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Dell[™] 1200MP Projector

Owner's Manual



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 1200MP

January 2006

P/N CG356 Rev. A00



Contents

1 Your Dell[™] Projector

About Your Projector								(ĉ

2 Connecting Your Projector

Connecting to a Computer	•	•	•	8
Connecting a DVD Player, Set Top Box, VCR, or TV				8
Connecting With a Component Cable				8
Connecting With an S-Video Cable				9
Connecting With a Composite Cable			·	9
Connecting to a Wired RS232 Remote Control				10
Connecting to a Computer				10
Connecting to a Commercial RS232 Control Box			•	10

3 Using Your Projector

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Turning Your Projector On			•	11
Turning Your Projector Off			•	11
Adjusting the Projected Image				12
Raising the Projector Height				12
Lowering the Projector Height			•	12
Adjusting Projection Image Size				13

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Adjusting the Projector Zoom and Focus	14
Password Security	14
Using the Control Panel	16
Using the Remote Control	17
Using the On-Screen Display	18
Main Menu	19
All Images Menu	19
Computer Image Menu	20
Video Image Menu	21
Audio Menu	21
Management Menu	22
Language Menu	24
Test Pattern Menu	24
Factory Reset Menu	24

4 Troubleshooting Your Projector

Changing the Lamp																		28
-------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

- 5 Specifications
- 6 Contacting Dell
- 7 Glossary



1

Your Dell[™] Projector

Your projector comes with all the items shown below. Ensure that you have all the items, and contact Dell if anything is missing. For more information see, "Contacting Dell".

Package Contents

Power cable (1.8m)

S-Video cable (2.0m)

VGA cable (D-sub to D-sub) (1.8m)



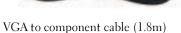
USB cable (1.8m)



Composite cable (1.8m)

RCA to audio cable (1.8m)



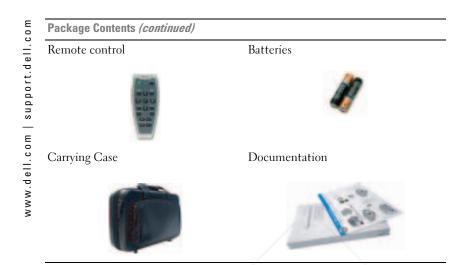




Mini pin to Mini pin cable (1.8m)







About Your Projector

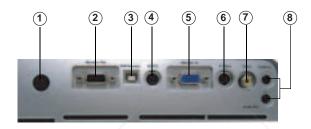


	1	Control panel
	2	Zoom tab
	3	Focus ring
/	4	Lens
	5	Remote control receiver
FixYourDLP.co	የገ	Elevator button

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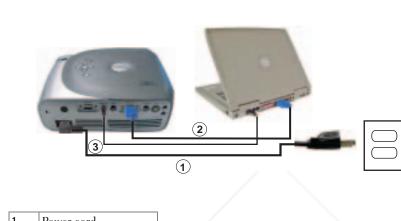
2

Connecting Your Projector



1	IR receiver
2	VGA out (monitor loop-through)
3	USB connector
4	RS232 connector
5	VGA in (D-sub) connector
6	S-video connector
7	Composite video connector
8	Audio input connector
	·





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

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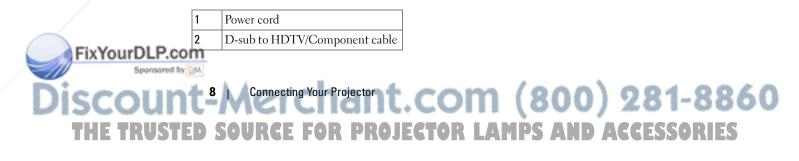
NOTE: The USB cable must be connected if you want to use the Next Page and Previous Page features on the remote control.

Connecting a DVD Player, Set Top Box, VCR, or TV

Connecting With a Component Cable

Connecting to a Computer



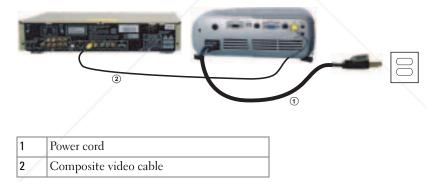


Connecting With an S-Video Cable



1	Power cord
2	S-video cable

Connecting With a Composite Cable







1	Power cord
2	RS232 cable

Connecting to a Commercial RS232 Control Box



1	Power cord
2	RS232 cable
3	Commercial RS232 control box



3

Using Your Projector

Turning Your Projector On

NOTE: Turn on the projector before you turn on the source (computer, notebook, DVD, etc.). The Power button light blinks green until pressed.

1 Remove the lens cap.

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- **2** Connect the power cord and appropriate cables. For information about connecting the projector, see "Connecting Your Projector" on page 7.
- **3** Press the Power button (see "About Your Projector" on page 6 to locate the Power button). The Dell logo displays for 30 seconds.
- **4** Turn on your source (computer, DVD player, etc.). The projector automatically detects your source.

NOTE: Allow the projector some time to search for the source.

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

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.

Turning Your Projector Off

NOTICE: Unplug the projector after properly shutting down as explained in the following procedure.

Press the Power button twice. The cooling fan continues to operate for 90 seconds.
 Disconnect the power cord from the electrical outlet and the projector.

NOTE: If you press the Power button while the projector is running, the following message appears:

"(1) Press Power button to Turn Off Projector. Projector must cool down for 90 seconds before unplugging or restarting." The message disappears in 5 seconds or you can press any button on the control panel to erase it.

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Adjusting the Projected Image

Raising the Projector Height

1 Press the elevator button.

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- **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; if necessary, press the side elevator buttons to raise the rear side of the projector to the desired display angle.

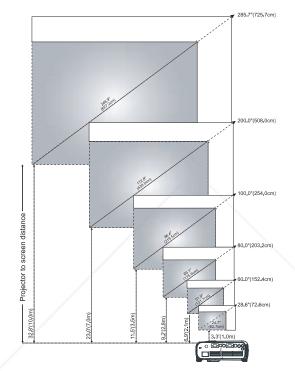
Lowering the Projector Height

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





Adjusting Projection Image Size



Screen	Max.	28.6" (72.6cm)	60.0"(152.4cm)	80.0"(203.2cm)	100.0"(254.0cm)	200.0"(508.0cm)	285.7"(725.7cm)						
(Diagonal)	Min.	24.7"(62.7cm)	51.9"(131.7cm)	69.1"(175.6cm)	86.4"(219.5cm)	172.8"(439.0cm)	246.9"(627.2cm)						
Screen	Max.	22.9"x58.1"	48.0"x121.9"	64.0"x162.6"	80.0"x203.2"	160.0"x406.4"	228.6"x580.6"						
size	(WxH)	17.1cmx43.5cm	36.0cmx91.4cm	48.0cmx121.9cm	60.0cmx152.4cm	120.0cmx304.8cm	171.4cmx435.4cm						
	Min.	19.8"x50.2"	41.5"x105.4"	55.3"x140.5"	69.1"x175.6"	138.3"x351.2"	197.5"x501.7"						
	(WxH)	14.8cmx37.6cm	31.1cmx79.0cm	41.5cmx105.4cm	51.9cmx131.7cm	103.7cmx263.4cm	148.1cmx376.3cm						
Distar	ice	3.3ft(1.0m)	6.9ft(2.1m)	9.2ft(2.8m)	11.5ft(3.5m)	23ft(7.0m)	32.8ft(10.0m)						
*This graph	*This graph is for user reference only.												



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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 from 3.3ft to 32.8ft (1m to 10m).

1	Zoom tab
2	Focus ring

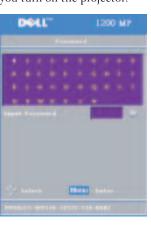
Password Security

Protect your projector and restrict access to it with **Password Security** feature. 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.

When Password Protect is enabled (On), a Password Protect screen requesting you to enter a password will be displayed when the power plug is inserted into the electrical outlet and the power for the projector is first turned on.

By default, this function is disabled. You can enable this feature using the Password menu. Refer to section in this manual titled "Management Menu-Password" for further details. This password security feature will be activated on the next time you turn on the projector. FixYourDLP.com

DISCOUNT¹⁴ Musing Your Projector ant. COM (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES If you enable this feature, you will be asked to enter the projector's password after you turn on the projector:



1 lst time password input request:

- **a** Use the directional keys to enter the password.
- **b** Press the Menu button to confirm.
- **c** If the password verification is successful, you may resume with accessing the projector's functions and its utilities.

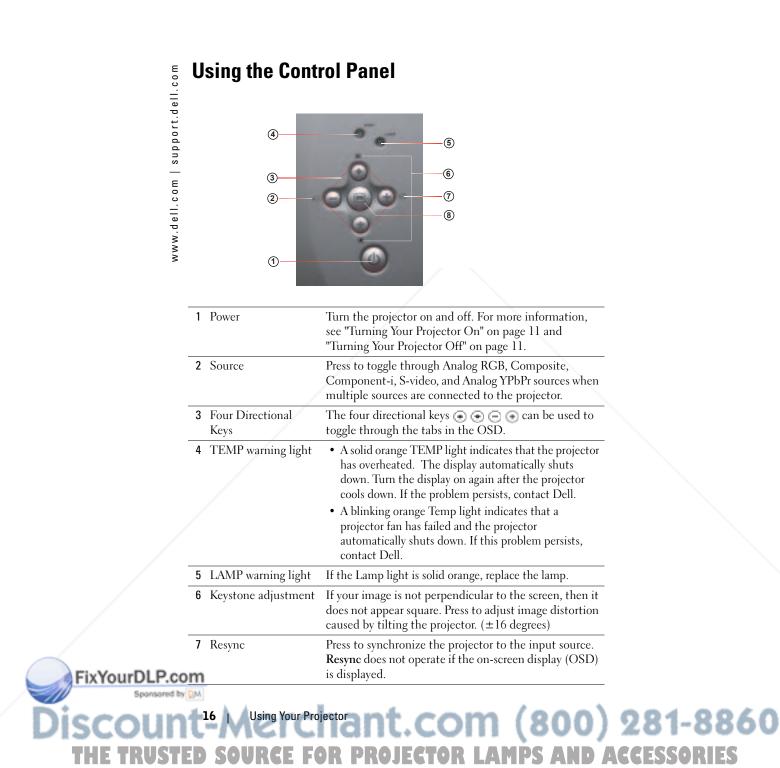


be given another 2 chances. After the three invalid attempts, the projector will automatically turn off.**NOTE:** If you forget your password, contact

2 If you have entered incorrect password, you will

NOTE: If you forget your password, contact
Dell. For more information see, "Contacting
Dell".

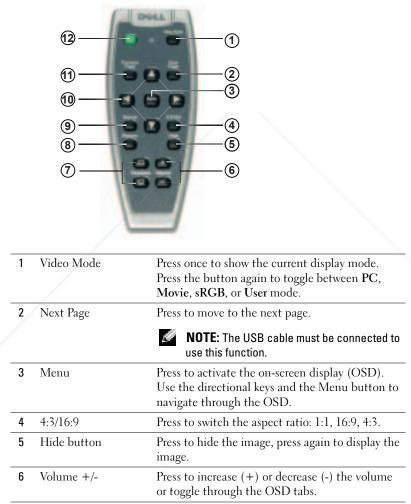




Press to activate the OSD. Use the directional keys and
the Menu button to navigate through the OSD.

Using the Remote Control

8 Menu



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7	Keystone adjustment	If your image is not perpendicular to the screen, then it does not appear square. Press to adjust image distortion caused by tilting the projector $(\pm 16 \text{ degrees})$.
8	Resync	Press to synchronize the projector to the input source. Resync does not operate if the OSD is displayed.
9	Source	Press to toggle through Analog RGB, Composite, Component-i, S-video, and Analog YPbPr sources when multiple sources are connected to the projector.
10	Directional keys	Use the \blacktriangle or \blacktriangledown button to select OSD items, use the \blacktriangleleft or \triangleright button to make adjustments.
11	Previous Page	Press to go to the previous page. Image: Image is a state of the state of
12	Power	Turn the projector on and off. For more information, see "Turning Your Projector On" on page 11 and "Turning Your Projector Off" on page 11.

Using the On-Screen Display

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

In the Main Menu, press the $\textcircled{\bullet}$ or $\textcircled{\bullet}$ button on the control panel or the \blacktriangle or \blacktriangledown button on the remote control navigate through the tabs. Press the $\textcircled{\bullet}$ button on the control panel or the Menu button on the remote control to select a submenu.

In the submenus, press the $\textcircled{\bullet}$ or $\textcircled{\bullet}$ button on the control panel or the \blacktriangle or \blacktriangledown button on the remote control to make a selection. When an item is selected, the color changes to dark gray. Use the \boxdot or $\textcircled{\bullet}$ button on the control panel or the \blacktriangleleft or \blacktriangleright button on the remote control make adjustments to a setting.

To exit the OSD, go to the Exit tab and press the button on the control panel or the Menu button on the remote control.



Main Menu



All Images Menu

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		1.1
	2	

BRIGHTNESS—Use the \bigcirc or \bigcirc button on the control panel or the \blacktriangleleft or \blacktriangleright button on the remote control to adjust the brightness of the image.

CONTRAST—Use the \bigcirc or \bigcirc button on the control panel or the \blacktriangleleft or \blacktriangleright button on the remote control to adjust the degree of difference between the brightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

COLOR TEMP—Adjust the color temperature. The screen appears more blue at higher temperatures. The screen appears more red at lower temperatures.

User mode activates the values in the color setting menu.

COLOR SETTING-Manually adjust red, green, and blue color.

KEYSTONE—Adjust the image distortion caused by tilting the projector (± 16 degrees).

AUTO KEYSTONE—Select **Yes** to enable the auto correction for vertical image distortion caused by tilting the projector. To manually adjust the keystone, press the button on the control panel or the Menu button on the remote control.

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SEMI-AUTO KEYSTONE—Press the () button on the control panel or the Menu button www.dell.com | support.dell.com on the remote control to activate the Semi-Auto Keystone correction for image distortion.

ASPECT RATIO—Select an aspect ratio to adjust how the image appears.

- 1:1 The input source displays without scaling.
- Use 1:1 aspect ratio if you are using one of the following:
- VGA cable and the computer has a resolution less than XGA (1024 x 768)
- Component cable (576p/480i/480p)
- S-Video cable
- Composite cable
- 16:9 The input source scales to fit the width of the screen.
- 4:3 The input source scales to fit the screen.
 - Use 16:9 or 4:3 if you are using one of the following:
 - Computer resolution greater than XGA
 - Component cable (1080i or 720p)

VIDEO MODE—Select a mode to optimize the display image based on how the projector is being used: Movie, PC, sRGB (provides more accurate color representation), and User (set your preferred settings). If you adjust the settings for White Intensity or Degamma, the projector automatically switches to User.

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

DEGAMMA—Adjust between 1 and 6 to change the color performance of the display. The default setting is 0.

Computer Image Menu

NOTE: This menu is only available when a computer is connected.



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

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

NOTE: Adjust Frequency first and then Tracking.

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HOR. POSITION—Press the \bigcirc button on the control panel or the \blacktriangleleft button on the remote control to adjust the horizontal position of the image to the left and press the \bigcirc button on the control panel or the \blacktriangleright button on the remote control to adjust the horizontal position of the image to the right.

VER. POSITION—Press the \bigcirc button on the control panel or the \blacktriangleleft button on the remote control to adjust the vertical position of the image downward and press the \bigcirc button on the control panel or the \blacktriangleright button on the remote control to adjust the vertical position of the image upward.

Video Image Menu



NOTE: This menu is only available when an S-video or composite video source is connected.

SATURATION—Press the \bigcirc button on the control panel or the \blacktriangleleft button on the remote control to decrease the amount of color in the image and press the + button the control panel or the \blacktriangleright button on the remote control to increase the amount of color in the image.

SHARPNESS—Press the button on the control panel or the button on the remote control to decrease the sharpness and press the button on

the control panel or the ▶ button on the remote control to increase the sharpness.

TINT—Press the \bigcirc button on the control panel or the \triangleleft button on the remote control to increase the amount of green in the image and press the \bigcirc button on the control panel or the \triangleright button on the remote control to increase the amount of red in the image.

Audio Menu

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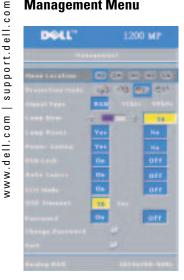


VOLUME—Press the button on the control panel or the - button on the remote control to decrease the volume and press the button on the control panel or the + button on the remote control to increase the volume.

MUTE—Allows to mute the volume.

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Management Menu



MENU LOCATION—Select the location of the OSD on the screen.

PROJECTION MODE—Select how the image appears: • The first projection-Desktop (the default).

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

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

• 💷 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.

SIGNAL TYPE—Manually select the signal type (RGB, YCbCr, or YPbPr).

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

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

POWER SAVING-Select Yes to set the power saving delay period. The delay period is the amount of time you want the projector to wait without signal input. After that set time, the projector enters power saving mode and turns off the lamp. The projector turns back on when it detects an input signal or you press the Power button. After two hours, the projector turns off and you need to press the Power button to turn the projector on.

OSD LOCK—Select On to enable the OSD Lock for hiding the OSD menu. To display OSD menu, press the 💿 button on the control panel or the Menu button on the remote control for 15 seconds.

AUTO SOURCE—Select **On** (the default) to auto detect the available input signals. When the projector is on and you press Source, it automatically finds the next available input signal. Select Off to lock the current input signal. When Off is selected and you press **Source**, you select which input signal you want to use.

ECO MODE—Select **On** to use the projector at a lower power level (150 Watts), which may provide longer lamp life, quieter operating, and dimmer luminance output on the screen. Select Off to operate at normal power level (200 Watts).

OSD TIMEOUT —Use this function to set the duration OSD menu stay active (at idle state).

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PASSWORD—Select **On** to enable you to impose a variety of access restrictions to protect your privacy and stop others from tampering with your projector.

- **a** Press the \blacktriangleleft button to select On.
 - If this setting is set to Off, the Change Password feature will be disabled.
- **b** Set your password with the directional keys and press the Menu button to confirm.

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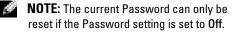
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NOTE: To disable the Password setting, user will be asked to enter the correct password. If the password verification is successful, only then the Password can be set to Off.

CHANGE PASSWORD—Use this function to modify the password to your preference.

- **a** Enter your current password with the directional keys.
- **b** Set your new password.
- c Verify again your new password.
- **d** Press the Menu button to confirm.



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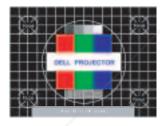
Language Menu



Press the \odot or \odot button on the control panel or the \blacktriangle or \blacktriangledown button on the remote control to select the preferred language for the OSD.

Press the 🗩 on the control panel or the Menu button on the remote control to confirm the language selection.

Test Pattern Menu



Press the 🕞 button on the control panel or the Menu button on the remote control to display the test pattern chart. Use this function to adjust the focus of the projected screen. Use the \bigcirc or \bigcirc button on the control panel or the ✓ or ▶ button on the remote control to exit from this mode.

Factory Reset Menu



Select Yes to reset the projector to its factory default settings. Reset items include both computer image and video image settings.



4

Troubleshooting Your Projector

If you experience problems with your projector, see the following troubleshooting tips. If the problem persists, contact Dell. For more information see, "Contacting Dell".

Problem	Possible Solution
No image appears on the screen	• Ensure that the lens cap is removed and the projector is turned on.
F8 CRT/LCD	• Ensure that the external graphics port is enabled. If you are using a Dell portable computer, press 🖭 🔤. For other computers, see respective documentation.
	NOTE: Allow the projector some time to search for the source.
	• 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 28).



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Problem <i>(continued)</i>	Possible Solution (continued)		
Partial, scrolling, or incorrectly displayed image	1 Press the Resync 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 XGA (1024 x 768):		
F8 CRT/LCD	 Right-click the unused portion of your Windows desktop, click Properties and then select Settings tab. 		
	b Verify the setting is 1024 x 768 pixels for the external monitor port.		
	c Press b b . If you experience difficulty in changing resolutions or your monitor freezes, restart all the equipment and the projector.		
	If you are not using a Dell portable, see related documentation.		
The screen does not display your presentation	If you are using a Dell portable computer, press		
Image is unstable or flickering	Adjust the tracking in the OSD Computer Image tab.		
Image has vertical flickering bar	Adjust the frequency in the OSD Computer Image tab.		
Image color is not correct	• If your graphic card output signal appears green, and you would like to display VGA at 60Hz signal, please go into the OSD select Management, select Signal Type, and then select RGB.		
Image is out of focus	1 Adjust the focus ring on the projector lens.		
	2 Ensure that the projection screen is within the required distance from the projector (3.3ft [1m] to 32.8ft [10m]).		



Problem <i>(continued)</i>	Possible Solution (continued)		
The image is stretched when displaying a 16:9 DVD	 The projector automatically detects 16:9 DVD and adjusts the aspect ratio to full screen with a 4:3 (letter-box) default setting. If the image is still stretched, adjust the aspect ratio as follows: If you are playing a 16:9 DVD, select 4:3 aspect ratio type on your DVD player (if capable). 		
	 If you cannot select 4:3 aspect ratio type on you DVD player, select 4:3 aspect ratio in the All Images menu in the OSD. 		
Image is reversed	Select Management from the OSD and adjust th projection mode.		
Lamp is burned out or makes a popping sound	When the lamp reaches its end of life, it may bur out and may make a loud popping sound. If this occurs, the projector does not turn back on, and displays Lamp Defective in the LCD display until the lamp is replaced. To replace the lamp, see "Changing the Lamp" on page 28.		
The remote control is not operating smoothly or in very limited range	The battery may be low. If so, replace it with 2 new AAA batteries.		
OSD display window does not appear on the screen after pressing the Menu button on the remote control or on the control panel	 Try the following procedures: 1 Press the Menu button on the remote control or on the control panel for 15 seconds until OSD pops up. 2 Select Management from the OSD. 3 Set OSD Lock to "Off". 		

LAMP & TEMP indicator information

LAMP light is solid orange	If the Lamp light is solid orange, replace the lamp.
TEMP light is solid orange	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 orange	A projector fan has failed and the projector automatically shuts down. If this problem persists, contact Dell.



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Changing the Lamp

Replace the lamp when the message "Lamp is approaching the end of its useful life in full power operation. Replacement suggested!" appears on the screen. If this problem persists after replacing the lamp, contact Dell. For more information see, "Contacting Dell".

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.

1 Turn off the projector and disconnect the power cord.

2 Let the projector cool for at least 30 minutes.

3 Loosen the 2 screws that secure the lamp cover, and remove the cover.

CAUTION: If the lamp has shattered, be careful as the broken pieces are sharp and can cause injury. Remove all broken pieces from the projector and dispose or recycle according to state, local or federal law. Go to www.dell.com/hg for additional information.

4 Loosen the 2 screws that secure the lamp.

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

5 Pull up the lamp by its metal handle.

NOTE: Dell may require that lamps replaced under warranty be returned to Dell.

6 Replace with the new lamp.

7 Tighten the 2 screws that secure the lamp.

8 Place the lamp cover and tighten the 2 screws.

9 Reset the lamp usage time by selecting Yes for Lamp Reset icon in the OSD Management tab. (Refer to Management Menu in Owner's Manual)

CAUTION: (1) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL



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.

DISCOUNT²⁸ Troubleshooting Your Projector COM (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

www.dell.com | support.dell.com

FixYourDLP.com

Specifications

Light Valve

Brightness Contrast Ratio Uniformity Lamp

Number of Pixels Displayable Color Color Wheel Speed Projection Lens

Projection Screen Size **Projection Distance** Video Compatibility

H. Frequency V. Frequency Power Supply

FixYourDLP.com

Power Consumption

Single-chip DLP[™] DDR (double data rate) technology 2000 ANSI Lumens (Max) 2100:1 Typical (Full On/Full Off) 80% Typical (Japan Standard - JBMA) 200-watt user-replaceable UHP 2500hour lamp(up to 3000 hours in eco mode) 800 x 600 (SVGA) 16.7M colors 100~127.5Hz (2X) F/2.4-2.58, f=19~21.9mm with 1.15x manual zoom lens 28.57-285.7 inches (diagonal) 3.3~32.8 ft (1m~10m) NTSC, NTSC 4.43, PAL, PAL-M, PALand S-video capability 31kHz-79kHz (Analog) 50Hz-85Hz (Analog)

N, SECAM, and HDTV (1080i, 720P, 576i/P, 480i/P) compatibility Composite video, Component video

Universal 100-240V AC 50-60Hz with PFC input

250 Watts full power (typical), 200 Watts in eco mode

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support.dell.com	Audio	l speaker, 2 Watts RMS	
	Noise Level	36dB(A) Full-on mode, 33dB(A) Eco-mode	
ort.	Weight	2.24kg (4.94 lbs)	
oddns	Dimensions (W x H x D)	External 9.9 x 3.96 x 8.4 ± 0.04 inches (251 x 101 x 213 ± 1mm)	
. c o m	Environmental	Operating temperature: 5°C–35°C (41°F–95°F)	
e		Humidity: 80% maximum	
www.dell.com		Storage temperature: -20° C to 60° C (-4° F to 140° F)	
		Humidity: 80% maximum	
	Regulatory	FCC, CE, VCCI, UL, cUL, Nemko-GS, ICES-003, MIC, C-Tick, GOST, CCC, PSB, NOM, IRAM, SABS	
	I/O Connectors	Power: AC power input socket	
		Computer input: one 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	

USB input: one USB connector

Audio input: one phone jack (diameter 3.5mm)

One mini-DIN RS232 for wired remote projector control from PC

Discount³⁰ Specificationshant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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Sponsored by DM

RS232 Pin Assignment



RS232 Protocol

Communication Settings

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

- Control command Syntax (From PC to Projector)
 [H][AC][SoP][CRC][ID][SoM][COMMAND]
- Example: power on the projector Enter the following code: 0xBE 0xEF 0x10 0x05 0x00 0xC6 0xFF 0x11 0x11 0x01 0x00 0x01
- **NOTE:** Send least significant bytes first.



C O H	• Cor	ntrol Co	ommands	s List				
support.aell.com	Control Commands List	Address Code (BYTE)	Size of the Payload (WORD)	CRC16 for the entire packet (WORD)	MsG ID (WORD)	MsG size (WORD)		Command Description
d n	0xefbe	0x10	0x0005	0xffc6	0x1111	0x0001	0x01	Power on
s				0xbfc7			0x02	Menu
E				0x7e07			0x03	Up
w w w . u e I I . c o III				0x3fc5			0x04	Down
÷				0xfe05			0x05	Left
ם -				0xbe04			0x06	Right
\$				0x7fc4			0x07	Resync
>				0x3fc0			0x08	Source
				0xfe00		1	0x09	Volume+
				0xbe01		/	0x0a	Volume-
				0xffc3			0x0d	Mute
				0x7e02			0x0f	Hide
				0x3fca			0x10	Video Mode
				0x7fcb			0x13	V. Keystone Up
				0x3e09			0x14	V. Keystone Down
				0x7e08			0x17	Aspect ratio (4:3/16:9)
				0x3e0c			0x18	Power OFF
				0xffcc			0x19	Source-VGA
		/		0xbfcd			0x1a	Source-VGA YPbP (480p/576p/720p/ 1080i)
	/			0x7e0d			0x1b	Source-VGA YCbC (480i/576i)
				0xbe1f			0x22	Source-S-Video
				0x7fdf			0x23	Source-Composite
				0xbfd9			0x2a	ECO Mode ON
				0x7e19			0x2b	ECO Mode OFF
				0x3fdb			0x2c	Auto Source ON
				0xfe1b	-		0x2d	Auto Source OFF
				0xbe1a			0x2e	Factory Reset
				0x7fda			0x2f	Lamp Hour
				0x3e12			0x30	Firmware Version
				0x7e46	1		0xff	System Status

Control Commands List

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Mode	Resolution	(ANALOG)			
		V. Frequency (Hz)	H. Frequency (KHz)		
VGA	640x350	70	31.5		
VGA	640x350	85	37.9		
VGA	640x400	85	37.9		
VGA	640x480	60	31.5		
VGA	640x480	72	37.9		
VGA	640x480	75	37.5		
VGA	640x480	85	43.3		
VGA	720x400	70	31.5		
VGA	720x400	85	37.9		
SVGA	800x600	56	35.2		
SVGA	800x600	60	37.9		
SVGA	800x600	72	48.1		
SVGA	800x600	75	46.9		
SVGA	800x600	85	53.7		
XGA	1024x768	43.4	35.5		
XGA	1024x768	60	48.4		
XGA	1024x768	70	56.5		
XGA	1024x768	75	60.0		
XGA	1024x768	85	68.7		
SXGA	1280x1024	60	63.98		
SXGA+	1400x1050	60	63.98		
MAC LC13"	640x480	66.66	34.98		
MAC II 13"	640x480	66.68	35		
MAC 16"	832x624	74.55	49.725		
MAC 19"	1024x768	75	60.24		
MAC	1152x870	75.06	68.68		
MAC G4	640x480	60	31.35		
MAC G4	640x480	120	68.03		
IMac DV	640x480	117	60		
IMac DV	800x600	95	60		
IMac DV	1024x768	75	60		
IMac DV	1152x870	75	68.49		
IMac DV	1280x960	75	75		

Compatibility Modes



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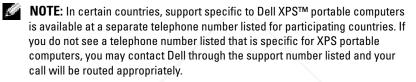
Contacting Dell

To contact Dell electronically, you can access the following websites:

- www.dell.com
- support.dell.com (support)

For specific web addresses for your country, find the appropriate country section in the table below.

NOTE: Toll-free numbers are for use within the country for which they are listed.



When you need to contact Dell, use the electronic addresses, telephone numbers, and codes provided in the following table. If you need assistance in determining which codes to use, contact a local or an international operator.



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support.dell.con	Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
ort	Anguilla	General Support	toll-free: 800-335-0031
d d	Antigua and Barbuda	General Support	1-800-805-5924
n s	Argentina (Buenos Aires)	Website: www.dell.com.ar	
	International Access Code:	E-mail: us_latin_services@dell.com	
w w v d e I I . c o m	00 Country Code: 54 City Code: 11	E-mail for desktop and portable computers: la-techsupport@dell.com	
w w w		E-mail for servers and EMC [®] storage products: la_enterprise@dell.com	
		Customer Care	toll-free: 0-800-444-0730
		Hardware and Warranty Support	toll-free: 0-800-444-0733
		Hardware And Warranty Support Services	toll-free: 0-800-444-0724
		Sales	0-810-444-3355
	Aruba	General Support	toll-free: 800-1578
	Australia (Sydney) International Access Code: 0011 Country Code: 61 City Code: 2	Website: support.ap.dell.com E-mail: support.ap.dell.com/contactus General Support	13DELL-133355
	Austria (Vienna) International Access Code: 900 Country Code: 43	Website: support.euro.dell.com E-mail: tech_support_central_europe@ dell.com	
	City Code: 1	Home/Small Business Sales	0820 240 530 00
		Home/Small Business Fax	0820 240 530 49
		Home/Small Business Customer Care	0820 240 530 14
		Preferred Accounts/Corporate Customer Care	0820 240 530 16
		Support for XPS portable computers only	0820 240 530 81
		Home/Small Business Support for all other Dell computers	0820 240 530 14
		Preferred Accounts/Corporate Support	0660 8779
ixYourDLP.co	m	Switchboard	0820 240 530 00

SCOUNT³⁶ M^{Contacting Delhant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES}

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Bahamas	General Support	toll-free: 1-866-278-6818
Barbados	General Support	1-800-534-3066
Belgium (Brussels)	Website: support.euro.dell.com	
International Access Code: 00	Hardware And Warranty Support for XPS portable computers only	02 481 92 96
Country Code: 32 City Code: 2	Hardware And Warranty Support for all other Dell computers	02 481 92 88
	Hardware And Warranty Support Fax	02 481 92 95
	Customer Care	02 713 15 65
	Corporate Sales	02 481 91 00
	Fax	02 481 92 99
	Switchboard	02 481 91 00
Bermuda	General Support	1-800-342-0671
Bolivia	General Support	toll-free: 800-10-0238
Brazil	Website: www.dell.com/br	
International Access Code: 00	Customer Support, Hardware and Warranty Support	0800 90 3355
Country Code: 55 City Code: 51	Hardware and Warranty Support Fax	51 481 5470
	Customer Care Fax	51 481 5480
	Sales	0800 90 3390
British Virgin Islands	General Support	toll-free: 1-866-278-6820
Brunei Country Code: 673	Hardware and Warranty Support (Penang, Malaysia)	604 633 4966
	Customer Care (Penang, Malaysia)	604 633 4888
	Transaction Sales (Penang, Malaysia)	604 633 4955



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Canada (North York, Ontario)	Online Order Status: www.dell.ca/ostatus	
International Access Code: 011	AutoTech (automated Hardware and Warranty Support)	toll-free: 1-800-247-9362
	Customer Service (Home Sales/Small Business)	toll-free: 1-800-847-4096
	Customer Service (med./large business, government)	toll-free: 1-800-326-9463
	Customer Service (printers, projectors, televisions, handhelds, digital jukebox, and wireless)	toll-free: 1-800-847-4096
	Hardware Warranty Support (Home Sales/Small Business)	toll-free: 1-800-906-3355
	Hardware Warranty Support (med./large bus., government)	toll-free: 1-800-387-5757
	Hardware Warranty Support (printers, projectors, televisions, handhelds, digital jukebox, and wireless)	1-877-335-5767
	Sales (Home Sales/Small Business)	toll-free: 1-800-387-5752
	Sales (med./large bus., government)	toll-free: 1-800-387-5755
	Spare Parts Sales & Extended Service Sales	1 866 440 3355
Cayman Islands	General Support	1-800-805-7541
Chile (Santiago) Country Code: 56 City Code: 2	Sales and Customer Support	toll-free: 1230-020-4823



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
China (Xiamen) Country Code: 86	Hardware and Warranty Support website: support.dell.com.cn	
City Code: 592	Hardware and Warranty Support E- mail: cn_support@dell.com	
	Customer Care E-mail: customer_cn@dell.com	
	Hardware and Warranty Support Fax	592 818 1350
	Hardware and Warranty Support (Dell™ Dimension™ and Inspiron)	toll-free: 800 858 2968
	Hardware and Warranty Support (OptiPlex™, Latitude™, and Dell Precision™)	toll-free: 800 858 0950
	Hardware and Warranty Support (servers and storage)	toll-free: 800 858 0960
	Hardware and Warranty Support (projectors, PDAs, switches, routers, and so on)	toll-free: 800 858 2920
	Hardware and Warranty Support (printers)	toll-free: 800 858 2311
	Customer Care	toll-free: 800 858 2060
	Customer Care Fax	592 818 1308
	Home and Small Business	toll-free: 800 858 2222
	Preferred Accounts Division	toll-free: 800 858 2557
	Large Corporate Accounts GCP	toll-free: 800 858 2055
	Large Corporate Accounts Key Accounts	toll-free: 800 858 2628
	Large Corporate Accounts North	toll-free: 800 858 2999
	Large Corporate Accounts North Government and Education	toll-free: 800 858 2955
	Large Corporate Accounts East	toll-free: 800 858 2020
	Large Corporate Accounts East Government and Education	toll-free: 800 858 2669
	Large Corporate Accounts Queue Team	toll-free: 800 858 2572
	Large Corporate Accounts South	toll-free: 800 858 2355
	Large Corporate Accounts West	toll-free: 800 858 2811
	Large Corporate Accounts Spare Parts	toll-free: 800 858 2621

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Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Colombia	General Support	980-9-15-3978
Costa Rica	General Support	0800-012-0435
Czech Republic (Prague)	Website: support.euro.dell.com	
International Access Code:	E-mail: czech_dell@dell.com	
00 Country Code: 420	Hardware and Warranty Support	22537 2727
Country Code: 420	Customer Care	22537 2707
	Fax	22537 2714
	Hardware and Warranty Fax	22537 2728
	Switchboard	22537 2711
Denmark (Copenhagen)	Website: support.euro.dell.com	
International Access Code: 00 Country Code: 45	Hardware and Warranty Support for XPS portable computers only	7010 0074
	Hardware and Warranty Support for all other Dell computers	7023 0182
	Customer Care (Relational)	7023 0184
	Home/Small Business Customer Care	3287 5505
	Switchboard (Relational)	3287 1200
	Switchboard Fax (Relational)	3287 1201
	Switchboard (Home/Small Business)	3287 5000
	Switchboard Fax (Home/Small Business)	3287 5001
Dominica	General Support	toll-free: 1-866-278-6821
Dominican Republic	General Support	1-800-148-0530
Ecuador	General Support	toll-free: 999-119
El Salvador	General Support	01-899-753-0777





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Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Finland (Helsinki)	Website: support.euro.dell.com	
International Access Code:	Hardware and Warranty Support	09 253 313 60
990 Country Code: 358	Customer Care	09 253 313 38
City Code: 9	Fax	09 253 313 99
5	Switchboard	09 253 313 00
France (Paris)	Website: support.euro.dell.com	
(Montpellier)	Home and Small Business	
International Access Code: 00 Country Code: 33	Hardware and Warranty Support for XPS portable computers only	0825 387 129
City Codes: (1) (4)	Hardware and Warranty Support for all other Dell computers	0825 387 270
	Customer Care	0825 823 833
	Switchboard	0825 004 700
	Switchboard (calls from outside of France)	04 99 75 40 00
	Sales	0825 004 700
	Fax	0825 004 701
	Fax (calls from outside of France)	04 99 75 40 01
	Corporate	
	Hardware and Warranty Support	0825 004 719
	Customer Care	0825 338 339
	Switchboard	01 55 94 71 00
	Sales	01 55 94 71 00
	Fax	01 55 94 71 01



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Germany (Langen) International Access Code: 00 Country Code: 49 City Code: 6103	Website: support.euro.dell.com E-mail: tech_support_central_europe@ dell.com Hardware and Warranty Support for	06103 766-7222
	XPS portable computers only Hardware and Warranty Support for all other Dell computers	06103 766-7200
	Home/Small Business Customer Care	0180-5-224400
	Global Segment Customer Care	06103 766-9570
	Preferred Accounts Customer Care	06103 766-9420
	Large Accounts Customer Care	06103 766-9560
	Public Accounts Customer Care	06103 766-9555
	Switchboard	06103 766-7000
Greece	Website: support.euro.dell.com	
International Access Code:	Hardware and Warranty Support	00800-44 14 95 18
00 Country Code: 3 0	Gold Service Hardware and Warranty Support	00800-44 14 00 83
	Switchboard	2108129810
	Gold Service Switchboard	2108129811
	Sales	2108129800
	Fax	2108129812
Grenada	General Support	toll-free: 1-866-540-3355
Guatemala	General Support	1-800-999-0136
Guyana	General Support	toll-free: 1-877-270-4609



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Hong Kong	Website: support.ap.dell.com	
International Access Code: 001	Hardware and Warranty Support E- mail: apsupport@dell.com	
Country Code: 852	Hardware and Warranty Support (Dimension and Inspiron)	2969 3188
	Hardware and Warranty Support (OptiPlex, Latitude, and Dell Precision)	2969 3191
	Hardware and Warranty Support (PowerApp™, PowerEdge™, PowerConnect™, and PowerVault™)	2969 3196
	Customer Care	3416 0910
	Large Corporate Accounts	3416 0907
	Global Customer Programs	3416 0908
	Medium Business Division	3416 0912
	Home and Small Business Division	2969 3105
India	E-mail: india_support_desktop@dell.com india_support_notebook@dell.com india_support_Server@dell.com	
	Hardware And Warranty Support	1600338045 and 1600448046
	Sales (Large Corporate Accounts)	1600 33 8044
	Sales (Home and Small Business)	1600 33 8046



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Ireland (Cherrywood)	Website: support.euro.dell.com	
International Access Code: 00	E-mail: dell_direct_support@dell.com	
Country Code: 353 City Code: 1	Hardware and Warranty Support for XPS portable computers only	1850 200 722
	Hardware and Warranty Support for all other Dell computers	1850 543 543
	U.K. Hardware and Warranty Support (dial within U.K. only)	0870 908 0800
	Home User Customer Care	01 204 4014
	Small Business Customer Care	01 204 4014
	U.K. Customer Care (dial within U.K. only)	0870 906 0010
	Corporate Customer Care	1850 200 982
	Corporate Customer Care (dial within U.K. only)	0870 907 4499
	Ireland Sales	01 204 4444
	U.K. Sales (dial within U.K. only)	0870 907 4000
	Fax/Sales Fax	01 204 0103
	Switchboard	01 204 4444
Italy (Milan)	Website: support.euro.dell.com	
International Access Code:	Home and Small Business	
00 Country Code: 39	Hardware and Warranty Support	02 577 826 90
City Code: 02	Customer Care	02 696 821 14
· /	Fax	02 696 821 13
	Switchboard	02 696 821 12
	Corporate	
	Hardware and Warranty Support	02 577 826 90
	Customer Care	02 577 825 55
	Fax	02 575 035 30
	Switchboard	02 577 821



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Jamaica	General Support (dial from within Jamaica only)	1-800-682-3639
Japan (Kawasaki)	Website: support.jp.dell.com	
International Access Code: 001	Hardware And Warranty Support (servers)	toll-free: 0120-198-498
Country Code: 81 City Code: 44	Hardware And Warranty Support outside of Japan (servers)	81-44-556-4162
	Hardware And Warranty Support (Dimension and Inspiron)	toll-free: 0120-198-226
	Hardware And Warranty Support outside of Japan (Dimension and Inspiron)	81-44-520-1435
	Hardware And Warranty Support (Dell Precision, OptiPlex, and Latitude)	toll-free:0120-198-433
	Hardware And Warranty Support outside of Japan (Dell Precision, OptiPlex, and Latitude)	81-44-556-3894
	Hardware And Warranty Support (PDAs, projectors, printers, routers)	toll-free: 0120-981-690
	Hardware And Warranty Support outside of Japan (PDAs, projectors, printers, routers)	81-44-556-3468
	Faxbox Service	044-556-3490
	24-Hour Automated Order Service	044-556-3801
	Customer Care	044-556-4240
	Business Sales Division (up to 400 employees)	044-556-1465
	Preferred Accounts Division Sales (over 400 employees)	044-556-3433
	Large Corporate Accounts Sales (over 3500 employees)	044-556-3430
	Public Sales (government agencies, educational institutions, and medical institutions)	044-556-1469
	Global Segment Japan	044-556-3469
	Individual User	044-556-1760
	Switchboard	044-556-4300



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Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Korea (Seoul)	E-mail: krsupport@dell.com	
International Access Code:	Support	toll-free: 080-200-3800
001 Country Code: 82 City Code: 2	Support (Dimension, PDA, Electronics and Accessories)	toll-free: 080-200-3801
City Code. 2	Sales	toll-free: 080-200-3600
	Fax	2194-6202
	Switchboard	2194-6000
Latin America	Customer Hardware and Warranty Support (Austin, Texas, U.S.A.)	512 728-4093
	Customer Service (Austin, Texas, U.S.A.)	512 728-3619
	Fax (Hardware and Warranty Support and Customer Service) (Austin, Texas, U.S.A.)	512 728-3883
	Sales (Austin, Texas, U.S.A.)	512 728-4397
	SalesFax (Austin, Texas, U.S.A.)	512 728-4600 or 512 728-3772
Luxembourg	Website: support.euro.dell.com	
International Access Code:	Support	342 08 08 075
00 Country Code: 352	Home/Small Business Sales	+32 (0)2 713 15 96
Country Code: 552	Corporate Sales	26 25 77 81
	Customer Care	+32 (0)2 481 91 19
	Fax	26 25 77 82
Macao	Hardware and Warranty Support	toll-free: 0800 105
Country Code: 853	Customer Service (Xiamen, China)	34 160 910
	Transaction Sales (Xiamen, China)	29 693 115



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers	
Malaysia (Penang)	Website: support.ap.dell.com		
International Access Code: 00 Country Code: 60 City Code: 4	Hardware And Warranty Support (Dell Precision, OptiPlex, and Latitude)	toll-free: 1 800 880 193	
	Hardware And Warranty Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1 800 881 306	
	Hardware And Warranty Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 881 386	
	Customer Care	toll-free: 1800 881 306 (option 6)	
	Transaction Sales	toll-free: 1 800 888 202	
	Corporate Sales	toll-free: 1 800 888 213	
Mexico International Access Code:	Customer Hardware And Warranty Support	001-877-384-8979 or 001-877-269-3383	
00 Country Code: 52	Sales	50-81-8800 or 01-800-888-3355	
	Customer Service	001-877-384-8979 or 001-877-269-3383	
	Main	50-81-8800 or 01-800-888-3355	
Montserrat	General Support	toll-free: 1-866-278-6822	
Netherlands Antilles	General Support	001-800-882-1519	



Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-Mail Address	Area Codes, Local Numbers, and Toll-Free Numbers
Netherlands (Amsterdam)	Website: support.euro.dell.com	
International Access Code: 00 Country Code: 31 City Code: 20	Hardware and Warranty Support for XPS portable computers only	020 674 45 94
	Hardware and Warranty Support for all other Dell computers	020 674 45 00
	Hardware and Warranty Support Fax	020 674 47 66
	Home/Small Business Customer Care	020 674 42 00
	Relational Customer Care	020 674 4325
	Home/Small Business Sales	020 674 55 00
	Relational Sales	020 674 50 00
	Home/Small Business Sales Fax	020 674 47 75
	Relational Sales Fax	020 674 47 50
	Switchboard	020 674 50 00
	Switchboard Fax	020 674 47 50
New Zealand	Website: support.ap.dell.com	
International Access Code: 00	E-mail: support.ap.dell.com/contactus	
Country Code: 64	General Support	0800 441 567
Nicaragua	General Support	001-800-220-1006
Norway (Lysaker)	Website: support.euro.dell.com	
International Access Code: 00	Hardware and Warranty Support for XPS portable computers only	815 35 043
Country Code: 47	Hardware and Warranty Support for all other Dell products	671 16882
	Relational Customer Care	671 17575
	Home/Small Business Customer Care	23162298
	Switchboard	671 16800
	Fax Switchboard	671 16865
Panama	General Support	001-800-507-0962
Peru	General Support	0800-50-669



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Poland (Warsaw)	Website: support.euro.dell.com		
International Access Code: 011 Country Code: 48 City Code: 22	E-mail: pl_support_tech@dell.com		
	Customer Service Phone	57 95 700	
	Customer Care	57 95 999	
	Sales	57 95 999	
	Customer Service Fax	57 95 806	
	Reception Desk Fax	57 95 998	
	Switchboard	57 95 999	
Portugal	Website: support.euro.dell.com		
International Access Code:	Hardware and Warranty Support	707200149	
00	Customer Care	800 300 413	
Country Code: 351	Sales	800 300 410 or	
		800 300 411 or	
		800 300 412 or	
		21 422 07 10	
	Fax	21 424 01 12	
Puerto Rico	General Support	1-800-805-7545	
St. Kitts and Nevis	General Support	toll-free: 1-877-441-4731	
St. Lucia	General Support	1-800-882-1521	
St. Vincent and the Grenadines	General Support	toll-free: 1-877-270-4609	
Singapore (Singapore)	Website: support.ap.dell.com		
International Access Code: 005 Country Code: 65	Hardware and Warranty Support (Dimension, Inspiron, and Electronics and Accessories)	toll-free: 1800 394 7430	
	Hardware and Warranty Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 394 7488	
	Hardware and Warranty Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 394 7478	
	Customer Care	toll-free: 1 800 394 7430 (option 6)	
	Transaction Sales	toll-free: 1 800 394 7412	
	Corporate Sales	toll-free: 1 800 394 7419	



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Slovakia (Prague)	Website: support.euro.dell.com		
International Access Code:	E-mail: czech_dell@dell.com		
00 Country Code: 421	Hardware and Warranty Support	02 5441 5727	
Country Code. 121	Customer Care	420 22537 2707	
	Fax	02 5441 8328	
	Tech Fax	02 5441 8328	
	Switchboard (Sales)	02 5441 7585	
South Africa	Website: support.euro.dell.com		
(Johannesburg)	E-mail: dell_za_support@dell.com		
International Access Code: 09/091	Gold Queue	011 709 7713	
Country Code: 27	Hardware and Warranty Support	011 709 7710	
City Code: 11	Customer Care	011 709 7707	
	Sales	011 709 7700	
	Fax	011 706 0495	
	Switchboard	011 709 7700	
Southeast Asian and Pacific Countries	Hardware and Warranty Support, Customer Service, and Sales (Penang, Malaysia)	604 633 4810	
Spain (Madrid)	Website: support.euro.dell.com		
International Access Code:	Home and Small Business		
00 Country Code: 34	Hardware and Warranty Support	902 100 130	
City Code: 91	Customer Care	902 118 540	
· /	Sales	902 118 541	
	Switchboard	902 118 541	
	Fax	902 118 539	
	Corporate		
	Hardware and Warranty Support	902 100 130	
	Customer Care	902 115 236	
	Switchboard	91 722 92 00	
	Fax	91 722 95 83	



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Sweden (Upplands Vasby)	Website: support.euro.dell.com		
International Access Code: 00 Country Code: 46 City Code: 8	Hardware and Warranty Support for XPS portable computers only	0771 340 340	
	Hardware and Warranty Support for all other Dell products	08 590 05 199	
	Relational Customer Care	08 590 05 642	
	Home/Small Business Customer Care	08 587 70 527	
	Employee Purchase Program (EPP) Support	20 140 14 44	
	Hardware and Warranty Support Fax	08 590 05 594	
	Sales	08 590 05 185	
Switzerland (Geneva)	Website: support.euro.dell.com		
International Access Code: 00 Country Code: 41 City Code: 22	E-mail: Tech_support_central_Europe@dell .com		
	Hardware and Warranty Support for XPS portable computers only	0848 33 88 57	
	Hardware and Warranty Support (Home and Small Business) for all other Dell products	0844 811 411	
	Hardware and Warranty Support (Corporate)	0844 822 844	
	Customer Care (Home and Small Business)	0848 802 202	
	Customer Care (Corporate)	0848 821 721	
	Fax	022 799 01 90	
	Switchboard	022 799 01 01	



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Taiwan	Website: support.ap.dell.com		
International Access Code:	E-mail: ap_support@dell.com		
002 Country Code: 886	Hardware and Warranty Support (OptiPlex, Latitude, Inspiron, Dimension, and Electronics and Accessories)	toll-free: 00801 86 1011	
	Hardware and Warranty Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 00801 60 1256	
	Customer Care	toll-free: 00801 60 1250 (option 5)	
	Transaction Sales	toll-free: 00801 65 1228	
	Corporate Sales	toll-free: 00801 651 227	
Thailand	Website: support.ap.dell.com		
International Access Code: 001 Country Code: 66	Hardware and Warranty Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 0060 07	
	Hardware and Warranty Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 0600 09	
	Customer Care	toll-free: 1800 006 007 (option 7)	
	Corporate Sales	toll-free: 1800 006 009	
	Transaction Sales	toll-free: 1800 006 006	
Trinidad/Tobago	General Support	1-800-805-8035	
Turks and Caicos Islands	General Support	toll-free: 1-866-540-3355	



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U.K. (Bracknell)	Website: support.euro.dell.com	
International Access Code: 00	Customer Care website: support.euro.dell.com/uk/en/ECare/	Form/Home.asp
Country Code: 44 City Code: 1344	E-mail: dell_direct_support@dell.com	
	Hardware and Warranty Support (Corporate/Preferred Accounts/PAD [1000+ employees])	0870 908 0500
	Hardware and Warranty Support for XPS portable computers only	0870 366 4180
	Hardware and Warranty Support (direct and general) for all other products	0870 908 0800
	Global Accounts Customer Care	01344 373 186
	Home and Small Business Customer Care	0870 906 0010
	Corporate Customer Care	01344 373 185
	Preferred Accounts (500–5000 employees) Customer Care	0870 906 0010
	Central Government Customer Care	01344 373 193
	Local Government & Education Customer Care	01344 373 199
	Health Customer Care	01344 373 194
	Home and Small Business Sales	0870 907 4000
	Corporate/Public Sector Sales	01344 860 456
	Home and Small Business Fax	0870 907 4006
Uruguay	General Support	toll-free: 000-413-598- 2521



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de.	U.S.A. (Austin, Texas)	Automated Order-Status Service	toll-free: 1-800-433-9014
oport	International Access Code: 011 Country Code: 1	AutoTech (portable and desktop computers)	toll-free: 1-800-247-9362
u ns		Hardware and Warranty Support (Dell TV, Printers, and Projectors) for Relationship customers	toll-free 1-877-459-7298
www.dell.com support.dell.com		Consumer (Home and Home Office) Support for all other Dell products	toll-free: 1-800-624-9896
		Customer Service	toll-free: 1-800-624-9897
\$		Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
		Financial Services website: www.dellfinancialservices.com	
		Financial Services (lease/loans)	toll-free: 1-877-577-3355
		Financial Services (Dell Preferred Accounts [DPA])	toll-free: 1-800-283-2210
		Business	
		Customer Service and Support	toll-free: 1-800-456-3355
		Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
		Printers and Projectors Support	toll-free: 1-877-459-7298
		Public (government, education, and	healthcare)
		Customer Service and Support	toll-free: 1-800-456-3355
		Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
		Dell Sales	toll-free: 1-800-289-3355 or toll-free: 1-800-879- 3355
		Dell Outlet Store (Dell refurbished computers)	toll-free: 1-888-798-7561
		Software and Peripherals Sales	toll-free: 1-800-671-3355
		Spare Parts Sales	toll-free: 1-800-357-3355
		Extended Service and Warranty Sales	toll-free: 1-800-247-4618
		Fax	toll-free: 1-800-727-8320
		Dell Services for the Deaf, Hard-of- Hearing, or Speech-Impaired	toll-free: 1-877-DELLTTY (1-877-335-5889)
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Website and E-Mail Address	Local Numbers, and Toll-Free Numbers
General Support	1-877-673-3355
General Support	8001-3605
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Glossary

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ANSI Lumens—A standard for measuring light output, used for comparing projectors.

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.

Backlit (Backlight)—Refers to a remote control, or a projector control panel, that has buttons and controls that are illuminated.

Bandwidth—The number of cycles per second (Hertz) expressing the difference between the lower and upper limiting frequencies of a frequency band; also, the width of a band of frequencies.

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—A method of measuring the whiteness of a light source. Metal halide lamps have a higher temperature compared to halogen or incandescent lights.

Component Video—A method of delivering quality video in a format that contains all the components of the original image. These components are referred to as luma and chroma and are defined as Y'Pb'Pr' for analog component and Y'Cb'Cr' for digital component. Component video is available on DVD players and projectors.

Composite Video—The combined picture signal, including vertical and horizontal blanking and synchronizing signals.

Compression—A function that deletes resolution lines from the image to fit in the display area.

Compressed SVGA—To project an 800x600 image to a VGA projector, the original 800x600 signal must be compressed down. The data displays all the information with only two thirds of the pixels (307,000 vs 480,000). The resulting image is SVGA page size but sacrifices some of the image quality. If you are using an SVGA computers, connecting VGA to a VGA projector provide better results.

Compressed SXGA—Found on XGA projectors, compressed SXGA handling allows these projectors to handle up to 1280x1024 SXGA resolution.

Compressed XGA—Found on SVGA projectors, compressed XGA handling allows these projectors to handle 1024x768 XGA resolution.

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

DVI—Digital Visual Interface — Defines the digital interface between digital devices such as projectors and personal computers. For devices that support DVI, a digital to digital connection can be made that eliminates the conversion to analog and thereby delivers an unblemished image.

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.

Hz—Frequency of an alternating signal. See 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.

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Discount⁵⁸ M^{Glossary} chant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES **Laser Pointer**—A small pen or cigar-sized pointer, that contains a small battery powered laser, which can project a small, red (typically), high intensity beam of light that is immediately very visible on the screen.

Maximum Distance—The distance from a screen the projector can be to cast an image that is useable (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.

Metal Halide Lamp—The type of lamp used in many medium and all high end portable projectors. These lamps typically have a "half-life" of 1000-2000 hours. That is they slowly lose intensity (brightness) as they are used, and at the "half-life" point, they are half as bright as when new. These lamps output a very "hot" temperature light, similar to mercury vapor lamps used in street lights. Their whites are extremely white (with a slight bluish cast) and make a halogen lamp's whites look very yellowish by comparison.

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

NTSC—The United States broadcast standard for video and broadcasting.

PAL—A European and international broadcast standard for video and broadcasting. Higher resolution than NTSC.

Power Zoom—A zoom lens with the zoom in and out controlled by a motor, usually adjusted from the projector's control panel and also the remote control.

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. Higher resolution than NTSC.

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

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

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

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Discount-Merchant.com (8000) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES **VGA**—Video Graphics Array — 640 x 480 pixels count.

XGA—Extra Video 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 projector 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.





Index

A

Adjusting Projection Image Size, 28 Adjusting the Projected Image, 12 Adjusting the Projector Height, 12 lower the projector Elevator button, 12 Elevator foot, 12 Tilt adjustment wheel, 12 Adjusting the Projector Zoom and Focus, 14

Focus ring, 14 Zoom tab, 14

C

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Changing the Lamp, 28

Connecting the Projector Commercial RS232 control box, 10 Composite video cable, 9 Connecting with component cable, 8 Connecting with composite cable, 9 Connection with Commercial RS232 control box, 10 Connection with PC, 10 D-sub to D-sub cable, 8

D-sub to HDTV/Component cable, 8 Installation for wired RS232 remote control, 10 Power cord, 8-10 Professional Installation Options, 9 RS232 cable, 10 S-video cable, 9 To Computer, 8 USB to USB cable, 8 **Connection Ports** Audio input connector, 7 Composite video connector, 7 IR Receiver, 7 RS232 connector, 7 S-video connector, 7 USB connector, 7 VGA in (D-sub) connector, 7 VGA Out (monitor

Control Panel, 16

loop-through), 7

D

Dell contacting, 35

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Μ

Main Unit, 6 Control panel, 6 Elevator button, 6 Focus ring, 6 Lens, 6 Zoom tab, 6

0

On-Screen Display, 18 All Images, 19 Degamma, 21 White Intensity, 21 Audio, 21 Computer Image, 20 Frequency, 20 Tracking, 20 Language, 24 Management, 22 Video Image, 21

Ρ

Powering On/Off the Projector Powering Off the Projector, 11 Powering On the Projector, 11

R

Remote Control, 6, 17 RS232 Pin Assignment RS232 Protocol, 31 Communication Settings, 31 Control Command Syntax, 31 Control Commands List, 32

S

Specifications Audio, 30 Brightness, 29 Color Wheel Speed, 29 Compatibility Modes, 33 Contrast Ratio, 29 Dimensions, 30 Displayable Color, 29 Environmental, 30 H. Frequency, 29 I/O Connectors, 30 Lamp, 29 Light Valve, 29 Noise Level, 30 Number of Pixels, 29 Power Consumption, 29 Power Supply, 29 Projection Distance, 29 Projection Lens, 29 Projection Screen Size, 29 Regulatory, 30 RS232 Pin Assignment, 31 Uniformity, 29 V. Frequency, 29 Video Compatibility, 29 Weight, 30 support

contacting Dell, 35

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Т

Troubleshooting, 25 contact Dell, 25 remote control, 27





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FixYourDLP's Fight Against Counterfeit Lamps: http://www.fixyourdlp.com/counterfeits

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Lamp Research - The trusted 3rd party lamp research company: http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor: http://www.discount-merchant.com