

Acer Projector

U5220/R215/PU-X15/U5320W/R225/
PU-W15/U5520B/R245E/PU-815K/
U5520i/R245R/PU-815F
Series User's Guide

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Acer Projector 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

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 or 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, 4.5 meters (14.76 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 wall mount installation. Only use acer wall mount kit for mounting the projector and ensure it is securely installed.

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/index.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:



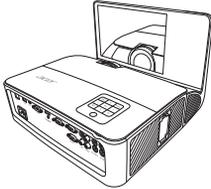
THIS PROJECTOR CAN ONLY BE WALL MOUNTED.



- DLP® technology
 - U5220/R215/PU-X15: Native 1024 x 768 XGA resolution, Auto/4:3/16:9 aspect ratio supported
 - U5320W/R225/PU-W15: Native 1280 x 800 WXGA resolution, Auto/Full/4:3/16:9/L.Box aspect ratio supported
 - U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: Native 1920 x 1080 1080p resolution, Auto/Full/4:3/16:9/L.Box aspect ratio supported
- Enables projecting 3D content via DLP Link Technology: Blu-Ray 3D supported
- One-touch "3D" button on remote control allows quick and easy access to the 3D functions
- 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
- Dynamic Black / ExtremeEco functions help decrease lamp power consumption and further extend lamp life.
 - Dynamic Black: If turned on, the projector dynamically adjusts the power consumption of the lamp according to the brightness of the image being projected. When projecting darker images the power consumption will be reduced and the contrast of the image will also be enhanced.
 - ExtremeEco: The projector will decrease the power consumption of the lamp by up to 70% when no input signal can be detected for 5 minutes.
- Acer EcoProjection Technology delivers Intelligent power management approach and physical efficiency improvement
- Advanced keystone correction delivers optimum presentations
- Multi-language Onscreen Display (OSD) menus
- Manual focus/zoom projection lens
- 2X digital zoom and pan move function
- Microsoft® Windows® 2000, XP, 7, 8, 8.1, Vista®, Macintosh OS compliant
- LAN settings enable remote management of projectors via a web browser
- Crestron compliant

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



Security card



User's guide (CD-ROM)



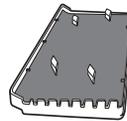
Remote control



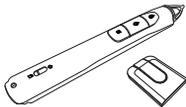
Quick start guide



Battery x 2



Dust filter
(Optional)



SmartPen & PB dongle
(Optional)



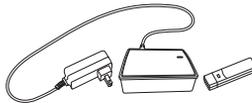
USB WiFi adapter (Optional)



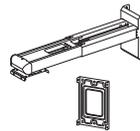
Acer Projector Multi-media
(CD-ROM) (Optional)



Acer Projector Multi-media
quick start guide (Optional)



WirelessHD dongle kit
(Optional)

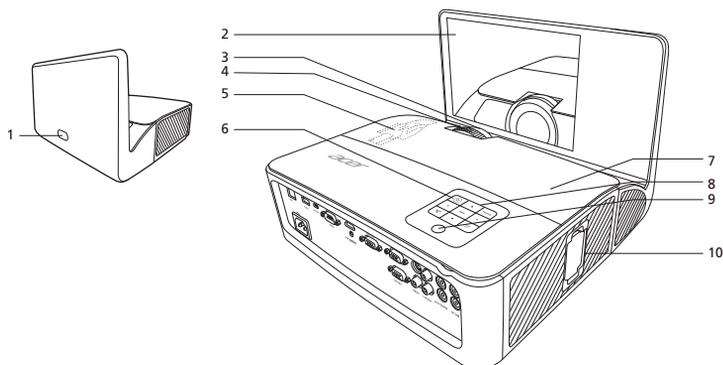


Wall mount kit (SWM04)

Projector Overview

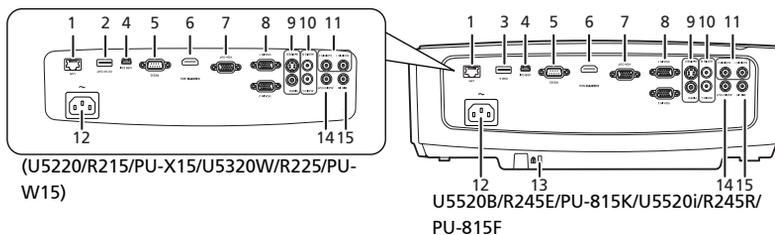
Projector Outlook

Front/upper side



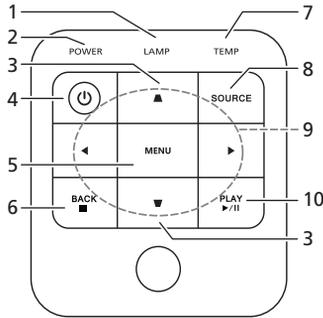
#	Description	#	Description5
1	Remote control receiver	6	Power key and Power indicator LED
2	Mirror	7	Lamp cover
3	Projection lens	8	Control panel
4	Focus ring	9	Remote control receiver
5	HDMI (MHL) connector Micro USB cable USB connector (Type A) (for selected models)	10	PB dangle slot

Rear side



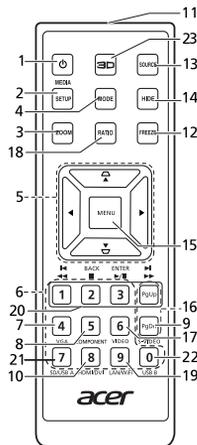
#	Description	#	Description
1	LAN (RJ45 port for 10/100M Ethernet)	9	S-Video input connector Composite video input connector
2	DC 5V OUT	10	Audio input connector (L/R)
3	USB connector (Type A)	11	Audio input connector
4	USB connector (Type B)	12	Power socket
5	RS232 connector	13	Kensington™ lock port
6	HDMI(MHL) connector	14	Audio output connector
7	Monitor loop-through output connector	15	Microphone input connector
8	Analog RGB signal/HDTV/component video input connector		

Control Panel



#	Function	Description
1	LAMP	Lamp Indicator LED.
2	POWER indicator LED	Refer to the "Turning the Projector On/Off" section.
3	Keystone	Adjusts image distortion caused by tilting projection (± 15 degrees).
4	Power key	Refer to the "Turning the Projector On/Off" section.
5	MENU	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
6	BACK ■ Stop	Goes back to the previous selection. Stops the playing media files.
7	TEMP	Temp Indicator LED.
8	SOURCE	Chooses RGB, component video, S-Video, composite video, HDMI (MHL) or HDTV source.
9	Four directional selection keys	Selects items or makes adjustments to your selection
10	▶/ PLAY/Pause	Plays/Pauses the playing media files.

Remote Control Layout



#	Function	Description
1	POWER	Refer to the "Turning the Projector On/Off" section.
2	MEDIA SETUP	Opens MEDIA SETUP page.
3	ZOOM	Zooms the projector display in or out.
4	MODE	Chooses a display mode.
5	 Keystone  Four directional selection keys	Adjusts image distortion caused by tilting projection (± 15 degrees).
6	Keypad 0~9	Press "0~9" to input a password in the "Setting" > "Security" OSD.
7	VGA	To change source to VGA. This connection supports analog RGB, YPbPr (480p/576p/720p/1080i/1080p), and YCbCr (480i/576i).
8	COMPONENT	To change source to Component video. This connector supports YPbPr/YCbCr.
9	S-VIDEO	To change source to S-Video.
10	HDMI™/DVI	To change source to HDMI™ (or DVI). (for the model with HDMI™ or DVI connector)
11	Infrared transmitter	Sends signals to the projector.
12	FREEZE	To pause the screen image.
13	SOURCE	Chooses RGB, component video, S-Video, composite video, HDMI (MHL) or HDTV source.
14	HIDE	Press "HIDE" to hide screen image; press again to display the image.

#	Function	Description
15	MENU	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
16	PgUp/PgDn	For computer mode only. Use this button to select the next or previous page. This function is only available when connected to a computer via a USB cable.
17	VIDEO	To change source to composite video.
18	RATIO	Chooses an aspect ratio.
19	WIRELESS; LAN/WiFi	(No function)
20	◀◀ Rewind ▶/ Play/Pause ■ Stop ▶▶ Fast-forward	(No function)
21	SD/USB A	(No function)
22	USB B	(No function)
23	3D	Press to open the 3D menu for adjusting 3D settings.

MHL Feature Introduction

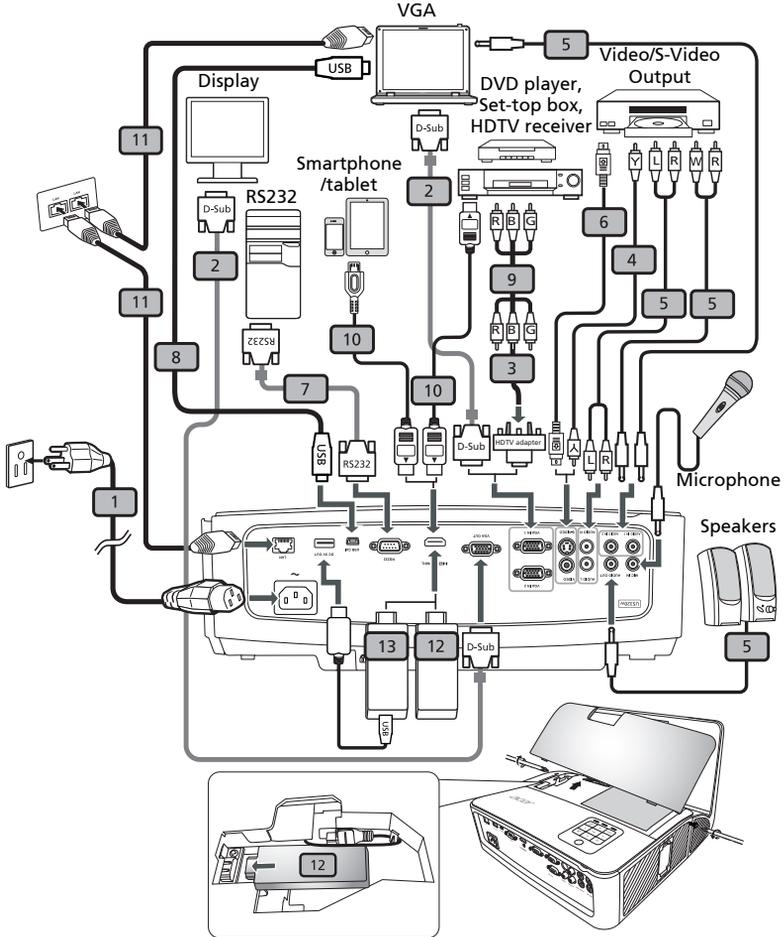
When your smartphone is connected to the projector, you can use some buttons on the remote control to control your smartphone. Press "MODE" for one second to enter or leave the MHL control mode. After entering the MHL control mode, press "SOURCE" to switch between the navigation mode (default), media mode and numeric mode.

#	Function		Description		
			Navigation mode	Media mode	Numeric mode
4	MODE		Long press for one second to enter or leave the MHL control mode.		
13	SOURCE		After entering the MHL control mode, press to switch between the navigation mode (default), media mode and numeric mode.		
5	 Four directional select keys	Up	Up	(No function)	(No function)
		down	down	(No function)	(No function)
		Left	Left	Decreases the volume.	(No function)
		Right	Right	Increases the volume.	(No function)
6	Keypad 0~9		(No function)	(No function)	Enters 0~9.
15	MENU		Goes to the root menu.	(No function)	(No function)
20	⏮ Rewind		(No function)	Rewinds/Plays/Pauses/Stops/Fast-forwards the playing media files.	Enters 1.
	▶/⏸ Play/Pause		Selects or enters items.		Enters 2.
	■ Stop		Exits current page.		Enters 3.
	⏭ Fast-forward		(No function)		(No function)

Getting Started

Connecting the Projector

- For models without multi-media function



#	Description	#	Description
1	Power cord	8	USB cable
2	VGA cable	9	3 RCA component cable
3	VGA to component video/HDTV adapter	10	HDMI (MHL) cable
4	Composite video cable	11	RJ45 cable
5	Audio cable	12	WirelessHD dongle

#	Description	#	Description
6	S-Video cable	13	Wireless dongle
7	RS232 cable		

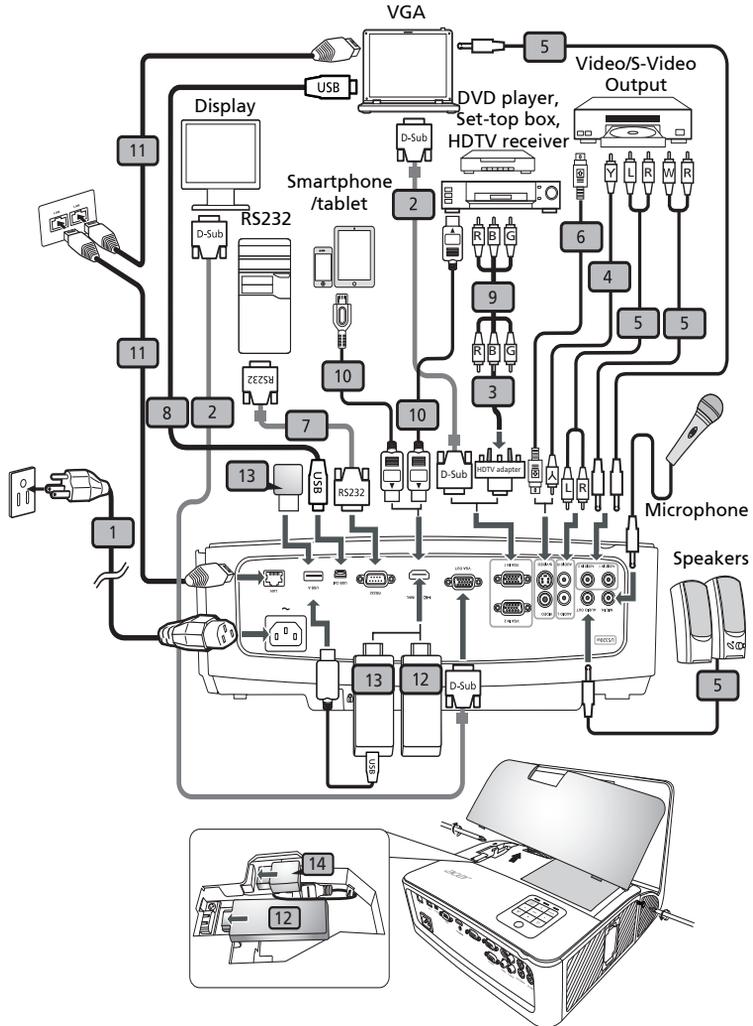


Note: To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with the projector.

Note: Some smart devices require a converter (supplied by the smart device maker) to enable the MHL function.

Note: Compatible HDMI/MHL dongles: WirelessHD, MWA3, Android, Chromecast™.

- For models with multi-media function



#	Description	#	Description
1	Power cord	9	3 RCA component cable
2	VGA cable	10	HDMI (MHL) cable
3	VGA to component video/HDTV adapter	11	RJ45 cable
4	Composite video cable	12	WirelessHD dongle
5	Audio cable	13	Wireless dongle

#	Description	#	Description
6	S-Video cable	14*	USB storage device/USB Wifi adapter (Optional)
7	RS232 cable		
8	USB cable		



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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: Some smart devices require a converter (supplied by the smart device maker) to enable the MHL function.

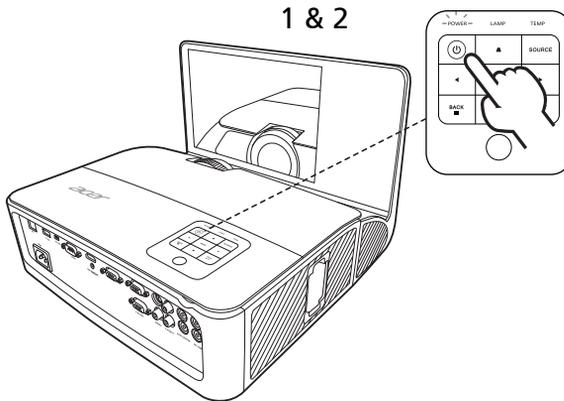
Note: Compatible HDMI/MHL dongles: WirelessHD, MWA3, Android, Chromecast™.

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

Turning the Projector On/Off

Turning On the Projector

- 1 Ensure that the power cord and signal cable are securely connected. The Power LED will light red.
- 2 Turn on the projector by pressing  (POWER) on the control panel or remote control, and the Power indicator LED will turn blue.
- 3 Turn on your source (computer, notebook, video player, etc.). The projector will detect your source automatically (when the Source Lock function is disabled).
 - 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.



Turning Off the Projector

- 1 To turn the projector off, press the power button. This message appears:
"Please press power button again to complete the shutdown process"
 Press the power button again.
- 2 The LED Power indicator will turn solid red to indicate standby mode.
- 3 It is now safe to unplug the power cord.

When Instant Resume is selected:

- 1 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.
- 2 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.
- 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.



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 Temp indicator turns solid red, contact your local reseller or service center.

Adjusting the Projected Image

How to Optimize Image Size and Distance

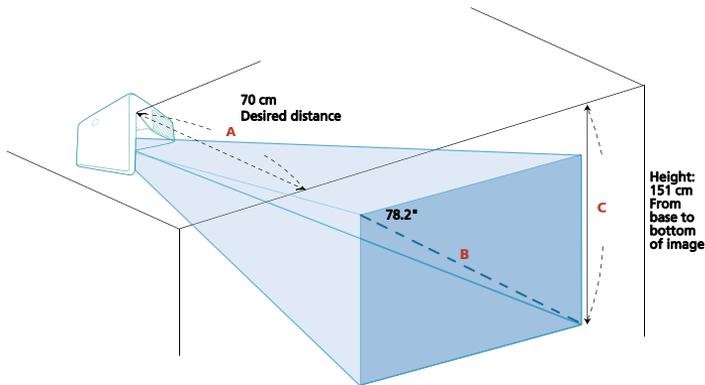
Consult the table below to find the optimal image sizes achievable when the projector is positioned at a desired distance from the screen.

- SVGA/XGA

If the projector is 70 cm from the screen, good image quality is possible for image sizes around 78.2".



Note: Remind as below figure, the space of 151 cm height is required when the projector is located at 70 cm distance.



Desired Distance (cm) < A >	Screen Size (Min zoom)		
	Diagonal (inch) < B >	W (cm) x H (cm)	From base to bottom of image (cm) < C >
55	62.4	127 x 95	121
60	67.7	138 x 103	131
70	78.2	159 x 119	151
80	88.7	180 x 135	172
90	99.3	202 x 151	192
100	109.8	223 x 167	213
110	120.4	245 x 183	233

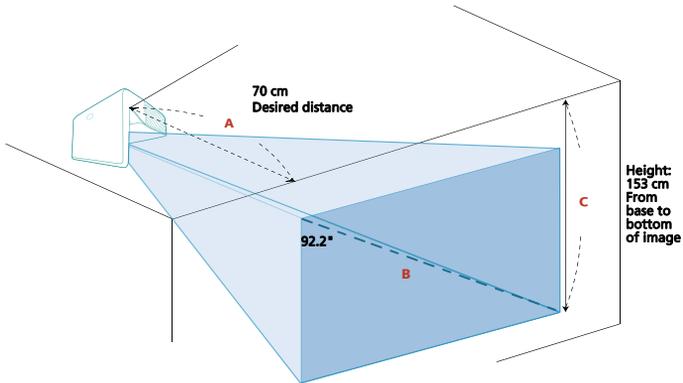
Zoom Ratio: 1.0 x (measured from mirror to screen)

- WXGA

If the projector is 70 cm from the screen, good image quality is possible for image sizes around 92.2".



Note: Remind as below figure, the space of 153 cm height is required when the projector is located at 70 cm distance.



Desired Distance (cm) < A >	Screen Size (Min zoom)		
	Diagonal (inch) < B >	W (cm) x H (cm)	From base to bottom of image (cm) < C >
45	61.2	132 x 82	102
50	67.4	145 x 91	112
60	79.8	172 x 107	133
70	92.2	199 x 124	153
80	104.7	225 x 141	174
90	117.1	252 x 158	195

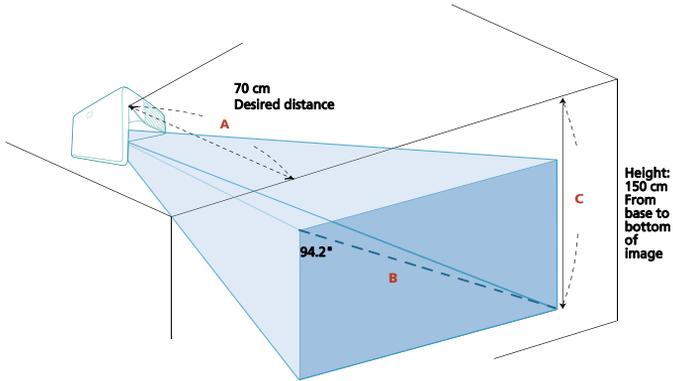
Zoom Ratio: 1.0 x (measured from mirror to screen)

- 1080P

If the projector is 70 cm from the screen, good image quality is possible for image sizes around 94.2".



Note: Remind as below figure, the space of 150 cm height is required when the projector is located at 70 cm distance.



Desired Distance (cm) < A >	Screen Size (Min zoom)		
	Diagonal (inch) < B >	W (cm) x H (cm)	From base to bottom of image (cm) < C >
55	75.1	166 x 94	120
60	81.5	180 x 101	130
70	94.2	208 x 117	150
80	106.9	237 x 133	170
90	119.5	265 x 149	191

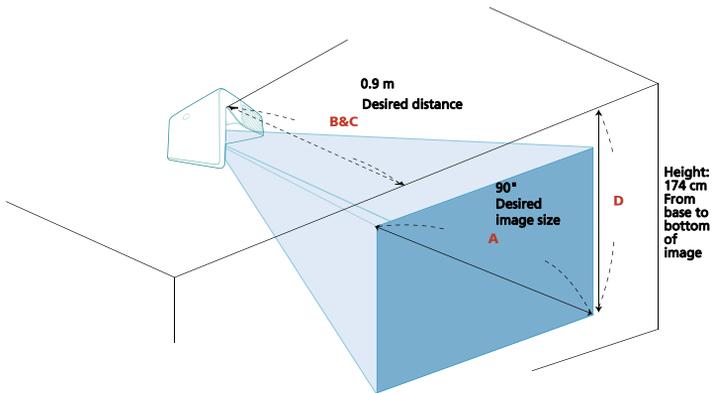
Zoom Ratio: 1.0 x (measured from mirror to screen)

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.

- SVGA/XGA

To obtain an image size of 90", set the projector at a distance 0.9 m from the screen.

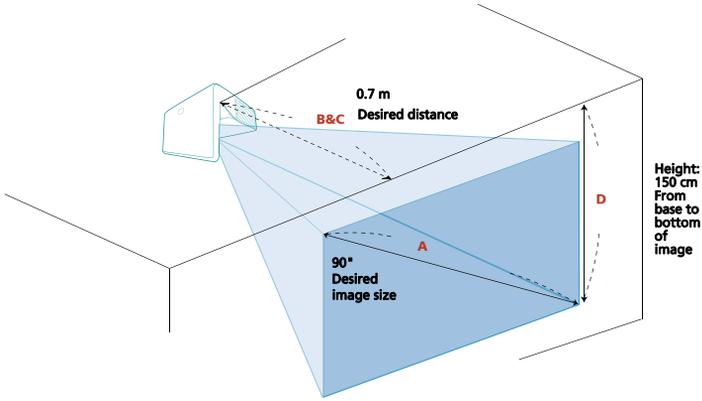


Desired Image Size		Distance (m)		Top (cm)
Diagonal (inch) < A >	W (cm) x H (cm)	Max zoom < B >	Min zoom < C >	From base to bottom of image < D >
60	122 x 91	0.53	0.53	116
70	142 x 107	0.62	0.62	135
80	163 x 122	0.72	0.72	155
90	183 x 137	0.81	0.81	174
100	203 x 152	0.91	0.91	194
110	224 x 168	1.00	1.00	213
120	244 x 183	1.10	1.10	232

Zoom Ratio: 1.0 x (measured from mirror to screen)

- WXGA

To obtain an image size of 90", set the projector at a distance 0.7 m from the screen.

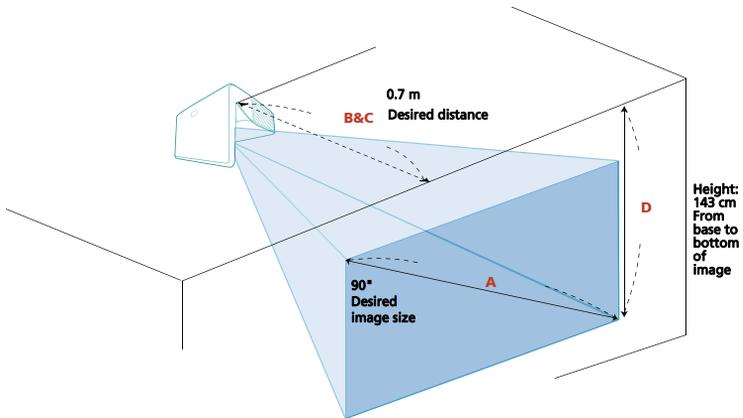


Desired Image Size		Distance (m)		Top (cm)
Diagonal (inch) < A >	W (cm) x H (cm)	Max zoom < B >	Min zoom < C >	From base to bottom of image < D >
60	129 x 81	0.44	0.44	100
70	151 x 94	0.52	0.52	116
80	172 x 108	0.60	0.60	133
90	194 x 121	0.68	0.68	150
100	215 x 135	0.76	0.76	166
120	258 x 162	0.92	0.92	200

Zoom Ratio: 1.0 x (measured from mirror to screen)

- 1080P

To obtain an image size of 90", set the projector at a distance 0.7 m from the screen.



Desired Image Size		Distance (m)		Top (cm)
Diagonal (inch) < A >	W (cm) x H (cm)	Max zoom < B >	Min zoom < C >	From base to bottom of image < D >
70	155 x 87	0.51	0.51	112
80	177 x 100	0.59	0.59	128
90	199 x 112	0.67	0.67	143
100	221 x 125	0.75	0.75	159
110	244 x 137	0.82	0.82	175
120	266 x 149	0.90	0.90	191

Zoom Ratio: 1.0 x (measured from mirror to screen)

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" 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 adjusting the calibration and alignment settings, such as screen size and distance, focus and more.



Note: The OSD screenshot is for reference only and may differ from the actual design.

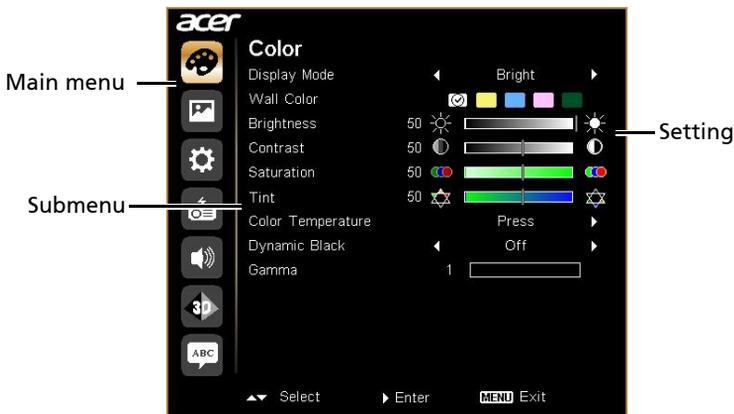
- 4 The Installation menu includes several options.
Use the up and down arrow keys to select an option, the left and right arrow keys to adjust selected option settings, and the right arrow key to enter a submenu for feature setting. The new settings will be saved automatically upon exiting the menu.
- 5 Press "MENU" anytime to exit the menu and return to the Acer welcome screen.

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.



Note: Some of the following OSD settings may not be available. Please refer to the actual OSD of your projector.

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 and Dark Green. It will compensate for 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.
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.
Color Temperature	<p>Adjusts the color temperature. At higher color temperatures, the screen looks colder; at lower color temperatures, the screen looks warmer.</p>

Dynamic Black	If turned on, the projector dynamically adjusts the power consumption of the lamp according to the brightness of the image being projected. When projecting darker images the power consumption will be reduced and the contrast of the image will also be enhanced.
Gamma	Effects the representation of dark scenery. With greater gamma value, dark scenery will look brighter.



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

Image

Projection	<ul style="list-style-type: none"> : When you select this function, the projector inverts the image for wall-mounted projection. : When you select this function, the projector reverses and inverts the image at same time. You can project from behind a translucent screen with wall mounted projection.
Aspect Ratio	<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. Full (for WXGA/1080P models): The image will be displayed making full use of the horizontal and 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. L.Box (for WXGA/1080P models): Keeps the original signal aspect ratio and zooms in by 1.333 times.
H/V Keystone	<ul style="list-style-type: none"> V. Keystone: Manually adjusts image distortion caused by tilting projection (± 15 degrees).  H. Keystone: Manually adjusts image distortion caused by tilting projection (± 15 degrees). 

4 Corner Correction	<p>Manually adjusts the shape and size of an image that is unevenly rectangular on all sides. Press "MODE" repeatedly to select the corner that you wish to adjust. Press four directional selection keys to adjust the image shape.</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 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.
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.



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

Note: "HDMI Color Range" and "HDMI Scan Info" are only available when the input signal is HDMI.

Setting

SmartPen	<p>The Acer SmartPen can work in place of your regular computer mouse. Just hold the pen in your hand, and point it at the projected image to point, click, and drag. It gives you more flexibility to operate your computer without standing next to it.</p> <p>Pen Function</p> <ul style="list-style-type: none"> To use the Acer SmartPen, select "On" to activate this function. <p>Link Channel</p> <ul style="list-style-type: none"> Set a channel to differentiate between projectors and communicate with the Acer SmartPen. <p>Double Click Speed</p> <ul style="list-style-type: none"> Adjust the double click speed of your pen to make it response faster or slower to meet your needs. <p>Pairing</p> <ul style="list-style-type: none"> To pair a pen, select "Pairing" and follow the on-screen instructions. To release a pen, select "Release" and follow the on-screen instructions. <p>Information</p> <ul style="list-style-type: none"> Displays more information about smart pen such as battery capability and RF strength. <p>For more details, see the notes following this table.</p>
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.

Screen Capture	<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</p> <p>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". • Select "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.
Source Lock	<p>Selecting "On" enables the function and when switching input signals, you need to press "SOURCE" on the control panel or remote control, or the direct source key on the remote control. When this function is disabled, the projector will detect your source automatically.</p>
Closed Caption	<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>
VGA OUT (Standby)	<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> <div style="text-align: center;">  <p>.....</p> <p>Enabling this function slightly increases the standby power consumption.</p> </div>
Internal 5V (Standby)	<p>Selecting "On" enables the function. Both micro USB cable inside the projector and/or the DC 5V out/USB A port on the back of the projector can output 5V power when it is in standby mode.</p>
DC 5V OUT (Standby)	<div style="text-align: center;">  <p>.....</p> <p>Enabling this function slightly increases the standby power consumption.</p> </div>

Reset	Press  after choosing "Yes" to return the display parameters on all menus to the factory default settings.
Security	<p>Security This projector provides a useful security function for the administrator to manage the projector. 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.) 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.

Security	<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 displays.</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> <p>This function is set to "OFF" by default. If set to "ON", the startup screen is locked and cannot be changed by the "Startup Screen" and "Screen Capture" functions.</p>
LAN	<p>LAN</p> <p>The default value is "Off". Choose "On" to enable the LAN connection.</p> <p>LAN IP/Mask</p> <p>Identify IP and Mask address.</p> <p>LAN Reset</p> <p>Press  after choosing "Yes" to return all items on the Tools page to the default settings.</p>

<p>LAN/WiFi</p>	<p>LAN/WiFi The default value is "Off". Choose "On" to enable the LAN connection.</p> <p>LAN IP/Mask Identify IP and Mask address.</p> <p>LAN Reset Press  after choosing "Yes" to return all items on the Tools page to the default settings.</p>
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About LAN Setting

Note 1 : An overview of the remote network operation page



To switch input signals, click your desired signal.

See Note 2 and Note 3.

These buttons function the same as those on the OSD menus, projector control panel, or remote control.

Note 2 : An overview of the Tools page



You can enter the projector information.

You can adjust the LAN control settings.

You can set the user password/administrator password to prevent unauthorized use of the remote network operation/Tools page.

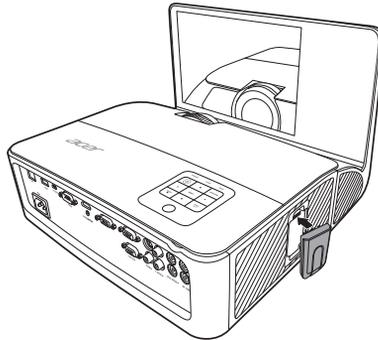
Note 3: The Info page shows the projector information and status.



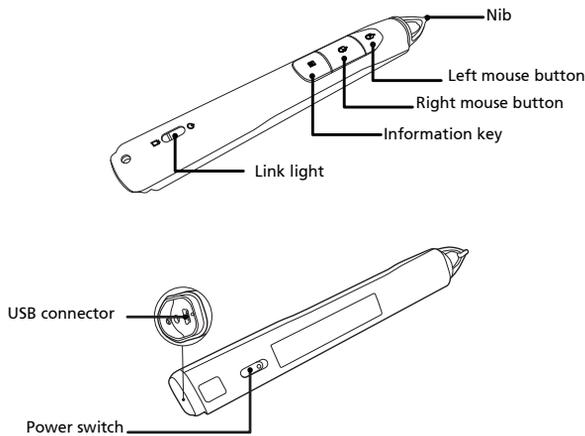
About Acer SmartPen Setting

Note 1: Preparations

1. Connect the projector and your computer with a USB cable and VGA cable.
2. Turn on your projector and make sure it is displaying the computer's image.
3. Plug the PB dongle to the PB dongle slot on the side of the projector.



4. Enable the pen by selecting "On" in the **Setting > SmartPen > Pen Function** menu. The pen's link light starts to blink.
5. Point the pen at the screen to point, click, and drag.

Note 2: Overview of the Acer SmartPen**Note 3:** Charging the battery

1. To charge the battery, open the flap on the back of the pen to expose the USB connector.
2. Take a USB cable, and connect the smaller end to the pen and the larger end to a computer. Make sure the computer is powered on.
3. The battery light stays on while the battery is charging. When charging is finished, the battery light is off. You can disconnect the USB cable or keep it connected.

Note 4: Other notes about using the pen

1. Avoid standing too far from the screen. The closer you are to the screen, the better performance the pen has.
2. Hold the pen the way you hold a remote control or a pen.
3. A full battery charge takes 3-4 hours and will allow 30 hours non-stop use. The battery is only rechargeable, and is not user serviceable or user replaceable.
4. Avoid shadows! The pen cannot work if its tip is in a shadow or it is pointing at a shadow.

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.
Turn Off Mode	<ul style="list-style-type: none"> Instant Off: Enables you to turn off the projector immediately without fan cooling process by pressing the power button twice. Instant Resume: Enables you to restart the projector immediately within 2 minutes after turning it off.
Auto Shutdown (Minutes)	The projector will automatically shut down while there is no signal input detected after the time you set.
AC Power On	Selecting "On" enables the function. The projector will automatically turn on when power is supplied via the power cord.
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 reset the lamp hour counter to 0 hours.

Audio

Volume	<ul style="list-style-type: none"> Press  to decrease the volume. Press  to increase the 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.

3D

3D	<p>Selects "On" to enable the 3D function supported by DLP 3D technology.</p> <ul style="list-style-type: none"> On: 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 the 3D mode.
3D Format	If the 3D content is not displayed correctly, you can select a 3D format that suits the 3D content you are viewing and obtain the best result.
24P 3D	Choose 96Hz or 144Hz for 24p 3D.
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	<p>Choose "On" to display the 3D warning message.</p> <div style="background-color: black; 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 off 3D 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: Supported 3D signal timings:

Signal source type	Supported timing
Video/S-Video/Component video	HQFS 3D (480i@60Hz), 576i@50Hz
VGA/HDMI (PC mode)	640 x 480@50/60/100/120Hz 800 x 600@50/60/100/120Hz 1024 x 768@50/60/100/120Hz 1280 x 800@50/60/100/120Hz (RB)
HDMI (Video mode)	HQFS 3D (480i@60Hz), 576i@50Hz, Frame Packing (1080p@23.98/24Hz, 720p@50/60Hz) Side-by-Side Horizontal (1080i@50/60Hz, 1080p@50/60Hz) Top-and-Bottom (720p@50/60Hz, 1080p@23.97/24Hz, 1080p@50/60Hz)
MHL 3D	Frame Sequential (1080p@24Hz)

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 the 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" and "3D Format" are only available when "3D" is enabled.

Language

Language	Sets a language for the OSD menus. Use   to select your preferred language.
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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 the projector is switched on.
2	Partial, scrolling or incorrectly displayed image (For PC (Windows 95/98/2000/XP/Win7/Vista))	<ul style="list-style-type: none"> • Press "SOURCE" 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 1600 x 1200 or 1920 x 1080. • 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 1600 x 1200 or 1920 x 1080. • 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 1600 x 1200 or 1920 x 1080.

3	Partial, scrolling or incorrectly displayed image (For notebooks)	<ul style="list-style-type: none"> • Press "SOURCE" 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"> • Adjust the focus ring on the projector lens. • Make sure the projection screen is within the required distance: U5220/R215/PU-X15: 1.9 to 3.7 feet (0.6 to 1.1 meters) U5320W/R225/PU-W15: 1.7 to 3.2 feet (0.5 to 1.0 meters) U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: 1.8 to 3.1 feet (0.6 to 0.9 meters) 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" > "H/V Keystone" or "Image" > "4 Corner Correction" 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="369 277 711 300">Fan Fail - the system fan is not working.</p> <div data-bbox="369 304 910 373" style="background-color: black; 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="369 387 910 491">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="369 501 910 569" style="background-color: black; color: white; padding: 5px; text-align: center;"> <p data-bbox="558 512 721 531">Projector Overheated.</p> <p data-bbox="500 536 779 555">Lamp will automatically turn off soon.</p> </div> <p data-bbox="369 576 877 620">Replace the lamp - the lamp is about to reach its maximum lifetime. Prepare to replace it soon.</p> <div data-bbox="369 627 910 695" style="background-color: black; color: white; padding: 5px; text-align: center;"> <p data-bbox="383 635 899 654">Lamp is approaching the end of its useful life in full power operation.</p> <p data-bbox="550 659 732 678">Replacement suggested!</p> </div>

LED & Alarm Definition Listing

LED Messages

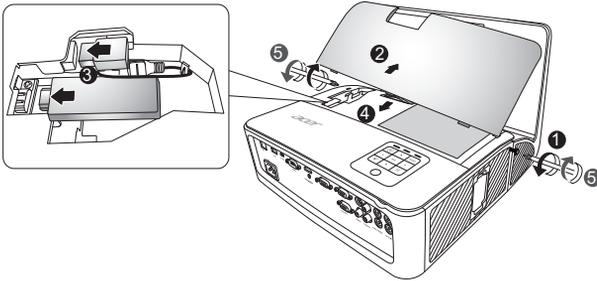
Message	Power LED		LAMP LED	TEMP LED
	Red	Blue	Red	Red
Standby (Power cord plugged in)	V	--	--	--
Power on	--	V	--	--
Lamp retry	--	Quick flashing	--	--
Turning off (Cooling state)	Quick flashing	--	--	--
Turning off (Cooling completed)	V	--	--	--
Error (Thermal failure)	--	V	--	V
Error (Fan lock failure)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

Using the Inner Connector(s)

Turn the projector off by pressing  (POWER). Allow the projector at least 45 minutes to cool down. Disconnect the power cord.

- 1 Use a screwdriver to remove the screw(s) from the cover. (Illustration #1)
- 2 Push up and remove the cover. (Illustration #2)
- 3 Locate the HDMI (MHL) connector and/or USB Type A connector beside the focus/zoom ring.
- 4 Insert the WirelessHD dongle into the HDMI (MHL) connector. Insert the USB connector WiFi adapter into the USB Type A connector. (Illustration #3)
- 5 A micro USB cable is also available if you need to power the HDMI/MHL dongle.

- 6 Replace the cover and tighten the screw(s). (Illustration #4 - #5)



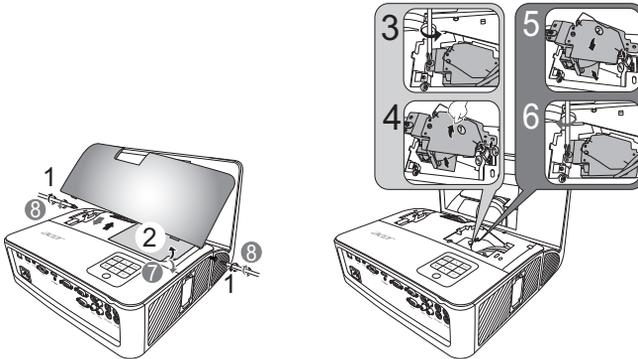
Replacing the Lamp

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 45 minutes before changing the lamp.



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



To remove the lamp:

Turn the projector off by pressing  (POWER). Allow the projector at least 45 minutes to cool down. Disconnect the power cord.

- 1 Use a screwdriver to remove the screw(s) from the cover. (Illustration #1)

- 2 Push up and remove the cover.
- 3 Remove the lamp protection film (Illustration #2).
- 4 Remove the screw that secures the lamp module (Illustration #3).
- 5 Disconnect the lamp connector from the projector. Lift the handle so that it stands up. Pull out the lamp module by force (Illustration #4).

To replace the lamp module, use a new lamp and reverse the above steps (Illustrations #⑤ - #⑥).



.....

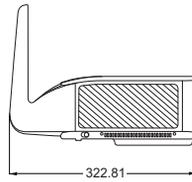
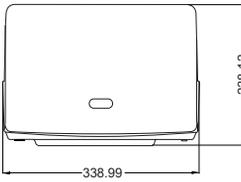
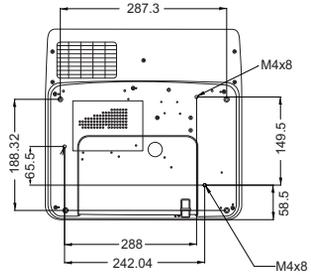
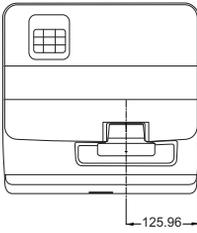
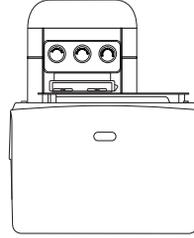
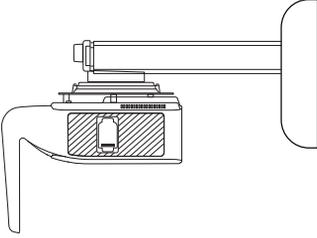
Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

Wall Mount Installation

For details, refer to the user manual enclosed with the wall mount kit (SWM04).



Warning: Ensure that only qualified service personnel install the projector.



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"> • U5220/R215/PU-X15: Native: XGA (1024 x 768) Maximum: UXGA (1600 x 1200), 1080p (1920 x 1080), WUXGA (1920 x 1200) (supports reduce blanking only) • U5320W/R225/PU-W15: Native: WXGA (1280 x 800) Maximum: UXGA (1600 x 1200), 1080p (1920 x 1080), WUXGA (1920 x 1200) (supports reduce blanking only) • U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: Native: 1080p (1920 x 1080) Maximum: WUXGA (1920 x 1200) (supports reduce blanking only)
Computer compatibility	Refer to the "Compatibility Modes" section for more information.
Video compatibility	NTSC (3.58/4.43), PAL (M/N), PAL 60, SECAM, HDTV (720p, 1080i, 1080p), EDTV (480p, 576p), SDTV (480i, 576i)
Aspect ratio	<ul style="list-style-type: none"> • U5220/R215/PU-X15: Auto, 4:3 (native), 16:9 • U5320W/R225/PU-W15: Auto, 4:3, 16:9, Full, Letter Box (L.Box) • U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: Auto, 4:3, 16:9, Full, Letter Box (L.Box)
Displayable colors	1.07 billion colors
Projection lens	F = 2.53, f = 5.38 mm, 1:1.0 Manual Zoom and Manual Focus
Projection screen size (diagonal) with clear focus	<ul style="list-style-type: none"> • U5220/R215/PU-X15: 60" (153 cm) - 120" (305 cm) • U5320W/R225/PU-W15: 63" (161 cm) - 120" (305 cm) • U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: 70" (179 cm) - 120" (305 cm)
Projection distance with clear focus	<ul style="list-style-type: none"> • U5220/R215/PU-X15: 1.9' (0.6 m) - 3.7' (1.1 m) • U5320W/R225/PU-W15: 1.7' (0.5 m) - 3.2' (1.0 m) • U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: 1.8' (0.6 m) - 3.1' (0.9 m)
Throw ratio (measured from mirror to screen)	<ul style="list-style-type: none"> • U5220/R215/PU-X15: 0.44 (78" ±3% @ 0.698m) • U5320W/R225/PU-W15: 0.35 (87" ±3% @ 0.658m) • U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: 0.34 (95" ±3% @ 0.708m)

Horizontal scan rate	31 - 99 KHz
Vertical refresh scan rate	23 - 120 Hz
Keystone correction	+/-15 Degrees (Horizontal & Vertical), Manual
Digital zoom	2 X
Audio	10W x 2
Weight	Approximate 5.5kg (12.13 lbs.)
Dimensions (W x D x H)	339 x 322.8 x 236.9 mm
Power supply	Universal AC input 100 - 240 V, input frequency 50/60 Hz
Power consumption (typical)	<ul style="list-style-type: none"> • U5220/R215/PU-X15/U5320W/R225/PU-W15: 390 W • U5520B/R245E/PU-815K/U5520i/R245R/PU-815F: 400 W
Operating temperature	0°C to 40°C / 32°F to 104°F
I/O connectors	<p>U5220/R215/PU-X15/U5320W/R225/PU-W15:</p> <ul style="list-style-type: none"> • Power socket x 1 • Mini USB x 1 • DC 5V OUT x 1 • VGA input x 2 • VGA output x 1 • Composite video x 1 • S-Video x 1 • HDMI (MHL) x 2 • RS232 x 1 • 3.5 mm audio jack input x 2 • 3.5 mm audio jack output x 1 • Audio input (R/L) x 1 • Microphone input x 1 • RJ45 LAN input x 1 • Micro USB cable x 1

U5520B/R245E/PU-815K/U5520i/R245R/PU-815F:

- Power socket x 1
- Mini USB x 1
- USB Type A x 2
- VGA input x 2
- VGA output x 1
- Composite video x 1
- S-Video x 1
- HDMI (MHL) x 2
- RS232 x 1
- 3.5 mm audio jack input x 2
- 3.5 mm audio jack output x 1
- Audio input (R/L) x 1
- Microphone input x 1
- RJ45 LAN input x 1
- Micro USB cable x 1

Standard package contents

- 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
- Wall mount kit x 1

Accessory (optional)

- Composite video cable x 1
 - Dust filter x 1
 - SmartPen x 1
 - PB dongle x 1
 - WirelessHD dongle kit x 1
 - USB WiFi adapter x 1
 - Acer Projector Multi-media (CD-ROM) x 1
 - Acer Projector Multi-media quick start guide 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	640 x 480	60	31.47
		72	37.86
		75	37.50
		85	43.27
		120	61.91
SVGA	800 x 600	56	35.20
		60	37.88
		72	48.08
		75	46.88
		85	53.67
		120	77.43
XGA	1024 x 768	60	48.36
		70	56.48
		75	60.02
		85	68.68
		120	98.96
SXGA	1152 x 864	70	63.85
		75	67.50
		85	77.10
	1280 x 1024	60	63.98
		72	76.97
		75	79.98
		85	91.15
QuadVGA	1280 x 960	60	60.00
	1280 x 960	75	75.00
SXGA+	1400 x 1050	60	65.32
UXGA	1600 x 1200	60	75.00
PowerBook G4	640 x 480	60	31.50
	640 x 480	66.6 (67)	35.00
	800 x 600	60	37.88
	1024 x 768	60	48.36
	1024 x 768	75	60.241
	1152 x 870	75	68.681

WXGA	1280 x 768	60	47.78
	1280 x 768	75	60.29
	1280 x 768	85	68.63
	1280 x 720	60	45.00
	1280 x 800	60	49.70
	1280 x 800 - RB	120	101.6
	1440 x 900	60	55.94
	1680 x 1050	60	65.29
	1366 x 768	60	47.71
	1920 x 1080-RB	60	66.60
	1920 x 1080-EIA	60	67.50
	1024 x 600	60	37.50
	1920 x 1200-RB	59.95	74.04

2 HDMI - PC Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA_60	640 x 480	59.94	31.469
VGA_72		72.809	37.861
VGA_75		75	37.5
VGA_85		85.008	43.269
VGA_120		119.518	61.91
SVGA_56	800 x 600	56.25	35.156
SVGA_60		60.317	37.879
SVGA_72		72.188	48.077
SVGA_75		75	46.875
SVGA_85		85.061	53.674
SVGA_120		119.854	77.425
XGA_60	1024 x 768	60.004	48.363
XGA_70		70.069	56.476
XGA_75		75.029	60.023
XGA_120		119.804	98.958
SXGA_75	1152 x 864	75	67.5
SXGA_85		84.99	77.094
SXGA_60	1280 x 1024	60.02	63.981
SXGA_72		72	76.97
SXGA_75		75.025	79.976
SXGA_85		85.024	91.146
QuadVGA_75	1280 x 960	75	75

SXGA+_60	1400 x 1050	59.978	65.317
UXGA_60	1600 x 1200	60	75
Mac G4	640 x 480@60Hz	59.94	31.469
MAC13	640 x 480@67Hz	66.667	35
Mac G4	800 x 600@60Hz	60.317	37.879
Mac G4	1024 x 768@60Hz	60.004	48.363
MAC19	1024 x 768@75Hz	75.02	60.241
MAC21	1152 x 870@75Hz	75.061	68.681
WXGA_60	1280 x 768	59.87	47.776
WXGA_75		74.893	60.289
WXGA_85		84.837	68.633
WXGA_60	1280 x 720	60	45
WXGA_60	1280 x 800	59.81	49.702
WXGA_120-RB	1280 x 800	119.909	101.563
WXGA+_60	1440 x 900	59.887	55.935
1680x1050_60	1680 x 1050	59.954	65.29
acer_16:9	1366 x 768	59.79	47.712
1920 x 1080_RB	1920 x 1080	60	66.587
1920 x 1080_EIA	1920 x 1080	60	67.5
acer_timing	1024 x 600	60	37.5
1920 x 1200-RB	1920 x 1200	59.95	74.038

3 HDMI - Video Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
480i	720 x 480 (1440 x 480)	60	15.73
480p	720 x 480	60	31.47
576i	720 x 576 (1440 x 576)	50	15.63
576p	720 x 576	50	31.25
720p	1280 x 720	60	45.00
720p	1280 x 720	50	37.50
1080i	1920 x 1080	60	33.75
1080i	1920 x 1080	50	28.13
1080p	1920 x 1080	60	67.50
1080p	1920 x 1080	50	56.26
1080p	1920 x 1080	24	27.00
1080p	1920 x 1080	23.98	26.97

4 MHL - Video Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
480i	720 x 480 (1440 x 480)	60	15.73
480p	720 x 480	60	31.47
576i	720 x 576 (1440 x 576)	50	15.63
576p	720 x 576	50	31.25
720p	1280 x 720	60	45.00
720p	1280 x 720	50	37.50
1080i	1920 x 1080	60	33.75
1080i	1920 x 1080	50	28.13
1080p	1920 x 1080	24	27.00
1080p	1920 x 1080	23.98	26.97
1080p	1920 x 1080	30	33.75

5 YPbPr 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

6 Video, S-Video Signal

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



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, 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.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

Declare under our own responsibility that the product:

Product: DLP Projector
Trade Name: Acer
Model Number: U5220/R215/PU-X15/QNX1421/U5320W/R225/PU-W15/QWX1422/
U5520B/R245E/PU-815K/U5520i/R245R/PU-815F/Q1P1423 series

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

- EN55022:2010 Class B; EN 55024:2010
- EN61000-3-2:2006+A1:2009+A2:2009, Class A
- EN61000-3-3:2008
- EN 60950-1:2006/A11:2009/A1:2010+A12:2011
- Regulation (EC) No. 1275/ 2008; EN 62301:2005
- EN50581:2012

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 and 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 2015.

RU Jan/Sr. Manager
Regulation Center, Acer Inc.

Jan. 16, 2015 -
Date


Acer America Corporation

 333 West San Carlos St.,
 Suite 1500

 San Jose, CA 95110
 U. S. A.

Tel: 254-298-4000

Fax: 254-298-4147

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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:	QNX1421/QWX1422/Q1P1423 series
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