# **Acer Projector**

# K335/L320/LK-W20 Series User's Guide

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Acer Projector K335/L320/LK-W20 Series User's Guide Original Issue: 02/2013

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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your projector. All correspondence concerning your unit should include the serial number, model number and purchase information.

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Acer Projector K335/L320/LK-W20 Series

Model number:	

serial number:	
	_

Date of purchase: \_\_\_\_\_

Place of purchase: \_\_\_\_\_

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# Information for your safety and comfort

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

#### Turning the product off before cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

#### Caution for plug as disconnecting device

Observe the following guidelines when connecting and disconnecting power to the external power supply unit:

- Install the power supply unit before connecting the power cord to the AC power outlet.
- Unplug the power cord before removing the power supply unit from the projector.
- If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

#### Caution for Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power to the equipment, be sure to unplug the power cord from the electrical outlet.



- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface.

This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

 Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.

- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage rotor devices.

#### Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's AC adapter is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the AC adapter plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.



Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.



Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

 Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, VDE approved or its equivalent, 4.5 meters (15 feet) maximum length.

#### Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions



Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.



Warning! For safety reasons, do not use non-compliant parts when adding or changing components. Consult your reseller for purchase options.

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

#### Additional safety information

- Do not look into the projector's lens when the light is on. The bright may hurt your eyes.
- Turn on the projector first and then signal sources
- Do not place the product in following environments:
  - Space that is poorly ventilated or confined. At least 50cm clearance from walls and free flow of air around the projector is necessary.
  - Locations where temperatures may become excessively high, such as inside of a car with all windows rolled up.
  - Locations where excessive humidity, dust, or cigarette smoke may contaminate
    optical components, shortening the life span and darkening the image.
  - Locations near fire alarms.
  - Locations with an ambient temperature above 40 °C/104 °F.
  - Locations where the altitudes are higher than 10000 feet.
- Unplug immediately if there is something wrong with your projector. Do
  not operate if smoke, strange noise or odor comes out of your projector. It

might cause fire or electric shock. In this case, unplug immediately and contact your dealer.

- Do not keep using this product to break or drop it. In this case contact your dealer for inspection.
- Do not face the projector lens to the sun. It can lead to fire.
- When switching the projector off, suggest to ensure the projector completes its cooling cycle before disconnecting power.
- Do not frequently turn off the main power abruptly or unplug the projector during operation. The best way is to wait for the fan to turn off before turning main power off.
- Do not touch air outlet grille and bottom plate which becomes hot.
- Clean the air filter frequently if have. The temperature inside may rise and cause damage when the filter/ventilation slots clogged with dirt or dust.
- Do not look into the air outlet grille when projector is operating. It may hurt your eyes.
- Always open the lens shutter or remove the lens cap when the projector is on.
- Do not block the projector lens with any object when the projector is under operation as this could cause the object to become heated and deformed or even cause a fire.
- Do not attempt to disassemble this projector. There are dangerous high voltages inside which may hurt you. Refer servicing only to suitable qualified professional service personnel.
- Do not stand the projector on end vertically. It may cause the projector to fall over, causing injury or damage.

#### **Caution for Listening**

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

#### **Disposal instructions**

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit

http://www.acer-group.com/public/Sustainability/sustainability01.htm



# First things first

# Usage Notes

Do:

viii

- . Turn off the product before cleaning.
- Use a soft cloth moistened with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not being used . for a long period of time.

Don't:

- Block the slots and openings on the unit provided for ventilation. .
- Use abrasive cleaners, waxes or solvents to clean the unit.
- . Use under the following conditions:
  - . In extremely hot, cold or humid environments.
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance that generates a strong magnetic field. ٠
  - . Place In direct sunlight.

### Precautions

Follow all warnings, precautions and maintenance as recommended in this user's guide to maximize the life of your unit.



- Warning:
- . Do not look into the projector's lens when the light is on. The bright may hurt your eyes.
- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- Please do not open or disassemble the product as this may cause electric shock.
- When switching the projector off, please ensure the projector completes its cooling cycle before disconnecting power.
- Turn on the projector first and then the signal sources.
- . Do not use lens cap when projector is in operation.

Information for your safety and comfort	iii
First things first	viii
Usage Notes	viii
Precautions	viii
Introduction	1
Product Features	1
Package Overview	2
Projector Overview	3
Projector Outlook	3
Control Panel	4
Remote Control Layout	5
MHL (Mobile High-Definition Link) Control	7
Getting Started	9
Connecting the Projector	9
Turning the Projector On/Off	10
Turning on the Projector	10
Turning the projector off	11
Adjusting the Projected Image	12
Adjusting the Height of Projected Image	12
How to optimize image size and distance	13
User Controls	15
Installation menu	15
Onscreen Display (OSD) Menus	16
Color	17
Image	19
Setting	21
Management	21
Audio	22
3D	22
Language	23
Appendices	24
Troubleshooting	24

Contents

LED & Alarm Definition Listing	28
Ceiling Mount Installation	29
Specifications	32
Compatibility modes	34
Regulations and safety notices	38

1

# Introduction

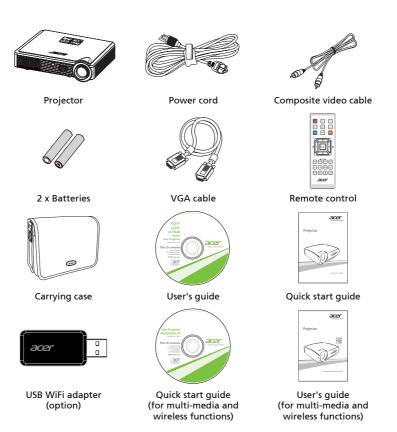
# **Product Features**

This product is a single-chip DLP<sup>®</sup> projector. Outstanding features include:

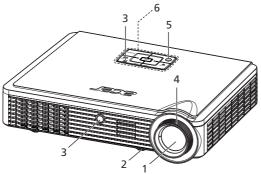
- DLP<sup>®</sup> technology
- 1280 x 800 WXGA resolution Auto, Full, 4:3, 16:9, L.Box aspect ratio supported.
- Versatile display modes (Bright, Standard, Movie, Dark Cinema, Game, Sports, User) enable optimum performance in any situation.
- NTSC/PAL/SECAM compatible and HDTV (480i/p, 576i/p, 720p, 1080i/p) supported.
- Compact size projector facilitates business purposes and home entertainment.
- Acer EcoProjeciton Technology delivers Intelligent power management approach and physical efficiency improvement.
- Equipped with HDMI<sup>™</sup> connection supporting HDCP.
- Advanced digital keystone correction delivers optimum presentations.
- Multi-language on screen display (OSD) menus.
- Environmental light source and longer life by LED solution.
- Enjoy media playback via USB, RAM and SD card reader.
- Microsoft<sup>®</sup> Windows<sup>®</sup> 2000, XP, Vista<sup>®</sup> Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, Macintosh<sup>®</sup> OS compliant.
- Support MHL V1.2 signal display.

### **Package Overview**

This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if any thing is missing.

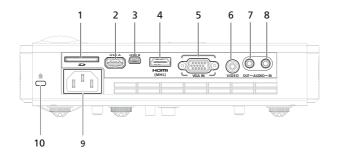


# **Projector Outlook** Front / upper side



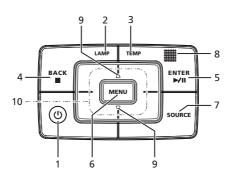
#	Description		Description
1	Zoom Lens		Focus ring
2	Tilt adjusting wheel		Power button
3	Remote control receivers		Control panel

#### Rear side



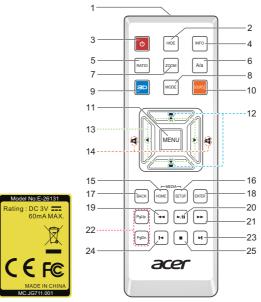
#	Description		Description
1	SD Card reader	6	Composite video input connector
2	USB A connector (for multimedia)	7	Audio output connector
3	Mini USB	8	Audio input connector
4	HDMI connector	9	Power socket
5	PC analog signal/HDTV/component video input connector	10	Kensington™ lock port

4



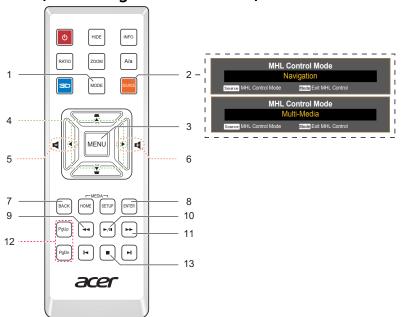
#	lcon	Function	Description	
1	ወ	POWER	Power button and Power Indicator LED. See the contents in <b>"Turning the Projector</b> <b>On/Off</b> " section.	
2		LAMP	Lamp Indicator LED.	
3		TEMP	Temp Indicator LED.	
4	ВАСК	Back/Stop	Stop playing media file or go back to upper data folder.	
5	ENTER ▶∕II	Enter/ Play/Pause	Confirm your selection of items or play/ pause media file.	
6		MENU	<ul> <li>Press "MENU" to launch the Onscreen display (OSD) menu, back to the previous step for the OSD menu operation or exit the OSD menu.</li> </ul>	
7		SOURCE	Changes the active source.	
8		Remote control receiver	Receives signals from remote control.	
9	∆ ▽	Keystone	Adjusts the image to compensate for distortion caused by tilting the projector (± 40 degrees).	
10	- <mark> </mark> -	Four directional select keys	Use the keys to select items or make adjustments to your selection.	

### **Remote Control Layout**



#	lcon	Function	Description	
1		Infrared transmitter	Sends signals to the projector.	
2		HIDE	Momentarily turns off the video. Press <b>"HIDE"</b> to hide the image, press again to display the image.	
3	٥	POWER	Refer to the "Turning the Projector On/Off" section.	
4		INFO	To display the projector information.	
5		RATIO	To choose the desired aspect ratio (Auto, 4:3, 16:9, L.Box).	
6		A/a	Press "A/a" to select subtitle.	
7		ZOOM	Zooms the projector display in or out.	
8		MODE	Press "MODE" to select display mode.	
9	зр	3D	Press " <b>3D</b> " to select 3D models.	
10		SOURCE	Changes the active source.	
11		MENU	<ul> <li>Press "MENU" to launch the Onscreen display (OSD) menu, back to the previous step for the OSD menu operation or exit the OSD menu.</li> <li>Confirm your selection of items.</li> </ul>	
12	D D	KEYSTONE	Adjusts the image to compensate for distortion caused by tilting the projector ( $\pm$ 40 degrees).	

#	lcon	Function	Description	
13	¢	Four directional select keys	Use up, down, left, right buttons to select items or make adjustments to your selection.	
14		VOLUME	Decreases / Increases the volume.	
15		HOME	Press to return to the Home page of Media mode.	
16		SETUP	Press to enter media OSD setting.	
17		ВАСК	Press to go back to the previous screen.	
18		ENTER	Press to play media file or confirm the setting.	
19	-	Rewind	Press to rewind the media file.	
20	►/II	Play/Pause	Toggles between playback and pause.	
21		Fast forward	Press to fast forward the media file.	
22		PgUp/PgDn	For computer mode only. Use this button to select the next or previous page. This function is only available when USB Ctrl connector(USB type B) is connected to a computer via a USB cable.	
23		Next	Press to the next media file.	
24		Previous	Press to previous the media file.	
25		Stop	Discontinues playback.	



# MHL (Mobile High-Definition Link) Control

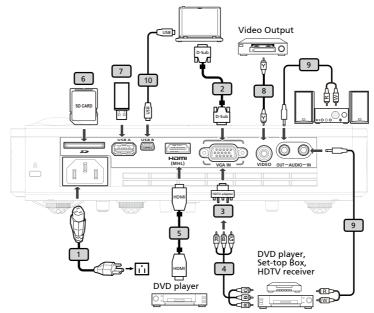
#	lcon	Component	Description	
1	MODE	MODE	<ul> <li>Press "MODE" button for one second to activate th MHL Control Mode.</li> </ul>	
			<ul> <li>To exit, press the "MODE" button again.</li> </ul>	
2	SOURCE	SOURCE	Press the "SOURCE" button to toggle between <b>Navigation</b> or <b>Multi-Media</b> mode.	
3	MENU	MENU	Press to launch the root menu. (only for <b>Navigation</b> mode)	
4	$\mathbf{\Phi}$	Direction Keys	Use up, down, left, right buttons to select items or make adjustments to your selection. (only for <b>Navigation</b> mode)	
5	4 •	Volume Down	Decreases the volume. (only for <b>Multi-Media</b> mode)	
6	▶ ₽	Volume Up	Increases the volume. (only for <b>Multi-Media</b> mode)	
7	BACK	Exit	To exit the file. (only for <b>Navigation</b> mode)	
8	ENTER	Enter	To enter the file. (only for <b>Navigation</b> mode)	
9		Backward	Scans backward during the file playback. (only for <b>Multi-</b> <b>Media</b> mode)	
10	►/II	Play/Pause	Toggles between playback and pause. (only for <b>Multi-</b> <b>Media</b> mode)	
11	••	Forward	Scans forward through the file playback. (only for <b>Multi-Media</b> mode)	

7

#	lcon	Component	Description
12	PgUp PgDn		Use the button to select the next or previous page. (only for <b>Navigation</b> mode)
13		Stop	Discontinues playback. (only for <b>Multi-Media</b> mode)

# **Getting Started**

# Connecting the Projector



#	Description		Description
1	Power cord	6	SD card
2	VGA cable	7 <sup>(*)</sup>	USB disk/stick USB WiFi adapter
3	VGA to component/HDTV adapter	8	Composite video cable
4	3 RCA component cable	9	Audio cable Jack/RCA
5	HDMI cable	10	USB cable



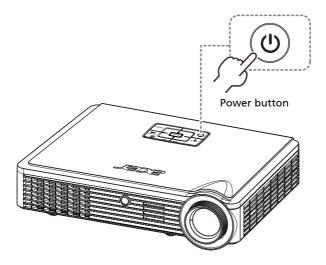
**Note:** To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with the projector.

Note: USB cable needs powered extender if the length is over 5 m.

# Turning the Projector On/Off

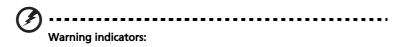
### Turning on the Projector

- 1 Ensure that the power cord and signal cable are securely connected. The Power indicator LED will flash red.
- 2 Turn on the projector by pressing "**Power**" button on the control panel, and the Power indicator LED will turn blue.(Illustration #2)
- 3 Turn on your source (computer, notebook, video player ,etc.). The projector will detect your source automatically.
  - If the screen displays "No Signal", please make sure the signal cables are securely connected.
  - If you connect to multiple sources at the same time, use the "Source" button on either control panel or the remote control or direct source key on the remote control to switch between inputs.



#### Turning the projector off

- To turn the projector off, press the power button. This message appears:
   "Please press the power button again to complete the shutdown process."
   Press the power button again.
- 2 The LED power indicator will turn RED and blink rapidly after the projector is turned off, and the fan(s) will continue to operate for about 30 sec to ensure that the system cools properly.
- 3 Once the system has finished cooling, the LED power indicator will stop blinking and turn solid red to indicate standby mode.
- 4 It is now safe to unplug the power cord.



- **"Projector Overheated. Will automatically turn off soon."** This onscreen message indicates that the projector has overheated. The projector will automatically shut down. Contact your local dealer or service center.
- "Fan failed. Will automatically turn off soon." This onscreen message indicates that the fan has failed. The projector will automatically shut down. Contact your local dealer or service center.



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**Note:** Whenever the projector automatically shuts down, contact your local reseller or service center.

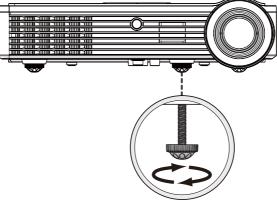
# Adjusting the Projected Image

### Adjusting the Height of Projected Image

The projector is equipped with tilt adjusting wheel for adjusting the height of image.

To raise/lower the image:

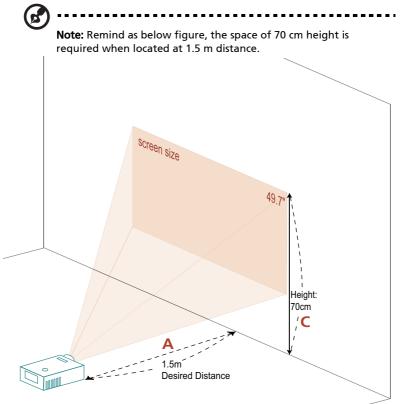
1 Use Tilt adjusting wheel to fine-tune the display angle.



Tilt adjusting wheel

#### How to optimize image size and distance

Consult the table below to find the optimal image sizes achievable when the projector is positioned at a desired distance from the screen. Example: If the projector is 1.5 m from the screen, good image quality is possible for image sizes 49.7".



	Screen size		Тор	
Desired	(Min zoom)			
Distance (m) <a></a>	Diagonal (inch) <b></b>	W (cm) x H (cm)	From base to top of image (cm) <c></c>	
0.91	30.0	64 x 40	42	
1.00	33.2	71 x 45	47	
1.25	41.5	89 x 56	59	
1.50	49.7	107 x 67	70	
2.00	66.3	143 x 89	94	
2.41	80.0	172 x 108	113	

Zoom Ratio: 1.0x

# **User Controls**

# Installation menu

The installation menu provides an onscreen display (OSD) for projector installation and maintenance. Use the OSD only when the message "No signal input" is displayed on the screen.

The menu options include settings and adjustments for screen size and distance, focus, keystone correction and more .

- 1 Turn on the projector by pressing "**Power**" button on the control pad.
- 2 Press the "**MENU**" button on the control pad to launch the OSD for projector installation and maintenance.

<u> </u>	acer
	Installation Projection Mode
	Projection Location R022 C
	Manual Kaystone 0 Language d English
	Reset Press >



- 3 The background pattern acts as a guide to adjusting the calibration and alignment settings, such as screen size and distance, focus and more .
- 4 The Installation menu includes the following options:
  - Projection Mode
  - Projection Location
  - •Auto Keystone settings
  - •Manual Keystone settings
  - Language settings
  - •Reset to factory default function

Use the up and down arrow keys to select an option, the left and right arrow keys to adjust selected option settings, and the right arrow key to enter a submenu for feature setting. The new settings will be saved automatically upon exiting the menu.

5 Push the menu button anytime to exit the menu and return to the Acer welcome screen.

# **Onscreen Display (OSD) Menus**

The projector has multilingual OSD that allow you to make image adjustments and change a variety of settings.

#### Using the OSD menus

- To open the OSD menu, press "MENU" on the remote control.
- When the OSD is displayed, use the  $(\blacktriangle)(\blacktriangledown)$  keys to select any item in the

main menu. After selecting the desired main menu item, press  $\bigcirc$  to enter submenu for feature setting.

- Use the () keys to select the desired item and adjust the settings by using the () keys.
- Select the next item to be adjusted in the submenu and adjust as described above.
- Press **"MENU"** on the remote control, the screen will return to the main menu.
- To exit OSD, press **"MENU"** on the remote control again. The OSD menu will close and the projector will automatically save the new settings.



# Color



Display Mode       There are many factory presets optimized for various types of images.         •       Bright: For brightness optimization.         •       Standard: For common environment.         •       Movie: For brighter and general movie/video/photo playing.         •       Dark Cinema: For dark movie content.         •       Game: For game content.         •       Sports: For sport picture.         •       User: Memorize user's settings.         Wall color       Use this function to choose a proper color according to the wall.         There are several choices, including white, light yellow, light blue, pink, dark green. It will compensate the color deviation due to the wall color to show the correct image tone.         Brightness       Adjust the brightness of the image.         •       Press () to darken image.         •       Press () to lighten the image.         •       Press () to lighten the image.         •       Press () to decrease the contrast changes the amount of black and white in the image.         •       Press () to decrease the contrast.         •       Press () to increase the contrast.	
Standard: For common environment.         • Standard: For common environment.         • Movie: For brighter and general movie/video/photo playing.         • Dark Cinema: For dark movie content.         • Game: For game content.         • Sports: For sport picture.         • User: Memorize user's settings.         Wall color         Use this function to choose a proper color according to the wall.         There are several choices, including white, light yellow, light blue, pink, dark green. It will compensate the color deviation due to the wall color to show the correct image tone.         Brightness       Adjust the brightness of the image.         • Press () to darken image.       • Press () to lighten the image.         Contrast       "Contrast" controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.         • Press () to decrease the contrast.       • Press () to increase the contrast.	Display Mode
<ul> <li>Movie: For brighter and general movie/video/photo playing.</li> <li>Dark Cinema: For dark movie content.</li> <li>Game: For game content.</li> <li>Sports: For sport picture.</li> <li>User: Memorize user's settings.</li> </ul> Wall color Use this function to choose a proper color according to the wall. There are several choices, including white, light yellow, light blue, pink, dark green. It will compensate the color deviation due to the wall color to show the correct image tone. Brightness Adjust the brightness of the image. <ul> <li>Press ( to darken image.</li> <li>Press ( to darken image.</li> <li>Contrast</li> <li>"Contrast" controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image. <ul> <li>Press ( to decrease the contrast.</li> <li>Press ( to increase the contrast.</li> </ul></li></ul>	
<ul> <li>Dark Cinema: For dark movie content.</li> <li>Game: For game content.</li> <li>Game: For sport picture.</li> <li>User: Memorize user's settings.</li> <li>Wall color</li> <li>Use this function to choose a proper color according to the wall. There are several choices, including white, light yellow, light blue, pink, dark green. It will compensate the color deviation due to the wall color to show the correct image tone.</li> <li>Brightness</li> <li>Adjust the brightness of the image.</li> <li>Press ( to darken image.</li> <li>Press ( to lighten the image.</li> <li>Contrast</li> <li>"Contrast" controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.</li> <li>Press ( to decrease the contrast.</li> <li>Press ( to increase the contrast.</li> </ul>	
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Wall color       Use this function to choose a proper color according to the wall. There are several choices, including white, light yellow, light blue, pink, dark green. It will compensate the color deviation due to the wall color to show the correct image tone.         Brightness       Adjust the brightness of the image.         •       Press ( to darken image.         •       Press ( to darken image.         •       Press ( to lighten the image.         •       Press ( to lighten the image.         •       Press ( to darken image.         •       Press ( to decrease the contrast changes the amount of black and white in the image.         •       Press ( to decrease the contrast.         •       Press ( to increase the contrast.	
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<ul> <li>Press b to lighten the image.</li> <li>Contrast</li> <li>"Contrast" controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.</li> <li>Press </li> <li>to decrease the contrast.</li> <li>Press b to increase the contrast.</li> </ul>	Brightness
Contrast       "Contrast" controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.         • Press       to decrease the contrast.         • Press       to increase the contrast.	
<ul> <li>darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.</li> <li>Press  <ul> <li>Press</li> <li>to decrease the contrast.</li> </ul> </li> <li>Press  <ul> <li>b to increase the contrast.</li> </ul> </li> </ul>	
• Press 🕟 to increase the contrast.	Contrast
$\smile$	
Saturation Adjusts a video image from black and white to fully saturated color.	Saturation
• Press $\textcircled{4}$ to decrease the amount of color in the image.	
• Press ( ) to increase the amount of color in the image.	
Tint Adjusts the color balance of red and green.	Tint
• Press ( to increase the amount of green in the image.	
• Press $\triangleright$ to increase the amount of red in the image.	
Color Use this function to choose CT1, CT2, CT3, User mode.	Color
Temperature	Temperature

Dynamic Black	Choose "On" to automatically optimize the display of dark movie scenes enabling them to be shown in incredible detail.
Gamma	Effects the representation of dark scenery. With greater gamma value, dark scenery looks brighter.
Advanced	Brilliant Color
Advanced Contast Color On	Produces an expanded on-screen color spectrum that delivers enhanced color saturation for bright, true-to-life images. This feature is "On" by default.
▲▼ Einlect 49 Adjust (1997) Main Menu	White Peaking Increases the brightness of whites that are near 100%. (video sources only)
	Noise Reduction Adjusts signal noise reduction."0" means the noise reduction is off, ">0" increase noise reduction.
	Black Extension Analyzes the current input image and calculates an offset value which is then added to the analog to digital converter black level value. This ensures optimum black level for each analog source.



**Note:** "Saturation" and "Tint" functions are not supported under computer mode or HDMI mode.

# Image



Projection mode	Front: The factory default setting.	
٦	<ul> <li>Rear: Reverses the image so you can project from behind a translucent screen.</li> </ul>	
Projection Location		
AUTO	<ul> <li>Auto: Automatically adjusts projection location of image.</li> </ul>	
	• Desktop	
	<ul> <li>Ceiling: Turns the image upside down for ceiling-mounted projection.</li> </ul>	
Aspect Ratio	Use this function to choose your desired aspect ratio.	
4:3 16:9	<ul> <li>Auto: Keep the image with original width-higth ratio and maxi</li> </ul>	
	<ul> <li>mize the image to fit native horizontal or vertical pixels.</li> <li>4:3: The image will be scaled to fit the screen and displayed using a 4:3 ratio.</li> </ul>	
	• 16:9: The image will be scaled to fit the width of the screen and	
	the height adjusted to display the image using a 16:9 ratio.	
	<ul> <li>Full: Resize image to fit full screen by width (1280 pixels) and height (800 pixels).</li> </ul>	
	<ul> <li>L.Box: Keep original signal aspect ratio and zoom in by 1.333 times.</li> </ul>	
Auto Keystone	Automatically adjusts vertical image.	
Maunal Keystone	Adjust image distortion caused by tilting projection. (±40 degrees)	
	Allow > Allow < Allow	
	<note> The Manual Keystone function is unavailable under Auto Keystone setting to "On".</note>	
Sharpeness	Adjusts the sharpness of the image.	
	• Press ( to decrease the sharpness.	
	<ul> <li>Press b to increase the sharpness.</li> </ul>	

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H. Position (Horizontal	• Press ( to move the image left.			
position)	• Press 🕟 to move the image right.			
V. Position (Vertical position)	• Press ( to move the image down.			
(· - · · · · · · · · · · · · · · · · · ·	• Press <b>b</b> to move the image up.			
Frequency	"Frequency" changes the projector's refresh rate to match the frequency of your computer's graphics card. If you can see a vertical flickering bar in the projected image, use this function to make the necessary adjustments.			
Tracking	Synchronizes the signal timing of the projector with the graphics card. If you experience an unstable or flickering image, use this function to correct it.			
HDMI Color Range	Adjust the color range of the HDMI image data to correct color display error.			
	• Auto: Automatically adjust by information from player.			
	• Limited Range: Prosess the input image as limited color range data.			
	• Full Range: Prosess the input image as full color range data.			
HDMI Scan Info	Adjust the overscan ratio of the HDMI image on screen.			
	Auto: Automatically adjust by information from player.			
	<ul> <li>Underscan: Always no overscan on HDMI image.</li> </ul>			
	<ul> <li>Overscan: Always keep overscan on HDMI image.</li> </ul>			



Note: "H. Position", "V. Position", "Frequency" and "Tracking" functions are not supported under HDMI, DVI or Video mode.

are not supported under HDMI, DVI or Video mode. **Note:** "Sharpness" functions is not supported under HDMI (RGB) or Computer mode.

Note: "HDMI Color Range" and "HDMI Scan Info" functions are only supported under HDMI mode.

# Setting



Closed Caption	Selects a preferred closed captioning mode from CC1, CC2, CC3, CC4, (CC1 displays captions in the primary language in your area). Select "Off" to turn off the captioning feature. This function is only available when a composite video or S-Video input signal is selected and its system format is NTSC. <b><note></note></b> Set your screen aspect ratio to 4:3. This function is not available when the aspect ratio is "16:9" or "Auto".
Reset	Press the <b>b</b> button and choose "Yes" to return the parameters on all menus to the factory default settings.

# Management

acer 🌮	- Managemen			
-	ECO Mode			
124	High Altitude			
1	Turn Off Mode		Instant Off	
\$	Auto Shutdown			
**	LED Calibration			
) D				
30				
ABC				
	Select	Adjust	MERU Main	Menu

ECO Mode	Choose "On" to dim the projector lamp which will lower power consumption, extend the lamp life and reduce noise. Choose "Off" to return normal mode.	
High Altitude	Choose "On" to turn on High Altitude mode. Operate the fans at full speed continuously to allow for proper high altitude cooling of the projector.	
Turn Off Mode	<ul> <li>Instant Off: Shuts down the projector without fan cooling.</li> <li>Instant Resume: Resumes the system when the Power button is pressed again within 2 minutes.</li> </ul>	
Auto Shutdown	The projector will automatically shutdown when there is no signal input after the allocated time. (default is 120 minutes)	
LED Calibration	Press <b>b</b> after choosing "Yes", please wait for 10 seconds to finish the white color fine tune process. It helps to adjust LED color performance.	

English

# Audio



Volume	•	Press ( to decrease the volume.
	•	Press 🕟 to increase the volume.
Mute	•	Choose "On" to mute the volume.
	•	Choose "Off" to restore the volume.
Power On/Off Volume	•	Select this function to adjust the notification volume when turning the projector on/off.
Alarm Volume	•	Select this function to adjust the volume of any warning notifications.

# 3D



3D	Choose "On" to enable DLP 3D function.		
	<ul> <li>On: Choose this item while using DLP 3D glasses, quad buffer (NVIDIA/ATI) graphic card and HQFS format file or DVD with corresponding SW player.</li> <li>Off: Turn off 3D mode.</li> </ul>		
3D Sync Invert	If you see a discrete or overlapping image while wearing DLP 3D glasses, you may need to execute "Invert" to get best match of left/right image sequence to get the correct image (for DLP 3D).		

3D Warning Message	Choose "On" to display the 3D warning message.	
	Note: 3D display is now enabled. 1. Please make sure you have the correct 3D signals and glasses. 2. Remember to turn 3D off if you don't want to see 3D imrages. 3. If the 3D display isn't correct, please try to enable 3D Sync Irvert. 4. Display mode options will be disabled while in 3D mode.	



Note: It needs correct settings on graphic card 3D application program for

correct 3D display. **Note:** The SW players, such as Stereoscopic Player and DDD TriDef Media Player can support 3D format files. You can download these three players on web page below,

- Stereoscopic Player (Trial): http://www.3dtv.at/Downloads/Index\_en.aspx

- DDD TriDef Media Player (Trial):

http://www.tridef.com/download/TriDef-3-D-Experience-4.0.2.html Note: "3D Sync Invert" is only available when 3D is enabled.

**Note:** There has reminder screen if 3D still enable when power on projector. Please adjust setting depended on your purpose.

### Language

acer			
<b>PP</b>	Language		
10	English	Svenska	
<b>PP</b>	Čeština	Türkçe	
	Dansk	Русский	
₽	Deutsch		
	Español	中文 (繋)	
ó internet a construction de la construcción de la	Français	中文 (简)	
	Italiano	日本語	
	Magyar	한국어	
	Nederlands	Tiếng Việt	
-30	Polski		
	Português		
ABC			
	▲▼ Select	Enter	MENU EXE

<ul> <li>Choose the multilingual OSD menu. Use the  or  key to select your preferred menu language.</li> <li>Press  to confirm the selection.</li> </ul>

# Appendices

# Troubleshooting

If you experience a problem with your Acer projector, refer to the following troubleshooting guide. If the problem persists, please contact your local reseller or service center.

Image Problems and Solutions	

#	Problem	Solution
1	No image appears onscreen	<ul> <li>Connected as described in the "Getting Started" section.</li> <li>Ensure none of the connector pins are bent or broken.</li> <li>Make sure you have removed the lens cap and the projector is switched on.</li> </ul>
2	Partial, scrolling or incorrectly displayed image (For PC (Windows 95/98/2000/XP/ Vista/Win7))	<ul> <li>Press "RESYNC" on the remote control.</li> <li>For an incorrectly displayed image: <ul> <li>Open "My Computer," open the "Control Panel," and then double-click the "Display" icon.</li> <li>Select the "Settings" tab.</li> <li>Verify that your display resolution setting is lower than or equal to 1080P-EIA.</li> <li>Click the "Advanced Properties" button.</li> </ul> </li> <li>If the problem still appears, change the monitor display you are using and follow the steps below: <ul> <li>Verify that the resolution setting is lower than or equal to 1080P-EIA.</li> </ul> </li> <li>Click the "Change" button under the "Monitor" tab.</li> <li>Click "Show all devices". Next, select "Standard monitor types" under the SP box, and choose the resolution mode you need under the "Models" box.</li> <li>Verify that the resolution setting of the monitor display is lower than or equal to 1080P-EIA.</li> </ul>

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3	Partial, scrolling or incorrectly displayed image (for notebooks)	<ul> <li>Press "RESYNC" on the remote control.</li> <li>For an incorrectly displayed image:         <ul> <li>Follow the steps for item 2 (above) to adjust the resolution of your computer.</li> <li>Press the toggle output settings. Example: [Fn]+[F4], Compaq [Fn]+[F4], Dell [Fn]+[F8], Gateway [Fn]+[F4], IBM [Fn]+[F7], HP [Fn]+[F4], NEC [Fn]+[F3], Toshiba [Fn]+[F5]</li> <li>If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.</li> </ul> </li> </ul>
4	The screen of the notebook computer is not displaying your presentation	<ul> <li>If you are using a Microsoft<sup>®</sup> Windows<sup>®</sup> based notebook: Some notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer's manual for detailed information.</li> <li>If you are using an Apple<sup>®</sup> Mac<sup>®</sup> OS based notebook: In System Preferences, open Display and select Video Mirroring "On".</li> </ul>
5	Image is unstable or flickering	<ul> <li>Adjust the "Tracking" to correct it. Refer to the "Image" section for more information.</li> <li>Change the display color depth settings on your computer.</li> </ul>
6	Image has vertical flickering bar	<ul> <li>Use "Frequency" to make an adjustment. Refer to the "Image" section for more information.</li> <li>Check and reconfigure the display mode of your graphics card to make it compatible with the projector.</li> </ul>
7	Image is out of focus	<ul> <li>Make sure the lens cap is removed.</li> <li>Adjusts the focus ring on the projector lens.</li> <li>Make sure the projection screen is within the required distance of 2.99-7.87 feet (0.91-2.40 meters) from the projector. Refer to the "How to Get a Preferred Image Size by Adjusting Distance and Zoom" section for more information.</li> </ul>
8	Image is stretched when displaying a "widescreen" DVD title	<ul> <li>When you play a DVD encoded in anamorphic or 16:9 aspect ratio you may need to adjust the following settings:</li> <li>If you play a 4:3 format DVD title, please change the format to 4:3 in the projector OSD.</li> <li>If the image is still stretched, you will also need to adjust the aspect ratio. Set up the display format to 16:9 (wide) aspect ratio on your DVD player.</li> <li>If you play an Letterbox(LBX) format DVD title, please change the format to Letterbox(LBX) in the projector OSD.</li> </ul>

9	Image is too small or too large	<ul> <li>Adjust the zoom ring on the top of the projector.</li> <li>Move the projector closer to or further from the screen.</li> <li>Press "MENU" on the remote control or on the control panel. Go to "Image&gt; Aspect Ratio" and try different settings.</li> </ul>
10	Image has slanted sides	<ul> <li>If possible, reposition the projector so that it is centered on the screen.</li> <li>Press the "Keystone △ / □ " on the OSD or the remote control until the sides are vertical.</li> </ul>
11	Image is reversed	<ul> <li>Select "Image&gt; Projection" on the OSD and adjust the projection direction.</li> </ul>

#### Problems with the Projector

#	Condition	Solution
1	The projector stops responding to all controls	If possible, turn off the projector, then unplug the power cord and wait at least 30 seconds before reconnecting power.

#### OSD Messages

#	Condition	Message Reminder	
1	Message	Fan Fail - the system fan is not working.	
		Fan Fail. Lamp will automatically turn off soon.	
		Projector Overheated - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it may be used.	
		Projector Overheated. Lamp will automatically turn off soon.	

# LED & Alarm Definition Listing

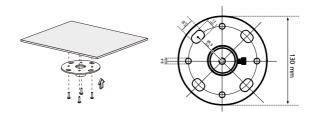
### LED Messages

Message	Lamp_LED	Temp_LED	Power_LED	Power_LED
Message	Red	Red	Red	Blue
Input Power Plug	Flash ON to OFF 100ms	Flash ON to OFF 100ms	Flash ON to OFF 100ms	
Standby			ON	
Power button ON				ON
Lamp retry				Quick Flashing
Power off (Cooling state)			Quick Flashing	
Power button OFF: Cooling completed; Standby Mode			ON	
Error (Thermal Failure)		ON		ON
Error (Fan lock)		Quick Flashing		ON
Error (Lamp breakdown)	ON			ON

## **Ceiling Mount Installation**

If you wish to install the projector using a ceiling mount, please refer to the steps below:

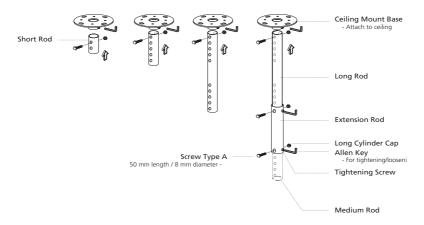
1 Drill four holes into a solid, structurally sound part of the ceiling, and secure the mount base.



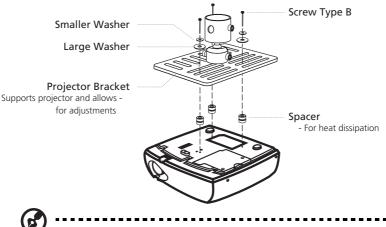


**Note:** Screws are not included. Please obtain the appropriate screws for your type of ceiling.

2 Secure the ceiling rod using the appropriate type of four-cylinder screws.

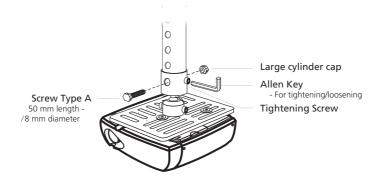


3 Use the appropriate number of screws for the projector size to attach the projector to the ceiling mount bracket.

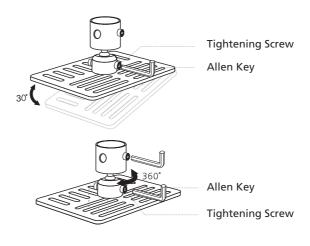


**Note:** It is recommended that you keep a reasonable space between the bracket and the projector to allow for proper heat distribution. Use two washers for extra support, if deemed necessary.

4 Attach the ceiling bracket to the ceiling rod.



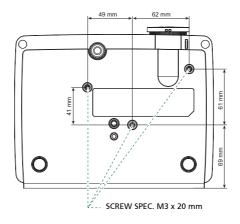
5 Adjust the angle and positioning as necessary.





**Note:** The appropriate type of screw and washer for each model is listed in the table below. 3 mm diameter screws are enclosed in the screw pack.

Models	Screw Type B		Washer Type	
	Diameter (mm) Length (mm)		Large	Small
K335/L320/LK-W20	3	20	V	V



# Specifications

The specifications listed below are subject to change without notice. For final specs, please refer to Acer's published marketing specifications.

Projection system	DLP <sup>®</sup>		
Resolution	WXGA (1280 x 800)		
Computer compatibility	IBM PC and compatibles, Apple Macintosh, iMac and VESA standards: SXGA, XGA, SVGA, VGA, WXGA		
Video compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/ K/K1/L), HDTV (720p, 1080i, 1080p), EDTV (480p, 576p), SDTV (480i, 576i)		
Aspect ratio	Auto, Full, 4:3, 16:9, L.Box		
Displayable colors	1.07 billion colors		
Projection lens	F# 1.5, f = 13.92 mm		
Projection screen size (diagonal)	30" (0.76 m) - 80"(2.03 m)		
Projection distance	2.99' (0.91 m) - 7.87' (2.40 m)		
Throw ratio	1.4		
Horizontal scan rate	30 k - 100 kHz		
Vertical refresh scan rate	50 - 120 Hz		
Keystone correction	+/- 40 degrees		
Audio	Internal speaker with 3 W x 1 output		
Weight	2.0 kg (4.41 lbs)		
Dimensions (W x D x H)	231.98 mm x 165.77 mm x 46.3 mm (9.13" x 6.53" x 1.82")		
Power supply	AC 100 – 240 V, 50-60 Hz		
Power consumption	Normal mode: 135 W +/- 10% @ 110 Vac ECO mode: 110 W +/-10% @ 110 Vac Standby < 0.5 W		
Operating temperature	5 °C to 40 °C / 41 °F to 104 °F		
I/O connectors	<ul> <li>Power socket x1</li> <li>SD x1</li> <li>USB A x1: for multimedia</li> <li>Mini USB B x 1: for DoUSB</li> <li>HDMI (MHL) x1</li> <li>VGA input x1</li> <li>Composite input x1</li> <li>Audio input x1</li> <li>Audio output x 1</li> </ul>		

Standard package contents	• • • •	AC power cord x1 VGA cable x1 Composite video x1 Remote control x1 Battery x 2 (for remote control) User's guide (CD-ROM) x1 (for projector function) User's guide (CD-ROM) x1 (for multi-media and wireless functions)
	•	Quick start guide x1 (for projector function)
	•	Quick start guide x1 (for multi-media and wireless functions)
	•	Carrying case x1

\* Design and specifications are subject to change without notice.

# Compatibility modes

#### A. VGA Analog

1 VGA Analog - PC Signal

VGA         640x480         60         31.5           640x480         72         37.9           640x480         75         37.5           640x480         85         43.3           640x480         120         61.9           SVGA         800x600         56         35.1           800x600         60         37.9           800x600         60         37.9           800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         120         99.0           SXGA         1152x864         75         67.5           1152x864         75         67.5         5           1152x864         75         67.5         5           1152x864         75         60.0         64.0           1280x1024         72         77.0         5           1280x1024         75	Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
640x480         75         37.5           640x480         85         43.3           640x480         120         61.9           SVGA         800x600         56         35.1           800x600         60         37.9           800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         75         60.0           1024x768         75         60.0           1024x768         75         60.0           1024x768         75         60.0           1024x768         75         67.5           1024x768         75         67.5           1152x864         75         67.5           1152x864         75         67.5           1152x864         85         77.1           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         75         75.2           SXGA+         1400x1050	VGA	640x480		
640x480         85         43.3           640x480         120         61.9           SVGA         800x600         56         35.1           800x600         60         37.9           800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         75         60.0           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2         5XGA+           1400x1050         60         65.3 <t< td=""><td></td><td>640x480</td><td>72</td><td>37.9</td></t<>		640x480	72	37.9
640x480         120         61.9           SVGA         800x600         56         35.1           800x600         60         37.9           800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         75         60.0           1024x768         85         68.7           1024x768         102         99.0           SXGA         1152x864         75         67.5           1152x864         75         67.5         67.5           1152x864         85         77.1         1280x1024         72         77.0           1280x1024         72         77.0         75.2         80.0         60         60.0           1280x960         75         75.2         5XGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4         90         90		640x480	75	37.5
SVGA         800x600         56         35.1           800x600         60         37.9           800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         85         68.7           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4		640x480	85	43.3
800x600         60         37.9           800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         75         60.0           1024x768         75         60.0           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2         5XGA+           1400x1050		640x480	120	61.9
800x600         72         48.1           800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         85         68.7           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x1024         75         85.3         31.4           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         60         31.4           PowerBook G4         1024x768         60         34.9           PowerBook G4         1024x768         60         31.4	SVGA	800x600	56	35.1
800x600         75         46.9           800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         85         68.7           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2         5XGA+           1400x1050         60         65.3         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60		800x600	60	37.9
800x600         85         53.7           800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         75         60.0           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x1024         75         75.2         5XGA           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60		800x600	72	48.1
800x600         120         77.4           XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         75         60.0           1024x768         85         68.7           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x1024         75         75.2         5XGA+           1400x1050         60         65.3         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60		800x600	75	46.9
XGA         1024x768         60         48.4           1024x768         70         56.5           1024x768         75         60.0           1024x768         75         60.7           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x1024         75         75.2         5XGA           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768<		800x600	85	53.7
1024x768         70         56.5           1024x768         75         60.0           1024x768         85         68.7           1024x768         85         68.7           1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x1024         75         75.2         5XGA           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7 <td< td=""><td></td><td>800x600</td><td>120</td><td>77.4</td></td<>		800x600	120	77.4
1024x7687560.01024x7688568.71024x76812099.0SXGA1152x8647063.81152x8647567.51152x8648577.11280x10246064.01280x10247277.01280x10247580.0QuadVGA1280x9606060.01280x9607575.2SXGA+1400x10506065.3PowerBook G4640x48066.6 (67)34.9PowerBook G41024x7686037.9PowerBook G41152x8707568.7PowerBook G41280x9607575.0	XGA	1024x768	60	48.4
1024x7688568.71024x76812099.0SXGA1152x8647063.81152x8647567.51152x8648577.11280x10246064.01280x10247277.01280x10247580.0QuadVGA1280x9606060.01280x9606065.3PowerBook G4640x4806031.4PowerBook G4640x48066.6 (67)34.9PowerBook G41024x7686048.4PowerBook G41152x8707568.7PowerBook G41280x9607575.0		1024x768	70	56.5
1024x768         120         99.0           SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1024x768	75	60.0
SXGA         1152x864         70         63.8           1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         37.9           PowerBook G4         1152x870         75         68.7           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1024x768	85	68.7
1152x864         75         67.5           1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2         53           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1024x768	120	99.0
1152x864         85         77.1           1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2         53           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0	SXGA	1152x864	70	63.8
1280x1024         60         64.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1152x864	75	67.5
1280x1024         72         77.0           1280x1024         72         77.0           1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2         53           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1152x864	85	77.1
1280x1024         75         80.0           QuadVGA         1280x960         60         60.0           1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1280x1024	60	64.0
QuadVGA         1280x960         60         60.0           1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1280x1024	72	77.0
1280x960         75         75.2           SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1280x1024	75	80.0
SXGA+         1400x1050         60         65.3           PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0	QuadVGA	1280x960	60	60.0
PowerBook G4         640x480         60         31.4           PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0		1280x960	75	75.2
PowerBook G4         640x480         66.6 (67)         34.9           PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0	SXGA+	1400x1050	60	65.3
PowerBook G4         800x600         60         37.9           PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0	PowerBook G4	640x480	60	31.4
PowerBook G4         1024x768         60         48.4           PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0	PowerBook G4	640x480	66.6 (67)	34.9
PowerBook G4         1152x870         75         68.7           PowerBook G4         1280x960         75         75.0	PowerBook G4	800x600	60	37.9
PowerBook G4 1280x960 75 75.0	PowerBook G4	1024x768	60	48.4
	PowerBook G4	1152x870	75	68.7
i Mac DV (G3) 1024x768 75 60.0	PowerBook G4	1280x960	75	75.0
	i Mac DV (G3)	1024x768	75	60.0

#### 2 VGA Analog - Extended Wide timing

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
WXGA	1280x768	60	47.8
	1280x768	75	60.3
	1280x768	85	68.6
	1280x720	60	44.8
	1280x800	60	49.6
	1440x900	60	59.9
WSXGA+	1680x1050	60	65.3
	1920x1080 (Reduced		
	Blanking Timing)	60	66.6
	1366x768	60	47.7

#### 3 VGA Analog - Component Signal

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
480i	720x480 (1440x480)	59.94(29.97)	15.7
576i	720x576 (1440x576)	50(25)	15.6
480p	720x480	59.94	31.5
576p	720x576	50	31.3
720p	1280x720	60	45.0
720p	1280x720	50	37.5
1080i	1920x1080	60 (30)	33.8
1080i	1920x1080	50 (25)	28.1
1080p	1920x1080	60	67.5
1080p	1920x1080	50	56.3

#### **B. HDMI Digital**

1 HDMI - PC Signal

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	640x480	120	61.9
SVGA	800x600	56	35.1
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9

	800x600	85	53.7
	800x600	120	77.4
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
	1024x768	120	99.0
SXGA	1152x864	70	63.8
	1152x864	75	67.5
	1152x864	85	77.1
	1280x1024	60	64.0
	1280x1024	72	77.0
	1280x1024	75	80.0
QuadVGA	1280x960	60	60.0
	1280x960	75	75.2
SXGA+	1400x1050	60	65.3
PowerBook G4	640x480	60	31.4
PowerBook G4	640x480	66.6 (67)	34.9
PowerBook G4	800x600	60	37.9
PowerBook G4	1024x768	60	48.4
PowerBook G4	1152x870	75	68.7
PowerBook G4	1280x960	75	75.0
i Mac DV (G3)	1024x768	75	60.0

#### 2 HDMI - Extended Wide timing

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
WXGA	1280x768	60	47.8
	1280x768	75	60.3
	1280x768	85	68.6
	1280x720	60	44.8
	1280x800	60	49.6
	1440x900	60	59.9
WSXGA+	1680x1050	60	65.3
	1920x1080		
	(Reduced Blanking	60	66.6
	Timing)		
	1366x768	60	47.7

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
480i	720x480(1440x480)	59.94 (29.97)	15.7
576i	720x576(1440x576)	50 (25)	15.6
480p	720x480	59.94	31.5
576p	720x576	50	31.3
720p	1280x720	60	45.0
720p	1280x720	50	37.5
1080i	1920x1080	60 (30)	33.8
1080i	1920x1080	50 (25)	28.1
1080p	1920x1080	60	67.5
1080p	1920x1080	50	56.3
Graphic source	Horizontal scan rate:	30k~100kHz	
monitor range			
limits	Vertical scan rate:	50~120Hz	
	Max. pixel rate	150MHz	

#### 3 HDMI - Video Signal

# **Regulations and safety notices**

#### FCC notice

38

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help. •

#### Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

#### Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

#### Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this device.

#### **Operation conditions**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference. and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

#### Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

### Declaration of Conformity for EU countries

Acer hereby declares that this projector series is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Compliant with Russian regulatory certification



Radio device regulatory notice



**Note**: The regulatory information below is for models with wireless LAN and/or Bluetooth only.

#### General

This product complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Depending on configurations, this product may or may not contain wireless radio devices (such as wireless LAN and/or Bluetooth modules).

# Canada — Low-power license-exempt radio communication devices (RSS-210)

- a Common information
  Operation is subject to the following two conditions:
  1. This device may not cause interference, and
  2. This device must accept any interference, including interference that may cause undesired operation of the device.
- b Operation in 2.4 GHz band To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

### List of applicable countries

This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact the local office in the country of use. Please see <a href="http://ec.europa.eu/enterprise/rtte/implem.htm">http://ec.europa.eu/enterprise/rtte/implem.htm</a> for the latest country list.

# CE



Acer Incorporated 8F, 88, Sec. 1, Xintai 5th Rd., Xizhi New Taipei City 221, Taiwan

#### **Declaration of Conformity**

We,

#### Acer Incorporated

8F, 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan Contact Person: Mr. RU Jan, e-mail:ru.jan@acer.com

And,

#### Acer Italy s.r.l

Via Lepetit, 40, 20020 Lainate (MI) Italy Tel: +39-02-939-921 ,Fax: +39-02 9399-2913 www.acer.it

Declare under our own responsibility that the product: Projector Trade Name: Model Number: K335/L320/LK-W20

To which this declaration refers conforms to the relevant standard or other standardizing documents:

- EN 55022:2006/A1:2007 Class B; EN 55024:2010
- EN 61000-3-2:2006+A1:2009+A2:2009 Class A; EN61000-3-3:2008
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011
- EN 50581:2012
- Regulation (EC) No. 1275/2008; EN 62301:2005

We hereby declare above product is in compliance with the essential requirements and other relevant provisions of EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC, RoHS Directive 2011/65/EU and Directive 2009/125/EC with regard to establishing a framework for the setting of ecodesign requirements for energy-related product.

Year to begin affixing CE marking 2013.

RU Jan / Sr. Manager Regulation, Acer Inc.

Mar. 25, 2013 Date



Acer America Corporation 333 West San Carlos St., Suite 1500 San Jose, CA 95110 U. S. A. Tel: 254-298-4147 Fax: 254-298-4147 www.acer.com



#### Federal Communications Commission Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following local Manufacturer / Importer is responsible for this declaration:

Product:	DLP Projector
Model Number:	CWX1139
Machine Type:	K335/L320/LK-W20
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St.
	Suite 1500
	San Jose, CA 95110
	U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
Fax No.:	254-298-4147