# Acer Projector H7550ST/E155S/HE-815ST/H1P1403/ H7550STz/H7550BD/E155D/HE-815J/ H1P1406/H7550BDz Series User's Guide

# 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

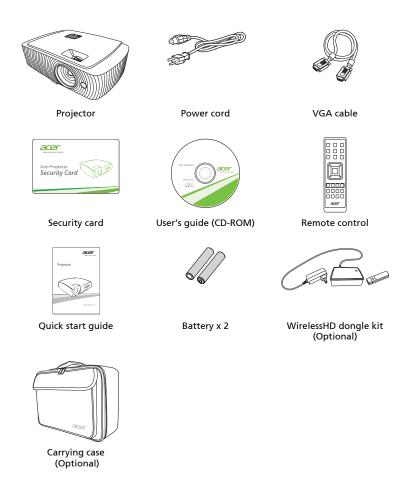
### **Product Features**

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

- DLP<sup>®</sup> technology
- 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 and Nvidia 3DTV Play Ready
- Enriches 3D experience for 2D contents via 2D to 3D convert function
- 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<sup>®</sup> Windows<sup>®</sup> 2000, XP, 7, 8, 8.1, Vista<sup>®</sup>, Macintosh OS compliant
- Built-in 20W speaker
- DTS sound effect

# **Package Overview**

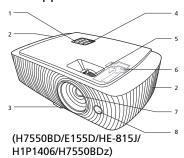
This projector comes with all the items shown below. Check to make sure you have them all. Contact your dealer immediately if any thing is missing.

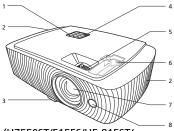


# **Projector Overview**

# **Projector Outlook**

## Front/upper side

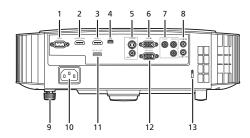




(H7550ST/E155S/HE-815ST/ H1P1403/H7550STz)

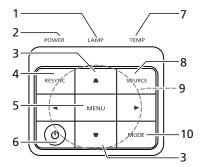
#	Description	#	Description
1	Control panel	5	Focus ring and Zoom ring
2	Speaker	6	HDMI (MHL) connector Micro USB cable
3	Elevator button	7	Projection lens
4	Power key and Power indicator LED	8	Remote control receiver

### Rear side



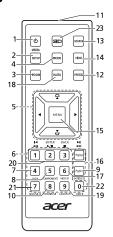
#	Description	#	Description
1	RS232 connector	8	Audio input connector
2	HDMI (MHL) connector		Audio output connector
3	HDMI connector	9	Tilt adjusting wheel
4	Mini USB connector	10	Power socket
5	S-Video input connector	11	DC 5V out
	Composite video input connector	12	Monitor loop-through
6	Analog RGB signal/HDTV/component		output connector
	video input connector		
7	Component Video inputs	13	Kensington™ lock port

# **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 (±40 degrees).
4	RESYNC	Automatically synchronizes the projector to the input source.
5	MENU	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
6	Power key	Refer to the "Turning the Projector On/Off" section.
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	MODE	Chooses a display mode.

# **Remote Control Layout**





#	Function	Description			
1	POWER	Refer to the "Turning the Projector On/Off" section.			
2	MEDIA SETUP	(No function)			
3	ZOOM	Zooms the projector display in or out.			
4	MODE	Chooses a display mode.			
5		Adjusts image distortion caused by tilting projection (±40 degrees).			
	Four directional selection keys	Selects items or makes adjustments to your selection.			
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.			

#	Function	Description
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.
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  ►/II 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.

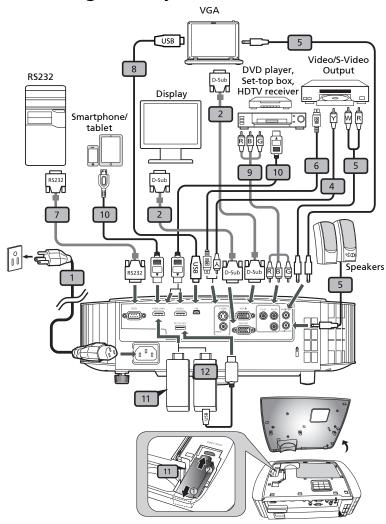
### **MHL Feature Introduction**

When your smart device is connected to the projector, you can use some buttons on the remote control to control your smart device. 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.

				Description				
#	Function		Function Naviga		Media mode	Numeric mode		
4	MODI	E		J ,	g press for one second to enter or leave the L control mode.			
13	SOUR	CE		After entering the MHL control mode, press to switch between the navigation mode (default), media mode and numeric mode.				
5	, <b>A</b> ,	Four	Up	Up	(No function)	(No function)		
	<b>~</b>	directional do		down	(No function)	(No function)		
	select key	select keys	Left	Left	Decreases the volume.	(No function)		
	Ri		Right	Right	Increases the volume.	(No function)		
6	Keypa	ad 0~9		(No function)	(No function)	Enters 0~9.		
15	MENU		Goes to the root menu.	(No function)	(No function)			
20	ı <b>⊲⊲</b> Ro	ewind		(No function)	Rewinds/Plays/	Enters 1.		
	►/II Pl	►/II Play/Pause  ■ Stop		Selects or enters items.	Pauses/Stops/ Fast-forwards	Enters 2.		
	■ St			Exits current page.	the playing	Enters 3.		
	<b>▶►</b> I Fa	ast-forward		(No function)	media files.	(No function)		

# **Getting Started**

# **Connecting the Projector**



#	Description	#	Description
1	Power cord	7	RS232 cable
2	VGA cable	8	USB cable
3	VGA to component video/HDTV adapter	9	3 RCA component cable
4	Composite video cable	10	HDMI (MHL) cable

#	Description	#	Description
5	Audio cable	11	WirelessHD dongle
6	S-Video cable	12	Wireless dongle



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

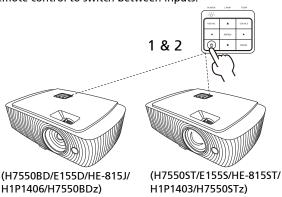
**Note:** Some smart devices require a converter (supplied by the smart device maker) to enable the MHL function.

**Note**: Compatible HDMI/MHL dongles: WirelessHD, MWA3, Android. Chromecast<sup>TM</sup>.

# 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 (1) (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.



- "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**

# Adjusting the Height of the Projected Image

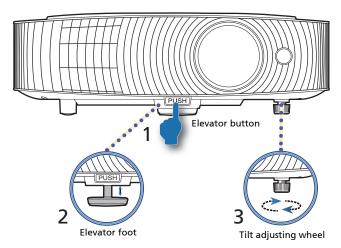
The projector is equipped with two elevator feet for adjusting the image height.

### To raise the image:

- 1 Press the elevator button.
- 2 Raise the image to the desired height angle, then release the button to lock the elevator foot into position.
- 3 Use the rear Tilt adjusting wheel to fine-tune the display angle.

### To lower the image:

- Press the elevator button.
- 2 Lower the image to the desired height angle, then release the button to lock the elevator foot into position.
- 3 Use the rear Tilt adjusting wheel to fine-tune the display angle.



# How to Optimize Image Size and Distance

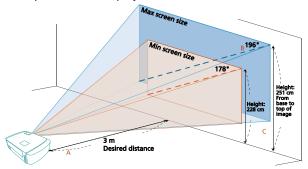
Consult the table below to find the optimal image sizes achievable when the projector is positioned at a desired distance from the screen.

H7550ST/E155S/HE-815ST/H1P1403/H7550STz

If the projector is 3 m from the screen, good image quality is possible for image sizes between 178" and 196".



**Note:** Remind as below figure, the space of 251 cm height is required when the projector is located at 3 m distance.



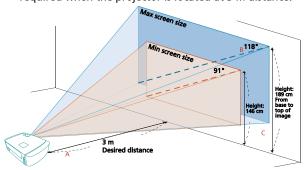
Desired	Minim	um Screen Size (	Min zoom)	Maxim	um Screen Size (	Max zoom)
Distance (m) < A >	Diagonal (inch) < <b>B</b> >	W (cm) x H (cm)	From base to top of image (cm) < C >	Diagonal (inch) < <b>B</b> >	W (cm) x H (cm)	From base to top of image (cm) < C >
1	59	132 x 74	76	65	145 x 82	84
1.5	89	197 x 111	114	98	217 x 122	125
2	119	263 x 148	152	131	290 x 163	167
2.5	149	329 x 185	190	164	362 x 204	209
3	178	395 x 222	228	196	435 x 245	251
3.5	208	461 x 259	266	229	507 x 285	292
4	238	526 x 296	303	262	580 x 326	334
4.5	267	592 x 333	341	295	652 x 367	376
5	297	658 x 370	379	327	725 x 408	418
6	357	789 x 444	455	393	870 x 489	501
7	416	921 x 518	531	458	1014 x 571	585
8	475	1053 x 592	607	524	1159 x 652	668
9	535	1184 x 666	683	589	1304 x 734	752
10	594	1316 x 740	759	655	1449 x 815	836
11	654	1447 x 814	834	720	1594 x 897	919
12	713	1579 x 888	910	786	1739 x 978	1003

Zoom Ratio: 1.1 x

• H7550BD/E155D/HE-815J/H1P1406/H7550BDz If the projector is 3 m from the screen, good image quality is possible for image sizes between 91" and 118".



**Note:** Remind as below figure, the space of 189 cm height is required when the projector is located at 3 m distance.



Desired	Minimum Screen Size (Min zoom)			Maximum Screen Size (Max zoom)			
Distance (m) < A >	Diagonal (inch) < <b>B</b> >	W (cm) x H (cm)	From base to top of image (cm) < C >	Diagonal (inch) < <b>B</b> >	W (cm) x H (cm)	From base to top of image (cm) < C >	
1	30	67 x 38	48	39	87 x 49	62	
1.5	45	100 x 56	72	59	130 x 73	94	
2	61	133 x 75	98	79	174 x 98	126	
2.5	76	167 x 94	122	98	217 x 122	157	
3	91	200 x 113	146	118	261 x 147	189	
3.5	106	233 x 131	170	137	304 x 171	219	
4	121	267 x 150	194	157	348 x 196	251	
4.5	136	300 x 169	218	177	391 x 220	283	
5	152	333 x 188	243	196	435 x 245	314	
6	182	400 x 225	291	236	522 x 293	378	
7	212	467 x 263	339	275	609 x 342	440	
8	242	533 x 300	387	314	696 x 391	502	
9	273	600 x 338	437	354	783 x 440	566	
10	303	667 x 375	485	393	870 x 489	629	
11	333	733 x 413	533	432	957 x 538	691	
12	364	800 x 450	582	471	1043 x 587	754	

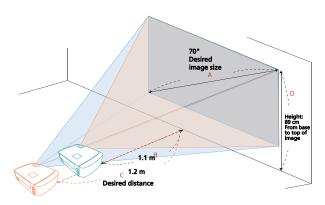
Zoom Ratio: 1.3 x

# 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.

H7550ST/E155S/HE-815ST/H1P1403/H7550STz

To obtain an image size of 70", set the projector at a distance between 1.1 m and 1.2 m from the screen and adjust the zoom level accordingly.

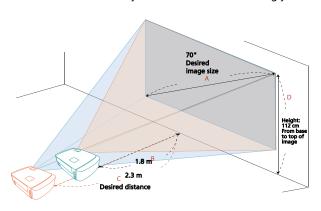


Desired I	mage Size	Distan	ice (m)	Top (cm)
Diagonal (inch) < <b>A</b> >	W (cm) x H (cm)	Max zoom < <b>B</b> >	Min zoom < <b>C</b> >	From base to top of image < <b>D</b> >
30	66 x 37		0.5	38
40	89 x 50	0.6	0.7	51
50	111 x 62	0.8	0.8	64
60	133 x 75	0.9	1.0	77
70	155 x 87	1.1	1.2	89
80	177 x 100	1.2	1.3	102
90	199 x 112	1.4	1.5	115
100	221 x 125	1.5	1.7	128
120	266 x 149	1.8	2.0	153
150	332 x 187	2.3	2.5	191
180	398 x 224	2.7	3.0	230
200	443 x 249	3.1	3.4	255
250	553 x 311	3.8	4.2	319
300	664 x 374	4.6		383

Zoom Ratio: 1.1 x

### H7550BD/E155D/HE-815J/H1P1406/H7550BDz

To obtain an image size of 70" set the projector at a distance between 1.8 m and 2.3 m from the screen and adjust the zoom level accordingly.



Desired In	mage Size	Distan	ce (m)	Top (cm)
Diagonal (inch) < <b>A</b> >	W (cm) x H (cm)	Max zoom < <b>B</b> >	Min zoom < <b>C</b> >	From base to top of image < <b>D</b> >
30	66 x 37		1.0	48
40	89 x 50	1.0	1.3	64
50	111 x 62	1.3	1.6	80
60	133 x 75	1.5	2.0	96
70	155 x 87	1.8	2.3	112
80	177 x 100	2.0	2.6	128
90	199 x 112	2.3	3.0	144
100	221 x 125	2.5	3.3	160
120	266 x 149	3.1	4.0	192
150	332 x 187	3.8	4.9	240
180	398 x 224	4.6	5.9	288
200	443 x 249	5.1	6.6	320
250	553 x 311	6.4	8.2	400
300	664 x 374	7.6		480

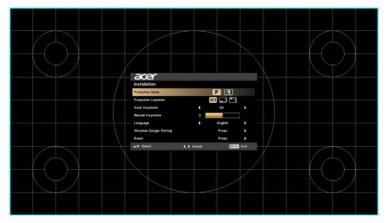
Zoom Ratio: 1.3 x

# **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" is displayed on the screen.

- 1 Turn on the projector by pressing (1) (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

	There are many factory presets optimized for various types of images.
	Bright: For brightness optimization.
	Standard: For common environment.
Display Mode	Movie: For brighter and general movie/video/photo playing.
	Dark Cinema: For dark movie content.
	Game: For game content.
	Sport: For sport picture.
	User: Memorize user's settings.
Wall Color	Use this function to choose a proper color according to the wall. There are several choices, including White, Light Yellow, Light Blue, Pink and Dark Green. It will compensate for the color deviation due to the wall color to show the correct image tone.
Brightness	Adjusts the brightness of the image.
	Press  to darken the image.
	• Press • to lighten the image.
Contrast	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.
	• Press ( to decrease the contrast.
	Press to increase the contrast.
	Adjusts a video image from black and white to fully saturated colors.
Saturation	<ul> <li>Press  to decrease the amount of color in the image.</li> </ul>
	• Press • to increase the amount of color in the image.
	Adjusts the color balance of red and green.
Tint	<ul> <li>Press  to increase the amount of green in the image.</li> </ul>
	• Press <b>()</b> to increase the amount of red in the image.

Г		
Color Temperature	Adjusts the color temperature. At higher color temperatures, the screen looks colder; at lower color temperatures, the screen looks warmer.	
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.	
	Ind. Color Management: Adjusts the red, green, blue, cyan, yellow and magenta colors.	
	• - Ind. Hue: Changes the hue of the color selected.	
	<ul> <li>Ind. Saturation: Adjusts a video image from black and white to fully saturated color.</li> </ul>	
	Ind. Gain: Adjusts the contrast levels.	
	Brilliant Color: Produces an expanded on-screen color spectrum that delivers enhanced color saturation for bright, true-to-life images. This feature is "On" by default.	
Advanced	White Peaking: Increases the brightness of whites that are near 100%. (Video sources only)	
	Film Mode: Sets the image optimized to 24-frame True Film mode for more realistic cadence of film playback during motion sequences.	
	Noise Reduction: Adjusts the level of noise reduction that helps to eliminate unwanted noise in the picture.	
	Black Extension: Analyzes the current input image and calculates an offset value which is then added to the analog to digital converter black level value. This ensures optimum black level for each analog source.	



 $\mbox{\bf Note: "} \mbox{\bf Saturation", "Tint" and "Advanced" functions are not supported under computer mode.$ 

# lmage

Projection	Front: The factory default setting.
Mode	Rear: Reverses the image so you can project from behind a translucent screen.
	Auto: Automatically adjusts projection location of image.
Projection Location	• 🔟 Desktop
	Ceiling: Turns the image upside down for ceiling- mounted projection.
	Use this function to choose your desired aspect ratio.
	<ul> <li>Auto: Keeps the image with original width-height ratio and maximizes the image to fit native horizontal or vertical pixels.</li> </ul>
Aspect Ratio	<ul> <li>Full: The image will be displayed making full use of the horizontal and vertical pixels.</li> </ul>
	<ul> <li>4:3: The image will be scaled to fit the screen and displayed using a 4:3 ratio.</li> </ul>
	16:9: The image will be scaled to fit the screen and displayed using a 16:9 ratio.
	<ul> <li>L.Box: Keeps the original signal aspect ratio and zooms in by 1.333 times.</li> </ul>
Auto Keystone	Automatically adjusts image distortion caused by tilting projection (±40 degrees).
Manual Keystone	Manually adjusts image distortion caused by tilting projection (±40 degrees).
	(g)
	This function is unavailable when Auto Keystone is set to "On".
	Adjusts the sharpness of the image.
Sharpness	Press  to decrease the sharpness.
	Press to increase the sharpness.
H. Position (Horizontal	Press  to move the image left.
Position)	Press  to move the image right.

V. Position (Vertical Position)	<ul> <li>Press  to move the image down.</li> <li>Press  to move the image up.</li> </ul>
Frequency	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.
Tracking	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.
	Adjusts the color range of the HDMI image data to prevent color display error.
HDMI Color Range	<ul> <li>Auto: Automatically adjusts the color range by information from the player.</li> </ul>
	Limited Range: Processes the input image as limited color range data.
	Full Range: Processes the input image as full color range data.
	Adjusts the overscan ratio of the HDMI image on screen.
HDMI Scan Info	<ul> <li>Auto: Automatically adjusts the overscan ratio by information from the player.</li> </ul>
	• 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:** "Sharpness" function is not supported under computer mode.

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

# **Setting**

	Use this function to select your desired startup screen. If you change the setting, it will take effect when you exit the OSD menu.		
Startup Screen	Acer: The default startup screen of your Acer projector		
	<ul> <li>User: Use the memorized picture from the "Screen Capture" function.</li> </ul>		

Screen Capture	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.  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.  Change the "Startup Screen" from the default setting "Acer" to "User".  Select "Screen Capture" to customize the startup screen.
	<ul> <li>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).</li> </ul>
	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	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.
Closed Caption	Selects a preferred closed captioning mode from CC1, CC2, CC3, CC4 (CC1 displays captions in the primary language in your area). Select "Off" to turn off the captioning feature. This function is only available when a composite video or S-Video input signal is selected and its system format is NTSC.
VGA OUT (Standby)	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.  Enabling this function slightly increases the standby
	power consumption.  Selecting "On" enables the function. Both micro USB cable
DC 5V Out (Standby)	inside the projector and the DC 5V out port on the back of the projector can output 5V power when it is in standby mode.  Enabling this function slightly increases the standby power consumption.
Reset	Press  after choosing "Yes" to return the display parameters on all menus to the factory default settings.

### 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, your must enter "Administrator Password" first before changing the security setting.



The factory default of "Administrator Password" is "1234".

 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.

### Security

 If "Off" is selected, you can switch on the projector without password.

### Timeout (Min.)

Once "Security" is set to "On", you can set timeout function.

- 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.

### User Password

- 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.

### Administrator Password

### Security

You can enter "Administrator Password" when the "Enter Administrator Password" or "Enter Password" dialogue box displays.

- Press ( ) to change "Administrator Password".
- The factory default of "Administrator Password" is "1234".

If you forget your administrator password, do the following to retrieve the administrator password:

- 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.

### Lock User Startup Screen

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.

# 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> <li>Instant Off: Enables you to turn off the projector immediately without fan cooling process by pressing the power button twice.</li> </ul>	
	<ul> <li>Instant Resume: Enables you to restart the projector immediately within 2 minutes after turning it off.</li> </ul>	
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> <li>Press to decrease the volume.</li> <li>Press to increase the volume.</li> </ul>	
Volume Boost	Selecting "On" enables the function. The volume will be magnified.	
DTS	Selecting "On" enables the function. Stereo enhancement will improve dynamic audio performance.	
Treble	Adjusts treble level.	
Bass	Adjusts bass level.	

	Bluetooth: Selecting "On" enables the function.	
	Device Search: Press  to search for available	
BT Speaker Connection	devices. Select a device in the list of found devices. The projector will automatically try to connect to the last connected device the next time you enable the Bluetooth function.	
Mute	Choose "On" to turn mute on.	
Widte	Choose "Off" to turn mute off.	
Power On/Off Volume	Select this function to adjust the notification volume when turning the projector on/off.	
Alarm Volume	Select this function to adjust the volume of any warning notifications.	

# 3D

	Selects "On" to enable the 3D function supported by DLP 3D	
	technology.	
3D	<ul> <li>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.</li> </ul>	
	Off: Turns off the 3D mode.	
	<ul> <li>2D to 3D: Converts 2D contents to 3D. Note that DLP 3D glasses are required to obtain the best 3D effect.</li> </ul>	
	<ul> <li>Mode: Provides several preset 2D to 3D conversion modes for your selection. You can also select User and use the "Convergence" and "Depth" functions described below to setup your customized conversion mode.</li> </ul>	
2D to 3D	<ul> <li>Convergence: Changes the convergence effect that is used when converting 2D contents to 3D.</li> </ul>	
	Depth: Adjusts the image depth of 3D objects.	
	<b>6</b>	
	"Depth" and "Convergence" are only available when "Mode" is set to "User".	
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.	
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).	
24P 3D	Choose 96Hz or 144Hz for 24p 3D.	
3D Warning Message	Choose "On" to display the 3D warning message.  Note: 3D display is now enabled.  1 Please make sure you have the correct 3D signals and glasses.  2 Remember to turn 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.	



**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)

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.

# **Appendices**

# Troubleshooting

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

### **Image Problems and Solutions**

#	Problem	Solution
1	No image appears onscreen	<ul> <li>Make sure all the cables are correctly connected as described in the "Getting Started" section.</li> <li>Ensure none of the connector pins are bent or broken.</li> <li>Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section.</li> <li>Make sure the projector is switched on.</li> </ul>
2	Partial, scrolling or incorrectly displayed image (For PC (Windows 95/98/2000/XP/ Win7/Vista))	Press "RESYNC" on the control panel or remote control.  Tor an incorrectly displayed image:  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.  If the problem still appears, change the monitor display you are using and follow the steps below:  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> <li>Press "RESYNC" on the control panel or remote control.</li> <li>For an incorrectly displayed image:         <ul> <li>Follow the steps for item 2 (above) to adjust the resolution of your computer.</li> <li>Press the toggle output settings. Example:</li></ul></li></ul>
4	The screen of the notebook computer is not displaying your presentation	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	Use "Tracking" to correct it. Refer to the "Image"
	or flickering	section for more information.  Change the display color setting on your computer.
6	Image has vertical flickering bar	<ul> <li>Use "Frequency" to make an adjustment. Refer to the "Image" section for more information.</li> </ul>
		<ul> <li>Check and reconfigure the display mode of your graphics card to make it compatible with the projector.</li> </ul>
7	Image is out of	Adjust the focus ring on the projector lens.
	focus	Make sure the projection screen is within the required distance:
		H7550ST/E155S/HE-815ST/H1P1403/H7550STz: 3.0 to 15.0 feet (0.9 to 4.6 meters)
		H7550BD/E155D/HE-815J/H1P1406/H7550BDz: 4.9 to 19.7 feet (1.5 to 6 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	<ul> <li>When you play a DVD encoded in anamorphic or 16:9 aspect ratio you may need to adjust the following settings:</li> <li>If you play a 4:3 format DVD title, please change the format to 4:3 with the projector OSD.</li> <li>If the image is still stretched, you will also need to adjust the aspect ratio. Set up the display format to 16:9 (wide) aspect ratio on your DVD player.</li> </ul>
9	Image is too small or too large	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	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" > "Auto Keystone" or "Image" > "Manual Keystone" to make adjustments.
11	Image is reversed	Select "Image" > "Projection Mode", "Image" >     "Projection Location" 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	Fan Fail - the system fan is not working.
		Fan Fail. Lamp will automatically turn off soon.
		Projector Overheated - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it is used. Please also check the dust filters if they are installed. If the dust filter is clogged with dust, please clean it.
		Projector Overheated.  Lamp will automatically turn off soon.
		Replace the lamp - the lamp is about to reach its maximum lifetime. Prepare to replace it soon.
		Lamp is approaching the end of its useful life in full power operation.  Replacement suggested!

# **LED & Alarm Definition Listing**

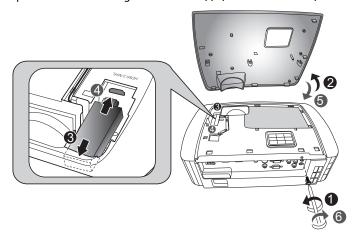
### **LED Messages**

Message	Powe	r 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 beside the focus/zoom ring.
- 4 Put the bottom of the WirelessHD dongle (optional accessory) or other HDMI/MHL dongle into the projector first (Illustration #3) and then insert the WirelessHD dongle into the HDMI (MHL) connector. (Illustration #4)
- 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 #5 #6)



### Replacing the Lamp

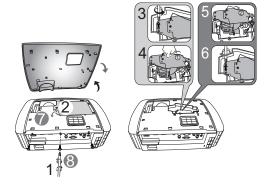
Use a screwdriver to remove the screw(s) from the cover, and then pull out the lamp.

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 - #0).

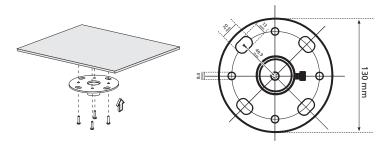


**Warning:** To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

### **Ceiling Mount Installation**

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

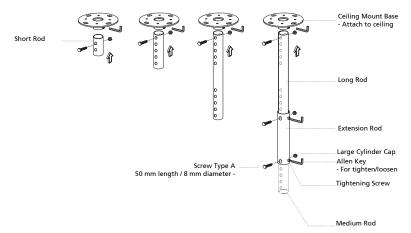
1 Drill four holes into a solid, structurally sound part of the ceiling, and secure the mount base.



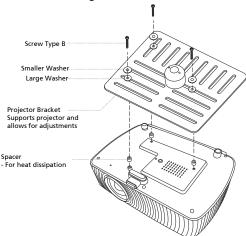


**Note:** Screws are not included. Please obtain the appropriate screws for your type of ceiling.

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



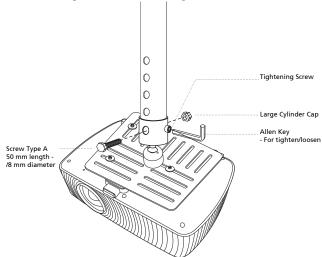
3 Use the appropriate number of screws for the projector size to attach the projector to the ceiling mount bracket.



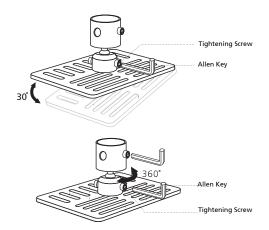


**Note:** It is recommended that you keep a reasonable space between the bracket and the projector to allow for proper heat distribution. Use two washers for extra support, if deemed necessary.

4 Attach the ceiling bracket to the ceiling rod.



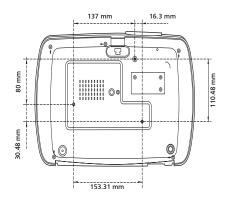
5 Adjust the angle and positioning as necessary.





**Note:** The appropriate type of screw and washer for each model is listed in the table below. 4 mm diameter screws are enclosed in the screw pack.

Screw Type B		Washer Type	
Diameter (mm)	Length (mm)	Large	Small
4	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 <sup>™</sup>
Resolution	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	Auto, 4:3, 16:9, Full, Letter Box
Displayable colors	1.07 billion colors
Projection lens	<ul> <li>H7550ST/E155S/HE-815ST/H1P1403/H7550STz: F</li> <li>= 2.6 - 2.78, f = 10.20 mm - 11.22 mm, 1:1.1</li> <li>Manual Zoom and Manual Focus</li> </ul>
	<ul> <li>H7550BD/E155D/HE-815J/H1P1406/H7550BDz: F = 2.59 - 2.87, f = 16.88 mm - 21.88 mm, 1:1.3 Manual Zoom and Manual Focus</li> </ul>
Projection screen size (diagonal) with clear focus	<ul> <li>H7550ST/E155S/HE-815ST/H1P1403/H7550STz:</li> <li>60" (91 cm) - 120" (183 cm)</li> </ul>
	• H7550BD/E155D/HE-815J/H1P1406/H7550BDz: 60" (153 cm) - 180" (460 cm)
Projection distance with clear focus	<ul> <li>H7550ST/E155S/HE-815ST/H1P1403/H7550STz: 3.0' (0.9 m) - 15.0' (4.6 m)</li> <li>H7550BD/E155D/HE-815J/H1P1406/H7550BDz: 4.9' (1.5 m) - 19.7' (6 m)</li> </ul>
Throw ratio	<ul> <li>H7550ST/E155S/HE-815ST/H1P1403/H7550STz: 95"±3% @ 1.44 m (0.69 - 0.76)</li> <li>H7550BD/E155D/HE-815J/H1P1406/H7550BDz: 95"±3% @ 2.43 m (1.15 - 1.5)</li> </ul>
Horizontal scan rate	31 - 99 KHz
Vertical refresh scan rate	23 - 120 Hz
Keystone correction	+/-30 Degrees (Vertical and horizontal), Manual & Auto
Digital zoom	2 X
Audio	10W x 2
Weight	Approximate 3.0 kg (6.61 lbs.)
Dimensions (W x D x H)	356 x 241 x 103 mm (11.7' x 7.9' x 3.4')
Power supply	Universal AC input 100 - 240 V, input frequency 50/60 Hz
Power consumption (typical)	325 W
Operating temperature	0°C to 40°C / 32°F to 104°F

I/O connectors	Power socket x 1
	• USB x 1 (Type mini B)
	VGA input x 1
	VGA output x 1
	Composite video x 1
	• S-Video x 1
	<ul> <li>Component Video (Y/Cb/Cr, Y/Pb/Pr) x 1</li> </ul>
	• RS232 x 1
	HDMI (MHL) x 2
	• HDMI x 1
	<ul> <li>3.5 mm audio jack input x 1</li> </ul>
	• 3.5 mm audio jack output x 1
Standard package contents	AC power cord x 1
	VGA cable x 1
	Remote control x 1
	<ul> <li>Battery x 2 (for the remote control)</li> </ul>
	<ul> <li>User's guide (CD-ROM) x 1</li> </ul>
	Quick start guide x 1
	Security card x 1
Accessory (optional)	Composite video cable x 1
	Carrying case x 1
	WirelessHD dongle kit x 1

<sup>\*</sup> Design and specifications are subject to change without notice.

## **Compatibility Modes**

### 1 VGA Analog - PC Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]	
		60	31.47	
		72	37.86	
VGA	640 x 480	75	37.50	
		85	43.27	
		120	61.91	
		56	35.20	
		60	37.88	
S) (C A	000 600	72	48.08	
SVGA	800 x 600	75	46.88	
		85	53.67	
		120	77.43	
		60	48.36	
		70	56.48	
XGA	1024 x 768	75	60.02	
		85	68.68	
		60 72 75 85 120 56 60 72 75 85 120 60 70 75	98.96	
		70	70	63.85
	1152 x 864	75	67.50	
		85	77.10	
SXGA		60	63.98	
	4200 4024	72	76.97	
	1280 x 1024	75	79.98	
		85	91.15	
O IV (C. A	1280 x 960	60	60.00	
QuadVGA	1280 x 960	75	75.00	
SXGA+	1400 x 1050	60	65.32	
UXGA	1600 x 1200	60	75.00	
	640 x 480	60	31.50	
	640 x 480	66.6 (67)	35.00	
DDIC-4	800 x 600	60	37.88	
PowerBook G4	1024 x 768	60	48.36	
	1024 x 768	75	60.241	
_	1152 x 870	75	68.681	

	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
WXGA	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		59.94	31.469
VGA_72		72.809	37.861
VGA_75	640 x 480	75	37.5
VGA_85		85.008	43.269
VGA_120		119.518	61.91
SVGA_56		56.25	35.156
SVGA_60		60.317	37.879
SVGA_72	000 600	72.188	48.077
SVGA_75	800 x 600	75	46.875
SVGA_85		85.061	53.674
SVGA_120		119.854	77.425
XGA_60		60.004	48.363
XGA_70	1024 x 768	70.069	56.476
XGA_75	1024 X 708	75.029	60.023
XGA_120		119.804	98.958
SXGA_75	1152 x 864	75	67.5
SXGA_85	1132 X 804	84.99	77.094
SXGA_60		60.02	63.981
SXGA_72	1280 x 1024	72	76.97
SXGA_75	1200 X 1024	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		59.87	47.776
WXGA_75	1280 x 768	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 x1080	60	66.587
1920 x 1080_EIA	1920 x1080	60	67.5
acer_timing	1024 x 600	60	37.5
1920 x 1200-RB	1920 x 1200	59.95	74.038
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### 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