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Dell™ 1609WX Projector

User's Guide



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Notes, Notices, and Cautions



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



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



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

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Model 1609WX

February 2008 Rev. A00



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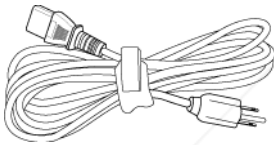
About Your Projector

Before connecting your projector ensure that all the necessary components are available. Your projector ships with the components shown below. Contact Dell (see Contacting Dell on page 47) if any of the components are missing.

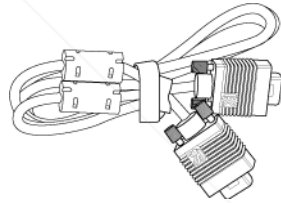
Your Dell™ 1609WX projector ships with the following components:

Package Contents

Power cable



1.8m VGA cable (VGA to VGA)



CR2032 Battery

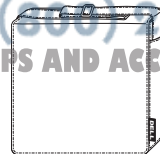


Remote control



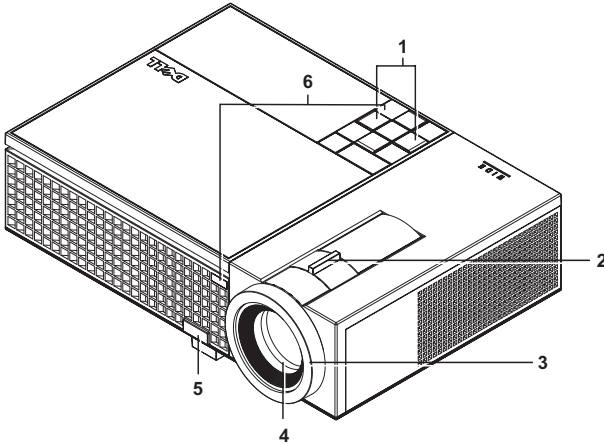
CD Owner's manual &
Documentation

Carrying case



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About Your Projector



1	Control panel
2	Zoom tab
3	Focus ring
4	Lens
5	Elevator button
6	IR receivers

CAUTION: Safety Instructions

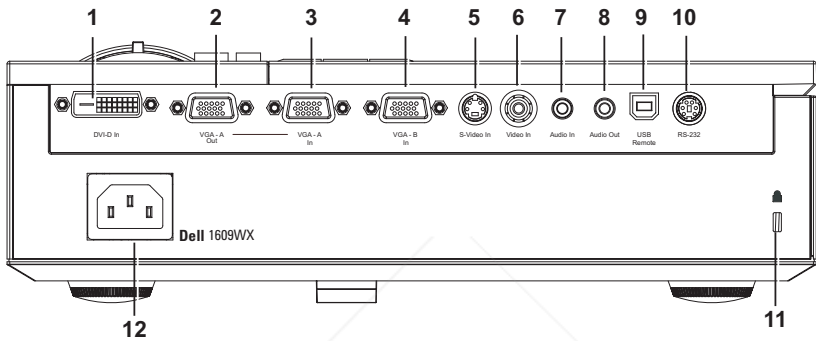
- 1 Do not use the projector near appliances that generate a lot of heat.
- 2 Do not use the projector in areas where there is an excessive amount of dust. The dust may cause the system to fail and projector will automatically shutdown.
- 3 Do not use the projector if the projector is mounted in a well-ventilated area.
- 4 Do not block the ventilation slots and openings on the projector.
- 5 Ensure the projector operates between ambient temperatures (5°C to 35°C).



NOTE: For more information, see the safety information that shipped with your projector.

2

Connecting Your Projector



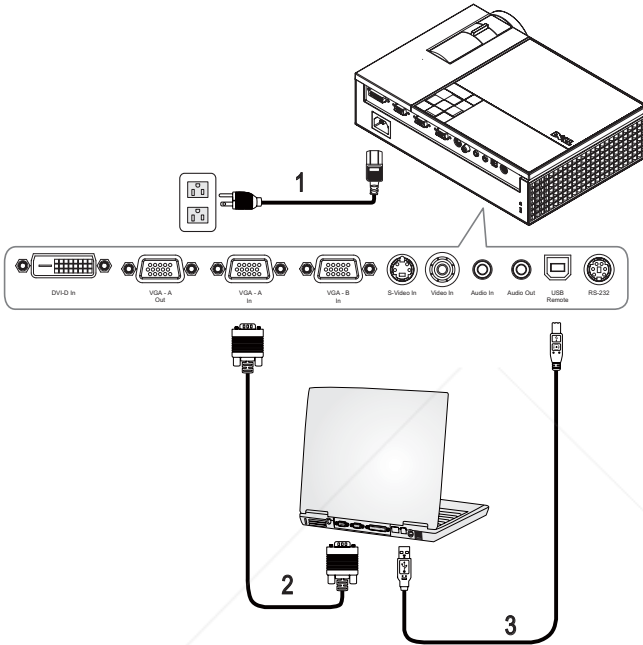
1	DVI-D input connector
2	VGA-A output (monitor loop-through)
3	VGA-A input (D-sub) connector
4	VGA-B input (D-sub) connector
5	S-video connector
6	Composite video connector
7	Audio input connector
8	Audio output connector
9	USB remote connector
10	RS232 connector
11	Security cable slot
12	Power cable connector



CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions as described on page 6.

Connecting a Computer

Connecting a Computer Using a VGA Cable



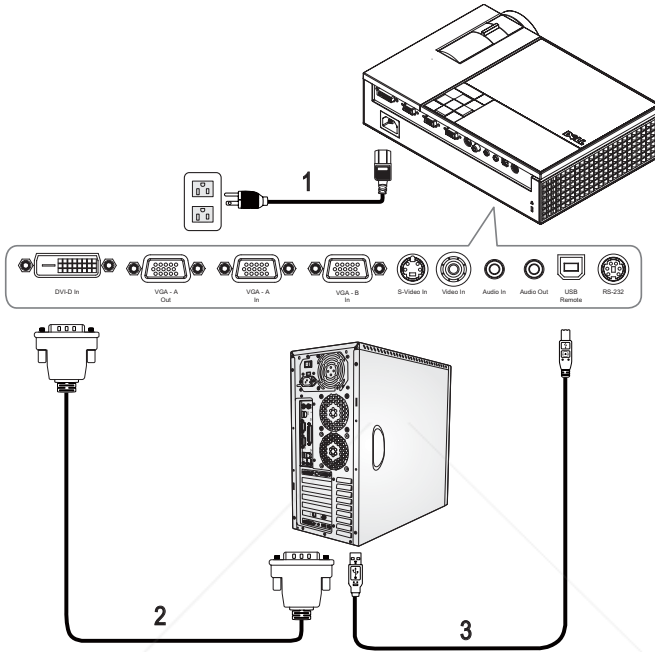
1	Power cable
2	VGA to VGA cable
3	USB to USB cable

NOTE: The USB cable is not provided by Dell.

NOTE: The USB cable must be connected if you want to use the Next Page and Previous Page features on the remote control.


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Connecting a Computer Using a DVI-D Cable



1	Power cable
2	DVI-D cable
3	USB to USB cable

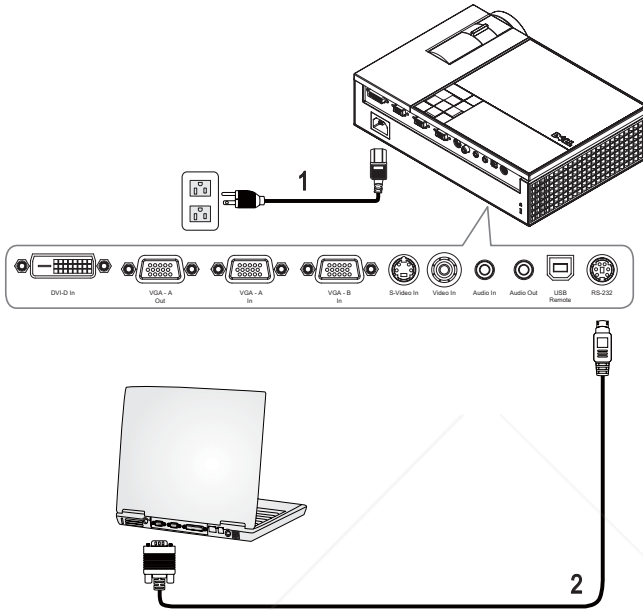
 **NOTE:** The USB cable and DVI-D cable are not provided by Dell.

 **NOTE:** The USB cable must be connected if you want to use the Next Page and Previous Page features on the remote control.

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Connecting a Computer Using an RS232 Cable



1	Power cable
2	RS232 cable

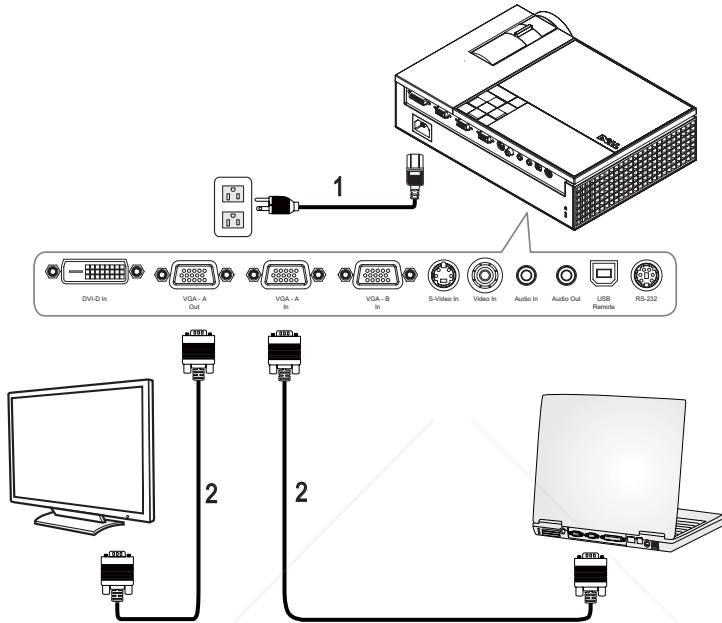


NOTE: The RS232 cable is not provided by Dell. You can buy the RS232 cable (6ft) from the Dell website.

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Monitor Loop-Through Connection Using VGA Cables



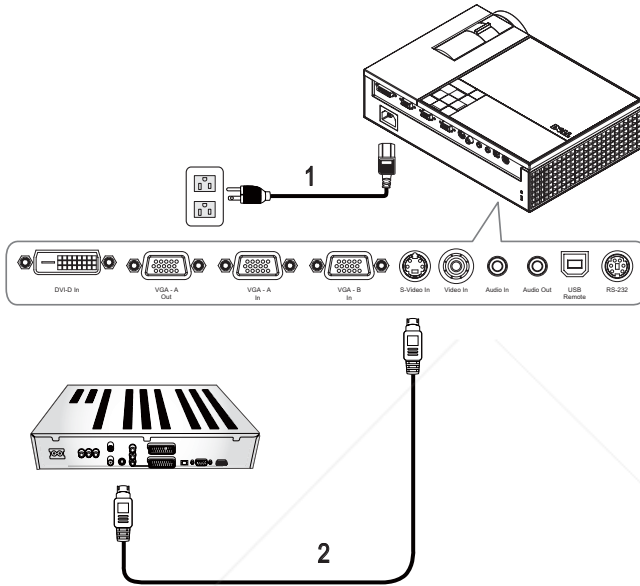
1	Power cable
2	VGA to VGA cable

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Connecting a DVD Player

Connecting a DVD Player Using an S-video Cable



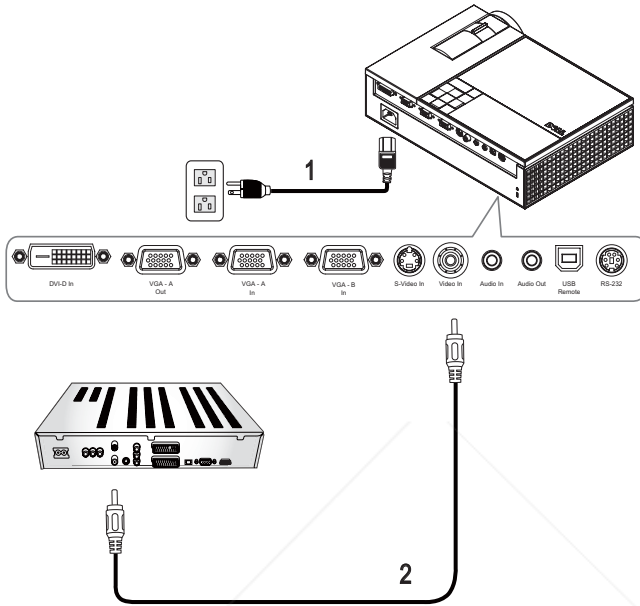
1	Power cable
2	S-video cable

NOTE: The S-video cable is not provided by Dell. You can buy the S-Video Extension (50ft/100ft) cable from the Dell website.


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Connecting a DVD Player Using a Composite Cable



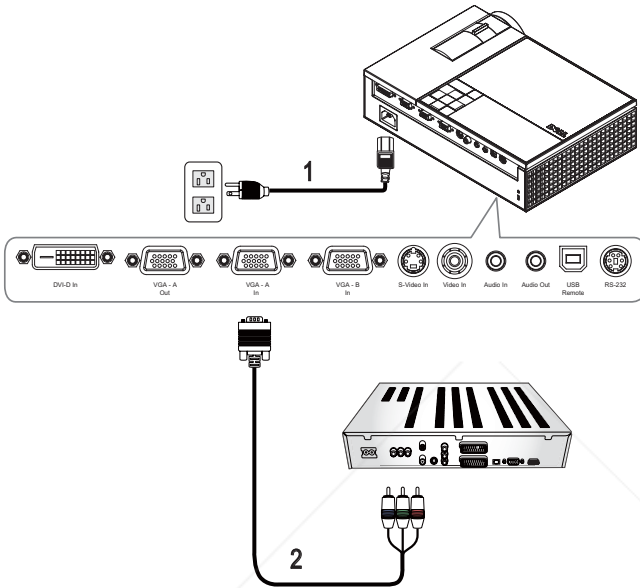
1	Power cable
2	Composite video cable

 **NOTE:** The Composite cable is not provided by Dell. You can buy the Composite Video Extension (50ft/100ft) cable from the Dell website.

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Connecting a DVD Player Using a Component Cable Using a YPbPr to VGA Cable



1	Power cable
2	VGA to YPbPr cable

NOTE: The VGA to YPbPr cable is not provided by Dell. You can buy the VGA to YPbPr Extension (50ft/100ft) cable from the Dell website.

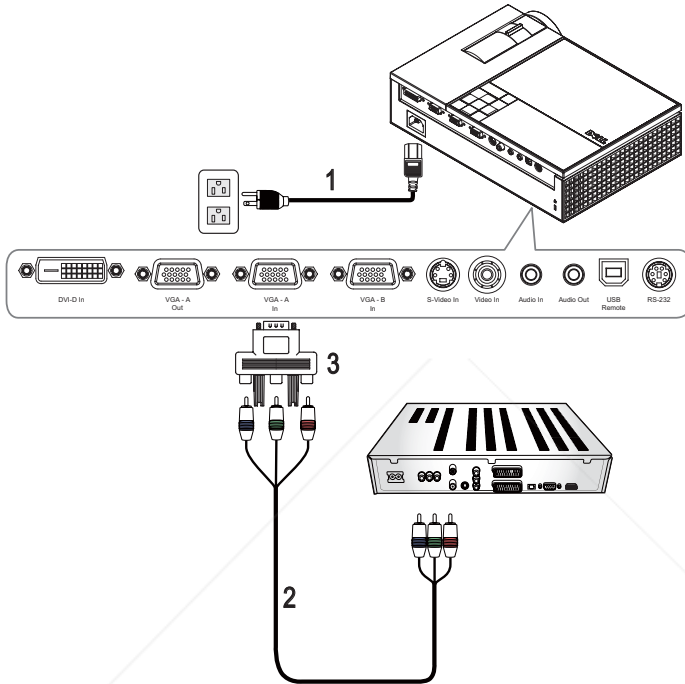
NOTE: You can connect the component cable to either VGA-A Input or VGA-B

Input.
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Connecting a DVD Player Using a Component Cable

Using a YPbPr to YPbPr Cable and a YPbPr to VGA Adapter

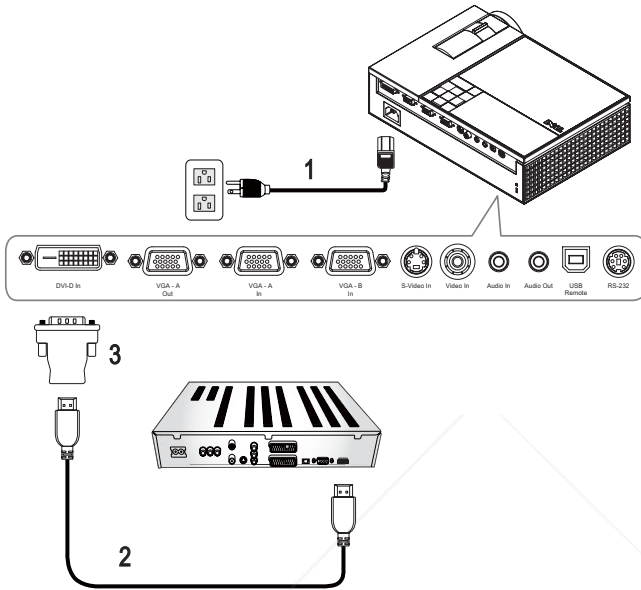


1	Power cable
2	YPbPr to YPbPr cable
3	YPbPr to VGA adapter

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NOTE: The YPbPr to YPbPr cable and the VGA to YPbPr adapter are not provided by Dell.
NOTE: You can connect the component cable to either VGA-A Input or VGA-B Input

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Connecting a DVD Player Using a HDMI Cable



1	Power cable
2	HDMI cable
3	DVI-D adapter


NOTE: The HDMI cable and DVI-D adapter are not provided by Dell.

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Using Your Projector

Turning Your Projector On

 **NOTE:** Turn on the projector before you turn on the source. The **Power** light blinks blue until the Power button is pressed.


- 1 Remove the lens cap.
- 2 Connect the Power cable and appropriate signal cables. For information about connecting the projector, see Connecting Your Projector on page 7.
- 3 Press the projector **Power** button (see Using the Control Panel on page 21 to locate the **Power** button).
- 4 Turn on your source (computer, DVD player, etc.). The projector automatically detects your source.

If you have multiple sources connected to the projector, press the **Source** button on the remote control or control panel to select the desired source.

- 5 The Dell Logo will continue for 30 seconds while power on.


If the "**Searching for signal...**" message appears on the screen, ensure that the appropriate cables are securely connected.

Turning Your Projector Off

 **NOTICE:** You must turn off the projector before you disconnect the power cable from the projector.

- 1 Press the **Power** button.
- 2 Press the **Power** button again. The cooling fans continue to operate for 90 seconds.
- 3 Disconnect the Power cable from the electrical outlet and the projector.

 **NOTE:** Wait for 60 seconds before you turn the projector on again.

 **NOTE:** If you press the **Power** button while the projector is running, the "**Press Power Button to Turn off Projector**" message appears on the screen. To clear the message, press the **Menu** button on the control panel or ignore the message; the message disappears after 5 seconds.

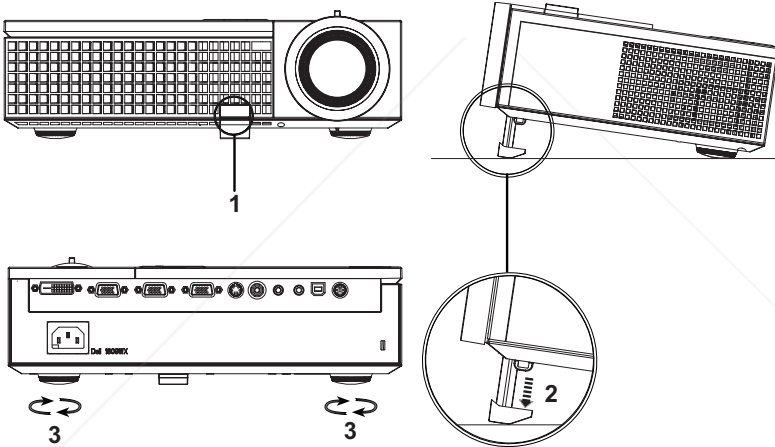
Adjusting the Projected Image

Raising the Projector Height

- 1 Press the Elevator button.
- 2 Raise the projector to the desired display angle, and then release the button to lock the elevator foot into position.
- 3 Use the tilt adjustment wheel to fine-tune the display angle.

Lowering the Projector Height

- 1 Press the Elevator button.
- 2 Lower the projector, and then release the button to lock the elevator foot into position.



1	Elevator button
2	Elevator foot
3	Tilt adjustment wheel

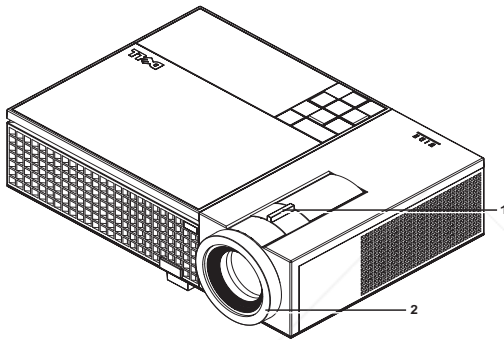
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Adjusting the Projector Zoom and Focus



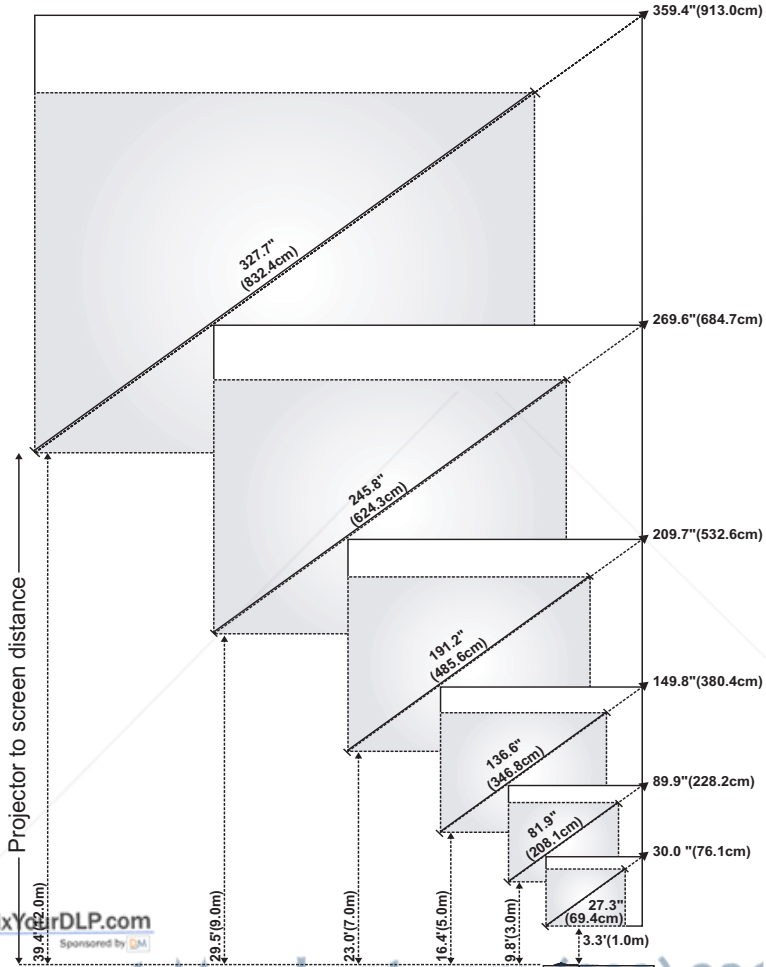
CAUTION: To avoid damaging the projector, ensure that the zoom lens and elevator foot are fully retracted before moving the projector or placing the projector in its carrying case.

- 1 Rotate the zoom tab to zoom in and out.
- 2 Rotate the focus ring until the image is clear. The projector focuses at distances ranging between 3.3 ft to 39.4 ft (1.0 m to 12 m).



1	Zoom tab
2	Focus ring

Adjusting Projection Image Size

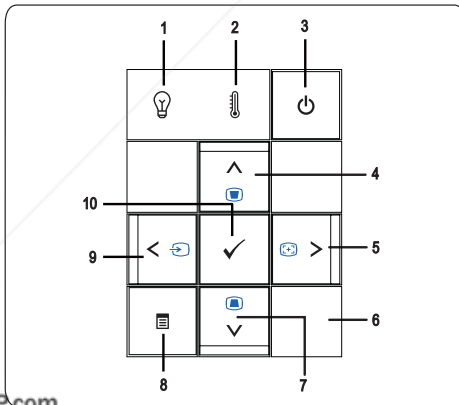


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Screen (Diagonal)	Max.	30.0" (76.1cm)	89.9" (228.2cm)	149.8" (380.4cm)	209.7" (532.6cm)	269.6" (684.7cm)	359.4" (913.0cm)
	Min.	27.3" (69.4cm)	81.9" (208.1cm)	136.6" (346.8cm)	191.2" (485.6cm)	245.8" (624.3cm)	327.7" (832.4cm)
Screen Size	Max. (WxH)	25.4" X 15.9" (64.5cm X 40.3cm)	76.2" X 47.6" (193.5cm X 121.0cm)	127" X 79.4" (322.6cm X 201.6cm)	177.8" X 111.1" (451.6cm X 282.3cm)	228.8" X 142.9" (580.6cm X 362.9cm)	304.8" X 190.5" (774.2cm X 483.9cm)
	Min. (WxH)	23.2" X 14.5" (58.8cm X 36.8cm)	69.5" X 43.4" (176.5cm X 110.3cm)	115.8" X 72.4" (294.1cm X 183.8cm)	162.1" X 101.3" (411.8cm X 257.4cm)	208.4" X 130.3" (529.4cm X 330.9cm)	277.9" X 173.7" (705.9cm X 441.2cm)
Hd	Max.	1.97" (5.0cm)	5.91" (15.0cm)	9.84" (25.0cm)	13.78" (35.0cm)	17.72" (45.0cm)	23.62" (60.0cm)
	Min.	1.79" (4.56cm)	5.38" (13.68cm)	8.97" (22.79cm)	12.56" (31.91cm)	16.15" (41.03cm)	21.54" (54.71cm)
Distance		3.3' (1.0m)	9.8' (3.0m)	16.4' (5.0m)	23.0' (7.0m)	29.5' (9.0m)	39.4' (12.0m)
* This graph is for user reference only.							

Using the Control Panel











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1	LAMP warning light	<ul style="list-style-type: none"> • If the LAMP light is solid amber, replace the lamp (see Changing the Lamp on page 41). If this problem persists, contact Dell (see Contacting Dell on page 47). • If the LAMP light is blinking amber, the projector automatically shuts down indicating a system failure. If this problem persists, contact Dell (see Contacting Dell on page 47).
2	TEMP warning light	<ul style="list-style-type: none"> • A solid amber TEMP light indicates that the projector, lamp, or lamp driver are overheated. The display automatically shuts down. Turn the display on again after the projector cools down. If the problem persists, contact Dell (see Contacting Dell on page 47). • A blinking amber TEMP light indicates that a projector fan or color wheel have failed and the projector automatically shuts down. If the problem persists, contact Dell (see Contacting Dell on page 47).
3	Power	Allows you to turn the projector on and off. For more information, see Turning Your Projector On on page 17 and Turning Your Projector Off on page 17.
4	Up  / Keystone adjustment	Allows you to select options from the On Screen Display (OSD) menu. You can also use the Up  button to adjust he image distortion caused by tilting the projector.
5	Right  / Auto Adjust	<p>Allows you to adjust the OSD setting.</p> <p>You can also use the Right  button to synchronize the projector to the input source.</p> <p>Auto adjust does not operate if the OSD is displayed.</p>
6	IR Receiver	Point the remote control towards the IR receiver and press a button.



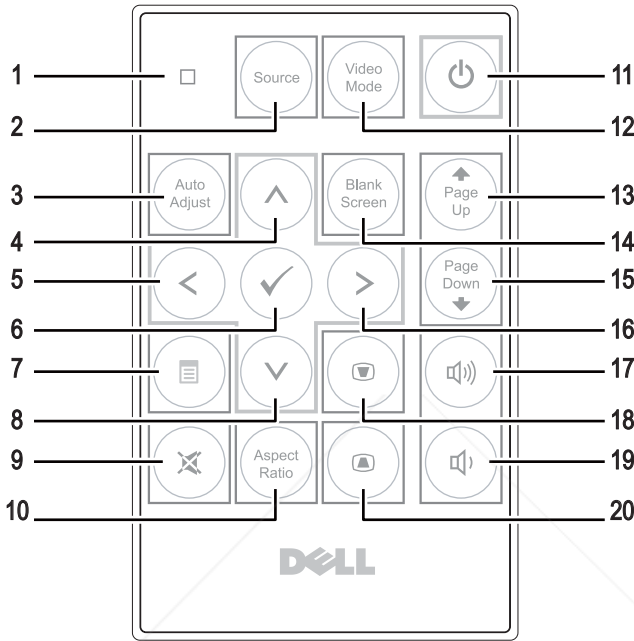
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
7	Down  / Keystone adjustment	Allows you to select options from the On Screen Display (OSD) menu. You can also use the Down  button to adjust the image distortion caused by tilting the projector.
8	Menu	Allows you to activate the OSD. Use     and the Menu button to navigate through the OSD.
9	Left  / Source	Allows you to adjust the OSD setting. You can also use the  button to toggle through Digital RGB, Analog RGB, Composite, Component (YPbPr via VGA), and S-video sources when multiple sources are connected to the projector.
10	Enter	Allows you to confirm a selected OSD option.







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Using the Remote Control



1	LED light	LED indicator.
2	Source	Press to switch between Digital RGB, Analog RGB, Composite, S-video, Component (YPbPr via VGA).
3	Auto adjust	Press to synchronize the projector to the input source. Auto adjust does not operate if the OSD (On-Screen Display) is displayed.
4	Up button 	Press to select an item on the OSD.
5	Left button 	Press to adjust the OSD setting.
6	Enter	Press to confirm the selection.
7	Menu	Press to activate the OSD.
8	Down button 	Press to select an item on the OSD.
9	Mute	Press to mute or un-mute the projector speaker.





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10	Aspect ratio	Press to change the aspect ratio of a displayed image.
11	Power	Turns the projector on and off. For more information, see Turning Your Projector On on page 17 and Turning Your Projector Off on page 17.
12	Video mode	The Dell 1609WX Micro-projector has preset configurations that are optimized for displaying data (PC Graphics) or video (movies, games, etc.). Press the Video Mode button to toggle between PC mode , Movie mode , Game Mode , sRGB , or CUSTOM mode (for user to setup and save preferred settings). Pressing the Video Mode button once will show the current display mode. Pressing the Video Mode button again will switch between display modes.
13	Page up 	Press to move to the previous page.
14	Blank screen	Press to hide/un-hide the image.
15	Page down 	Press to move to the next page.
16	Right button 	Press to adjust the OSD setting.
17	Volume up	Press to increase the volume.
18	Keystone adjustment	Press to adjust image distortion caused by tilting the projector. (+40/-35 degrees)
19	Volume down	Press to decrease the volume.
20	Keystone adjustment	Press to adjust image distortion caused by tilting the projector. (+40/-35 degrees)

Using the On-Screen Display

The projector has a multi-language On-Screen Display (OSD) that can be displayed with or without an input source present.

To navigate through the tabs in the Main menu, press the  or  buttons on your projectors control panel or remote control. To select a submenu, press the Enter button on your projectors control panel or remote control.

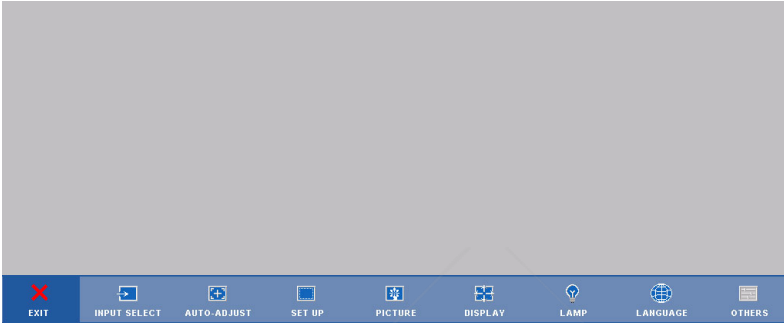
To select an option, press the  or  on your projectors control panel or remote control. The color changes to dark blue. When an item is selected, the color changes to dark blue. Use  or  on the control panel or remote control to

adjust the settings.

To go back to **Main** menu, go to **Back** tab and press the **Enter** button on the control panel or the remote control.

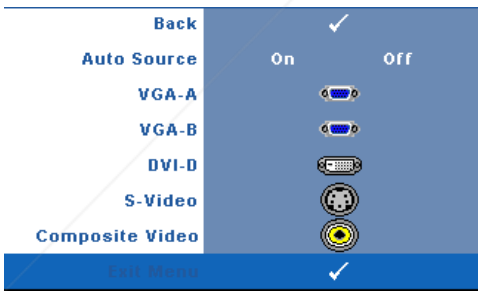
To exit the OSD, go to **EXIT** tab and press the **Enter** button or press the **Menu** button directly on the control panel or the remote control.

Main Menu



INPUT SELECT

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



AUTO SOURCE—Select **On** (the default) to autodetect the available input signals. If you press the **Source** button when the projector is on, it automatically finds the next available input signal. Select **Off** 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.

VGA-A—Press **Enter** to detect VGA-A signal.

VGA-B—Press **Enter** to detect VGA-B signal.

DVI-D—Press **Enter** to detect DVI-D signal.

S-VIDEO—Press **Enter** to detect S-Video signal.

COMPOSITE VIDEO—Press **Enter** to detect Composite Video signal.

AUTO-ADJUST

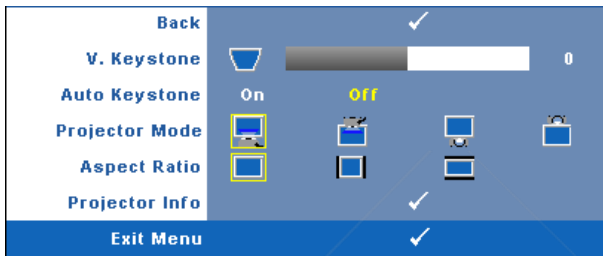
Auto Adjustment in Progress...

Auto Adjust automatically adjusts the projector's **FREQUENCY** and **TRACKING** in PC mode. While

Auto Adjustment is in progress, the following message appears on the screen, "Auto Adjustment in Progress...".

SET UP





It includes V. Keystone, Auto Keystone, Projector Mode, Aspect Ratio and Projector Info settings.






V. KEYSTONE—Adjusts the image distortion caused by tilting the projector.

AUTO KEYSTONE—Auto adjusts the image distortion by tilting the projector.

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

-  Front Projection-Desktop — This is the default option.
-  Front Projection-Ceiling Mount — The projector turns the image upside down for ceiling-mounted projection.
-  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.

ASPECT RATIO—Allows you to set the aspect ratio.

-  Original — The input source scales to fit the screen while keeping the aspect ratio of the input source.
-  4:3 — The input source scales to fit the height of the screen.
-  Wide — The input source scales to fit the screen.

Use Wide or 4:3 if you are using one of the following:

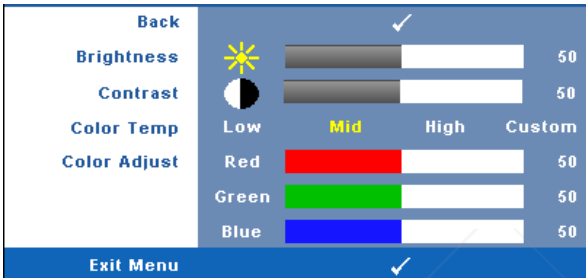
- Computer resolution greater than WXGA

– Component cable (720p/1080i/1080p)

PROJECTOR INFO—Displays the projector model name, the present input source and projector series number (PPID#).

PICTURE (in PC Mode)

Using the **Picture** menu, you can adjust the display settings of your projectors. The Picture menu, provides the following options:



BRIGHTNESS—Use ⏪ and ⏩ to adjust the brightness of the image.

CONTRAST—Use ⏪ and ⏩ to adjust the display contrast.

COLOR TEMP—Allows you to adjust the color temperature. The screen appears cooler at higher color temperatures and warmer at lower color temperatures.

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

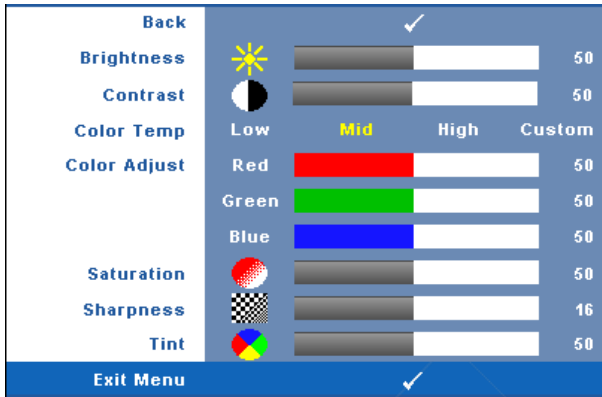
When you adjust the values in the **Color Adjust** menu, the Custom mode is activated. The values are saved in the Custom mode.



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PICTURE (in Video Mode)

Using the **Picture** menu, you can adjust the display settings of your projectors. The Picture menu, provides the following options:



BRIGHTNESS—Use ◀ and ▶ to adjust the brightness of the image.

CONTRAST—Use ◀ and ▶ to adjust the display contrast.

COLOR TEMP—Allows you to adjust the color temperature. The screen appears cooler at higher color temperatures and warmer at lower color temperatures.

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

When you adjust the values in the **Color Adjust** menu, the Custom mode is activated. The values are saved in the Custom mode.

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

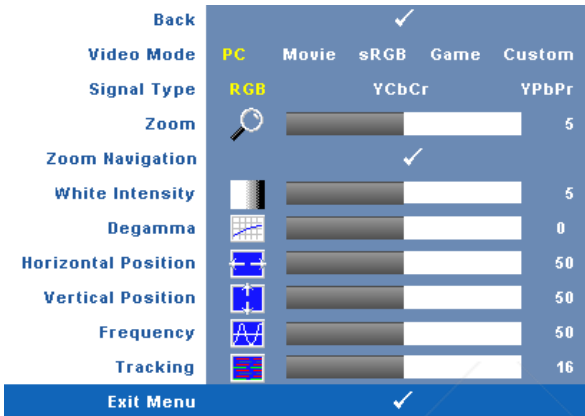
SHARPNESS—Allows you to adjust the image sharpness. Press ◀ to decrease the sharpness and ▶ to increase the sharpness.

TINT—Press ◀ to increase the amount of green in the image and ▶ to decrease the amount of red in the image (Selectable for NTSC only).

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DISPLAY (in PC Mode)

Using the Display menu, you can adjust the display settings of your projectors. The Picture menu, provides the following options:



VIDEO MODE—Allows you to optimize the projectors display mode:

PC, Movie, sRGB (provides more accurate color representation), Game, and Custom (set your preferred settings). If you adjust the settings for White Intensity or Degamma, the projector automatically switches to Custom.



NOTE: If you adjust the settings for White Intensity or Degamma, the projector automatically switches to Custom.

SIGNAL TYPE—Allows you to manually select signal type RGB, YCbCr, or YPbPr.

ZOOM—Press > to digitally magnify an image up to 4 times on the projection screen and press < to reduce the zoomed image.

ZOOM NAVIGATION—Press > < ^ v to navigate projection screen.

WHITE INTENSITY—Set 0 to maximize the color reproduction and 10 to maximize the brightness.

DEGAMMA—Allows you to adjust among the 4 preset values (1, 2, 3, 4) to change the color performance of the display.

HORIZONTAL POSITION—Press < to move the image to the left and > to move the image to the right.

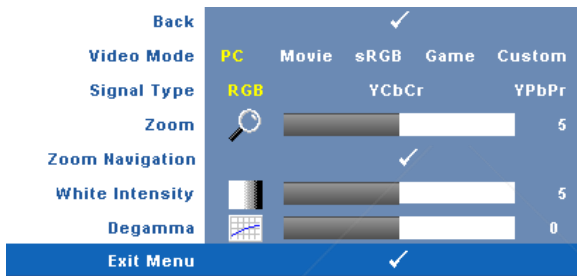
VERTICAL POSITION—Press < to move the image down and > to move the image up.

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

TRACKING—Allows you to 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.


DISPLAY (in Video Mode)

Using the **Display** menu, you can adjust the display settings of your projectors. The **Picture** menu, provides the following options:





VIDEO MODE—Allows you to optimize the projectors display mode:

PC, **Movie**, **sRGB** (provides more accurate color representation), **Game**, and **Custom** (set your preferred settings). If you adjust the settings for **White Intensity** or **Degamma**, the projector automatically switches to **Custom**.

 **NOTE:** If you adjust the settings for **White Intensity** or **Degamma**, the projector automatically switches to **Custom**.

SIGNAL TYPE—Manually select signal type **RGB**, **YCbCr**, or **YPbPr**.

ZOOM—Press  to digitally magnify an image up to 4 times on the projection screen and press  to reduce the zoomed image.

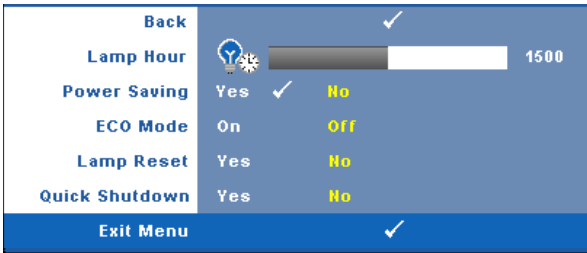
ZOOM NAVIGATION—Press     to navigate projection screen.

WHITE INTENSITY—Set 0 to maximize the color reproduction and 10 to maximize the brightness.

DEGAMMA—Adjust among the 4 preset values (1, 2, 3, 4) to change the color performance of the display.

LAMP

Using the **Lamp** menu, you can adjust the display settings of your projectors. The Picture menu, provides the following options:



LAMP HOUR—Displays the operating hours since the last lamp timer reset.

POWER SAVING—Select **Yes** to set the Power Saving delay period. The delay period is the time you want the projector to wait without an input signal. By default, the delay period is set to 120 minutes. However, you can set this to 5, 15, 30, 45, 60, or 120 minutes.

If an input signal is not detected during the delay period, the projector turns off the lamp and goes into power saving mode. If an input signal is detected when projector is in power saving mode, the projector automatically turns on. If an input signal is not detected within two hours, the projector switches from Power Saving mode to Power Off mode. To turn on the projector press the Power button.

ECO MODE—Select **On** to use the projector at a lower power level (216 Watts), which may provide longer lamp life, quieter operation, and dimmer luminance output on the screen. Select **Off** to operate at normal power level (256 Watts).

LAMP RESET—After you install a new lamp, select **Yes** to reset the lamp timer.

QUICK SHUTDOWN—Select **Yes** to turn off the projector with a single press of the Power button. This function allows the projector to quick power off with an accelerated fan speed.



NOTE: If Quick Shutdown is enabled, expect a slightly higher acoustic noise during power off.



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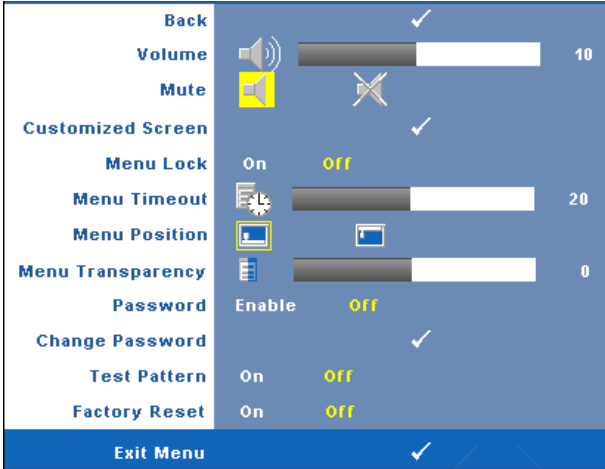
LANGUAGE

The Language menu allows you to set the language for the OSD.



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OTHERS




VOLUME—Press ◀ and ▶ to decrease/increase the volume.

MUTE—Allows you to enable/disable sound.

CUSTOMIZED SCREEN—Press Enter the Customized Screen menu appears. Select YES to capture the screen image as a My Customized logo. This screen replaces all the original screens with the Dell logo. You can recover the default screen by selecting Dell Logo on the pop-up screen.

 **NOTE:** To capture a full image, ensure the input signal that is connected to projector is 1280x800 resolution.

MENU LOCK—Select On to enable Menu Lock and hide the OSD menu. Select OFF to disable the Menu Lock and display the OSD menu.


 **NOTE:** If the OSD disappears while you disable Menu Lock, press the **Menu** button on the projectors control panel for 15 seconds, then disable the function.

MENU TIMEOUT—Allows you to adjust the time for an OSD Timeout. By default, the OSD disappears after 30 seconds of non-activity.

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

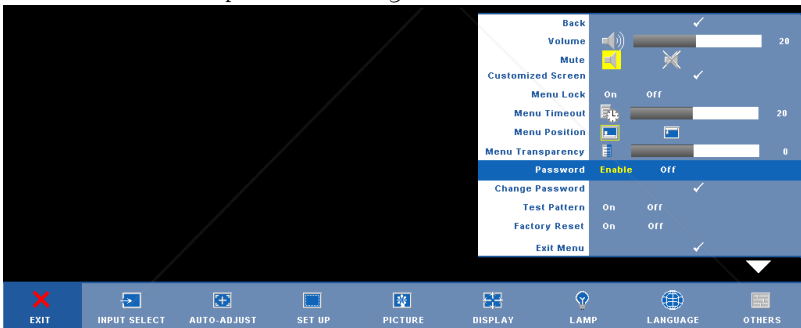
MENU TRANSPARENCY—Select to change the transparency level of the OSD background.

PASSWORD—Allows you to password protect the projector. This security utility enables you to impose a variety of access restrictions to protect your privacy and stop others from tampering with your projector. This means that the projector cannot be used if it is taken without authorization, and thus serves as a theft prevention feature. Select **On** to enable password protection. A **Please Key In the Password** screen appears requesting you to enter a password when the projector is powered on the next time. Select **Off** to disable password protection.

 **NOTE:** Password protection is disabled by default. If you enable this feature, you will be asked to enter the projector's password after you turn on the projector.

First time password input request:

- a Go to **Others** menu, press **Enter** and then select **Password** to Enable the password setting.




- b Enable the Password function will pop up a character screen, key in a 4-digit number from the screen and press the **Enter** button.



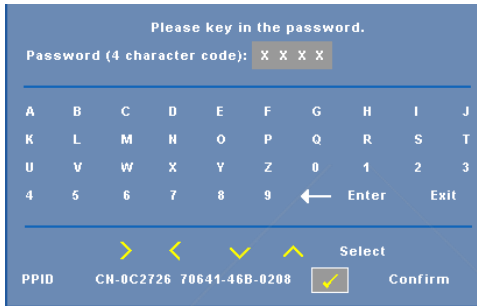
- c To confirm, enter the password again.

- d If the password verification is successful, you may resume with accessing the projector's functions and its utilities.

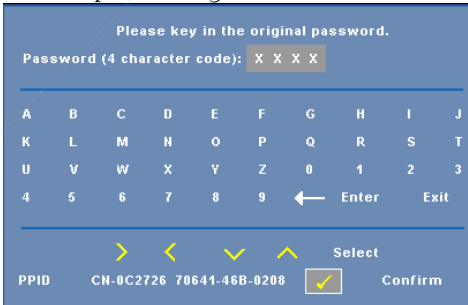
If you have entered incorrect password, you will be given another two chances. After the three invalid attempts, the projector will automatically turn off.


 **NOTE:** If you forget your password, contact DELL™ or qualified service personnel.

To cancel the password function, select **Off** and enter the password to disable the function.



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





 **TEST PATTERN**—Select **On** to activate the built-in **Test Pattern** for self-testing on focus and resolution. Select **Off** to disable the function.

FACTORY RESET—Select **On** to reset the projector to its factory default settings. Reset items include both computer sources and video source settings.





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 47.

Problem	Possible Solution
No image appears on the screen	<ul style="list-style-type: none"> • Ensure that the lens cap is removed and the projector is turned on. • Ensure the external graphics port is enabled. If you are using a Dell™ portable computer, press   (Fn+Ctrl). For other computers, see your respective documentation. • 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 41). • Use Test Pattern in the Others menu (see Others on page 47). Ensure that the colors of the test pattern are correct.



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Problem (continued)	Possible Solution (continued)
Partial, scrolling, or incorrectly displayed image	<ol style="list-style-type: none"> 1 Press the Auto Adjust button on the remote control or the control panel. 2 If you are using a Dell™ portable computer, set the resolution of the computer to WXGA (1280x800) or XGA (1024 x 768): <ol style="list-style-type: none"> a Right-click the unused portion of your Windows desktop, click Properties and then select Settings tab. b Verify the setting is 1280x800 or 1024 x 768 pixels for the external monitor port. c Press   (Fn+F8). <p>If you experience difficulty in changing resolutions or your monitor freezes, restart all the equipment and the projector.</p> <p>If you are not using a Dell™ portable computer, see your documentation.</p>
The screen does not display your presentation	If you are using a Dell™ portable computer, press   (Fn+F8).
Image is unstable or flickering	Adjust the tracking in the OSD Display sub-menu (in PC Mode only, see Tracking on page 31).
Image has vertical flickering bar	Adjust the frequency in the OSD Display sub-menu (in PC Mode only, see Frequency on page 31).
Image color is incorrect	<ul style="list-style-type: none"> • If the display receives the wrong signal output from the graphics card, please set the signal type to RGB in the OSD Display tab. • Use Test Pattern in the Others menu. Ensure that the colors of the test pattern are correct.
Image is out of focus	<ol style="list-style-type: none"> 1 Adjust the focus ring on the projector lens. 2 Ensure that the projection screen is within the required distance from the projector (33 ft [10 m] to 39.4 ft [12 m]).



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Problem (continued)	Possible Solution (continued)
The image is stretched when displaying a 16:9 DVD	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 Set Up menu in the OSD.
Image is reversed	Select Set Up from the OSD and adjust the projector mode.
Lamp is burned out or makes a popping sound	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 <i>Changing the Lamp</i> on page 41.
LAMP light is solid amber	If the LAMP light is solid amber, replace the lamp.
LAMP light is blinking amber	If the LAMP light and the Power light are blinking amber, the lamp driver has failed and the projector will automatically shut down. If the LAMP light is blinking amber and Power light is solid blue, the color wheel has failed and the projector will automatically shut down. Unplug the Power cable after 3 minutes then turn the display on again. If this problem persists, contact Dell™ (see <i>Contacting Dell</i> on page 47).
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™ (see <i>Contacting Dell</i> on page 47).
FANMP light is blinking amber	A projector fan has failed and the projector will automatically shut down. If the problem persists, contact Dell™ (see <i>Contacting Dell</i> on page 47).
The OSD does not appear on the screen	Try to press the Menu button on the panel for 15 seconds to unlock the OSD. Check the Menu Lock on page 34.

Problem (continued)

The remote control is not operating smoothly or works only within a limited range

Possible Solution (continued)

The battery may be low. Check if the LED indicator from the remote is too dim. If so, replace with a new CR2032 battery.



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Changing the Lamp

The following message appears on the screen when your projector lamp is approaching end of life and requires to be changed:

Lamp is approaching the end of its useful life in full power operation. Replacement suggested! www.dell.com/lamps

! **CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions as described on page 6.**

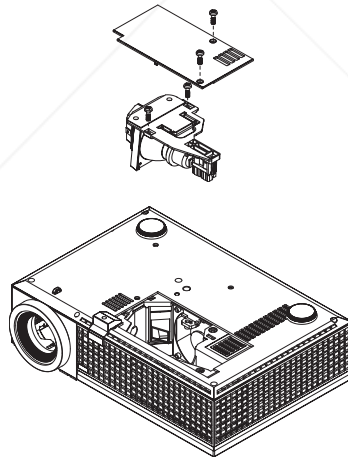
To replace the lamp:

1 Turn off the projector and disconnect the Power cable.

! **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.**

2 Let the projector cool for at least 30 minutes.

3 Loosen the two screws that secure the lamp cover, and remove the cover.



! **CAUTION: Do not touch the projector lamp or the lamp glass at any time. Projector lamps are very fragile and may shatter if touched.**

! **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.**

4 Loosen the two screws that secure the lamp.

5 Pull the lamp up by its metal handle.

6 Replace with the new lamp.



NOTE: Dell™ may require lamps replaced under warranty to be returned to Dell™. Otherwise, dispose or recycle the lamp. For more information, see Lamp Disposal on page 42.


7 Tighten the two screws that secure the lamp.

8 Replace the lamp cover and tighten the two screws.

9 Reset the lamp usage time (See Lamp menu on page 32).



CAUTION: Lamp Disposal (for the US only)

 **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.**



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Specifications

Light Valve	0.65" WXGA DMD Type A, DarkChip™ 2
Brightness	2500 ANSI Lumens (Max.)
Contrast Ratio	1900:1 Typical (Full On/Full Off)
Uniformity	85% Typical (Japan Standard - JBMA)
Lamp	200-watt user-replaceable 3000-hour lamp (up to 4000 hours in eco mode)
Number of Pixels	1280x800 (WXGA)
Displayable Color	16.7M colors
Color Wheel Speed	2X
Projection Lens	F-Stop: F/ 2.44~2.58 Focal length, f=21.8~23.8 mm 1.1X manual Zoom Lens
Projection Screen Size	27.3~359.4 inches (diagonal)
Projection Distance	3.3~39.4 ft (1.0 m~12 m)
Video Compatibility	Composite Video / S-Video: NTSC (M, J, N, 4.43MHz, 3.58MHz), PAL (B, G, D, K, I, M, N, Nc, 60), SECAM (B, G, D, K, K1, L) Component Video (via VGA) / DVI: 1080i/p, 720p, 576i/p, 480i/p Universal AC90-264 50/60 Hz with PFC input
Power Consumption	256 watts in full mode, 216 watts in eco mode
Audio	1 speaker, 8 watt RMS
Noise Level	34 dB(A) Full-on mode, 31 dB(A) Eco mode



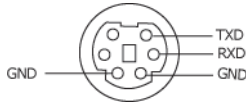
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Weight	4.95 lbs (2.25 kg)
Dimensions (W x H x D)	External 11.68 x 7.96 x 3.17 ± 0.04 inches (296.5 x 202 x 80.5 ± 1 mm)
Environmental	Operating temperature: 5°C - 35°C (41°F- 95°F) Humidity: 80% maximum Storage temperature: 0°C to 60°C (32°F to 140°F) Humidity: 90% maximum
Regulatory	FCC, CE, VCCI, UL, cUL, Nemko-GS, ICES-003, MIC, C-Tick, GOST, CCC, PSB, NOM, IRAM, SABS, CECP, SASO, PSE, eK
I/O Connectors	Power: AC power input socket Computer input: two D-sub for analog/component, HDTV input signals Computer output: one 15-pin D-sub Video input: one composite video RCA and one S-video Audio input: one phone jack (diameter 3.5 mm) Audio output: one phone jack (diameter 3.5 mm) USB port: one USB slave for remote mouse support One mini-DIN RS232 for wired remote control from PC DVI-D input: one DVI-D connector for DVI-D signal (HDCP compliant).



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RS232 Pin Assignment



RS232 Protocol

- Communication Settings

Connection settings	Value
Baud Rate:	19200
Data Bits:	8
Parity	None
Stop Bits	1

- Command types

To pop up the OSD menu and adjust the settings.

- Control command Syntax (From PC to Projector)

[H][AC][SoP][CRC][ID][SoM][COMMAND]

[H][AC][SoP][CRC][ID][SoM][COMMAND] [Value]

- Example: Power ON Command (Send low byte firstly)

Enter the following code:

0xbe, 0xef, 0x10, 0x05, 0x00, 0xc6, 0xff, 0x11, 0x11, 0x01, 0x00, 0x01

- Control Commands List

To view the latest RS232 code, go to the Dell Support site at: support.dell.com.



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Compatibility Modes (Analog/Digital)

Resolution	V. Frequency (Hz)	H. Frequency (KHz)
640X480	59.9	31.5
640X480	75	37.5
640X480	85	43.3
720X400	70.1	31.5
720X400	85	37.9
800X600	60.3	37.9
800X600	75	46.9
800X600	85.1	53.7
848X480	60	31
1024X768	60	48.4
1024X768	75	60
1024X768	85	68.7
1280X720	59.9	44.8
1280X768	59.9	47.8
1280X800	59.8	49.7
1280X1024	60	64
1280X1024	75	80
1280X1024	85	91.1
1360X768	60	47.7
1400X1050	60	65.3
1440X900	59.9	55.9
1680X1050	60	65.3
1600X1200	60	75



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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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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 $\frac{4}{3}$ times the height.

Brightness—The amount of light emitting 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).

Component Video—A method of delivering quality video in a format that consists of the luminance signal and two separate chrominance signals and are defined as Y'Pb'Pr' for analog component and Y'Cb'Cr' for digital component. Component video is available on DVD players.

Composite Video—A video signal that combines the luma (brightness), chroma (color), burst (color reference), and sync (horizontal and vertical synchronizing signals) into a signal waveform carried on a single wire pair. There are three kind of formats, namely, NTSC, PAL and SECAM.

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 9FT high, 12FT wide, screen has a diagonal of 15FT. 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 passes 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.

DVI-D— Digital Visual Interface-Digital connector.

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, is a specification developed by Intel Corporation to protect digital audio/video from copy while acrossing the DVI/HDMI interface.

HDMI— High Definition Multimedia Interface, delivering uncompressed, all-digital audio/vedio stream.

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.

WXGA— Wide Extended Graphics Array— 1280x800 pixels count.

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

Zoom Lens— Lens with a variable focal length that allows 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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