478		
	Customer Service	toll-free: 1 800 394 7430 (option 6)		
	Transaction Sales	toll-free: 1 800 394 7412		
0, 1, 6	Corporate Sales	toll-free: 1 800 394 7419		
Slovakia (Prague)	Online Support	support.euro.dell.com		
International Access Code: 00	Technical Support	czech_dell@dell.com   02 5441 5727		
	Technical Support  Customer Service	420 22537 2707		
Country Code: 421	Fax	02 5441 8328		
	Tech Fax	02 5441 8328		
	Switchboard (Sales)	02 5441 7585		
South Africa (Johannesburg)	Online Support	support.euro.dell.com		
_		dell_za_support@dell.com		
International Access Code:	Gold Queue	011 709 7713		
00/001	Technical Support	011 709 7710		
09/091	Customer Service	011 709 7707		
Country Code: 27	Sales	011 709 7700		
Country Cout. 21	Fax	011 706 0495		
City Code: 11	Switchboard	011 709 7700		
Southeast Asian and Pacific	Technical Support, Customer Service, and Sales (Penang,			
Countries	Malaysia)	604 633 4810		
Spain (Madrid)	Online Support	support.euro.dell.com		
opani (maana)				
International Access Code: 00	Home and Small Business  Technical Support	902 100 130		

	Customer Service	902 118 540		
Country Code: 34	Sales	902 118 541		
C4-, C- J-, 01	Switchboard	902 118 541		
City Code: 91	Fax	902 118 539		
	Corporate			
	Technical Support	902 100 130		
	Customer Care	902 115 236		
	Switchboard	91 722 92 00		
Sweden (Upplands Vasby)	Fax Opling Support	91 722 95 83		
Sweden (Oppiands Vasby)	Online Support Technical Support for XPS computers only	support.euro.dell.com 0771 340 340		
International Access Code: 00	Technical Support	08 590 05 199		
	Relational Customer Service	08 590 05 642		
Country Code: 46	Home/Small Business Customer Service	08 587 70 527		
	Employee Purchase Program (EPP) Support	020 140 14 44		
City Code: 8	Technical Support Fax	08 590 05 594		
	Sales	08587 705 81		
Switzerland (Geneva)	Online Support	support.euro.dell.com		
		Tech_support_central_Europe@dell.com		
International Access Code: 00	Technical Support for XPS computers only	0848 33 88 57		
Country Code: 41	Technical Support - Home and Small Business	0844 811 411		
Country Couc. 71	Technical Support - Corporate	0844 822 844		
City Code: 22	Customer Service - Home and Small Business	0848 802 202		
•	Customer Service - Corporate	0848 821 721		
	Main	0848 335 599		
	Fax Switchboard	022 799 01 90		
Taiwan	Online Support	support.ap.dell.com		
Talwaii	Offinite Support	support.dell.com.cn/email		
International Access Code: 002	Technical Support for XPS computers only	toll-free: 0080 186 3085		
	Technical Support - OptiPlex, Latitude, Inspiron, Dimension,	toll-free: 0080 186 1011		
Country Code: 886	and Electronics and Accessories			
	Technical Support - Servers and Storage	toll-free: 0080 160 1256		
	Customer Service	toll-free: 0080 160 1250 (option 5)		
	Transaction Sales	toll-free: 0080 165 1228		
	Corporate Sales	toll-free: 0080 165 1227		
Thailand	Online Support	support.ap.dell.com		
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 0060 07		
International Access Code: 001	Technical Support (PowerApp, PowerEdge, PowerConnect,	toll-free: 1800 0600 09		
G . G	and PowerVault)			
Country Code: 66	Customer Service	toll-free: 1800 006 007 (option 7)		
	Corporate Sales	toll-free: 1800 006 009		
	Transaction Sales	toll-free: 1800 006 006		
Trinidad/Tobago	Online Support	www.dell.com/tt		
		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	toll-free: 1-888-799-5908		
	Online Support	www.dell.com/tc		
Turks and Caicos Islands		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	toll-free: 1-877-441-4735		
U.K. (Bracknell)	Online Support	support.euro.dell.com		
International Access Code: 00	Customer Service Online	dell_direct_support@dell.com		
Trees, Court of		support.euro.dell.com/uk/en/ECare/Form/Home.asp		
Country Code: 44	Sales Home and Small Business Sales	0870 907 4000		
-	Corporate/Public Sector Sales	01344 860 456		
City Code: 1344	Customer Service	1.1		
	Home and Small Business	0870 906 0010		
	Corporate	01344 373 185		
	Preferred Accounts (500–5000 employees)	0870 906 0010		
	Global Accounts	01344 373 186		
	Central Government	01344 373 193		
	Local Government & Education	01344 373 199		
		01344 373 194		
	Health			
	Health Technical Support			
		0870 366 4180		
	Technical Support  XPS Computers Only  Corporate/Preferred Accounts/PCA (1000+ employees)	0870 366 4180 0870 908 0500		
	Technical Support  XPS Computers Only  Corporate/Preferred Accounts/PCA (1000+ employees)  Other Dell Products	0870 366 4180		
	Technical Support  XPS Computers Only  Corporate/Preferred Accounts/PCA (1000+ employees)  Other Dell Products  General	0870 366 4180 0870 908 0500 0870 353 0800		
Uruguay	Technical Support  XPS Computers Only  Corporate/Preferred Accounts/PCA (1000+ employees)  Other Dell Products	0870 366 4180 0870 908 0500		

		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	toll-free: 000-413-598-2521		
U.S.A. (Austin, Texas)	Dell Services for the Deaf, Hard-of-Hearing, or Speech-	toll-free:1-877-DELLTTY		
International Access Code: 011	Impaired	(1-877-335-5889)		
G. A. G.L.1	Fax	toll-free: 1-800-727-8320		
Country Code: 1	Technical Support	support.dell.com		
	XPS	toll-free: 1-800-232-8544		
	Home and Home Office	toll-free: 1-800-624-9896		
	Portable and Desktop AutoTech	toll-free: 1-800-247-9362		
	Small Business	toll-free: 1-800-456-3355		
	Medium and Large Business	toll-free: 1-877-671-3355		
	State and Local Government	toll-free: 1-800-981-3355		
	Federal Government	toll-free: 1-800-727-1100		
	Healthcare	toll-free: 1-800-274-1550		
	K-12 Education	toll-free: 1-888-977-3355		
	Higher Education	toll-free: 1-800-274-7799		
	Printers, Projectors, PDAs, and MP3 Players	toll-free: 1-877-459-7298		
	Customer Service	toll-free: 1-800-624-9897		
	Automated Order Status	toll-free: 1-800-433-9014		
	Small Business	toll-free: 1-800-456-3355		
	Medium and Large Business	toll-free: 1-877-671-3355		
	State and Local Government	toll-free: 1-800-981-3355		
	Federal Government	toll-free: 1-800-727-1100		
	Healthcare	toll-free: 1-800-274-1550		
	K-12 Education	toll-free: 1-888-977-3355		
	Higher Education	toll-free: 1-800-274-7799		
	Employee Purchase Program (EPP)	toll-free: 1-800-695-8133		
	Financial Services	www.dellfinancialservices.com		
	Leases and Loans	toll-free: 1-877-577-3355		
	Dell Preferred Accounts (DPA)	toll-free: 1-800-283-2210		
	Sales	1-800-289-3355 or1-800-879-3355		
	Dell Outlet Store	toll-free: 1-888-798-7561		
	Software and Peripherals Sales	toll-free: 1-800-671-3355		
U.S. Virgin Islands	Online Support	www.dell.com/vi		
		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	toll-free: 1-877-702-4360		
Venezuela	Online Support	www.dell.com/ve		
		la-techsupport@dell.com		
	Technical Support, Customer Service, Sales	0800-100-4752		

# 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) (5.02 MB)

-	$\textbf{NOTES:} \ PDF \ files \ require \ Adobe \& \ Acrobat \& \ Reader \&, \ which \ can be \ downloaded \ from \ the \ Adobe \ website \ at \ \textbf{www.adobe.com} \ .$
	To view a PDF file, launch Acrobat Reader. Then click <b>File→ Open</b> and select the PDF file.

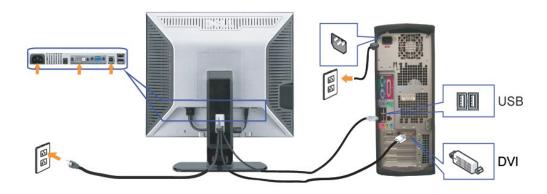
# **Setting Up Your Monitor**

**Dell™ SP1908FP Flat Panel Monitor User's Guide** 

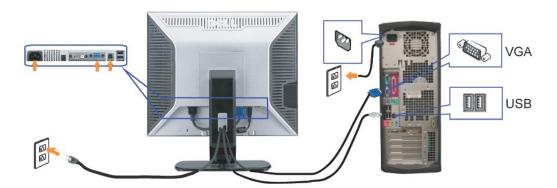
- Connecting Your Monitor
- Using the Front Panel
- Using the OSD Menu
- Setting the Optimal Resolution
- Using the Dell Soundbar (Optional)

# **Connecting Your Monitor**

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions.



OR



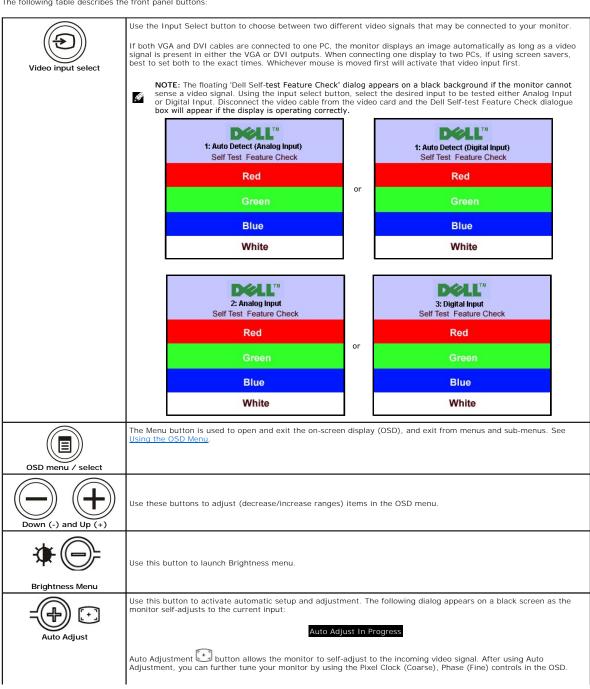
- 1. Turn off your computer and disconnect the power cable.
- $\textbf{2.} \ \ \text{Connect either the white DVI or the blue VGA cables to the connectors on the computer and the monitor.}$
- 3. Connect the USB cable that was included with your monitor to the computer and the upstream USB connector on the monitor. Once this cable is connected to computer and the monitor, you can use the USB connectors on the monitor.
- 4. Connect any USB devices.
- 5. Connect the power cables.
- 6. Turn on your monitor and computer. If you do not see an image, push the input select button and ensure the correct input source is selected. If you still do r see an image, see <u>Troubleshooting your monitor</u>.

# **Using the Front Panel**

Use the buttons on the front of the monitor to adjust the image settings.



The following table describes the front panel buttons:



NOTE: Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables. Use the power button to turn the monitor on and off.



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

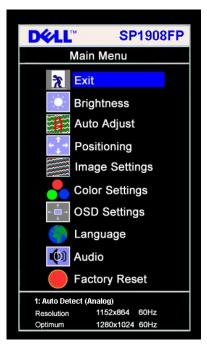
# Using the OSD Menu

NOTE: If you change the settings and then either proceed to another menu, or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Push the Menu button to open the OSD menu and display the main menu.

Main Menu for Auto Detect Analog (VGA) Input

Main Menu for Auto Detect Digital (DVI) Input





Main Menu for Analog (VGA) Input

Main Menu for Digital (DVI) Input





NOTE: Auto Adjust, Positioning and Image Settings are only available when you are using the analog (VGA) connector.

or

- 2. Push the and + buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the table below for a complete list of all the options available for the monitor.

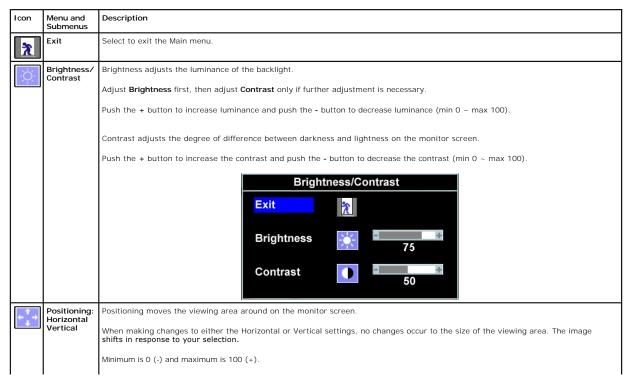
- Push the Menu button once to activate the highlighted option.

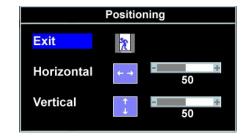
  Push and + button once to activate the highlighted option.

  Push and + button to select the desired parameter.

  Push Menu to enter the slide bar and then use the and + buttons, according to the indicators on the menu, to make your changes.

  Push the Menu button once to return to the main menu to select another option or push the Menu button two or three times to exit from the OSD menu.





NOTE: When using DVI source, the Positioning option is not available



#### Auto Adjust

Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup.

Select to activate automatic setup and adjustment. The following dialog appears on a black screen as the monitor self-adjusts to the

Auto Adjust In Progress

Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Image Settings.

NOTE: In most cases, Auto Adjust produces the best image for your configuration.

# I mage settings:

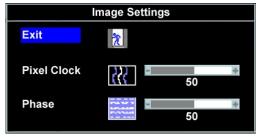
The Phase and Pixel Clock adjustments allow you to more closely adjust your monitor to your preference. Select Image Settings in the main OSD menu to access these settings.

#### Pixel Clock (Coarse)

Use the - and + buttons to make adjustments. (Minimum: 0 ~ Maximum: 100)

Phase (Fine)

If satisfactory results are not obtained using the Phase adjustment, use Pixel Clock (Coarse) and then use Phase (fine), again. NOTE: This function may change the width of the display image. Use the Horizontal function of the Position menu to center the display image on the screen.



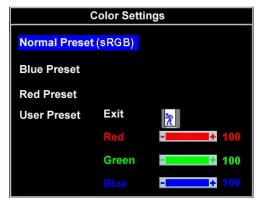
NOTE: When using DVI source, the Image Settings option is not available.



# Color

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

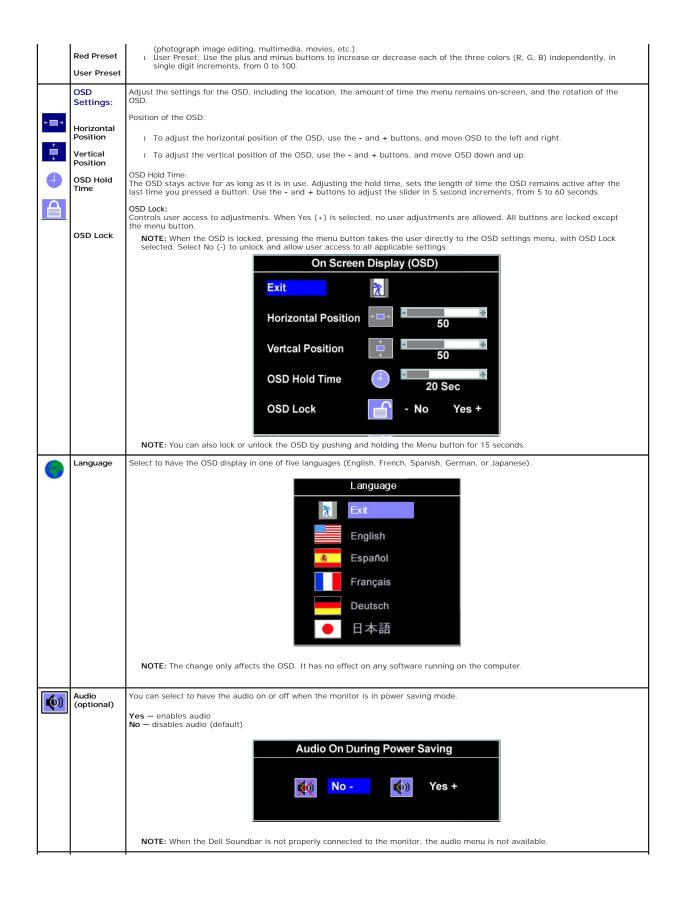
The color hue is most noticeable in areas of white



#### Normal Preset Blue Preset

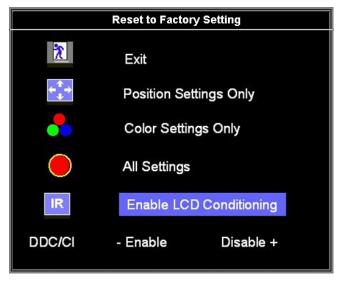
- 1 Normal Preset is selected to obtain the default (factory) color settings. This setting is also the "sRGB" standard default color space.

  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





Reset the OSD menu options to the factory preset values.



Exit — Select to exit out of Reset to Factory Settings menu without resetting any OSD options.

Position settings only — Change the settings for Image Position back to original factory settings.

Color settings only — Change the Red, Green, and Blue settings back to their original factory settings and set the default setting for Normal Preset.

All settings — Change all the user-adjustable settings including color, position, brightness, contrast and OSD hold time to the factory defaults. The language of the OSD does not change.

IR — This feature will help reduce minor cases of image retention.

Enable LCD Conditioning: If an image appears to be stuck on the monitor, select LCD Conditioning to help eliminate any image retention. Using the LCD Conditioning feature may take several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove burn-in.

 $\textbf{NOTE:} \ \textbf{Use LCD Conditioning only when you experience a problem with image retention.}$ 

Below warning message appears when you select "Enable LCD Conditioning":

This feature will help reduce minor cases of image retention.

Depending on the degree of image retention, the program may take some time to run.

Do you want to continue?

- No

Yes +

 $\textbf{NOTE:} \ \textbf{Press any button on the monitor to terminate LCD Conditioning at any time.} \\$ 

LCD Conditioning is currently in progress. Press any button on the monitor to terminate LCD Conditioning at any time.

DDC/CI — Enable the DDC/CI control function.

DDC/CI (Display Data Channel/Command Interface) allows you to adjust the monitor parameters (brightness, color balance, etc) via software applications on your PC.

Default is "Enable". Select Disable to disable this feature.

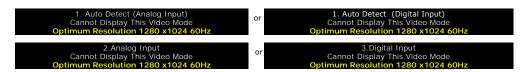
For best user experience and optimum performance of your monitor, keep this feature enabled.

 $\begin{tabular}{ll} \textbf{NOTE:} If you select Disable, a warning message as shown below appears. Select Yes to return to Factory Reset menu. Warning message time out in 20 sec. \end{tabular}$ 



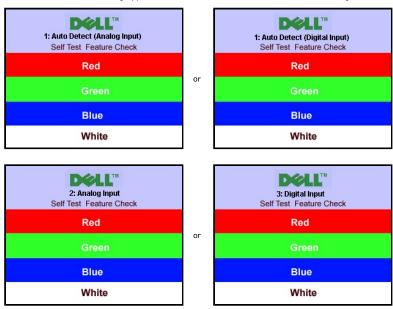
# **OSD Warning Messages**

One of the following warning messages may appear on the screen indicating that the monitor is out of synchronization.



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

NOTE: The floating Dell Self-test Feature Check dialog appears on-screen if the monitor cannot sense a video signal.



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

See Solving Problems for more information.

# **Setting the Optimal Resolution**

- Right-click on the desktop and select **Properties**. Select the **Settings** tab.
- Set the screen resolution to 1280 x 1024.

If you do not see 1280 x 1024 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following

If you have a Dell desktop or portable computer:

o Go to  ${\it support.dell.com}$ , enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop):

- o Go to the support site for your computer and download the latest graphic drivers.
- o Go to your graphics card website and download the latest graphic drivers.

# **Using the Dell Soundbar (Optional)**

The Dell Soundbar is a stereo two channel system adaptable to mount on Dell flat panel displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a blue LED for power indication, and two audio headset jacks.



- 1. Power/volume control
- 2. Power indicator
- 3. Headphone connectors

#### Soundbar Attachment to the Monitor



- 1. Working from the rear of the monitor, attach the Soundbar aligning the two slots with the two tabs along the bottom rear of the monitor.
- 2. Slide the Soundbar to the left until it snaps into place.
- 3. Plug in the power cord from the Soundbar into the connector on the back of the monitor.
- 4. Insert the lime-green mini stereo plug from the rear of the Soundbar into the computer's audio output jack.
- NOTICE: Do not use with any device other than Dell Soundbar
- NOTE: Soundbar Power Connector +12V DC output is for optional only.

# **Solving Problems**

Dell™ SP1908FP Flat Panel Monitor User's Guide

- Troubleshooting Your Monitor
- General Problems
- Product Specific Problems
- USB Problems
- Troubleshooting Your Soundbar



CAUTION: Before you begin any of the procedures in this section, follow the <u>safety instructions</u>.

# **Troubleshooting Your Monitor**

#### 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:

- Turn off both your computer and monitor.
   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.
   Turn on the monitor.
- - NOTE: The floating 'Dell Self-test Feature Check' dialog box should appear on a black background if the monitor cannot sense a video signal. Using the input select button, select the desired input to be tested either Analog Input or Digital Input. Disconnect the video cable from the video card and the Dell Self-test Feature Check dialogue box will appear if the display is operating correctly.



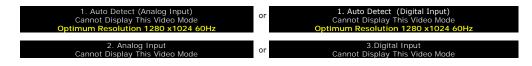
This box also appears during normal system operation if the video cable becomes disconnected or damaged.

4. Turn off your monitor and reconnect the video cable, then turn on both your computer and the monitor.

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

# **OSD Warning Messages**

One of the following warning messages may appear on the screen indicating that the monitor is out of synchronization.



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 1280 X 1024 @ 60Hz.

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

# **General Problems**

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

COMMON SYMPTOMS	PROBLEM DESCRIPTION	POSSIBLE SOLUTIONS			
No Video/Power LED off No picture, monitor is dead		Check connection integrity at the both ends of the video cable, verify that the monitor and computer are plugged into a working electrical outlet, and that you have pressed the power button.			
No Video/Power LED on	No picture or no brightness	Press the input select button in the front of the monitor and ensure the correct input source is selected. Increase brightness & contrast controls. Perform monitor self-test feature check. Check for bent or broken pins on the end of the video cable. Reboot your computer and monitor.			
Poor Focus	Picture is fuzzy, blurry, or ghosting	Push Auto Adjust button.     Adjust Phase and Clock controls via OSD.     Eliminate video extension cables.     Perform monitor reset.     Lower video resolution or increase font size.			
Shaky/Jittery Video	Wavy picture or fine movement	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 this is a natural defect that occurs in LCD technology.			
Brightness Problems	Picture too dim or too bright	Perform monitor reset.     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.     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. 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. Boot up in the "safe mode".			
LCD Scratched	Screen has scratches or smudges	Turn monitor off and clean the screen.     For cleaning instruction, see <u>Cleaning Your Monitor</u> .			
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 and off	1 Ensure monitor is in proper video mode. 1 Ensure video cable connection to computer and to the flat panel is secure. 1 Perform monitor reset. 1 Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.			
Image Retention (from a static image)	Faint Shadow from the static image displayed appears on the screen	Use the Power Management feature to turn off the monitor at all times when not in use. Alternatively, use a dynamically changing screensaver left on the monitor for a long period of time.			
		In OSD Menu, under Reset to Factory Settings, select Enable LCD Conditioning. Using this option may take several hours before the image is eliminated			

NOTE:	Image	Burn-in	is	not	covered	bv	vour	warra	antv

# **Product Specific Problemss**

SPECIFIC SYMPTOMS WHAT YOU EXPERIENCE P		POSSIBLE SOLUTIONS		
Screen image is too small	Image is centered on screen, but does not fill entire viewing area.	Perform monitor reset on "All Settings."		
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen.	Turn off the monitor, unplug the power cord and then plug back and turn on the monitor.		

# **USB Problems**

SPECIFIC SYMPTOMS WHAT YOU EXPERIENCE		POSSIBLE SOLUTIONS
USB interface is not working	USB peripherals are not working.	Check that your monitor is turned ON.     Reconnect the upstream cable to your computer.     Reconnect the USB peripherals (downstream connector).     Switch off and then turn on the monitor again.
High Speed USB 2.0 interface is slow	High Speed USB 2.0 peripherals working slowly or not at all.	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).

# **Troubleshooting Your Soundbar**

COMMON SYMPTOMS	WHAT YOU EXPERIENCE	POSSIBLE SOLUTIONS
No Sound	No power to Soundbar - the power indicator is off. (built-in DC power supply. i.e. SP1908FP)	Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (green LED) on the front of the Soundbar is illuminated.     Confirm that the power cable from the Soundbar is plugged into the monitor.     Confirm that the monitor has power.     If the monitor has no power, see <a href="Troubleshooting your monitor">Troubleshooting your monitor</a> for monitor common problem.
No Sound	Soundbar 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 Soundbar clockwise to a higher volume setting.  Clean and reseat the audio line-in plug.  Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Computer's sound card is used as the audio source.	Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the sound card. Set all Windows volume controls to their midpoints. Decrease the volume of the audio application. Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. Clean and reseat the audio line-in plug. Troubleshoot the computer's sound card. Test the Soundbar using another audio source (i.e. portable CD player).
Distorted Sound	Other audio source is used.	Clear any obstructions between the Soundbar and the user. Confirm that the audio line-in plug is completely inserted into the jack of the audio source. Decrease the volume of the audio source. Trun the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	Clear any obstructions between the Soundbar and the user.     Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source.     Set all Windows audio balance controls (L-R) to their midpoints.     Clean and reseat the audio line-in plug.     Troubleshoot the computer's sound card.     Test the Soundbar using another audio source (i.e. portable CD player).
Low Volume	Volume is too low.	Clear any obstructions between the Soundbar and the user.     Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting.     Set all Windows volume controls to their maximum.     Increase the volume of the audio application.     Test the Soundbar using another audio source (i.e. portable CD player).

# Using Your Adjustable Monitor Stand Dell™ SP1908FP Flat Panel Monitor User's Guide

- Attaching the Stand
- Organizing Your Cables
- Using the Tilt
- Removing the Stand

# Attaching the Stand

**NOTE**: The stand is detached when the monitor is shipped from the factory.



- Fit the groove on the monitor to the two tabs on the stand.
   Lower the monitor until it locks in to place on the stand.

# **Organizing Your Cables**



After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) use the cable hole to neatly organize all cables as shown above.

# Using the Tilt

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



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

# Removing the Stand



NOTE: After placing the monitor panel on a soft cloth or cushion, complete the following step to remove the stand.

- Press the stand release button.
   Lift the stand up and away from the monitor.