

Acer Projector

U5200/N210/PN-X10/U5300W/N220/
PN-W10 Series
User's Guide

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Acer Projector U5200/N210/PN-X10/U5300W/N220/PN-W10 Series User's Guide
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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 U5200/N210/PN-X10/U5300W/N220/PN-W10 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.



Warnings!

- 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, lamp.

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.



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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.



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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, 4.6 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



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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.



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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 lamp is on. The bright light may hurt your eyes.
- Turn on the projector first and then signal sources.
- Do not place the product in the following environments:
 - Space that is poorly ventilated or confined. At least 50cm clearance from walls and free flow of air around the projector are 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, shorten the life span and darken 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, please 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 stop before turning main power off.
- Do not touch the air outlet grille and bottom plate which become hot.
- Clean the air filter frequently. The temperature inside may rise and cause damage when the filter/ventilation slots are 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. To temporarily turn off the lamp, press HIDE on the remote control.
- The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.
- Do not operate lamps beyond the rated lamp life. It could cause it to break on rare occasions.
- Never replace the lamp assembly or any electronic components unless the projector is unplugged.
- The product will detect the life of the lamp itself. Please be sure to change the lamp when warning messages display.
- When changing the lamp, please allow the projector to cool down, and follow all changing instructions.
- Reset the "Lamp Hour Reset" function from the Onscreen Display "Management" menu after replacing the lamp module.
- Do not attempt to disassemble this projector. There are dangerous high voltages inside which may hurt you. The only user serviceable part is the lamp which has its own removable cover. 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.
- This product is capable of displaying inverted images for ceiling mount installation. Only use acer ceiling mount kit for mounting the projector and ensure it is securely installed.

Cleaning the mirror

Clean the mirror whenever you notice dirt or dust on the surface.

- Use a canister of compressed air to remove dust.
- If there is dirt or smears, use lens-cleaning paper or moisten a soft cloth with lens cleaner and gently wipe the mirror.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the projector surface and cabinet material.

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>



Mercury advisory

For projectors or electronic products containing an LCD/CRT monitor or display:



"Lamp(s) contain Mercury,
Dispose Properly."

Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or federal laws. For more information, contact the Electronic Industries Alliance at www.eiae.org. For lamp-specific disposal information, check www.lamprecycle.org

First Thing First

Usage Notes

Do:

- 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 projector 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.
 - 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 lamp is on. The bright light 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 changing the lamp, please allow the projector to cool down, and follow all changing instructions.
- This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Reset the "Lamp Hour Reset" function from the Onscreen Display "Management" menu after replacing the lamp module.
- 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.
- When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp".

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Introduction

Product Features

This product is a single-chip DLP® projector, including the following outstanding features:

- DLP® technology
- U5200/N210/PN-X10: Native 1024 x 768 XGA resolution
Auto / 4:3 / 16:9 aspect ratio supported
- U5300W/N220/PN-W10: Native 1280 x 800 WXGA resolution
Auto / Full / 4:3 / 16:9 / L.Box aspect ratio supported
- Acer ColorBoost technology delivers vivid, life-like images
- High brightness and contrast ratio
- Versatile display modes enable optimum performance in any situation
- NTSC/PAL/SECAM compatible and HDTV (720p, 1080i, 1080p) supported
- Lower power consumption and economy (ECO) mode extends lamp life
- Acer EcoProjection Technology delivers Intelligent power management approach and physical efficiency improvement
- Empowering Key reveals Acer Empowering Technology functions (Acer eView, eTimer, eOpening, ePower Management) for easy adjustment of settings
- Advanced keystone correction delivers optimum presentations
- Multi-language Onscreen Display (OSD) menus
- Full-function remote control
- 2X digital zoom and pan move function
- Microsoft® Windows® 2000, XP, 7, Vista® OS compliant
- LAN settings enable remote management of projectors via a web browser
- Ability to display 3D images
- Top-loading lamp design allows easy lamp replacement
- Ultra-short-throw feature is good for installation

Package Overview

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



Projector



Power cord



VGA cable



Composite video cable



Security card



User's guide (CD-ROM)



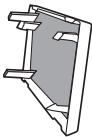
Remote control



Quick start guide



Battery x 2



Dust filter
(Optional)



Acer Projector Gateway (CD-ROM)

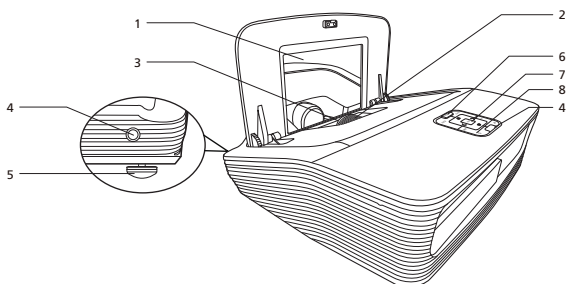


Acer Projector Gateway
quick start guide

Projector Overview

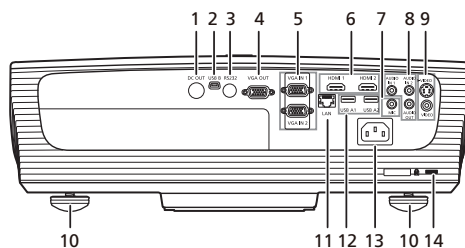
Projector Outlook

Front / upper side



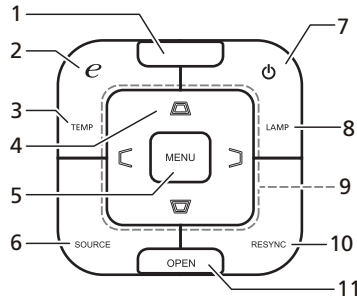
#	Description	#	Description
1	Mirror	5	Tilt adjusting wheel
2	Focus ring	6	Mirror door release button
3	Projection lens	7	Control panel
4	Remote control receiver	8	Power key and Power indicator LED

Rear side



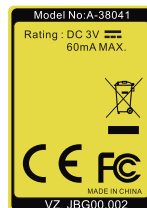
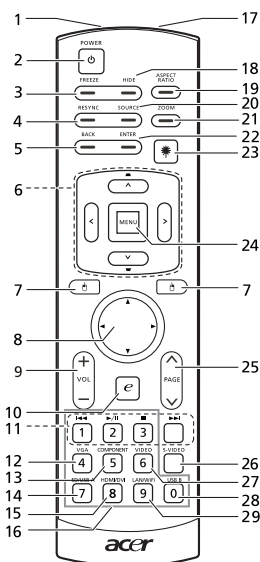
#	Description	#	Description
1	12V DC output connector	8	Audio input connector/ Audio output connector
2	USB connector (Type mini B)		
3	RS232 connector	9	S-Video input connector/ Composite video input connector
4	Monitor loop-through output connector	10	Tilt adjusting wheel
5	PC analog signal/HDTV/component video input connector (VGA IN 1/ VGA IN 2)	11	LAN (RJ45 port for 10/100M Ethernet)
6	HDMI connector	12	USB connector (Type A)
7	Microphone input connector	13	Power socket
		14	Kensington™ lock port

Control Panel




#	Function	Description
1	Remote control receiver	Receives the signal emitted from the remote control
2	Empowering key	Enables unique Acer functions: eView, eTimer, eOpening, ePower Management.
3	TEMP	Temp indicator LED
4	Keystone	Adjusts image distortion caused by tilting projection (± 15 degrees).
5	MENU	<ul style="list-style-type: none"> • Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu. • Confirms your selection of items.
6	SOURCE	Chooses RGB, component video, S-Video, composite video, HDMI™ or HDTV source.
7	Power key and Power indicator LED	Refer to the "Turning the Projector On/Off" section.
8	LAMP	Lamp indicator LED
9	Four directional select keys	Selects items or makes adjustments to your selection.
10	RESYNC	Automatically synchronizes the projector to the input source.
11	Mirror door release button	Press the button to release the mirror door.

Remote Control Layout

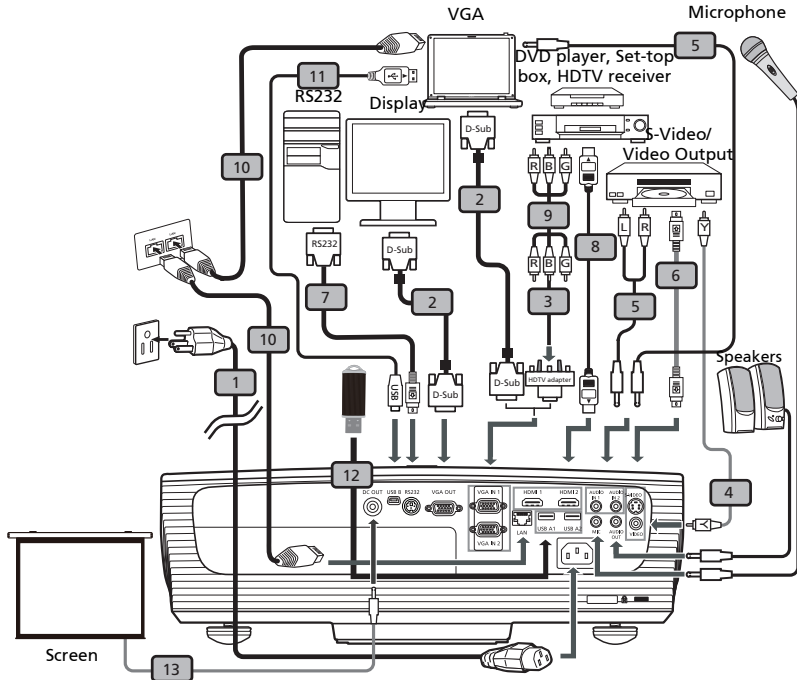


#	Function	Description
1	Infrared transmitter	Sends signals to the projector.
2	POWER	Refer to the "Turning the Projector On/Off" section.
3	FREEZE	To pause the screen image.
4	RESYNC	Automatically synchronizes the projector to the input source.
5	BACK	Goes back to the previous selection.
6	Keystone	Adjusts image distortion caused by tilting projection (± 15 degrees).
	Four directional select keys	Selects items or makes adjustments to your selection.
7	Mouse button	This function is not available with the projector.
8	Four directional select pad	Selects the media files in four directions.
9	VOL +/-	Increases/decreases the volume.
10	Empowering key	Enables unique Acer functions: eView, eTimer, eOpening, ePower Management.

#	Function	Description
11	<ul style="list-style-type: none"> ◀◀ Rewind ▶/⏸ Play/Pause ■ Stop ▶▶ Fast-forward 	Rewinds/Plays/Pauses/Stops/Fast-forwards the playing media files.
12	VGA	To change source to VGA. This connector supports analog RGB, YPbPr (480p/576p/720p/1080i/1080p), and YCbCr (480i/576i).
13	COMPONENT	To change source to Component video. This connector supports YPbPr.
14	SD/USB A	To change source to SD/USB A. This projector supports various formats for photo/audio/video files.
15	HDMI™/DVI	To change source to HDMI™/DVI (for the model with HDMI™/DVI connector).
16	Keypad 0~9	Press " 0~9 " to input a password in the "Setting > Security" OSD.
17	Laser pointer window	Shines the laser point light when the Laser button is pressed.
18	HIDE	Press " HIDE " to hide screen image; press again to display the image.
19	ASPECT RATIO	To choose the desired aspect ratio.
20	SOURCE	Chooses RGB, component video, S-Video, composite video, HDMI™, or HDTV source.
21	ZOOM	Zooms the projector display in or out.
22	ENTER	Confirms your selection of items.
23	 Laser	Emits visible laser pointer light for presentation purposes. This function is not available for the projectors sold in the Japanese market.
24	MENU	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
25	PAGE ^/v	For computer mode only. Use the button to select the next or previous page. This function is only available when connected to a computer via a USB cable.
26	S-VIDEO	To change source to S-Video.
27	VIDEO	To change source to Composite video.
28	USB B	To change source to USB B.
29	LAN/WiFi	To change source to LAN/WiFi. (for LAN/wireless compatible models)

Getting Started

Connecting the Projector



#	Description	#	Description
1	Power cord	8	HDMI cable
2	VGA cable	9	3 RCA component cable
3	VGA to component video/HDTV adapter	10	RJ45 cable
4	Composite video cable	11	USB cable
5	Audio cable	12*	USB storage device/USB Wifi adapter (Optional)
6	S-Video cable	13	12V DC cable
7	RS232 cable		




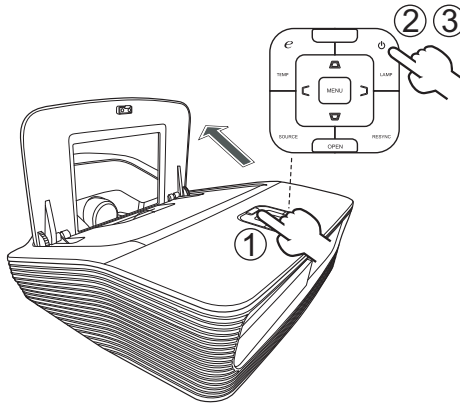
Note: To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with the projector.

Note: "*" USB drive limitation, do not support power.

Turning the Projector On/Off

Turning On the Projector

- 1 Press OPEN on the control panel to release the mirror door.
- 2 Ensure that the power cord and signal cable are securely connected. The Power LED will light red.
- 3 Turn on the projector by pressing  (POWER) on the control panel or remote control, and the Power indicator LED will turn blue.
- 4 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 "SOURCE" on the control panel or remote control, or the direct source key on the remote control to switch between inputs.



Note: When the mirror door is closed for over 5 seconds, the projector will shut down and cool down for 120 seconds, then enter to a standby mode.

Turning Off the Projector

- 1 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 2 minutes to ensure that the system cools properly.
- 3 As long as the power cord remains plugged in, you can press the power button to turn the projector immediately back on anytime during the 2-minute shutdown process.
- 4 Once the system has finished cooling, the LED power indicator will stop blinking and turn solid red to indicate standby mode.
- 5 It is now safe to unplug the power cord.



Warning indicators:

- **"Projector Overheated. Lamp will automatically turn off soon."**
 This onscreen message indicates that the projector has overheated. The lamp will automatically turn off, the projector will automatically shut down, and the LED temp indicator will turn solid red. Contact your local dealer or service center.
- **"Fan failed. Lamp will automatically turn off soon."**
 This onscreen message indicates that the fan has failed. The lamp will automatically turn off, the projector will automatically shut down, and the LED temp indicator will blink. Contact your local dealer or service center.



Note: Whenever the projector automatically shuts down and the LED lamp indicator turns solid red, contact your local reseller or service center.

Adjusting the Projected Image

Adjusting the Height of the Projected Image

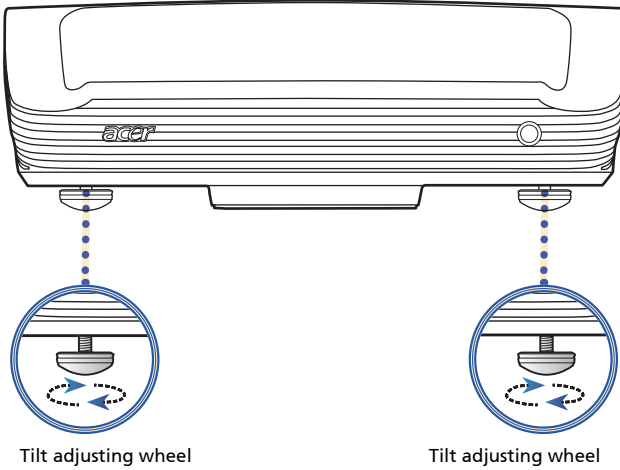
The projector is equipped with an elevator foot for adjusting the image height.

To raise the image:

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

To lower the image:

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



How to Optimize Image Size and Distance

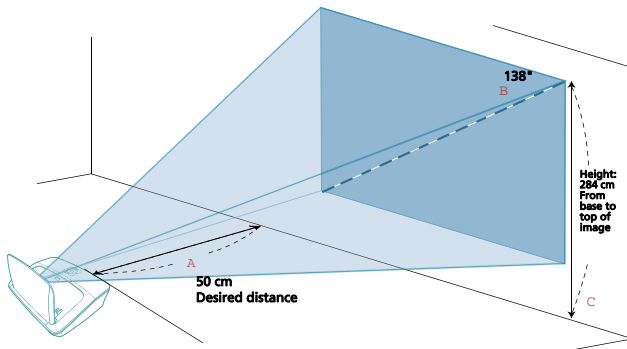
Consult the table below to find the optimal image sizes achievable when the projector is positioned at a desired distance from the screen.

- U5200/N210/PN-X10

If the projector is 50 cm from the screen, good image quality is possible for image sizes around 138".



Note: Remind as below figure, the space of 284 cm height is required when located at 50 cm distance.



Desired Distance (cm) < A >	Screen Size		
	Diagonal (inch) < B >	W (cm) x H (cm)	From base to top of image (cm) < C >
5	64	130 x 98	132
10	72	147 x 110	149
15	81	164 x 123	166
20	89	180 x 135	183
25	97	197 x 148	200
30	105	214 x 160	216
35	113	230 x 173	233
40	122	247 x 185	250
50	138	280 x 210	284
60	154	314 x 235	318
80	187	380 x 285	385
90	204	414 x 310	419

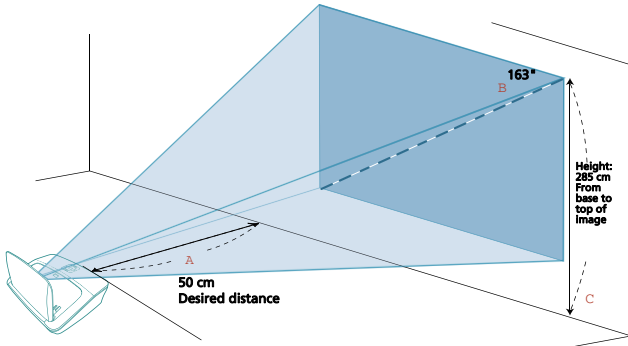
Zoom Ratio: 1.0 x

- U5300W/N220/PN-W10

If the projector is 50 cm from the screen, good image quality is possible for image sizes around 163".



Note: Remind as below figure, the space of 285 cm height is required when located at 50 cm distance.



Desired Distance (cm) < A >	Screen Size		
	Diagonal (inch) < B >	W (cm) x H (cm)	From base to top of image (cm) < C >
5	76	163 x 102	133
10	85	184 x 115	149
15	95	205 x 128	166
20	105	226 x 141	183
25	114	246 x 154	200
30	124	267 x 167	217
35	134	288 x 180	234
40	143	309 x 193	251
50	163	351 x 219	285
60	182	392 x 245	319
80	221	476 x 297	386
90	240	517 x 323	420

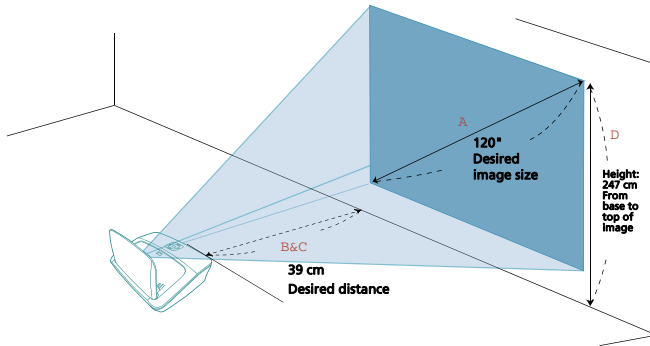
Zoom Ratio: 1.0 x

How to Get a Preferred Image Size by Adjusting Distance and Zoom

The table below shows how to achieve a desired image size by adjusting either the position or the zoom ring.

- U5200/N210/PN-X10

To obtain an image size of 120" set the projector at a distance 39 cm from the screen.

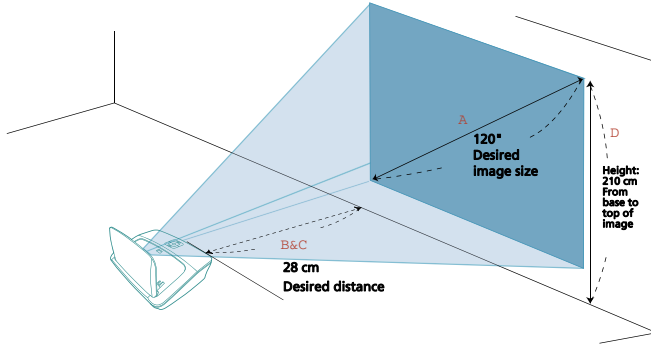


Desired Image Size		Distance (cm)		Top (cm)
Diagonal (inch) < A >	W (cm) x H (cm)	Max zoom < B >	Min zoom < C >	From base to top of image < D >
60	122 x 91	2.4	2.4	123
70	142 x 107	8.5	8.5	144
80	163 x 122	15	15	165
90	183 x 137	21	21	185
100	203 x 152	27	27	206
110	224 x 168	33	33	226
120	244 x 183	39	39	247
130	264 x 198	45	45	267
140	284 x 213	51	51	288
150	305 x 229	57	57	309
170	345 x 259	69	69	350
200	406 x 305	88	88	411

Zoom Ratio: 1.0 x

- U5300W/N220/PN-W10

To obtain an image size of 120" set the projector at a distance 28 cm from the screen.




Desired Image Size		Distance (cm)		Top (cm)
Diagonal (inch) < A >	W (cm) x H (cm)	Max zoom < B >	Min zoom < C >	From base to top of image < D >
70	151 x 94	2.0	2.0	123
80	172 x 108	7	7	140
90	194 x 121	12	12	158
100	215 x 135	18	18	175
110	237 x 148	23	23	193
120	258 x 162	28	28	210
130	280 x 175	33	33	228
140	302 x 188	38	38	245
150	323 x 202	43	43	263
160	345 x 215	49	49	280
180	388 x 242	59	59	315
200	431 x 269	69	69	350

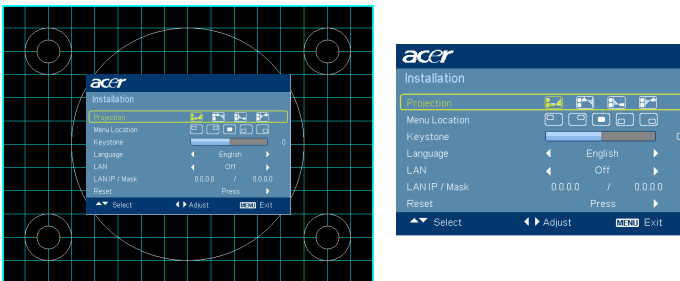
Zoom Ratio: 1.0 x

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.

- 1 Turn on the projector by pressing  (POWER) on the control panel or remote control.
- 2 Press "MENU" on the control panel or remote control to launch the OSD for projector installation and maintenance.

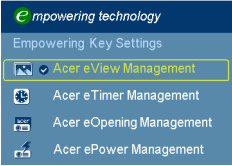
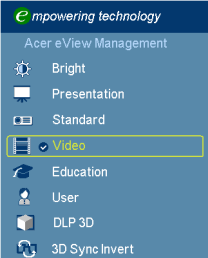

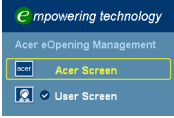
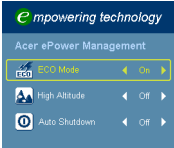


- 3 The background pattern acts as a guide to adjust the calibration and alignment settings, such as screen size and distance, focus and more.
- 4 The Installation menu includes the following options:
 - Projection method
 - Menu location
 - Keystone settings
 - Language settings
 - LAN settings
 - Reset to factory default functions

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 Press "MENU" anytime to exit the menu and return to the Acer welcome screen.








Acer Empowering Technology

<p>Empowering Key</p> 	<p>Acer Empowering Key provides three Acer unique functions: "Acer eView Management", "Acer eTimer Management", "Acer eOpening Management" and "Acer ePower Management". Press "Ⓜ" for more than one second to launch the Onscreen Display main menu to modify its function.</p>
<p>Acer eView Management</p> 	<p>Press "Ⓜ" to launch "Acer eView Management".</p> <p>"Acer eView Management" is for display mode selection. Please refer to the "Onscreen Display (OSD) Menus" section for more details.</p> <p>The 3D and 3D Sync Invert functions offer quick access of 3D functions here.</p>
<p>Acer eTimer Management</p> 	<p>Press "Ⓜ" to launch "Acer eTimer Management".</p> <p>"Acer eTimer Management" provides the reminding function for presentation time control. Please refer to the "Onscreen Display (OSD) Menus" section for more details.</p>
<p>Acer eOpening Management</p> 	<p>Press "Ⓜ" to launch "Acer eOpening Management".</p> <p>"Acer eOpening Management" allows users to change the Startup Screen to their personalized image. Please refer to the "Onscreen Display (OSD) Menus" section for more details.</p>
<p>Acer ePower Management</p> 	<p>Press "Ⓜ" to launch "Acer ePower Management".</p> <p>"Acer ePower Management" provides you one shortcut to save the lamp and projector's life. Please refer to the "Onscreen Display (OSD) Menus" section for more details.</p>

Onscreen Display (OSD) Menus

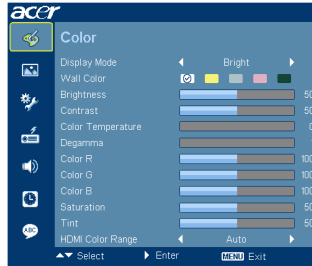
The projector has multilingual Onscreen Display (OSD) menus that allow you to make image adjustments and change a variety of settings.

Using the OSD menus

- To open the OSD menu, press "MENU" on the control panel or remote control.
- When the OSD is displayed, use   to select an item in the main menu. After selecting the desired main menu item, press  to enter a submenu for feature setting.
- Use   to select the desired item and adjust the settings by using  .
- Select the next item to be adjusted in the submenu and adjust as described above.
- Press "MENU" on the control panel or remote control, the screen will return to the main menu.
- To exit the OSD menu, press "MENU" on the control panel or remote control again. It will close and the projector will automatically save the new settings.



Color



Display Mode	<p>There are many factory presets optimized for various types of images.</p> <ul style="list-style-type: none"> • Bright: For brightness optimization. • Presentation: For meeting presentation with higher brightness. • Standard: For common environment. • Video: For playing video in a bright environment. • Education: For education environment. • User: Memorize user's settings.
Wall Color	<p>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.</p>
Brightness	<p>Adjusts the brightness of the image.</p> <ul style="list-style-type: none"> • Press ◀ to darken the image. • Press ▶ to lighten the image.
Contrast	<p>Controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.</p> <ul style="list-style-type: none"> • Press ◀ to decrease the contrast. • Press ▶ to increase the contrast.
Color Temperature	<p>Adjusts the color temperature. At higher color temperatures, the screen looks colder; at lower color temperatures, the screen looks warmer.</p>
Degamma	<p>Effects the representation of dark scenery. With greater gamma value, dark scenery will look brighter.</p>

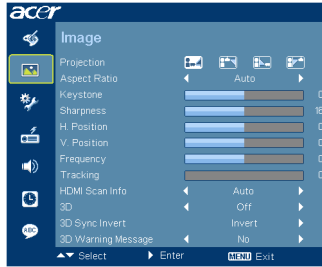
Color R	Adjusts the red color.
Color G	Adjusts the green color.
Color B	Adjusts the blue color.
Saturation	<p>Adjusts a video image from black and white to fully saturated colors.</p> <ul style="list-style-type: none"> • Press ◀ to decrease the amount of color in the image. • Press ▶ to increase the amount of color in the image.
Tint	<p>Adjusts the color balance of red and green.</p> <ul style="list-style-type: none"> • Press ◀ to increase the amount of green in the image. • Press ▶ to increase the amount of red in the image.
HDMI Color Range	<p>Adjusts the color range of the HDMI image data to prevent color display error.</p> <ul style="list-style-type: none"> • Auto: Automatically adjusts the color range by information from the player. • Limited Range: Processes the input image as limited color range data. • Full Range: Processes the input image as full color range data.








Note: "Saturation" and "Tint" functions are not supported under computer, or HDMI (PC) mode.

Note: "HDMI Color Range" is only available when the input signal is HDMI.

Image



<p>Projection</p>	<ul style="list-style-type: none"> •  Front-Desktop: The factory default setting. •  Front-Ceiling: When you select this function, the projector inverts the image for ceiling-mounted projection. •  Rear-Desktop: When you select this function, the projector reverses the image so that you can project behind a translucent screen. •  Rear-Ceiling: When you select this function, the projector reverses and inverts the image at same time. You can project from behind a translucent screen with ceiling mounted projection.
<p>Aspect Ratio</p>	<p>Use this function to choose your desired aspect ratio.</p> <ul style="list-style-type: none"> • Auto: Keeps the image with original width-height ratio and maximizes the image to fit native horizontal or vertical pixels. • 4:3: The image will be scaled to fit the screen and displayed using a 4:3 ratio. • 16:9: The image will be scaled to fit the screen and displayed using a 16:9 ratio. • Full (for U5300W/N220/PN-W10): The image will be displayed making full use of the horizontal and vertical pixels. • L.Box (for U5300W/N220/PN-W10): Keeps the original signal aspect ratio and zooms in by 1.333 times.
<p>Keystone</p>	<p>Manually adjusts image distortion caused by tilting projection (± 15 degrees).</p> 

Sharpness	<p>Adjusts the sharpness of the image.</p> <ul style="list-style-type: none"> • Press ◀ to decrease the sharpness. • Press ▶ to increase the sharpness.
H. Position (Horizontal Position)	<ul style="list-style-type: none"> • Press ◀ to move the image left. • Press ▶ to move the image right.
V. Position (Vertical Position)	<ul style="list-style-type: none"> • Press ◀ to move the image down. • Press ▶ to move the image up.
Frequency	<p>Changes the projector's refresh rate to match the frequency of your computer's graphics card. If you experience a vertical flickering bar in the projected image, use this function to correct it.</p>
Tracking	<p>Synchronizes the signal timing of the display with the graphics card. If you experience an unstable or flickering image, use this function to correct it.</p>
HDMI Scan Info	<p>Adjusts the overscan ratio of the HDMI image on screen.</p> <ul style="list-style-type: none"> • Auto: Automatically adjusts the overscan ratio by information from the player. • Underscan: Always no overscan on the HDMI image. • Overscan: Always keep overscan on the HDMI image.
3D	<p>Choose "On" to enable DLP 3D function.</p> <ul style="list-style-type: none"> • DLP 3D Select this item while using DLP 3D glasses, quad buffer (NVIDIA/ATI...) graphics card and HQFS format file or DVD with corresponding SW player. • Off Turns off 3D mode.
3D Sync Invert	<p>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).</p>
3D Warning Message	<p>Choose "On" to display the 3D warning message.</p> <div data-bbox="369 1203 929 1331" style="background-color: #004a87; color: white; padding: 10px;"> <p>Note: 3D display is now enabled.</p> <ol style="list-style-type: none"> 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 images. 3. If the 3D display isn't correct, please try to enable 3D Sync Invert. 4. Display mode options will be disabled while in 3D mode. </div>



Note: "H. Position", "V. Position", "Frequency" and "Tracking" functions are not supported under video mode.

Note: "Sharpness" function is not supported under computer mode.

Note:

The 3D function is supported by VGA source only. Please see the timing table for detailed 3D timings.

It needs correct settings on graphics card 3D application program for correct 3D display.

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

-NVIDIA Stereoscopic 3D Video Player: http://www.nvidia.com/object/3D_Drivers_Downloads.html

-Stereoscopic Player: http://www.3dtv.at/Downloads/Index_en.aspx



-DDD TriDef Media Player: <http://www.tridef.com/download/TriDef-3-D-Experience-4.0.2.html>






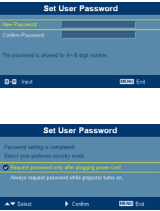


Note: "3D Sync Invert" is only available when DLP 3D is enabled.






Setting



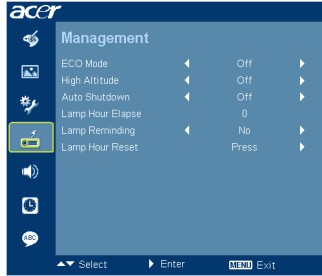
Menu Location	Chooses the OSD menu location on the display screen.
Startup Screen	<p>Use this function to select your desired startup screen. If you change the setting, it will take effect when you exit the OSD menu.</p> <ul style="list-style-type: none"> • Acer: The default startup screen of your Acer projector. • User: Use the memorized picture from the "Screen Capture" function.


<p>Screen Capture</p>	<p>Use this function to customize the startup screen. To capture the image that you want to use as the startup screen, follow the instructions below.</p> <p>Notice: Before proceeding with the following steps, make sure that the "Keystone" is set to the default value "0", and the "Aspect Ratio" is set to "4:3". For details, refer to the "Image" section.</p> <ul style="list-style-type: none"> • Change the "Startup Screen" from the default setting "Acer" to "User". • Press "Screen Capture" to customize the startup screen. • A dialog box appears to confirm the action. Choose "Yes" to use the current image as your customized startup screen. Choose "No" to cancel the screen capture and exist the onscreen display (OSD). • A message appears stating that the screen capture is in progress. • When the screen capture is finished, the message disappears and the original display is shown. • The customized startup screen takes effect when there is a new input signal or when you restart the projector. <p></p> <p>Note: This screen capture function is limited by 4:3 aspect ratio only.</p> <p>Note: For XGA models, to get best quality for your desired image, it is suggested that you set the PC resolution to 1024 x 768 before using this function.</p> <p>Note: For SVGA models, to get best quality for your desired image, it is suggested that you set the PC resolution to 800 x 600 before using this function.</p> <p>Note: For WXGA models, to get best quality for your desired image, it is suggested that you set the PC resolution to 1280 x 800 before using this function.</p>
<p>Closed Caption</p>	<p>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.</p> <p></p> <p>Set your screen aspect ratio to 4:3. The function is not available when the aspect ratio is "16:9"/"16:10" or 16:9/16:10 format detected under "Auto mode".</p>

<p>Security</p> 	<p>Security</p> <p>This projector provides a useful security function for the administrator to manage the projector.</p> <p>Press  to change the "Security" setting. If the security function is enabled, you must enter "Administrator Password" first before changing the security setting.</p> <p> The factory default of "Administrator Password" is "1234".</p> <ul style="list-style-type: none"> • Select "On" to enable the security function. You have to enter password depending on the "Security Mode". Please refer to "User Password" section for details. • If "Off" is selected, you can switch on the projector without password.
	<p>Timeout (Min.)</p> <p>Once "Security" is set to "On", you can set timeout function.</p> <ul style="list-style-type: none"> • Press   to select timeout duration. • The range is from 10 to 990 minutes. • When time is up, the projector will request you to enter the password again. • The factory default setting of "Timeout (Min.)" is "Off". • Once the security function is enabled, the projector will request you to enter password when switching on the projector. Both "User Password" and "Administrator Password" can be accepted for this dialogue.
	<p>User Password</p> <ul style="list-style-type: none"> • Press  to set up or change "User Password". • Use the numerical keys on the remote control to set the password and press "MENU" to confirm. • To delete the digits, Press . • Enter the password again when you see "Confirm Password" displayed. • The password should be 4~8 digits in length. • If you select "Request password only after plugging power cord", you are requested to input the password every time the power cord is plugged. • If you select "Always request password while projector turns on", you are requested to input the password every time the projector is turned on.

	<p>Administrator Password</p> <p>You can enter "Administrator Password" when the "Enter Administrator Password" or "Enter Password" dialogue box is displayed.</p> <ul style="list-style-type: none"> • Press  to change "Administrator Password". • The factory default of "Administrator Password" is "1234". <p>If you forget your administrator password, do the following to retrieve the administrator password:</p> <ul style="list-style-type: none"> • Enter the unique 6-digit "Universal Password" which is printed on the Security Card that came with your projector. This unique password will be accepted by the projector no matter what the administrator password is. • If the Security Card is lost, please contact your local Acer service center. <p>Lock User Startup Screen</p> <ul style="list-style-type: none"> • The default value is "Off". If it is "On", you cannot change the startup screen arbitrarily.
<p>VGA OUT</p>	<p>Selecting "On" enables the function. The projector can output a VGA signal when it is in standby mode and the VGA IN (or VGA IN 1) and VGA OUT sockets are correctly connected to the devices.</p> <p> Enabling this function slightly increases the standby power consumption.</p>
<p>Reset</p>	<p>Press  after choosing "Yes" to return the display parameters on all menus to the factory default settings.</p>
<p>LAN</p>	<ul style="list-style-type: none"> • The default value is "Off". Choose "On" to enable the LAN connection. <p> If a WiFi USB adapter is plugged into the USB A port on the projector, you must adjust the LAN function from Off to On.</p>
<p>LAN IP/Mask</p>	<ul style="list-style-type: none"> • Identify IP and Mask address.
<p>LAN Reset</p>	<ul style="list-style-type: none"> • Reset LAN function.
<p>Auto Screen</p>	<p>The default value is "On". The up/down move of your electronic screen relates to power on/off of the projector.</p>

Management



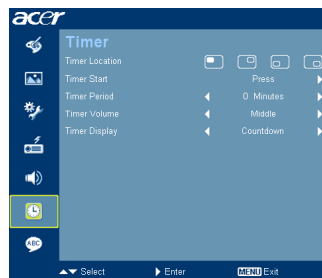
ECO Mode	Choose "On" to dim the projector lamp, which will also lower the power consumption, reduce noise, and extend the lamp life. Choose "Off" to return to the normal mode.
High Altitude	Choose "On" to turn on the High Altitude mode. When this function is turned on, the projector fans operate at full speed continuously to cool down the projector's temperature.
Auto Shutdown (Minutes)	The projector will automatically shut down while there is no signal input detected after the setting time.
Lamp Hour Elapse	Displays the lamp's elapsed operating time (in hours).
Lamp Reminding	Choose this function to show or hide warning message when the changing lamp message is displayed. The message will show up 30 hours before end of life.
Lamp Hour Reset	Press  after choosing "Yes" to turn the lamp hour counter to 0 hours.

Audio








Volume	<ul style="list-style-type: none"> • Press ◀ to decrease the projector speaker volume. • Press ▶ to increase the projector speaker volume.
Microphone Volume	<ul style="list-style-type: none"> • Press ◀ to decrease the microphone volume. • Press ▶ to increase the microphone volume.
Mute	<ul style="list-style-type: none"> • Choose "On" to turn mute on. • Choose "Off" to turn mute off.
Power On/Off Volume	<ul style="list-style-type: none"> • Select this function to adjust the notification volume when turning the projector on/off.
Alarm Volume	<ul style="list-style-type: none"> • Select this function to adjust the volume of any warning notifications.

Timer






Timer Location	Sets the location of the timer on the screen.
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Timer Start (or Stop)	Press  to start or stop the timer.
Timer Period (Minutes)	Press   to adjust the timer period.
Timer Volume	Select this function to adjust the notification volume when the timer function is enabled and time is up.
Timer Display	Press   to choose a timer display mode.

Language



Language	<p>Sets a language for the OSD menus. Use   to select your preferred language.</p> <ul style="list-style-type: none"> Press  to confirm the selection.
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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 style="list-style-type: none"> • Make sure all the cables are correctly connected as described in the "Getting Started" section. • Ensure none of the connector pins are bent or broken. • Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section. • Make sure you have removed the lens cap and the projector is switched on.
2	Partial, scrolling or incorrectly displayed image (For PC (Windows 95/98/2000/XP/7))	<ul style="list-style-type: none"> • Press "RESYNC" on the control panel or remote control. • For an incorrectly displayed image: <ul style="list-style-type: none"> • Open "My Computer > Control Panel," and then double-click the "Display" icon. • Select the "Settings" tab. • Verify that your display resolution setting is lower than or equal to UXGA (1600 x 1200). • Click the "Advanced Properties" button. <p>If the problem still appears, change the monitor display you are using and follow the steps below:</p> <ul style="list-style-type: none"> • Verify that the resolution setting is lower than or equal to UXGA (1600 x 1200). • Click the "Change" button under the "Monitor" tab. • Click "Show all devices > Standard monitor types" under the SP box, and choose the resolution mode you need under the "Models" box. • Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 x 1200).

3	Partial, scrolling or incorrectly displayed image (For notebooks)	<ul style="list-style-type: none"> • Press "RESYNC" on the control panel or remote control. • For an incorrectly displayed image: <ul style="list-style-type: none"> • Follow the steps for item 2 (above) to adjust the resolution of your computer. • 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] • If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.
4	The screen of the notebook computer is not displaying your presentation	<ul style="list-style-type: none"> • If you are using a Microsoft® Windows® 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. • If you are using an Apple® Mac® OS based notebook: In System Preferences, open Display and select Video Mirroring "On."
5	Image is unstable or flickering	<ul style="list-style-type: none"> • Use "Tracking" to correct it. Refer to the "Image" section for more information. • Change the display color setting on your computer.
6	Image has vertical flickering bar	<ul style="list-style-type: none"> • Use "Frequency" to make an adjustment. Refer to the "Image" section for more information. • Check and reconfigure the display mode of your graphics card to make it compatible with the projector.
7	Image is out of focus	<ul style="list-style-type: none"> • Make sure the lens cap is removed. • Adjusts the focus ring on the projector lens. • Make sure the projection screen is within the required distance of 1.0 to 59 inches (2.4 to 149 cm) from the U5200/N210/PN-X10 projector, or 0.8 to 48 inches (2.1 to 121 cm) from the U5300VV/N220/PN-W10 projector. Refer to the "How to Get a Preferred Image Size by Adjusting Distance and Zoom" section for more information.
8	Image is stretched when displaying a "widescreen" DVD title	<p>When you play a DVD encoded in anamorphic or 16:9 aspect ratio you may need to adjust the following settings:</p> <ul style="list-style-type: none"> • If you play a 4:3 format DVD title, please change the format to 4:3 with the projector OSD. • 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.

9	Image is too small or too large	<ul style="list-style-type: none"> Adjust the zoom lever on the top of the projector. Move the projector closer to or further from the screen. Press "MENU" on the control panel or remote control. Go to "Image > Aspect Ratio" and try different settings.
10	Image has slanted sides	<ul style="list-style-type: none"> If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen. Press the Keystone correction keys on the control panel or remote control until the image becomes square. Press "MENU" on the control panel or remote control to open the OSD menu. Go to "Image > Keystone" to make adjustments.
11	Image is reversed	<ul style="list-style-type: none"> Select "Image > Projection" on the OSD and adjust the projection direction.

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.
2	Lamp burns out or makes a popping sound	When the lamp reaches the end of its useful life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section.

OSD Messages

#	Condition	Message Reminder
1	Message	<p data-bbox="369 277 710 300">Fan Fail - the system fan is not working.</p> <div data-bbox="369 306 909 373" style="background-color: #0000FF; color: white; padding: 5px; text-align: center;"> <p data-bbox="609 316 670 335">Fan Fail.</p> <p data-bbox="500 339 779 359">Lamp will automatically turn off soon.</p> </div> <p data-bbox="369 387 909 491">Projector Overheated - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it is used. Please also check the dust filters if they are installed. If the dust filter is clogged with dust, please clean it.</p> <div data-bbox="369 501 909 568" style="background-color: #0000FF; color: white; padding: 5px; text-align: center;"> <p data-bbox="558 510 721 529">Projector Overheated.</p> <p data-bbox="500 534 779 553">Lamp will automatically turn off soon.</p> </div> <p data-bbox="369 576 877 619">Replace the lamp - the lamp is about to reach its maximum lifetime. Prepare to replace it soon.</p> <div data-bbox="369 627 909 694" style="background-color: #0000FF; color: white; padding: 5px; text-align: center;"> <p data-bbox="383 636 896 655">Lamp is approaching the end of its useful life in full power operation.</p> <p data-bbox="550 660 729 679">Replacement suggested!</p> </div>

LED & Alarm Definition Listing

LED Messages

Message	Power LED		Lamp LED	Temp LED
	Red	Blue	Red	Red
Standby (Power cord plugged in)	V	--	--	--
Power on	--	V	--	--
Lamp retry	--	Quick flashing	--	--
Turning off (Cooling state)	Quick flashing	--	--	--
Turning off (Cooling completed)	V	--	--	--
Error (Thermal failure)	--	V	--	V
Error (Fan lock failure)	--	V	--	Quick flashing
Error (Lamp breakdown)	--	V	V	--
Error (Color wheel failure)	--	V	Quick flashing	--

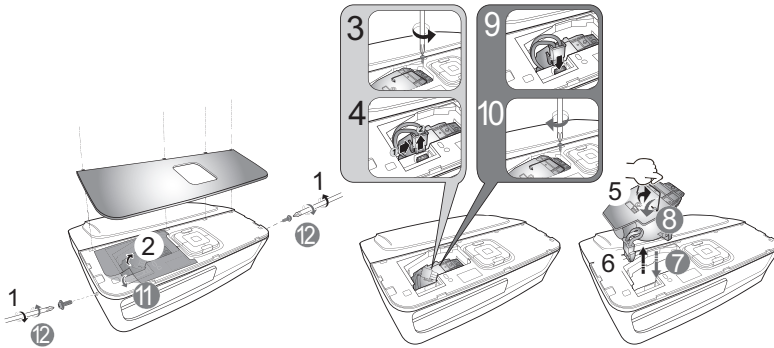
Replacing the Lamp

Use a screwdriver to remove the screw(s) from the cover, and then pull out the lamp.


The projector will detect the lamp life itself. It will show you a warning message **"Lamp is approaching the end of its useful life in full power operation. Replacement Suggested!"** When you see this message, change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.



Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



To remove the lamp:

- 1 Turn the projector off by pressing  (POWER).
- 2 Allow the projector at least 30 mins to cool down.
- 3 Disconnect the power cord.
- 4 Use a screwdriver to remove the screws from the cover. (Illustration #1)
- 5 Push up and remove the cover.
- 6 Remove and dispose of the lamp protection film (Illustration #2).
- 7 Remove the screw that secures the lamp module (Illustration #3).
- 8 Pull out the lamp connector from a slot in the lamp compartment. Disconnect it from the projector (Illustration #4).
- 9 Lift the handle so that it stands up (Illustration #5). Pull out the lamp module by force (Illustration #6).

To replace the lamp module, use a new lamp and follow illustrations #7 - #12.



Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

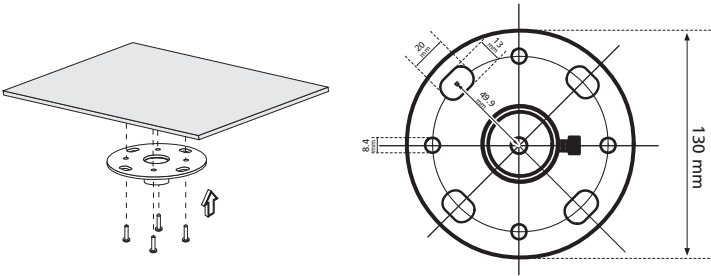
Ceiling Mount Installation

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



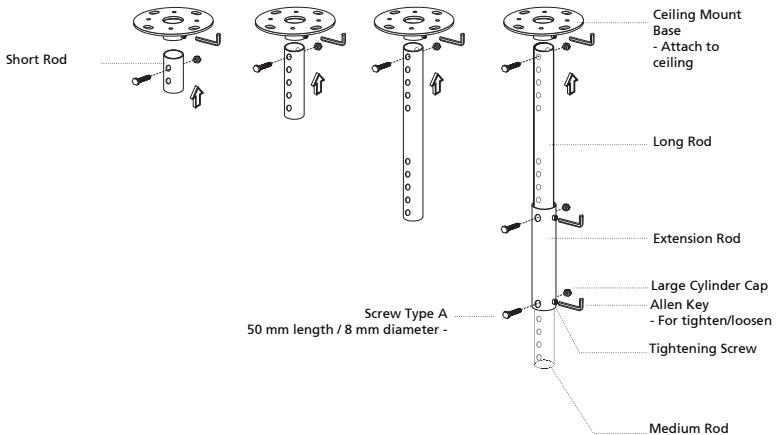
Warning: To ensure the stability of the mirror, do not install the projector near any air/heating vents.

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

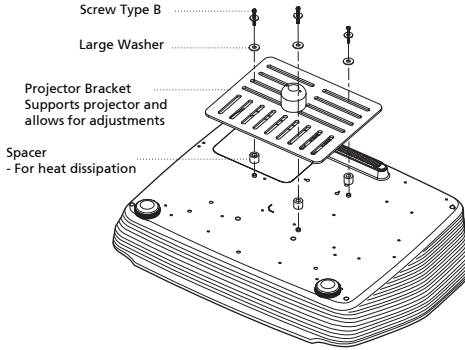


Note: Screws are not included. Please obtain the appropriate screws for your type of ceiling.

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

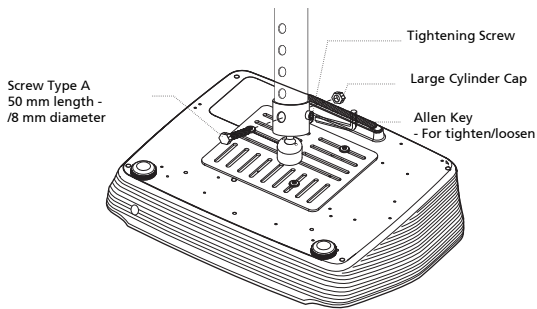


- 3 Use the appropriate number of screws for the projector size to attach the projector to the ceiling mount bracket.

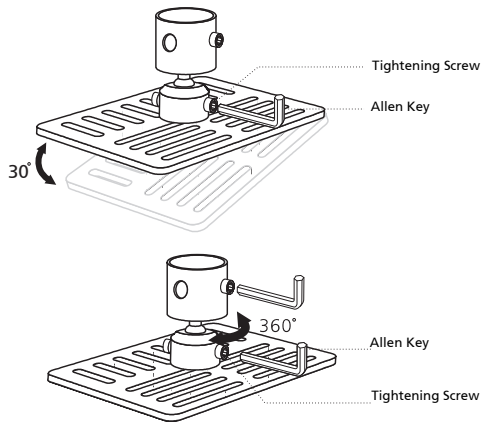


Note: It is recommended that you keep a reasonable space between the bracket and the projector to allow for proper heat distribution. Use two washers for extra support, if deemed necessary.

- 4 Attach the ceiling bracket to the ceiling rod.

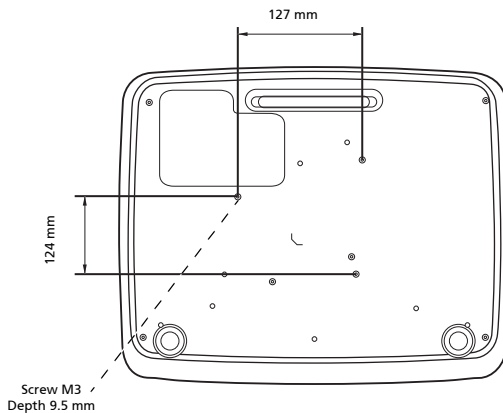


- 5 Adjust the angle and positioning as necessary.



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
U5200/N210/PN-X10/U5300W/ N220/PN-W10	3	25	V	V



Specifications

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

Projection system	DLP™
Resolution	<ul style="list-style-type: none"> U5200/N210/PN-X10: Native: XGA (1024 x 768) Maximum: 1920 x 1080 EIA/RB U5300W/N220/PN-W10: Native: WXGA (1280 x 800) Maximum: 1920 x 1080 EIA/RB
Computer compatibility	IBM PC and compatibles, Apple Macintosh, iMac and VESA standards: WXGA+ (1440 x 900), WXGA (1280 x 800, 1280 x 768), SXGA (1152 x 864, 1280 x 1024), SXGA+ (1400 x 1050), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480), UXGA (1600 x 1200), 1920 x 1080 EIA/RB
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	<ul style="list-style-type: none"> U5200/N210/PN-X10: Auto, 4:3 (native), 16:9 U5300W/N220/PN-W10: Auto, Full (native), 16:9, 4:3, L.Box
Displayable colors	1.07 billion colors
Projection lens	F = 2.65, f = 3.50 mm, Manual Focus
Projection screen size (diagonal)	<ul style="list-style-type: none"> U5200/N210/PN-X10: 60" (152 cm) - 300" (762 cm) U5300W/N220/PN-W10: 70" (178 cm) - 300" (762 cm)
Projection distance	<ul style="list-style-type: none"> U5200/N210/PN-X10: 1.0" (2.4 cm) - 59" (149 cm) U5300W/N220/PN-W10: 0.8" (2.1 cm) - 48" (121 cm)
Throw ratio	<ul style="list-style-type: none"> U5200/N210/PN-X10: 77" @ 13 cm (0.30 : 1) U5300W/N220/PN-W10: 87" @ 11 cm (0.24 : 1)
Horizontal scan rate	31 - 99 kHz
Vertical refresh scan rate	48 - 120 Hz
Lamp type	Philips 230 W user-replaceable UHP
Keystone correction	+/-15 Degrees (Vertical), Manual
Digital zoom	2 X
Audio	10 W x 2
Weight	Approximate 7.0 kg (15.4 lbs.)
Dimensions (W x D x H)	422 x 342 x 143 mm (16.6" x 13.5" x 5.6")
Power supply	Universal AC input 100 - 240 V, input frequency 50/60 Hz
Power consumption	380 W
Operating temperature	0°C to 35°C / 32°F to 95°F

I/O connectors	<ul style="list-style-type: none"> • Power socket x 1 • RS232 x 1 • VGA input x 2 • Composite video x 1 • S-Video x 1 • VGA output x 1 • RJ45 LAN input x 1 • USB (Type mini B) x 1 • 3.5 mm audio jack input x 2 • 3.5 mm audio jack output x 1 • USB (Type A) x 2 • HDMI x 2 • Microphone input x 1 • 12V DC out x 1 (Max. 1A)
Standard package contents	<ul style="list-style-type: none"> • AC power cord x 1 • VGA cable x 1 • Remote control x 1 • Battery x 2 (for the remote control) • User's guide (CD-ROM) x 1 • Quick start guide x 1 • Security card x 1 • Composite video cable x 1 • Acer Projector Gateway (CD-ROM) x 1 • Acer Projector Gateway quick start guide x 1
Accessory (optional)	<ul style="list-style-type: none"> • Dust filter x 1

*Design and specifications are subject to change without notice.

Compatibility Modes

1 VGA Analog - PC Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA_60	640 x 480	59.940	31.469
VGA_72		72.809	37.861
VGA_75		75.000	37.500
VGA_85		85.008	43.269
VGA_70	720 x 400	70.087	31.469
VGA_85		85.039	37.927
SVGA_56	800 x 600	56.250	35.156
SVGA_60		60.317	37.879
SVGA_72		72.188	48.077
SVGA_75		75.000	46.875
SVGA_85		85.061	53.674
XGA_60	1024 x 768	60.004	48.363
XGA_70		70.069	56.476
XGA_75		75.029	60.023
XGA_85		84.997	68.677
SXGA_70	1152 x 864	70.012	63.851
SXGA_75		75.000	67.500
SXGA_85		84.990	77.094
SXGA_60	1280 x 1024	60.020	63.981
SXGA_72		72.000	76.970
SXGA_75		75.025	79.976
SXGA_85		85.024	91.146
QuadVGA_60	1280 x 960	60.000	60.000
QuadVGA_75		75.000	75.000
SXGA+_60	1400 x 1050	59.978	65.317
UXGA_60	1600 x 1200	60.000	75.000
Mac G4	640 x 480@60Hz	59.940	31.469
MAC13	640 x 480@67Hz	66.667	35.000
Mac G4	800 x 600@60Hz	60.317	37.879
MAC16	832 x 624@75Hz	74.546	49.722
Mac G4	1024 x 768@60Hz	60.004	48.363

MAC19	1024 x 768@75Hz	75.020	60.241
MAC21	1152 x 870@75Hz	75.061	68.681
WXGA_60	1280 x 768	59.870	47.776
WXGA_75		74.893	60.289
WXGA_85		84.837	68.633
WXGA_60	1280 x 720	60.000	45.000
WXGA_60	1280 x 800	59.810	49.702
WXGA+_60	1440 x 900	59.887	55.935
1680 x 1050_60	1680 x 1050	59.954	65.290
1920 x 1080_RB	1920 x 1080	60.000	66.587
1920 x 1080_EIA	1920 x 1080	60.000	67.500
acer_16:9	1366 x 768	59.790	47.712
acer_timing	1024 x 600	60.000	37.500
VGA_120	640 x 480	119.518	61.910
SVGA_120	800 x 600	119.854	77.425
XGA_120	1024 x 768	119.804	98.958

2 DVI-D & HDMI (HDCP) Timing

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA_60	640 x 480	59.940	31.469
VGA_72		72.809	37.861
VGA_75		75.000	37.500
VGA_85		85.008	43.269
VGA_70	720 x 400	70.087	31.469
VGA_85		85.039	37.927
SVGA_56	800 x 600	56.250	35.156
SVGA_60		60.317	37.879
SVGA_72		72.188	48.077
SVGA_75		75.000	46.875
SVGA_85		85.061	53.674
XGA_60	1024 x 768	60.004	48.363
XGA_70		70.069	56.476
XGA_75		75.029	60.023
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SXGA_75		75.000	67.500

SXGA_85	1152 x 864	84.990	77.094
SXGA_60	1280 x 1024	60.020	63.981
SXGA_72		72.000	76.970
SXGA_75		75.025	79.976
SXGA_85		85.024	91.146
QuadVGA_60	1280 x 960	60.000	60.000
QuadVGA_75		75.000	75.000
SXGA+_60	1400 x 1050	59.978	65.317
UXGA_60	1600 x 1200	60.000	75.000
Mac G4	640 x 480@60Hz	59.940	31.469
MAC13	640 x 480@67Hz	66.667	35.000
Mac G4	800 x 600@60Hz	60.317	37.879
MAC16	832 x 624@75Hz	74.546	49.722
Mac G4	1024 x 768@60Hz	60.004	48.363
MAC19	1024 x 768@75Hz	75.020	60.241
MAC21	1152 x 870@75Hz	75.061	68.681
WXGA_60	1280 x 768	59.870	47.776
WXGA_75		74.893	60.289
WXGA_85		84.837	68.633
WXGA_60	1280 x 720	60.000	45.000
WXGA_60	1280 x 800	59.810	49.702
WXGA+_60	1440 x 900	59.887	55.935
1680x1050_60	1680 x 1050	59.954	65.290
1920x1080_RB	1920 x 1080	60.000	66.587
1920x1080_EIA	1920 x 1080	60.000	67.500
acer_16:9	1366 x 768	59.790	47.712
acer_timing	1024 x 600	60.000	37.500
VGA_120	640 x 480	119.518	61.910
SVGA_120	800 x 600	119.854	77.425
XGA_120	1024 x 768	119.804	98.958
480i	Video (HDMI)	60	15.73
576i		50	15.63
480p		60	31.47
576p		50	31.25
720p_60		60	45.00
720p_50		50	37.50

1080i_60		60	33.75
1080i_50		50	28.13
1080p		60	67.5
1080P		50	56.26
1080p		24	27.00
1080p		23.98	26.97

3 Component Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
480i	720 x 480	59.94	15.73
480p	720 x 480	59.94	31.47
576i	720 x 576	50.00	15.63
576p	720 x 576	50.00	31.25
720p	1280 x 720	60.00	45.00
720p	1280 x 720	50.00	37.50
1080i	1920 x 1080	60.00	33.75
1080i	1920 x 1080	50.00	28.13
1080p	1920 x 1080	60.00	67.5
1080p	1920 x 1080	50.00	56.26
1080p	1920 x 1080	24.00	27.00
1080p	1920 x 1080	23.98	26.97

4 Video, S-Video Signal

Video mode	V.Frequency [Hz]	H.Frequency [KHz]	fsc (MHz)
NTSC	60	15.73	3.58
PAL	50	15.63	4.43
SECAM	50	15.63	4.25 or 4.41
PAL-M	60	15.73	3.58
PAL-N	50	15.63	3.58
PAL-60	60	15.73	4.43
NTSC4.43	60	15.73	4.43

Regulations and safety notices

FCC notice

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 à 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



ME61

Radio device regulatory notice



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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 a local office in the country of use. Please see <http://ec.europa.eu/enterprise/rtte/implement.htm> for the latest country list.



Acer Incorporated
8F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih
Taipei Hsien 221, Taiwan



Declaration of Conformity

We,

Acer Incorporated

8F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan
Contact Person: Mr. Easy Lai, e-mail:easy_lai@acer.com.tw

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

Hereby declare that:

Product:	Projector
Trade Name:	Acer
Model Number:	QNX0013/QWX0016/N210/PN-X10/N220/PN-W10 series
Machine Type:	U5200/U5300W series

Is compliant with the essential requirements and other relevant provisions of the following EC directives, and that all the necessary steps have been taken and are in force to assure that production units of the same product will continue comply with the requirements.

EMC Directive 2004/108/EC as attested by conformity with the following harmonized standards:

- EN55022, AS/NZS CISPR22, Class B
- EN55024
- EN61000-3-2 Class A
- EN61000-3-3

Low Voltage Directive 2006/95/EC as attested by conformity with the following harmonized standard:

- EN60950-1

RoHS Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment

- The maximum concentration values of the restricted substances by weight in homogenous material are:

Lead	0.1%	Polybrominated Biphenyls (PBB's)	0.1%
Mercury	0.1%	Polybrominated Diphenyl Ethers (PBDE's)	0.1%
Hexavalent Chromium	0.1%	Cadmium	0.01%

Directive 2009/125/EC with regard to establishing a framework for the setting of ecodesign requirements for energy-related product.



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Taipei Hsien 221, Taiwan

The standards listed below are applied to the product if built with WLAN module or wireless keyboard and mouse.



R&TTE Directive 1999/5/EC as attested by conformity with the following harmonized standard:

- **Article 3.1(a) Health and Safety**
 - EN60950-1
 - EN62311
- **Article 3.1(b) EMC**
 - EN301 489-1
 - EN301 489-17
- **Article 3.2 Spectrum Usages**
 - EN300 328
 - EN301 893 (Applicable to 5GHz high performance RLAN).

Year to begin affixing CE marking 2010.

Easy Lai

Easy Lai /Manager
Regulation Center, Acer Inc.

Dec. 13, 2010 -
Date



Acer America Corporation
 333 West San Carlos St., San Jose
 CA 95110, U. S. A.
 Tel: 254-298-4000
 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:	QNX0013/QWX0016/N210/PN-X10/ N220/PN-W10
Machine Type:	U5200/U5300W series
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St. San Jose, CA 95110 U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
Fax No.:	254-298-4147