Dell Projector 1220 User's Guide



Notes, Cautions, and Warnings



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



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



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

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Model: Dell Projector 1220

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1 Your Dell Projector

Your Dell 1220 Projector ships with the necessary cables and documentation to get you started! Visit **www.dell.com/support** to explore further support options.



About Your Projector



1	Status indicators
2	IR receivers
3	Speaker
4	Lens
5	Focus ring
6	Zoom tab
7	Power button
8	Lamp cover
9	Mounting holes for ceiling mount
10	Tilt adjustment wheel



NOTE: Ceiling mount screw hole M3 x 6.5mm depth. Recommended torque <15 kgf-cm.

✓ CAUTION: Safety Instructions

- 1 Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- 2 Do not use the projector in a dusty environment. Excess dust can cause system failures and eventually will shut down your projector.
- **3** Ensure that the projector is mounted in a well-ventilated area.
- 4 Do not block the ventilation slots and openings on the projector.

- **5** Ensure that the projector operates between ambient temperatures of (5 $^{\circ}$ C to 40 $^{\circ}$ C).
- **6** Do not touch the ventilation outlet as it will become heated during operation or immediately after the projector is turned off.
- **7** Do not look into the lens while the projector is on as it may cause injury to your eyes.
- **8** Do not place any objects near or in front of the projector or cover its lens while the projector is on as the heat may cause the object to melt or burn.
- 9 Do not use alcohol to wipe the lens.

MOTE:

- Do not attempt to ceiling mount the projector yourself. It should be installed by a qualified technician.
- Recommended Projector Ceiling Mount Kit (P/N: C3505). For more information, see the Dell Support website at dell.com/support.
- •For more information, see the Safety Information that shipped with your projector.
- •The 1220 projector can only be used indoors.

Connecting Your Projector



- 1 VGA output (monitor loop 5 HDMI connector through) connector
- 2 VGA input (D-sub) connector
- 3 Power cord connector
- 4 Mini USB (mini type B) connector for remote mouse and firmware upgrade
- 7 Composite Video connector
- 8 Audio output connector

6 Audio input connector

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions as described on page 5.

Connecting to a Computer

Connecting a Computer Using a VGA Cable



- 1 Power cord
- 2 VGA to VGA cable
- 3 USB-A to Mini USB-B cable



NOTE:

- 1 The Mini USB cable is not shipped with your projector. You can purchase the Mini USB (USB-A to Mini USB-B) cable on the Dell website at www.dell.com.
- 2 The Mini USB cable must be connected if you want to use the Page Up and Page Down features on the remote control.

Monitor Loop-Through Connection Using VGA Cables



1 Power co	rd
------------	----

2 VGA to VGA cable

NOTE: Only one VGA cable is shipped with your projector. Any additional cables can be purchased from **www.dell.com**.

Connecting a DVD Player

Connecting a DVD Player Using a HDMI Cable



- 1 Power cord
- 2 HDMI cable

NOTE: The HDMI cable is not shipped with your projector. You can purchase the HDMI cable on the Dell website at **www.dell.com**.

Connecting a DVD Player Using a Composite Video Cable



- 1 Power cord
- 2 Composite Video cable

NOTE: The Composite Video cable is not shipped with your projector. You can purchase the Composite Video Extension (50 ft/100 ft) cable on the Dell website at **www.dell.com**.

Using Your Projector

Turning Your Projector On

- **NOTE:** Turn on the projector before you turn on the source (computer, DVD player, etc.). The Power button light blinks white until pressed.
- 1 Connect the power cord and appropriate signal cables to the projector. For information about connecting the projector, see "Connecting Your Projector" on page 7.
- 2 Press the **Power** button (see "Using the Remote Control" on page 18 to locate the **Power** button).
- 3 Turn on your source (computer, DVD player, etc).
- 4 Connect your source to the projector using the appropriate cable. See "Connecting Your Projector" on page 7 for instructions to connect your source to the projector.
- **5** By default, the input source of the projector is set to VGA-In. Change the input source of the projector if necessary.
- 6 If you have multiple sources connected to the projector, press the Source button on the remote control to select the desired source. See "Using the Remote Control" on page 18 to locate the Source button.

Turning Your Projector Off



1 Press the **Power** button. Follow the instruction displayed on screen to properly turn off the projector.



NOTE: The "Press Power Button to Turn off Projector" message will appear on the screen. The message disappears after 5 seconds or you can press the Menu button to clear it.

- 2 Press the **Power** button again. The cooling fans continue to operate for 120 seconds.
- **3** To power off the projector quickly, press the Power button and hold for 1 second while the projector's cooling fans are still running.



NOTE: Before you turn on the projector again, wait for 60 seconds to allow the internal temperature to stabilize.

4 Disconnect the power cord from the electrical outlet and the projector.

Adjusting the Projected Image

Raising the Projector Height

- **1** Raise the projector to the desired display angle, and use the front tilt adjustment wheel to fine-tune the display angle.
- **2** Use the tilt adjustment wheels to fine-tune the display angle.

Lowering the Projector Height

1 Lower the projector, and use the front tilt adjustment wheel to fine-tune the display angle.



- 1 Front tilt adjustment wheel (Angle of tilt: -5 to 5 degrees)
- 2 Tilt adjustment wheel

Adjusting the Projector Focus

1 Rotate the focus tab until the image is clear. The projector focuses at distances ranging between 3.94 ft - 32.81 ft (1.2 m - 10 m).



1	Zoom tab
2	Focus ring



Adjusting Projection Image Size

_			Min Zoo	m	
Projection Distance			Projector base to	Projector base to	
(m) [A]	Diagonal (inch/cm) [B]	Width (cm) [W]	Height (cm) [H]	top of image (cm) [C]	bottom of image (cm) [D]
1.2	27.4"/69.6 cm	56	42	48	6
3	69"/ 175.26 cm	140	105	120	15
5	114"/ 289.56 cm	233	174	201	27
7	160"/ 406.4 cm	326	244	281	37
9	206"/ 523.24 cm	419	314	361	47
10	229"/ 581.66 cm	465	349	401	52

	Max Zoom				
Projection Distance		Image size		 Projector base to 	
(m) [A]	Diagonal (inch/cm) [B]	Width (cm) [W]	Height (cm) [H]	top of image (cm) [C]	bottom of image (cm) [D]
1.2	30"/ 76.2 cm	62	46	53	7
3	76"/ 193.04 cm	154	115	133	18
5	126"/ 320.04 cm	256	192	221	29
7	177"/ 449.58 cm	359	269	310	41
9	227"/ 576.58 cm	462	346	398	52
10	252.4"/ 641.1 cm	513	385	442	57

* This graph is for user reference only.

* Offset Ratio: 115±5%



Using the Remote Control



1

2

3

5	Aspect Ratio	Press to change the aspect ratio of a displayed image.
6	Mute 🐨	Press to mute or un-mute the projector speaker.
7	Video mode	The projector has preset configurations that are optimized for displaying data (presentation slides) or video (movies, games, etc.).
		Press the Video Mode button to toggle between Presentation mode , Bright mode , Movie mode , sRGB , or Custom mode .
		Pressing the Video Mode button once will show the current display mode. Pressing the Video Mode button again will switch between modes.
8	Mouse up 🔺	Press to move to the previous page.
		NOTE: The Mini USB cable must be connected if you want to use the Page Up feature.
9	Mouse down 🔻	Press to move to the next page.
		NOTE: The Mini USB cable must be connected if you want to use the Page Down feature.
10	Freeze	Press to pause the screen image, then press "Freeze" again to unfreeze the image.
11	Blank screen	Press to hide/unhide the image.
12	Information	Press to provide projector native resolution information.
13	HDMI	Press to choose HDMI source.
14	Up 🔊	Press to navigate through the On-Screen Display (OSD) Menu items.
15	Left	Press to navigate through the On-Screen Display (OSD) Menu items.
16	Menu	Press to activate the OSD.

18	Source	Press to switch between Analog RGB, Composite, Component (YPbPr, via VGA), HDMI, and S-Video source.
19	Volume down 🐨	Press to decrease the volume.
20	Keystone adjustment +	Press to adjust image distortion caused by tilting the projector (+/-40 degrees).
21	Keystone adjustment -	Press to adjust image distortion caused by tilting the projector (+/-40 degrees).
22	Auto Adjust	Press to synchronize the projector with the input source. Auto adjust does not operate if the OSD is displayed.
23	Zoom +	Press to increase the image.
24	Zoom -	Press to decrease the image.
25	VGA	Press to choose VGA source.
26	Video	Press to choose Composite Video source.

Installing the Remote Control Batteries

- **NOTE:** Remove the batteries from the remote control when not in use.
 - 1 Press the tab to lift the battery compartment cover.

2 Check the polarity (+/-) marking on the batteries.

- **3** Insert the batteries and align their polarity correctly according to the marking in the battery compartment.
- **NOTE:** Avoid mixing different types of batteries or using new and old batteries together.
 - 4 Slip the battery cover back.

Downloaded From projector-manual.com DELL Manuals







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Operating Range with Optional Remote Control



NOTE: Actual operating range may slightly differ from the diagram. Weak battery will also prevent the remote control from properly operating the projector.

Using the On-Screen Display

- The projector has a multi-language On-Screen Display (OSD) Menu that can be displayed with or without an input source.
- Press the Menu button on the remote control to enter the Main Menu.
- To navigate through the tabs in the Main Menu, press the 🔊 or 💟 buttons on the remote control.
- To select a submenu, press the \bigcirc or \ge button on the remote control.
- To select an option, press the ∧ or ∨ buttons on the remote control. When an item is selected, the color changes to dark blue.
- Use the $\overline{|A|}$ or $\overline{|V|}$ buttons on the remote control to adjust the settings.
- To go back to the Main Menu, press the < button on the remote control.
- To exit the OSD, press the Menu button directly on the remote control.

INPUT SOURCE

The Input Source menu allows you to select your projector's input source.

Menu		Dell 1220
➔ Input Source	Auto Source	
📧 Auto Adjust	VGA	
🔆 Brightness/Contrast	HDMI	
🛟 Video Mode	Composite	0
🖒 Audio Volume		
🛱 Advanced Settings		
🕲 Language		
? Help		
Besolution : 800x600		

AUTO SOURCE—If you press \bigcirc to activate, the Auto Source option will automatically find the next available input source.

VGA—Press 🕢 to detect a VGA signal.

HDMI—Press 🕢 to detect a HDMI signal.

COMPOSITE—Press 🕢 to detect a Composite Video signal.

AUTO ADJUST

Auto Adjust automatically adjusts the projector's **Horizontal**, **Vertical**, **Frequency**, and **Tracking** in PC mode.



BRIGHTNESS/CONTRAST

The Brightness/Contrast menu allows you adjust the brightness/contrast settings of your projector.



BRIGHTNESS—Use \land and \bigvee to adjust the brightness of the image.

CONTRAST—Use And V to adjust the display contrast.

NOTE: If you adjust the settings for **Brightness** and **Contrast** the projector automatically switches to Custom mode.

VIDEO MODE

The Video Mode menu allows you to optimize the display image: **Presentation**, **Bright**, **Movie**, **sRGB** (provides more accurate color representation), and **Custom** (set your preferred settings).

Menu	Dell 1220
➔ Input Source	✓ Presentation
💽 Auto Adjust	Bright
🔆 Brightness/Contrast	Movie
🔶 Video Mode	sRGB
🖞 Audio Volume	Custom
🛱 Advanced Settings	
😮 Language	
? Help	
Besolution : 800x600	

AUDIO VOLUME

The Audio Volume menu allows you to adjust the audio volume settings of your projector.



AUDIO VOLUME—Press \land to increase the audio volume and \bigvee to decrease the audio volume.

ADVANCED SETTINGS

The Advanced Settings menu allows you to change the settings for **Image**, **Display**, **Projector**, **Menu**, **Power**, and **Information**.

Menu	Dell 1220
➔ Input Source	Press 🖌 to change settings below.
💽 Auto Adjust	Image Settings
🔆 Brightness/Contrast	Display Settings
🛟 Video Mode	Projector Settings
🖞 Audio Volume	Menu Settings
🚔 Advanced Settings	Power Settings
🔇 Language	Information
? Help	
■ Resolution : 800x600	

IMAGE SETTINGS (IN PC MODE)—Select and press \bigcirc to activate image settings. The image settings menu provides the following options:

Advanced Settings				Dell 1220
Image Settings	Color Temperature	•	Mid	
Display Settings	RGB Color Adjust	•	R: 50 G: 5	0 B: 50
Projector Settings	White Intensity	•	10	
Menu Settings	Color Space	•	RGB	
Power Settings				
Information				
Besolution : 800x600				

COLOR TEMPERATURE—Allows you to adjust the color temperature. The screen appears cooler at higher color temperatures and warmer at lower color temperatures. When you adjust the values in the **Color Adjust** menu, the Custom mode is activated. The values are saved in the Custom mode.

RGB COLOR ADJUST—Allows you to manually adjust the colors red, green, and blue.

WHITE INTENSITY—Press \bigcirc and use \bigwedge and \bigtriangledown to display white intensity.

COLOR SPACE—Allows you to select the color space. The options are: RGB, YCbCr, and YPbPr.

NOTE: If you adjust the settings for Color Temperature, RGB Color Adjust, and White Intensity the projector automatically switches to Custom mode.

IMAGE SETTINGS (IN VIDEO MODE)—Select and press () to activate image settings. The image settings menu provides the following options:

Color Temperature		Mid
RGB Color Adjust		R: 50 G: 50 B: 50
Saturation		50
Sharpness	•	50
Tint	•	50
White Intensity	•	10
Color Space	•	RGB
	Saturation Sharpness Tint White Intensity	Saturation Sharpness Tint White Intensity

COLOR TEMPERATURE—Allows you to adjust the color temperature. The screen appears cooler at higher color temperatures and warmer at lower color temperatures. When you adjust the values in the **Color Adjust** menu, the Custom mode is activated. The values are saved in the Custom mode.

RGB COLOR ADJUST—Allows you to manually adjust the colors red, green, and blue.

SATURATION—Allows you to adjust the video source from black and white to fully saturated color. Press \land to increase the amount of color in the image and \bigtriangledown to decrease the amount of color in the image.

SHARPNESS—Press \land to increase the sharpness and \lor to decrease the sharpness.

WHITE INTENSITY—Press \bigcirc and use \land and \bigtriangledown to display white intensity.

COLOR SPACE—Allows you to select the color space. The options are: RGB, YCbCr, and YPbPr.

🖉 NOTE:

- 1 If you adjust the settings for Color Temperature, RGB Color Adjust, Saturation, Sharpness, Tint, and White Intensity the projector automatically switches to Custom mode.
- **2** Saturation, Sharpness, and Tint only available when the input source is from Composite or S-Video.

DISPLAY SETTINGS (IN PC MODE)—Select and press \checkmark to activate display settings. The display settings menu provides the following options:

Advanced Settings			Dell 1220
Image Settings	Horizontal Position	•	50
Display Settings	Vertical Position	•	50
Projector Settings	Frequency	►	50
Menu Settings	Tracking	•	50
Power Settings	Aspect Ratio	•	Origin
Information	Zoom	►	X 3
	Zoom Navigation	•	Press 🗸
	3D Display	•	Off
	3D Format		
Resolution : 800x600			

HORIZONTAL POSITION—Press \wedge to move the image right and \vee to move the image left.

VERTICAL POSITION—Press \land to move the image up and \lor to move the image down.

FREQUENCY—Allows you to change the display data clock frequency to match the frequency of your computer's graphics card. If you see a vertical flickering wave, use the Frequency control to minimize the bars. This is a coarse adjustment.

TRACKING—Synchronize the phase of the display signal with the graphic card. If you experience an unstable or flickering image, use Tracking to correct it. This is a fine adjustment.

ASPECT RATIO—Allows you to select the aspect ratio to adjust how the image appears. Options are: Origin, 16:10, 16:9, and 4:3.

•Origin – Select Origin to maintain the aspect ratio of the image projector according to the input source.

•16:10 - The input source scales to fit the width of the screen to project a 16:10 screen image.

•16:9 — The input source scales to fit the width of the screen to project a 16:9 screen image.

•4:3 — The input source scales to fit the screen and projects a 4:3 image.

ZOOM—Press \land and \bigtriangledown to zoom and view the image.



Adjust the image scale by pressing $\langle \rangle$ or \searrow and press \bigcirc to view on your remote control only.



ZOOM NAVIGATION—Press (~) to activate the Zoom Navigation menu.

Use $\overline{\langle \rangle}$ $\overline{\langle \rangle}$ $\overline{\langle \rangle}$ to navigate the projection screen.

3D DISPLAY—Select On to activate the 3D display function (default is Off).



NOTE:

- 1 When you want to create a 3D experience, you will need a few other components including:
 - Computer/Laptop with a 120 Hz signal output guadа buffered graphics card.

- **b** "Active" 3D glasses with DLP LinkTM.
- c 3D content.
- d 3D Player.
- 2 Enable the 3D function when it satisfies any of the belowmentioned conditions:
 - **a** Computer/Laptop with graphics card, capable of outputting at 120 Hz signal via VGA cable.
 - **b** Input a suite of 3D content via Video.
- **3** "3D Display" selection will only be enabled in the "Display Settings of the Advanced Settings" menu when the projector detects either of the inputs mentioned above.
- 4 3D support and refresh rate are as below:
 - a VGA/HDMI 1280x720, 1024x768, and 800x600 at 120 Hz
 - **b** Composite at 60 Hz
- **5** The recommended VGA signal for laptop is Single-mode output (Dual mode is not recommended).
- 6 HDMI 1.4a 3D support rates:
 - a 1280x720p@50 Hz Frame Packing
 - b 1280x720p@59.94/60 Hz Frame Packing
 - c 1920x1080p@23.98/24 Hz Frame Packing
 - d 1920x1080i@50 Hz Side by Side Half
 - e 1920x1080i@59.94/60 Hz Side by Side Half
 - f 1280x720p@50 Hz Top and Bottom
 - g 1280x720p@59.94/60 Hz Top and Bottom
 - h 1920x1080p@23.98/24 Hz Top and Bottom

3D FORMAT—Allows you to select the 3D format when the 3D display function is activated. Options are: Side By Side, Side By Side Full, Frame Sequential, Field Sequential, Top/Bottom, and Frame Packing.

3D SYNC INVERT—If you see a discrete or overlapping image while wearing DLP 3D goggles, you may need to execute 'Invert' to get best match of left/right image sequence to get the correct image. (For DLP 3D goggles)

DISPLAY SETTINGS (IN VIDEO MODE)—Select and press () to activate

display settings. The display settings menu provides the following options:

Advanced Settings		Dell 1220
Image Settings	Aspect Ratio	Origin
Display Settings	Zoom	▶ X 3
Projector Settings	Zoom Navigation	🕨 Press 🖌
Menu Settings	3D Display	▶ off
Power Settings	3D Format	
Information		
Resolution : 800x600		

ASPECT RATIO—Allows you to select the aspect ratio to adjust how the image appears.

•Origin – Select Origin to maintain the aspect ratio of image projector according to the input source.

•16:9 — The input source scales to fit the width of the screen to project a 16:9 screen image.

•16:10 - The input source scales to fit the width of the screen to project a 16:10 screen image.

•4:3 – The input source scales to fit the screen and projects a 4:3 image.

ZOOM—Press \land and \lor to zoom and view the image.



Adjust the image scale by pressing $\langle \rangle$ or \rightarrow and press \checkmark to view on your remote control only.



ZOOM NAVIGATION—Press (~) to activate the Zoom Navigation menu.

Use $\overline{\langle}$ $\overline{\rangle}$ $\overline{\langle}$ $\overline{\langle}$ to navigate the projection screen.

3D DISPLAY—Select On to activate the 3D display function (default is Off).



- 1 When you want to create a 3D experience, you will need a few other components including:
 - a Computer/Laptop with a 120 Hz signal output quadbuffered graphics card.
 - **b** "Active" 3D glasses with DLP Link[™].

- c 3D content.
- d 3D Player.
- 2 Enable the 3D function when it satisfies any of the below mentioned conditions:
 - a Computer/Laptop with graphics card, capable of outputting at 120 Hz signal via VGA cable.
 - **b** Input a suite of 3D content via Video.
- **3** "3D Display" selection will only be enabled in the "Display Settings of the Advanced Settings" menu when the projector detects either of the inputs mentioned above.
- 4 3D support and refresh rate are as below:
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- 6 HDMI 1.4a 3D support rates:
 - a 1280x720p@50 Hz Frame Packing
 - b 1280x720p@59.94/60 Hz Frame Packing
 - c 1920x1080p@23.98/24 Hz Frame Packing
 - d 1920x1080i@50 Hz Side by Side Half
 - e 1920x1080i@59.94/60 Hz Side by Side Half
 - f 1280x720p@50 Hz Top and Bottom
 - g 1280x720p@59.94/60 Hz Top and Bottom
 - h 1920x1080p@23.98/24 Hz Top and Bottom

3D FORMAT—Allows you to select the 3D format when the 3D display function is activated. Options are: Side By Side, Side By Side Full, Frame Sequential, Field Sequential, Top/Bottom, and Frame Packing.

3D SYNC INVERT—If you see a discrete or overlapping image while wearing DLP 3D goggles, you may need to execute 'Invert' to get best match of left/right image sequence to get the correct image. (For DLP 3D goggles)

PROJECTOR SETTINGS—Select and press \checkmark to activate projector settings.

The projector settings menu provides the following options:

Advanced Settings				Dell 1220
Image Settings	Auto Source	►	Off	
Display Settings	Projector Mode	•	Front	
Projector Settings	Speaker	•	On	
Menu Settings	Test Pattern	•	Off	
Power Settings	Factory Reset	•	Press 🗸	
Information				
Resolution : 800x600				

AUTO SOURCE—Select **Off** (the default) to lock the current input signal. If you press the **Source** button when the **Auto Source** mode is set to **Off**, you can manually select the input signal. Select **On** to auto detect the available input signals. If you press the **Source** button when the projector is on, it automatically finds the next available input signal.

PROJECTOR MODE—Allows you to select the projector mode, depending upon how the projector is mounted.

•**Rear Projection-Desktop** — The projector reverses the image so that you can project from behind a translucent screen.

•Rear Projection-Ceiling Mount — The projector reverses and turns the image upside down. You can project from behind a translucent screen with a ceiling-mounted projection.

•Front Projection-Desktop – This is the default option.

•Front Projection-Ceiling Mount — The projector turns the image upside down for ceiling-mounted projection.

SPEAKER—Select **On** to enable the speaker. Select **Off** to disable the speaker.

TEST PATTERN—Test Pattern is used to test focus and resolution.

You can enable or disable the Test Pattern by selecting Off, Test

Pattern 1, or Test Pattern 2.

Test Pattern 1:



Test Pattern 2:



FACTORY RESET—Select Confirm and press \bigcirc to reset all settings to its factory default. The below warning message appears:

Resetting to fac	tory default	
------------------	--------------	--

Reset items include both computer sources and Video source settings.

MENU SETTINGS—Select and press () to activate menu settings. The menu settings consist of the following options:

Advanced Settings				Dell 1220
Image Settings	Menu Position	•	Top Left	
Display Settings	Menu Timeout	•	20 Sec.	
Projector Settings	Menu Transparency	•	0	
Menu Settings	Password	•	Disabled	
Power Settings	Change Password	•	Press 🖌	
Information				
Besolution : 800x600				

MENU POSITION—Allows you to change the position of the OSD menu on the screen.

MENU TIMEOUT—Allows you to adjust the time for an OSD timeout. By default, the OSD disappears after 20 seconds of non-activity.

MENU TRANSPARENCY—Select to change the transparency level of the OSD background.

PASSWORD—When Password Protect is enabled, a Password Protect screen requesting you to enter a password will be displayed when the power plug is inserted into the electrical output and the power for the projector is first turned on. By default, this function is disabled. You can enable this feature by selecting **Enabled**. If the password has been set before, key in the password first and select the function. This password security feature will be activated the next time you turn on the projector's password after you turn on the projector:

- **1** First time password input request:
 - a Go to Menu Settings, press \checkmark and then select Password to enable the password settings.

Advanced Settings			Dell 1220
Image Settings	Menu Position	🗸 Disabled	
Display Settings	Menu Timeout	Enabled	
Projector Settings	Menu Transparency	Delete	
Menu Settings	Password		
Power Settings	Change Password		
Information			
Besolution : 800x600			

b Enabling the Password function will pop up a change screen. Key in a 4-digit number from the screen and press ().

	Pa	sswoi	d (4	chara	cter d	ode):			
A	в	с	D	Е	F	G	н	I.	J
						←	Ent		Exi
			>		<u>, </u>	\sim	~		Select

- **c** To confirm, enter the password again.
- **d** If the password verification is successful, you may resume with accessing the projector's functions and its utilities.

2 If you have entered an incorrect password, you will be given two more chances. After three invalid attempts, the projector will automatically turn off.

NOTE: If you forget your password, contact DELL or a qualified service person.

- 3 To disable the password function, select the **Disabled** option to close the function.
- 4 To delete the password, select the **Delete** option.

CHANGE PASSWORD—Key in the original password. Then, enter the new password and confirm the new password again.



	Pa					ode):			
A	в	с	D	Е	F	G	н	Т	J
						←	Ent		Exit
			>		<			5	Select
PID	CN-	07WV	/K1-S	0081-	41B-0	0001			onfirn

Pa	sswoi	'd (4	chara	ter c	ode):		(X)	<
					←	Ent		Exi
		>		(Select

POWER SETTINGS—Select and press \bigcirc to activate power settings. The power settings menu provides the following options:

Advanced Settings				Dell 1220
Image Settings	Auto Shutdown	►	120 min	
Display Settings	Lamp Mode	►	Normal	
Projector Settings	Lamp Hour Reset	►	Press 🗸	
Menu Settings	Power On Beep	►	On	
Power Settings				
Information				
Besolution : 800x600				

AUTO SHUTDOWN—By default, the projector is set to enter power saving mode after 120 minutes of no activity. A warning message appears on screen showing a 60 seconds countdown before switching to power saving mode. Press any button during the countdown period to stop the power-saving mode.

You can also set a different delay period to enter power saving mode. The delay period is the time you want the projector to wait without an input signal.

If an input signal is not detected during the delay period, the projector turns off. To turn on the projector press the Power button.

LAMP MODE—Allows you to select the Normal or ECO mode.

Normal mode operates at full power level. ECO mode operates at a lower power level which may provide longer lamp life, quieter operation, and dimmer luminance output on the screen.

LAMP HOUR RESET—Press and select the Confirm option to reset the lamp hour.

POWER ON BEEP—Select **On** to enable the power on beep. Select **Silent** to disable the power on beep.
INFORMATION—The information menu displays the current 1220 projector settings.

Advanced Settings				Dell 1220
Image Settings	Model Name	:	Dell 1220	
Display Settings	Operating Hour	:	10 hours	
Projector Settings	PPID : CN-07WW	<1-S	0081-418-0001	
Menu Settings	FW Version	:	M0R001	
Power Settings				
Information				
Resolution : 800x600				

LANGUAGE

Allows you to set the language for the OSD. Press \bigodot to activate the Language menu.

Menu		Dell 1220
➔ Input Source	🗸 English	繁體中文
💽 Auto Adjust	Español	한국어
🔅 Brightness/Contrast	Français	Svenska
🛟 Video Mode	Deutsch	العربية
🖞 Audio Volume	日本語	Русский
茾 Advanced Settings		Indonesia
🕲 Language	Nederlands	
? Help	Italiano	
	Português	
■ Resolution : 800x600		

HELP

If you encounter problems with your projector, you can access the help menu for troubleshooting.

Menu	Dell 1220
➔ Input Source	No image appears
💽 Auto Adjust	Incorrectly displayed image
-☆ Brightness/Contrast	Your presentation is not displayed
🛟 Video Mode	Image is unstable or flickering
�� Audio Volume	Image has vertical flickering bar
茾 Advanced Settings	Image color is incorrect
🕲 Language	Stretched image when displaying a 16:9 DVD
? Help	
Resolution : 800x600	

Troubleshooting Your Projector

If you experience problems with your projector, see the following troubleshooting tips. If the problem persists, contact Dell (see Contacting Dell on page 50).

Problem

No image appears on the screen



Possible Solution

- Ensure that the projector is turned on.
- Ensure that you have chosen the correct input source on the INPUT SOURCE menu.
- Ensure the external graphics port is enabled. If you are using a Dell laptop computer, press (Fn+F8). For other computers, see your respective documentation. If images are not displayed properly, please upgrade the video driver of your computer. For Dell computers, see dell.com/support.
- Ensure that all the cables are securely connected. See "Connecting Your Projector" on page 7.
- Ensure that the pins of the connectors are not bent or broken.
- Ensure that the lamp is securely installed (see "Changing the Lamp" on page 43).
- Use **Test Pattern** in the **Projector Settings** of the **Advanced Settings** menu. Ensure that the colors of the test pattern are correct.

Problem (continued)	Possible Solution (continued)
Partial, scrolling, or incorrectly displayed image	1 Press the Auto Adjust button on the remote control.
	2 If you are using a Dell portable computer, set the resolution of the computer to SVGA (800 x 600):
	 a Right-click the unused portion of your Microsoft[®] Windows[®] desktop, click Properties, and then select Settings tab.
	 b Verify that the setting is 800 x 600 pixels for the external monitor port. c Press m m (Fn+F8).
	If you experience difficulty in changing resolutions, or if your monitor freezes, restart all the equipment and the projector.
	If you are not using a Dell portable computer, see your documentation. If images are not displayed properly, please upgrade the video driver of your computer. For a Dell computer, see dell.com/support.
The screen does not display your presentation	If you are using a portable computer, press If you are using a portable computer, press Image: Im
Image is unstable or flickering	Adjust the tracking in the OSD Display Settings of the Advanced Settings menu (in PC Mode only).
Image has vertical flickering bar	Adjust the frequency in the OSD Display Settings of the Advanced Settings menu (in PC Mode only).
Image color is incorrect	 If the display receives the wrong signal output from the graphics card, please set the signal type to RGB in the OSD Image Settings of the Advanced Settings tab.
	• Use Test Pattern in the Projector Settings of the Advanced Settings menu. Ensure that the colors of the test pattern are correct.

Possible Solution (continued)
 Adjust the focus ring on the projector lens.
2 Ensure that the projection screen is within the required distance from the projector (3.94 ft [1.2 m] ~ 32.81 ft [10 m]).
The projector automatically detects the input signal format. It will maintain the aspect ratio of the projected image according to input signal format with an Original setting.
If the image is still stretched, adjust the aspect ratio in the Display Settings of the Advanced Settings menu in the OSD.
Select Projector Settings of the Advanced Settings from the OSD and adjust the projector mode.
When the lamp reaches its end of life, it may burn out and may make a loud popping sound. If this occurs, the projector does not turn back on. To replace the lamp, see "Changing the Lamp" on page 43.
If the LAMP light is solid amber, replace the lamp.

Problem (continued)	Possible Solution (continued)
LAMP light is blinking amber	If the LAMP light is blinking amber, the lamp module connection may be disrupted. Please check the lamp module and ensure that it is properly installed.
	If the LAMP lights and the Power light are blinking amber, the lamp driver has failed and the projector will automatically shut down.
	If the LAMP and TEMP lights are blinking amber and the Power light is solid blue, the color wheel has failed and the projector will automatically shut down.
	To clear the protection mode, press and hold the POWER button for 10 seconds.
TEMP light is solid amber	The projector has overheated. The display automatically shuts down. Turn the display on again after the projector cools down. If the problem persists, contact Dell.
TEMP light is blinking amber	If the projector fan fails, the projector will automatically shut down. Try to clear the projector mode by pressing and holding the Power button for 10 seconds. Please wait for about 5 minutes and try to power up again. If the problem persists, contact Dell.
The remote control is not operating smoothly or works only within a limited range	The battery may be low. If so, replace with two new AAA batteries.

Guiding Signals

Projector			Indicator	
Status	Description	Power	TEMP (Amber)	LAMP (Amber
Standby mode	Projector in Standby mode. Ready to power on.	White Flashing	OFF	OFF
Warming up mode	Projector takes some time to warm up and power on.	White	OFF	OFF
Lamp on	Projector in Normal mode, ready to display an image. Mote: The OSD menu is not accessed.	White	OFF	OFF
Cooling mode	Projector is cooling to shutdown.	White	OFF	OFF
Projector overheated	Air vents might be blocked or ambient temperature may be above 35 °C. The projector automatically shuts down. Ensure that the air vents are not blocked and that the ambient temperature is within operational range. If the problem persists, contact Dell.	OFF	AMBER	OFF
Lamp driver overheated	The lamp driver is overheated. The air vents may be blocked. The projector automatically shuts down. Turn the display on again after the projector cools down. If the problem persists, contact Dell.	AMBER	AMBER	OFF
Fan breakdown	One of the fans has failed. The projector automatically shuts down. If the problem persists, contact Dell.	OFF	AMBER Flashing	OFF
Lamp driver breakdown	The lamp driver has failed. The projector automatically shuts down. Unplug the power cord after three minutes and then turn the display on again. If this problem persists, contact Dell.	AMBER Flashing	OFF	AMBEF Flashing
Color Wheel breakdown	Color wheel cannot start. The projector has failed and the projector automatically shuts down. Unplug the power cord after three minutes and then turn on the projector. If this problem persists, contact Dell.	White	AMBER Flashing	AMBEF Flashing
Lamp failure	Lamp is defective. Replace the lamp.	OFF	OFF	AMBER
Fault - DC supply (+12V)	Power supply has been interrupted. The projector automatically shuts down. Unplug the power cord after three minutes and then turn on the projector. If this problem persists, contact Dell.	AMBER Flashing	AMBER	AMBER
Lamp module connection failed	Lamp module connection may be disrupted. Check the lamp module and ensure that it is properly installed. If the problem persists, contact Dell.	OFF	OFF	AMBEF Flashing

Changing the Lamp

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions as described on page 5.

Replace the lamp when the message "Lamp is approaching the end of its useful life in the operation. Replacement suggested!

www.dell.com/lamps" appears on the screen. If this problem persists after replacing the lamp, contact Dell. For more information, see "Contacting Dell" on page 50.



CAUTION: Use an original lamp to ensure safe and optimal working condition of your projector.



CAUTION: The lamp becomes very hot when in use. Do not attempt to replace the lamp until the projector has been allowed to cool down for at least 30 minutes.



CAUTION: Do not touch the bulb or the lamp glass at any time. Projector lamps are very fragile and may shatter if touched. The shattered glass pieces are sharp and can cause injury.

CAUTION: If the lamp shatters, remove all broken pieces from the projector and dispose or recycle according to state, local, or federal law. For more information see www.dell.com/hg.

1 Turn off the projector and disconnect the power cord.

- 2 Let the projector cool for at least 30 minutes.
- **3** Loosen the one screw that secure the lamp cover, and remove the cover.
- **4** Loosen the two screws that secure the lamp.
- **5** Pull the lamp up by its metal handle.
- **NOTE:** Dell may require lamps replaced under warranty to be returned to Dell. Otherwise, contact your local waste disposal agency for the address of the nearest deposit site.
- 6 Replace with the new lamp.
- **7** Tighten the two screws that secure the lamp.



- 8 Replace the lamp cover and tighten the one screw.
- **9** Reset the lamp usage time by selecting "Yes" for **Lamp Reset** in the OSD **Power Settings** of the **Advanced Settings** menu (see Power Settings of the Advanced Setting menu on page 36). When a new lamp module has been changed, the projector will automatically detect and reset the lamp hours.

CAUTION: Lamp Disposal (for the US only) (a) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE, OR FEDERAL LAWS. FOR MORE INFORMATION, GO TO WWW.DELL.COM/HG OR CONTACT THE ELECTRONIC INDUSTRIES ALLIANCE AT WWW.EIAE.ORG. FOR LAMP-SPECIFIC DISPOSAL INFORMATION, CHECK WWW.LAMPRECYCLE.ORG.

5

Specifications

Light Valve	0.55" SVGA S450 DMD, DarkChip3™	
Brightness	2700 ANSI Lumens (Max.)	
Contrast Ratio	2200:1 Typical (Full On/Full Off)	
Uniformity	85% Typical (Japan Standard - JBMA)	
Number of Pixels	800 x 600 (SVGA)	
Aspect Ratio	4:3	
Displayable Color	1.07 billion colors	
Color Wheel Speed	2X	
	1X for 3D Display	
Projection Lens	F-Stop: F/2.41~2.55 Focal length, f=21.8~24 mm 1.1X manual Zoom Lens Throw ratio =1.95~2.15 wide and tele Offset ratio: 115 ± 5%	
Projection Screen Size	27.5 ~ 252.4 inches (diagonal)	
Projection Distance	3.94 ~ 32.81 ft (1.2 ~ 10 m)	
Video Compatibility	Composite Video: NTSC (M, 3.58, 4.43), PAL (B, D, G, H, I, M, N, 4.43), SECAM (B, D, G, K, K1, L, 4.25, 4.4)	
	Component Video input via VGA: 1080i (50/60 Hz), 720p (50/60 Hz), 576i/p, 480i/p	
	HDMI input: 1080p, 720p, 576i/p, 480i/p	
Power Supply	Universal AC 100-240 V 50-60 Hz with PFC input	
Power Consumption	Normal mode: 230 W <u>+</u> 10% @ 110 Vac	
	Eco mode: 195 W <u>+</u> 10% @ 110 Vac	
	Standby mode: < 0.5 W	
Audio	1 speaker x 2 watt RMS	

Noise Level	Normal mode: 34 dB(A) Typical		
	Eco mode: 31 dB(A) Typical		
Weight	5.4 lbs (2.4 kg)		
Dimensions (W x H x D)	D) 12.38 x 3.45 x 8.8 inches (314.4 x 87.6 x 223.5 m		
Environmental	Operating temperature: 5 °C - 40 °C (41 °F- 104 °F) Humidity: 80% maximum		
	Storage temperature: 0 °C to 60 °C (32 °F to 140 °F) Humidity: 90% maximum		
	Shipping temperature: -20 °C to 60 °C (-4 °F to 140 °F) Humidity: 90% maximum		
I/O Connectors	Power: One AC power socket (3-pin - C14 inlet)		
	VGA input: One 15-pin D-sub connector (Blue), VGA In, for analog RGB/Component input signal.		
	VGA output: One 15-pin D-sub connector (Black) for VGA In loop through.		
	HDMI input: One HDMI connector for support minimum HDMI 1.4a specification HDCP compliant.		
	Composite Video input: One Yellow RCA jack for CVBS signal.		
	Analog Audio input: One 3.5 mm stereo mini phone jack (Blue).		
	Variable Audio output: One 3.5 mm stereo mini phone jack (Green).		

	USB (type B) port: One mini USB slave for remote support and firmware upgrade.
Lamp	OSRAM 190 W user-replaceable lamp (up to 6000 hours in eco mode, up to 5000 hours in normal mode)

NOTE: The lamp life rating for any projector is a measure of brightness degradation only, and is not a specification for the time it takes a lamp to fail and cease light output. Lamp life is defined as the time it takes for more than 50 percent of a lamp sample population to have brightness decrease by approximately 50 percent of the rated lumens for the specified lamp. The lamp life rating is not guaranteed in any way. The actual operating life span of a projector lamp will vary according to operating conditions and usage patterns. Usage of a projector in stressful conditions which may include dusty environments, under high temperatures, many hours per day, and abrupt powering-off will most likely result in a lamp's shortened operating life span or possible lamp failure.

Compatibility Modes (Analog/Digital)

Resolution	Refresh Rate (Hz)	Hsync Frequency (KHz)	Pixel Clock (MHz)
640 x 350	70.087	31.469	25.175
640 x 480	59.940	31.469	25.175
640 x 480 p60	59.940	31.469	25.175
720 x 480 p60	59.940	31.469	27.000
720 x 576 p50	50.000	31.250	27.000
720 x 400	70.087	31.469	28.322
640 x 480	75.000	37.500	31.500
848 x 480	60.000	31.020	33.750
640 x 480	85.008	43.269	36.000
800 x 600	60.317	37.879	40.000
800 x 600	75.000	46.875	49.500
800 x 600	85.061	53.674	56.250
1024 x 768	60.004	48.363	65.000
1280 x 720 p50	50.000	37.500	74.250
1280 x 720 p60	60.000	45.000	74.250
1920 x 1080 i50	50.000	28.125	74.250
1920 x 1080 i60	60.000	33.750	74.250
1280 x 720	59.855	44.772	74.500
1024 x 768	75.029	60.023	78.750
1280 x 800	59.810	49.702	83.500
1366 x 768	59.790	47.712	85.500
1360 x 768	60.015	47.712	85.500
1024 x 768	84.997	68.677	94.500
1440 x 900	59.887	55.935	106.500
1152 x 864	75.000	67.500	108.000
1280 x 960	60.000	60.000	108.000
1280 x 1024	60.020	63.981	108.000
1152 x 864	85.000	77.095	119.651
1400 x 1050	59.978	65.317	121.750
1280 x 800	84.880	71.554	122.500
1280 x 1024	75.025	79.976	135.000
1440 x 900	74.984	70.635	136.750
1680 x 1050	59.954	65.290	146.250
1280 x 960	85.002	85.938	148.500
1920 x 1080	60.000	67.500	148.500
1400 x 1050	74.867	82.278	156.000
1280 x 1024	85.024	91.146	157.000
1440 x 900	84.842	80.430	157.000

1600 x 1200	60.000	75.000	162.000
800 x 600	119.972	76.302	73.250
1024 x 768	119.989	97.551	115.500



NOTE: The refresh rate of the timings at 120 Hz (gray area) can supported in 3D mode.

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 go to www.dell.com/contactDell.
- **2** Select your region on the interactive map.
- **3** Select a Segment for Contact.
- 4 Select the appropriate service or support link based on your need

Appendix: Glossary

ANSI Lumens — A standard for measuring the brightness. It is calculated by dividing a square meter image into nine equal rectangles, measuring the lux (or brightness) reading at the center of each rectangle, and averaging these nine points.

Aspect Ratio — The most popular aspect ratio is 4:3 (4 by 3). Early television and computer video formats are in a 4:3 aspect ratio, which means that the width of the image is 4/3 times the height.

Brightness — The amount of light emitted from a display or projection display or projection device. The brightness of projector is measured by ANSI lumens.

Color Temperature — The color appearance of white light. Low color temperature implies warmer (more yellow/red) light while high color temperature implies a colder (more blue) light. The standard unit for color temperature is Kelvin (K).

Compressed Resolution — If the input images are of higher resolution than the native resolution of the projector, the resulting image will be scaled to fit the native resolution of the projector. The nature of compression in a digital device means that some image content is lost.

Contrast Ratio — Range of light and dark values in a picture, or the ratio between their maximum and minimum values. There are two methods used by the projection industry to measure the ratio:

- **1** *Full On/Off* measures the ratio of the light output of an all white image (full on) and the light output of an all black (full off) image.
- **2** ANSI measures a pattern of 16 alternating black and white rectangles. The average light output from the white rectangles is divided by the average light output of the black rectangles to determine the ANSI contrast ratio.

Full On/Off contrast is always a larger number than ANSI contrast for the same projector.

dB — decibel — A unit used to express relative difference in power or intensity, usually between two acoustic or electric signals, equal to ten times the common logarithm of the ratio of the two levels.

Diagonal Screen — A method of measuring the size of a screen or a projected image. It measures from one corner to the opposite corner. A 9

FT high, 12 FT wide, screen has a diagonal of 15 FT. This document assumes that the diagonal dimensions are for the traditional 4:3 ratio of a computer image as per the example above.

DLP[®] — Digital Light Processing[™] — Reflective display technology developed by Texas Instruments, using small manipulated mirrors. Light passing through a color filter is sent to the DLP mirrors which arrange the RGB colors into a picture projected onto screen, also known as DMD.

DMD — Digital Micro-Mirror Device — Each DMD consists of thousands of tilting, microscopic aluminum alloy mirrors mounted on a hidden yoke.

Focal Length — The distance from the surface of a lens to its focal point.

Frequency — It is the rate of repetition in cycles per seconds of electrical signals. Measured in Hz (Hertz).

HDCP — High-Bandwidth Digital-Content Protection — A specification developed by Intel[™] Corporation to protect digital entertainment across digital interface, such as DVI, HDMI.

HDMI — High-Definition Multimedia Interface — HDMI carries both uncompressed high definition video along with digital audio and device control data in a single connector.

Hz (Hertz) — Unit of frequency.

Keystone Correction — Device that will correct an image of the distortion (usually a wide-top narrow-bottom effect) of a projected image caused by improper projector to screen angle.

Maximum Distance — The distance from a screen the projector can be to cast an image that is usable (bright enough) in a fully darkened room.

Maximum Image Size — The largest image a projector can throw in a darkened room. This is usually limited by focal range of the optics.

Minimum Distance — The closest position that a projector can focus an image onto a screen.

NTSC — National Television Standards Committee. North American standard for video and broadcasting, with a video format of 525 lines at 30 frames per second.

PAL — Phase Alternating Line. A European broadcast standard for video and broadcasting, with a video format of 625 lines at 25 frames per second.

Reverse Image — Feature that allows you to flip the image horizontally. When used in a normal forward projection environment text, graphics, etc. are backwards. Reverse image is used for rear projection.

RGB — Red, Green, Blue — typically used to describe a monitor that

requires separate signals for each of the three colors.

S-Video — A video transmission standard that uses a 4-pin mini-DIN connector to send video information on two signal wires called luminance (brightness, Y) and chrominance (color, C). S-Video is also referred to as Y/C.

SECAM — A French and international broadcast standard for video and broadcasting, closely related to PAL but with a different method of sending color information.

SVGA — Super Video Graphics Array — 800 x 600 pixels count.

SXGA — Super Extended Graphics Array, — 1280 x 1024 pixels count.

UXGA — Ultra Extended Graphics Array — 1600 x 1200 pixels count.

VGA — Video Graphics Array — 640 x 480 pixels count.

XGA — Extended Video Graphics Array — 1024 x 768 pixels count.

WXGA — Wide Extended Graphics Array – 1280 x 800 pixels count.

Zoom Lens — Lens with a variable focal length that allows the operator to move the view in or out making the image smaller or larger.

Zoom Lens Ratio — Is the ratio between the smallest and largest image a lens can project from a fixed distance. For example, a 1.4:1 zoom lens ratio means that a 10 foot image without zoom would be a 14 foot image with full zoom.

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