Dell[™] P2210H/P2310H Flat Panel Monitor User's Guide

About Your Monitor Setting Up the Monitor Operating the Monitor Troubleshooting Appendix

Note, Caution, and Warning

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

△ CAUTION: A CAUTION indicates potential damage to hardware or loess of data if instructions are not followed.

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

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Model P2210Hc/P2310Hc

June 2009 Rev. A00

About Your Monitor

Dell™ P2210H/P2310H Flat Panel Monitor User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Plug and Play Capability
- Universal Serial Bus (USB) Interface
- LCD Monitor Quality and Pixel Policy
- Maintenance Guidelines

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and contact Deli if something is missing.



NOTE: Some items may be optional and may not ship with your Monitor. Some features or media may not be available in certain countries.



1 USB up stream cable (enables the USB ports on the monitor)



Product Features

The P2210H/P2310H flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

- P2210H: 21.5-inch (548.86 mm) viewable area display (Measured diagonally).
- P2310H: 23-inch (584.2 mm) viewable area display (Measured diagonally).
- ■1920 x1080 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side-to-side.
- Tilt, swivel, vertical extension and rotate adjustment capability.
- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- Retractable label card allows convenient access to monitor serial number for technical support and easily hidden away providing label-free clean look.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Asset Management Capability.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- EPEAT Gold Rating
- Halogen Reduced

Identifying Parts and Controls

Front View



Lab	Description	
1	Function buttons (For more information, see <u>Operating the</u> <u>Monitor</u>)	
2	Power (with power light indicator)	

Back View



Label	Description	Use
1	VESA mounting holes (100 mm x 100 mm - behind attached base plate)	Wall mount monitor using VESA compatible wall mount kit (100 mm x 100 mm)
2	Stand removal button	Release stand from monitor
3	Security lock slot	Secures monitor with security cable lock
4	Dell Soundbar mounting brackets	Attaches the optional Dell Soundbar
5	Information mark	Help locating regulatory and barcode labels
6	Cable management slot	Organizes cables by placing them through the slot

Label Card View

NOTE: Monitor is shipped with label card fully inserted in USB compartment. Pull out the label card to access the barcode serial number label and regulatory rating label.



Back View with label card pulled out



Front View with label card pulled out

Label	Description	Use
1	Regulatory label	Lists the regulatory approvals
2	Barcode serial number label	Use to contact Dell for technical support

Side View



Left view

Right view

Label	Description	Use
1	USB downstream ports (2)	Connect your USB devices
2	Label Card Slot	For details, see Label Card View

Bottom View



Label Description Use AC power cord connector Connect the power cable DC power connector for Dell Soundbar Connect the power cord for the soundbar (optional) 2 3 DisplayPort connector Connect your computer DP cable 4 DVI connector Connect your computer DVI cable VGA connector Connect your computer VGA cable 5 Connect the USB cable, that shipped 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. 6 USB upstream port Connect your USB devices. You can only use this connector after you have connected the USB cable to the computer and USB upstream connector on the monitor. USB downstream ports (2)

Monitor Specifications

Flat Panel Specifications

Model number	Dell P2210H Flat Panel Monitor	Dell P2310H Flat Panel Monitor
Screen type	Active matrix - TFT LCD	Active matrix - TFT LCD
Panel type	TN	TN
Screen dimensions	21.5 inches (21.5-inch viewable image size)	23 inches (23-inch viewable image size)
Preset display area	476.64(H)X268.11(V)	509.18(H)X286.41(V)
Horizontal	476.64 mm (18.8 inch)	509.18 mm (20 inches)
Vertical	268.11 mm (10.6 inch)	286.41 mm (11.27 inches)
Pixel pitch	0.248 mm	0.265 mm
Viewing angle	160° (vertical) typical 170° (horizontal) typical	160° (vertical) typical 170° (horizontal) typical
Luminance output	250 CD/m²(typical)	250 CD/m²(typical)
Contrast ratio	1000 to 1 (typical), 10000 to 1 (typical Dynamic Contrast On)	1000 to 1 (typical), 10000 to 1 (typical Dynamic Contrast On)
Faceplate coating	Antiglare with hard-coating 3H	Antiglare with hard-coating 3H
Backlight	2-CCFL edgelight system	2-CCFL edgelight system
Response Time	5ms panel typical	5ms panel typical
Color depth	16.7 million colors	16.7 million colors
Color Gamut	83%*	83%*

*[P2210H/P2310H] color gamut (typical) is based on CIE1976 (83%) and CIE1931 (72%) test standards.

Appendix

Dell™ P2210H/P2310H Flat Panel Monitor User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting Dell

MARNING: Safety Instructions

MRRNING: 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.

For information on safety instructions, see the Product Information Guide.

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at www.dell.com\regulatory compliance.

Contacting Dell

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

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

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

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

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Setting Up Your Monitor Dell[™] P2210H/P2310H Flat Panel Monitor

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

1. Go to 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 1920 x1080 again.

🜠 NOTE: If you are unable to set the resolution to 1920 x1080, please contact Dell[™] to inquire about a Graphics Adapter that supports these resolutions.

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Setting Up Your Monitor Dell[™] P2210H/P2310H Flat Panel Monitor

If you have a non Dell[™] desktop, portable computer, or graphics 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. 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 1920 x1080 again.

NOTE: If you are unable to set the resolution to 1920 x1080, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1920 x1080.

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Operating the Monitor Dell[™] P2210H/P2310H Flat Panel Monitor User's Guide

- Power On the Monitor
- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- Setting the Maximum Resolution
- Using the Dell Soundbar (Optional)
- Using the Tilt, Swivel, and Vertical Extension
- Rotating the monitor
- Adjusting the Rotation Display Settings of Your System

Power On the Monitor





Using the Front Panel

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



Front panel Button		Description
A	Shortcut key/ Preset Modes	Use Preset Modes to set the display mode to Graphics or Video according to the input signal. Select Graphics if you are connecting a computer to your monitor. Select Video if you are connecting a DVD player, STB, or VCR player to your monitor.
В	Shortcut key / Brightness/Contrast	Use this button to directly access the "Brightness/Contrast" menu or to increase the values of the selected menu option.
C	Menu	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu. See <u>Accessing the Menu</u> <u>System</u> .



Front panel Key

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



	Front panel Key	Description
A	Up	Use the Up key to adjust (increase ranges) items in the OSD menu.
В	Down	Use the Down key to adjust (decrease ranges) items in the OSD menu.
С	→	Use the OK key to confirm your selection.
D	Back	Use the back key to back previous menu.

Using the On-Screen Display (OSD) Menu

Accessing the Menu System

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. Press the button to launch the OSD menu and display the main menu.

Main Menu for analog (VGA) Input

Menu			Dell P2X10H
Brightness/Contrast	Brightness	▶ 75	
[+] Auto Adjust	Contrast	▶ 75	
➡ Input source	Dynamic Contrast	▶ Off	
🛟 Color Settings			
Display Settings			
🛨 Other Settings			
🛨 Personalize			
Resolution: 1280x1024@	060Hz	Maximum Resolution:	1920x1080@60Hz

Main Menu for digital (DVI) Input

Menu			Dell P2X10H
Brightness/Contrast	Brightness	▶ 75	
[+] Auto Adjust	Contrast	▶ 75	
→ Input source	Dynamic Contrast	▶ Off	
🔥 Color Settings			
Display Settings			
🛨 Other Settings			
★ Personalize			
Resolution: 1280x102	4@60Hz	Maximum Resolution:	1920x1080@60Hz

or

Main Menu for displayport (DP) Input

Menu			Dell P2X10H
Brightness/Contrast	Brightness	> 75	
+) Auto Adjust	Contrast	▶ 75	
→ Input source	Dynamic Contrast	▶ Off	
Color Settings			
Display Settings			
🕂 Other Settings			
🛨 Personalize			

NOTE: AUTO ADJUST is only available when you use the analog (VGA) connector.

2. Press follo	the and wing table for a	buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the a complete list of all the options available for the monitor.
3. Press	the → butt	on once to activate the highlighted option.
4. Press	∧ _{and} ∨	button to select the desired parameter.
5. Press	→ to enter	the slide bar and then use the A and buttons, according to the indicators on the menu, to make your changes.
6. Select the Poption to return to the main menu or exit the OSD menu.		
Icon	Menu and Submenus	Description

Đ.	Brightness/ Contrast	Use this menu to activate Brightness/Contrast adjustment.
		Prightness 75 75 75 ** ** ** ** **
	Brightness	Brightness adjusts the luminance of the backlight.
		Press the dutton to increase brightness and press the dutton to decrease brightness (min 0 ~ max 100).
	Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Press the button to increase contrast and press the button to decrease contrast (min 0 ~ max 100), The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
	Dynamic Contrast	Dynamic Contrast adjusts the contrast ratio to 10000:1.
		Press the → button to select the Dynamic Contrast "On" or "Off".
(+)	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. 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.
		Auto Adjustment in Progress
		NOTE: Auto Adjust option is only available when you are using the analog (VGA) connector
		to re. Auto Aujust option is only available when you are using the dilatog (vok) connector.

→	Input Sourc e	Use the Input Source menu to	select between different	video signals that may be o	connected to your monitor.	
		Menu			Dell P2X10H	
		- C- Brightness/Contrast	🗸 Auto Select			
		[+] Auto Adjust	VGA	(***)		
		→ Input source	DVI-D	(IIII))		
		Color Settings	DisplayPort		_	
		Display Settings			~	
		 ➡ Other Settings				
		+ Personalize			· ·	
					→	
		Resolution: 1280x1024	@60Hz	Maximum Resolution: 1920x	1080@60Hz	
	Auto Course					
	Auto Source	Press 📩 to select the Auto	source, the monitor will	Auto detect the analog sign	nal.	
•	VGA	Select VGA input when you a	re using the analog (VGA	.) connector. Press 🗾 to s	select the VGA input source.	
00	DVI-D					
		Select DVI -D input when you	are using the Digital (DV	(I) connector. Press 1 to	select the DVI input source.	
	DisplayPort	Select DisplayPort input whe	en you are using the Disp	layPort (DP) connector. Pres	ss 🛃 to select the DisplayPort input source	e.
	Color Settin	Use the Color Settings to ad	just the color setting mod	de and color temperature.		
	5-	There are different color sett	ing sub-menus for VGA/D	VI-D and Video input.		
		Menu			Dell P2X10H	
		- • Brightness/Contrast	Input Color Format	▶ RGB		
		[+] Auto Adjust	Mode Selection	▶ Graphics		
		→ Input source	Preset Modes	Standard		
		Color Settings	Reset Color Settings			
		Display Settings			^	
		Ther Settings	_		→	
		★ Personalize				
			-			
					×	
		Resolution: 1280x1024	@60Hz	Maximum Resolution: 1920x	1080@60Hz	
	Input Color Format	Choose the RGB option if more connected to a DVD by a YPb	nitor is connected to a cor Pr to VGA or YPbPr to DVI	mputer or a DVD using a VG cable or if the DVD color ou	A or DVI cable. Choose the YPbPr option if m tput setting is not RGB.	onitor is
		Menu		(202	Dell P2X10H	
		- O- Brightness/Contrast	Input Color Format	V RGB		
		[+] Auto Adjust	Mode Selection	YPbPr		
			Preset Modes			
		Display Settings	Reset Color Settings			
					^	
					✓	
			-			
		Resolution: 1280v1024	@60Hz	Maximum Resolution: 1920*	1080@60Hz	
	Mode	You can choose Graphics or	Video according to the in	nut signal		
	Selection	rea can enouse Graphics Of	• Geo according to the In	par signar.		
		 Graphics: Select this n Video: Select this mod 	node if your monitor is co e if you monitor is connec	nnected to your computer. ted to a DVD player.		
	Preset Mode	When you select Graphics, y	ou can choose Standard,	Multimedia, Game, Warm,	, Cool, or Custom (R,G,B):	

1	s	I			
		1 Standard: Loads the m	ionitor's default color setti	ngs. This is the default preset mode. edia applications	
 Game: Loads color settings ideal for most gaming applications. Warm: Increase the color temperature. The screen appears warmer with a red/yellow tint. 			int		
		1 Cool: Decreases the co	lor temperature. The scree	en appears cooler with a blue tint.	
		 Custom (R, G, B): Allo (R, G, B) values and crossing 	ws you to manually adjust eate your own preset color	the color settings. Press the A and mode.	buttons to adjust the three colors
		Menu		Dell P2X10H	
		- • Brightness/Contrast	Input Color Format	✓ Standard	
		[+] Auto Adjust	Mode Selection	Multimedia	
		-→ Input source	Preset Modes	Game	
		Color Settings	Reset Color Settings	Warm	
		Display Settings		Cool	^
				Custom (RGB)	×
		★ Personalize			
					×
					5
		Resolution: 1280x1024	@60Hz N	laximum Resolution: 1920x1080@60Hz	
		When you select Video , you	can choose Movie, Game,	Sports, or Nature preset:	
		1 Movie: Loads color set	tings ideal for movies. This	s is the default preset mode.	
		 Sports: Loads color set Game: Loads color set 	ttings ideal for sports. ings ideal for game.		
		1 Nature: Loads color se	ttings ideal for nature.		
		Menu		Dell P2X10H	
		-) 	Input Color Format		
		[+] Auto Adjust	Mode Selection		
		→ Input source	Preset Modes	✓ Movie	
		Color Settings	Hue	Game	
		Display Settings	Saturation	Sports	^
			Reset Color Settings	Nature	×
		★ Personalize			
					×
					5
		Resolution: 1280x1024	@60Hz N	laximum Resolution: 1920x1080@60Hz	5
	Hue	This feature can shift color of '0' to '100'.	video image to green or p	urple. This is used to correct the flesh	tone color. Use to adjust the hue from
		Press to increase the or	een shade of the video im	age.	
		Press to increase the pu	Irple shade of the video im	age.	
			P		
		NOTE: Hue adjustment is ava	ilable only for video input.		
	Saturation	This feature can adjust the co	olor saturation of the video	image. Use to adjust the saturation fr	om '0' to '100'.
		Press to increase the m	onochrome appearance of	the video image.	
		Press to increase the co	lorful appearance of the v	ideo image.	
		NOTE: Saturation adjustment	is available only for video	innut	
			is available offig for video	mpar.	
	Reset Color	Reset your monitor color sett	ings to the factory settings	S.	

	Sottings	Use the Display Settings to adjust image.					
	Settings	Мари		Doll P2Y1	01		
		·o. Brightness/Contrast	Wide Mode	▶ Fill			
		T+1 Auto Adjust	Horizontal Position	b 50	_		
		Input source	Vertical Position	▶ 50			
		Color Settings	Sharpness	▶ 50			
		Display Settings	Pixel Clock	b 50			
		to Other Settings	Phase	5 2			
		Personalize	Reset Display Settings	F 52	► ▼		
			4@60Hz	Maximum Resolution: 1920x1080@60	Hz ×		
	Wide Mode	Adjust the image ratio as 4:	3 or full screen.				
	Horizontal P osition	Use the 🔨 or 🔽 to adju	ust image left or right. Minir	num is '0' (-). Maximum is '100' (+).			
	Vertical Pos ition	Use the A or V to adju	ust image up or down. Minii	num is '0' (-). Maximum is '100' (+)			
	Sharpness	This feature can make the ir	nage look sharper or softer	. Use or V to adjust the sh	harpness from '0' to '100'.		
	Pixel Clock	The Phase and Pixel Clock a	djustments allow you to ad	just your monitor to your preferen	ce.		
		Use the 🏠 or 🎽 to adj	ust for best image quality.				
	Phase	If satisfactory results are no (fine) again.	ot obtained using the Phase	adjustment, use the Pixel Clock (coarse) adjustment and then use Phase		
		NOTE: Pixel Clock and Phas					
	Reset	NOTE: Pixel Clock and Phase Adjustments are only available for "VGA" input. Select this option to restore default display settings.					
	Display						
ŧ	Jettings						
井	Other Settings	Select this option to adjust screen, and so on.	the settings of the OSD, su	ch as, the languages of the OSD, th	he amount of time the menu remains on		
뱎	Other Settings	Select this option to adjust screen, and so on.	the settings of the OSD, su	ch as, the languages of the OSD, the OS	he amount of time the menu remains on		
Ħ	Other Settings	Select this option to adjust screen, and so on.	the settings of the OSD, su	ch as, the languages of the OSD, the OS	he amount of time the menu remains on OH		
tt	Other Settings	Select this option to adjust screen, and so on.	the settings of the OSD, su	ch as, the languages of the OSD, the OSD, the OSD, the OSD, the OSD of the OSD, the OSD of the OSD	he amount of time the menu remains on OH		
Ħ	Other Settings	Select this option to adjust a screen, and so on. Menu $\dot{\phi}$: Brightness/Contrast i Auto Adjust i input source	the settings of the OSD, su Language Menu Transparency Menu Timer	Ch as, the languages of the OSD, the Dell P2X1 English 20 20 20 s	he amount of time the menu remains on		
Ħ	Other Settings	Select this option to adjust a screen, and so on.	the settings of the OSD, su Language Menu Transparency Menu Timer Menu Lock	ch as, the languages of the OSD, the Dell P2X1 ▶ English ▶ 20 ▶ 20 s ▶ Unlock	he amount of time the menu remains on		
Ħ	Other Settings	Select this option to adjust a screen, and so on. Menu $\dot{\phi}$: Brightness/Contrast $\textcircled{\ }$ Auto Adjust $\begin{array}{c} \hline \\ \hline $	the settings of the OSD, su Language Menu Transparency Menu Timer Menu Lock Menu Rotation	ch as, the languages of the OSD, the Dell P2X1 Dell P2X1 English 20 20 s Unlock Landscape	he amount of time the menu remains on		
ŧ	Other Settings	Select this option to adjust a screen, and so on.	Language Menu Transparency Menu Lock Menu Rotation Power Save Audio	ch as, the languages of the OSD, th Dell P2X1 English 20 20 s Unlock Landscape On	he amount of time the menu remains on		
Ħ	Other Settings	Select this option to adjust i screen, and so on. Menu	Language Menu Transparency Menu Timer Menu Lock Menu Rotation Power Save Audio DDC/CI	Ch as, the languages of the OSD, the Dell P2X1	he amount of time the menu remains on		
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Ħ	Other Settings	Select this option to adjust a screen, and so on.	the settings of the OSD, su Language Menu Transparency Menu Timer Menu Lock Menu Rotation Power Save Audio DDC/Cl LCD Conditioning Factory Reset	ch as, the languages of the OSD, the Dell P2X1 English 20 20 s Unlock Landscape On Enable Disable	he amount of time the menu remains on		
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			Language	Dell P2X10H	
		F+ Auto Adjust	Menu Transparency		
		Input source	Manu Timer		
		Color Settings	Menu Lock		
		Display Settings	Menu Rotation		<u>^</u>
		⇒ Other Settings	Power Save Audio		
		+ Personalize	DDC/CI	✓ Enable	×
			LCD Conditioning	Disable	×
			Factory Reset		
		(Resolution: 1280x1024@	260Hz Max	ximum Resolution: 1920x1080@60Hz	5
	LCD Conditioning	Helps reduce minor cases of in You can enable this feature by	nage retention. Depending selecting "Enable".	on the degree of image retention, the Dell P2X10H	e program may take some time to run.
		- o Brightness/Contrast	Language		
		[+] Auto Adjust	Menu Transparency		
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		Color Settings	Menu Lock		
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		Resolution: 1280x1024@	960Hz Max	ximum Resolution: 1920x1080@60Hz	9
	Factory Res et	Reset all OSD settings to the f	actory preset values.		
*	Personalize	User can select from "Preset M	lodes", "Brightness/Contras	st", "Auto Adjust", "Input Source", "E Dell P2X10H	Energy Modes" and set as shortcut key.
		- • Brightness/Contrast	Shortcut Key 1	✓ Preset Modes	
		[+] Auto Adjust	Shortcut Key 2	Brightness/Contrast	
		→ Input source		Auto Adjust	
		🔒 Color Settings		Input Source	_
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		1 Other Settings			
		+ Personalize			×
					✓
		Resolution: 1280x1024@	060Hz Max	ximum Resolution: 1920x1080@60Hz	5



OSD Warning Messages

When Dynamic Contrast Feature is enabled (in these modes: Game, Movie, Sport and Nature), the manual brightness adjustment is disabled.



When the monitor does not support a particular resolution mode you will see the following message:



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See <u>Monitor Specifications</u> for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920x1080.

You will see the following message before the DDC/CI function is disabled.

WARNING MESSAGE		Dell P2X10H
The function of adjusting display set	ting using PC application will be disabled.	
Do you wish to disable DDC/CI func	tion? NO Yes	

When monitor enters Power Save mode, the following message appears:

MESSAGE	Dell P2X10H
Entering Power Save Mode.	
• • ••	

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

If you press any button other than the power button one of the following messages will appear depending on the selected input: VGA/DVI-D/DP input



If either VGA or DVI-D or DP input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as shown below appears.



See Solving Problems for more information.

Setting the Maximum Resolution

To set the Maximum resolution for the monitor:

- Right-click on the desktop and select Properties. 1.
- Select the Settings tab.
 Set the screen resolution to 1920 x 1080.
 Click OK.

If you do not see 1920 x 1080 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

- 1 If you have a Dell desktop or portable computer:

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.



4. Headphone jacks

Using the Tilt, Swivel, and Vertical Extension

Tilt, Swivel

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



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

Vertical Extension

NOTE: The stand extends vertically up to 100 mm. The figures below illustrate how to extend the stand vertically.



Rotating the Monitor

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





Adjusting the Rotation Display Settings of Your System

After you have rotated your monitor, you need to complete the procedure below to adjust the Rotation Display Settings of Your System.

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

To adjust the Rotation Display Settings:

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

MOTE: 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.

Setting Up Your Monitor

Dell™ P2210H/P2310H Flat Panel Monitor

Setting the display resolution to 1920 x1080 (maximum)

For optimal display performance while using the Microsoft Windows operating systems, set the display resolution to 1920x1080 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 1920 x1080

4. Click OK.

If you do not see 1920 x1080 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 or a Dell[™] portable computer with internet access.

2: If you have a non Dell™ desktop, portable computer, or graphics card.

Dell[™] P2210H/P2310H Flat Panel Monitor

User Guide

Setting the display resolution to 1920 x1080(maximum).

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Model P2210Hc/P2310Hc

June 2009 Rev. A00

Setting Up the Monitor Dell[™] P2210H/P2310H Flat Panel Monitor User's Guide

- Attaching the Stand
- Connecting the Monitor
- Organizing Your Cables
- Attaching the Soundbar (optional)
- Removing the Stand
- Wall Mounting (Optional)

Attaching the Stand

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



To attach the monitor stand:

- Remove the cover and place the monitor on it.
 Fit the two tabs on the upper part of the stand to the groove on the back of the monitor.
 Press the stand till it snaps into its place.

Connecting Your Monitor

WARNING: Before you begin any of the procedures in this section, follow the <u>Safety Instructions</u>.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.

Connect the blue (VGA) cable from your monitor to your computer.





NOTE: If your computer supports a white DVI connector, unscrew and detach the blue (VGA) cable from the monitor and then connect the White DVI cable to the monitor and the white DVI connector on your computer.



NOTE: Do not connect the blue VGA , the White DVI and the black DisplayPort cables to the computer at the same time. All monitors are shipped with the VGA (blue) cable attached by default.

 Connect the white (digital DVI-D) or the blue (analog VGA) or the black (DisplayPort) display connector cable to the corresponding video port on the back of your computer. Do not use three cables on the same computer. Use all the cables only when they are connected to three different computers with appropriate video systems.

Connecting the white DVI cable



Connecting the blue VGA cable



Connecting the black DisplayPort cable



NOTE: The Graphics are used for the purpose of illustration only. Appearance of the computer may vary.

Connecting the USB cable

After you have completed connecting the DVI/VGA/DP cable, follow the procedure below to connect the USB cable to the computer and complete your monitor setup

- Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer.
 Connect USB peripherals to the downstream USB ports (side or bottom) on the monitor. (See <u>side</u> or <u>bottom</u> view for details.)
 Plug the power cables for your computer and monitor into a nearby outlet.
 Turn on the monitor and the computer. If your monitor displays an image, installation is complete. If it does not display an image, see <u>Solving Problems</u>.
 Use the cable slot on the monitor stand to organize the cables.

Organizing Your Cables



After attaching all necessary cables to your monitor and computer, (see <u>Connecting Your Monitor</u> for cable attachment) use the cable management slot to organize all cables as shown above.

Attaching the Soundbar (Optional)



 \triangle CAUTION: Do not use with any device other than the Dell Soundbar.

NOTE: The soundbar power connector (+12 V DC output) is for the optional Dell Soundbar only.

To attach the soundbar:

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

Removing the Stand

🜠 NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a soft, clean surface.



To remove the stand:

- Place the monitor on a flat surface.
 Press and hold the Stand release button.
 Lift the stand up and away from the monitor.

Wall Mounting (Optional)



(Screw dimension: M4 x 10mm).

Refer to the instructions that come with the VESA compatible base mounting kit.

- Place the monitor panel on a soft cloth or cushion on stable flat table.
 Remove the stand.
 Use a screwdriver to remove the four screws securing the plastic cover.
 Attach the mounting bracket from the wall mounting kit to the LCD.
 Mount the LCD on the wall by following the instructions that came with the base mounting kit.

NOTE: For use only with UL Listed Wall Mount Bracket with minimum weight/load bearing capacity of 5.05 kg.

Troubleshooting

Dell[™] P2210H/P2310H Flat Panel Monitor

- Self-Test
- Built-in Diagnostics
- ٩ Common Problems
- Product Specific Problems
- Universal Serial Bus Specific Problems
- Dell Soundbar Problems

WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

Self-Test

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 the monitor.
 Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all Digital (white connector) and the Analog (blue connector) cables from the back of computer.
- 3. Turn on the monitor

The floating 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, because your monitor is functioning properly

NOTE: Self test feature check is not available for S-Video, Composite, and Component video modes.

Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

MOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in self-test mode.



To run the built-in diagnostics:

- Ensure that the screen is clean (no dust particles on the surface of the screen). Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode. Press and hold the **Button 1** and **Button 4** on the front panel, simultaneously for 2 seconds. A gray screen appears. Carefully inspect the screen for abnormalities. Press the **Button 4** on the front panel again. The color of the screen changes to red. Inspect the display for any abnormalities. Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.
- 1. 2. 3. 4. 5.
- 6. 7.

The test is complete when the white screen appears. To exit, press the ${\bf Button} \; {\bf 4} \; {\bf again.}$

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	 Ensure that the video cable connecting the monitor and the computer is properly connected and secure. Verify that the power outlet is functioning properly using any other electrical equipment. Ensure that the power button is depressed fully.
No Video/Power LED on	No picture or no brightness	 Increase brightness & contrast controls via OSD. Perform monitor self-test feature check. Check for bent or broken pins in the video cable connector. Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	 Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Eliminate video extension cables. Reset the monitor to Factory Settings. Change the video resolution to the correct aspect ratio (16:9).
Shaky/Jittery Video	Wavy picture or fine movement	 Perform Auto Adjust via OSD. Adjust the Phase and Pixel Clock controls via OSD. Reset the monitor to Factory Settings. Check environmental factors. Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	 Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright spots	 Cycle power on-off. Pixel that is permanently off is a natural defect that can occur in LCD technology. Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	 Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	 Reset the monitor to Factory Settings. Auto Adjust via OSD. Adjust brightness & contrast controls via OSD.

1		NOTE: When using '2: DVI-D', the positioning adjustments are not available.
Horizontal/Vertical Lines	Screen has one or more lines	 Reset the monitor to Factory Settings. Perform Auto Adjust via OSD. Adjust Phase and Pixel 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 in the video cable connector. Run the built-in diagnostics.
Synchronization Problems	Screen is scrambled or appears	NOTE: When using 2: DVI-D , the Pixel Clock and Phase adjustments are not available.
	torn	 Nestor Matto Adjust via OSD. Perform Auto Adjust via OSD. Adjust Phase and Pixel Clock controls via OSD. Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. Check for bent or broken pins in the video cable connector. Restart the computer in the safe mode.
Safety Related Issues	Visible signs of smoke or sparks	Do not perform any troubleshooting steps. Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	 Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Reset the monitor to Factory 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. Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. Check for bent or broken pins in the video cable connector.
Wrong Color	Picture color not good	 Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application. Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off. Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD. Run the built-in diagnostics.
Image retention from a static image left on the monitor for a long period of time	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 (for more information, see <u>Power Management Modes</u>). Alternatively, use a dynamically changing screensaver.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	Check the Scaling Ratio setting in Image Setting OSD Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	1 Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
No Input Signal when user controls are pressed	No picture, the LED light is green. When you press "+", "-" or "Menu" key, the message "No S-Video input signal", or "No Composite input signal", or "No Component input signal" appears	 Check the signal source. Ensure the Computer is not in the power saving mode by moving the 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 properly. Re-plug the signal cable if necessary. Reset the computer or video player.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	 Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen. Run the built-in diagnostics.

NOTE: When choosing DVI-D mode, the **Auto Adjust** function is not available.

Universal Serial Bus (USB) Specific 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. Reboot the computer. Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	 Check that your computer is USB 2.0-capable. Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. Reconnect the upstream cable to your computer. Reconnect the USB peripherals (downstream connector). Reboot the computer.

Dell™ Soundbar Problems

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off	 Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (Blue LED) on the front of the Soundbar is illuminated. Confirm that the power cable from the Soundbar is plugged into the adapter.
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, MP3 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. Turn 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, MP3 player).