

Acer Projector

K135/K135P/K135S/L221/LK-W12/
K132/L221F/LK-W12L Series
User's Guide

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

Precautions

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



Warning:

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

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Introduction

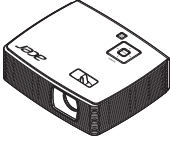
Product Features

This product is a single-chip DLP® projector. Outstanding features include:

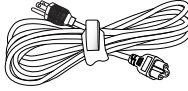
- DLP® technology
- 1280 x 800 WXGA resolution
4:3/16:9/Full/L.Box aspect ratio supported.
- Versatile display modes (Bright, Standard, Movie, Picture, Game, User) enable optimum performance in any situation.
- Compact size projector facilitates business purposes and home entertainment.
- Acer EcoProjeciton Technology delivers Intelligent power management approach and physical efficiency improvement.
- Equipped with HDMI™ connection supporting HDCP.
- Advanced digital keystone correction delivers optimum presentations.
- Multi-language on screen display (OSD) menus.
- 1.7x digital zoom and pan move function.
- Environmental light source and longer life by LED solution.
- Enjoy media playback via USB, RAM and Micro SD card reader. (for K135/K135P/K135S/L221/LK-W12 only)
- Microsoft® Windows® 2000, XP, Vista®, Windows® 7, Windows® 8, Macintosh® OS compliant.
- Support MHL V1.2 signal display.

Package Overview

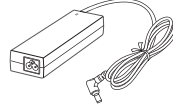
This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if any thing is missing.



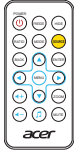
Projector



Power cord



AC to DC power adapter



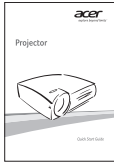
Remote control
(for K132/L221F/LKW12L
series only)



Battery



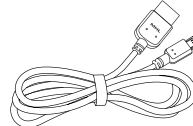
User's guide



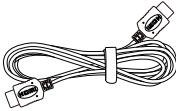
Quick start guide



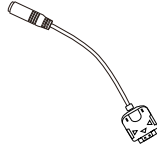
Carrying case



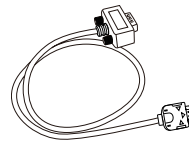
MHL cable (option)



HDMI cable (option)



Universal to Audio out
adapter (option)



Universal to D-sub cable
(option)

Below items are for K135/K135P/K135S/L221/LK-W12 only:



User's guide
(for multi-media and
wireless functions)



Quick start guide
(for multi-media and
wireless functions)



Remote control

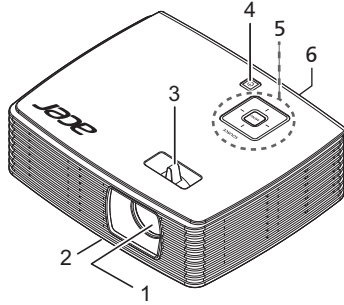


USB WiFi adapter
(option)

Projector Overview

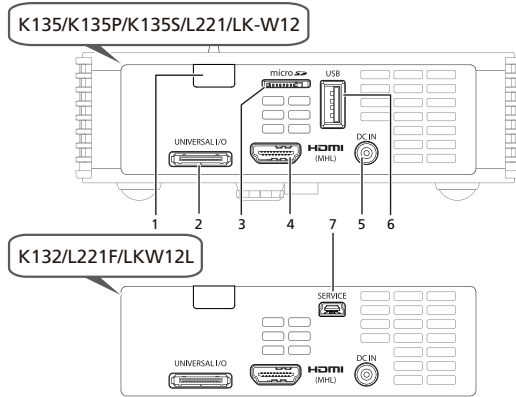
Projector Outlook

Front / upper side



#	Description	#	Description
1	Projection lens	4	Power button
2	Tilt adjusting wheel	5	Control panel
3	Focus ring	6	Remote control receiver

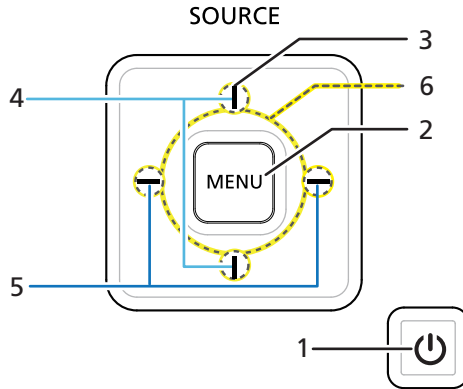
Rear side








#	Description	#	Description
1	Remote control receiver	5	DC Input
2	Universal connector for VGA in/ Audio out connector	6	USB connector

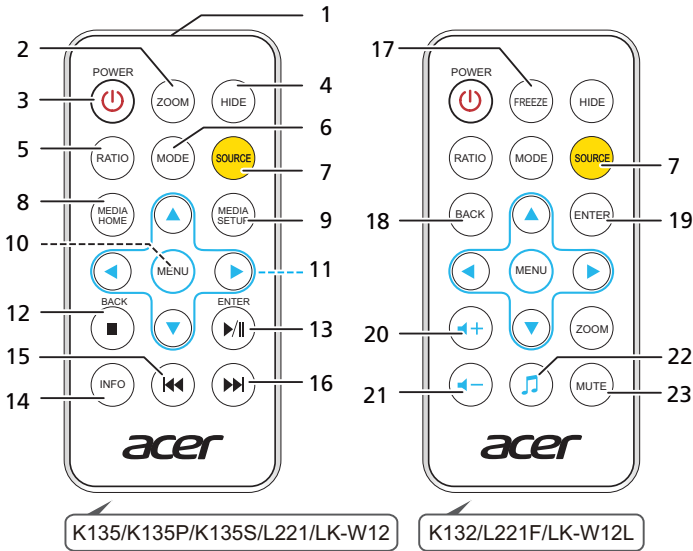
#	Description	#	Description
3	MicroSD Card Slot	7	Mini USB connector
4	HDMI/ MHL connector		

Control Panel











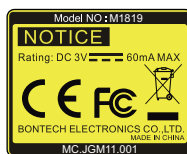
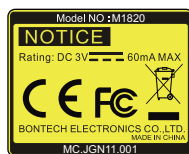
#	Icon	Function	Description
1		POWER	Power button and Power Indicator LED. See the contents in " Turning the Projector On/Off " section.
2		MENU	Press " MENU " to launch the Onscreen display (OSD) menu, back to the previous step for the OSD menu operation or exit the OSD menu.
3		SOURCE	Changes the active source.
4		LAMP	Lamp Indicator LED
5		TEMP	Temp Indicator LED
6		Four directional select keys	Use the keys to select items or make adjustments to your selection.

Remote Control Layout



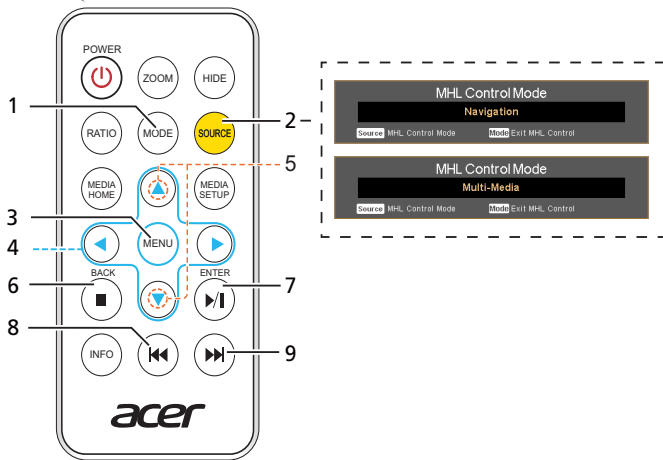
#	Icon	Function	Description
1		Infrared transmitter	Sends signals to the projector.
2	ZOOM	Zoom	Zooms the projector display in or out.
3	POWER	Power	Refer to the " Turning the Projector On/Off " section.
4	HIDE	Hide	Momentarily turns off the video. Press " HIDE " to hide the image, press again to display the image.
5	RATIO	Aspect ratio	Choose the desired aspect ratio (Auto, Full, 4:3, 16:9, L.Box)
6	MODE	Mode	Press " MODE " to select the display mode from Bright, Standard, Movie, Picture, Game and User.
7	SOURCE	Source	Changes the active source.
8	MEDIA HOME	Media home	Press to return to the Home page of Media mode.
9	MEDIA SETUP	Media setup	Press to enter media OSD setting.
10	MENU	Menu	Press " MENU " to launch the Onscreen display (OSD) menu, back to the previous step for the OSD menu operation or exit the OSD menu.
11	Four directional select keys	Four directional select keys	Use up, down, left, right buttons to select items or make adjustments to your selection.
12	BACK	Back/Stop	Press " Back/Stop " to stop playing media file or go back to upper data folder.
13	ENTER	Enter/ Play/ Pause	Press " Enter/ Play/ Pause " to enter/ play/ pause media file.
14	INFO	Information	To display the projector information.
15	PREVIOUS	Previous	Press to previous the media file.

#	Icon	Function	Description
16		Next	Press to the next media file.
17		Freeze	To pause the screen image.
18		Back	No function.
19		Enter	No function.
20		Volume up	Increases the volume.
21		Volume down	Decreases the volume.
22		Music	No function.
23		Mute	To turn on/off the volume.

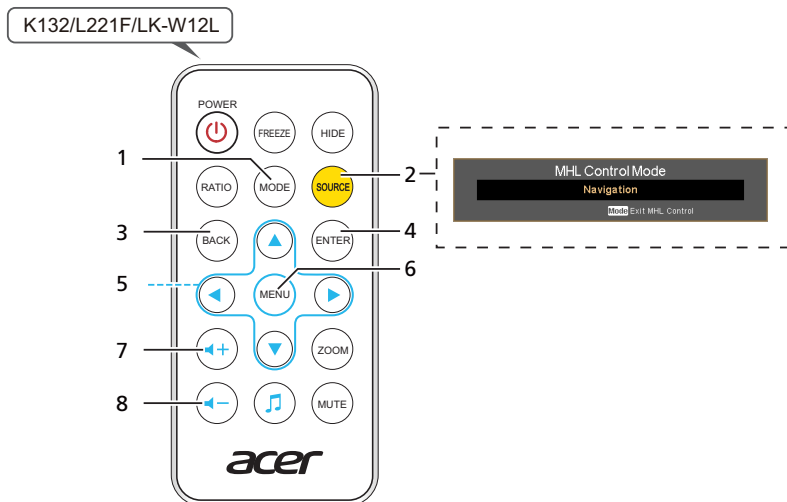


MHL (Mobile High-Definition Link) Control

K135/K135P/K135S/L221/LK-W12



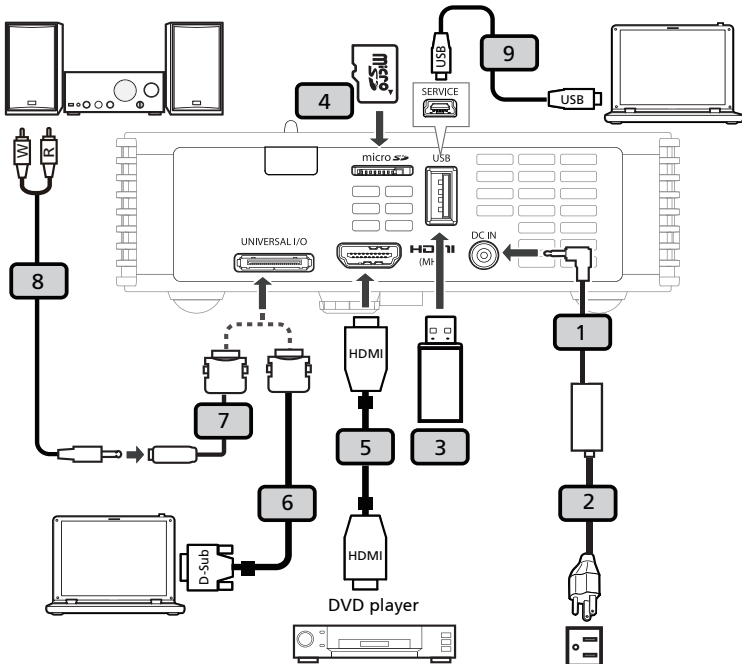
#	Icon	Component	Description
1		MODE	<ul style="list-style-type: none"> Press "MODE" button for one second to activate the MHL Control Mode. To exit, press the "MODE" button again.
2		SOURCE	Press the "SOURCE" button to toggle between Navigation or Multi-Media mode.
3		MENU	Press to launch the root menu. (only for Navigation mode)
4		Direction Keys	Use up, down, left, right buttons to select items or make adjustments to your selection. (only for Navigation mode)
5		Volume Up/ Volume Down	Increases/Decreases the volume. (only for Multi-Media mode)
6		Exit	To exit the file. (only for Navigation mode)
		Stop	To stop the file. (only for Multi-Media mode)
7		Select/Enter	To select the file. (only for Navigation mode)
		Play/Pause	Toggles between playback and pause. (only for Multi-Media mode)
8		Backward	Scans backward during the file playback. (only for Multi-Media mode)
9		Forward	Scans forward through the file playback. (only for Multi-Media mode)



#	Icon	Component	Description
1		MODE	<ul style="list-style-type: none"> Press "MODE" button for one second to activate the MHL Control Mode. To exit, press the "MODE" button again.
2		SOURCE	Press the "SOURCE" button to toggle Navigation mode.
3		Exit	To exit the file.
4		Select/Enter	Press to select/enter the file.
5		Direction Keys	Use up, down, left, right buttons to select items or make adjustments to your selection.
6		MENU	Press to launch the root menu.
7		Volume Up	Press to increase the volume.
8		Volume Down	Press to decreases the volume.

Getting Started

Connecting the Projector



#	Description	#	Description
1	AC to DC power adapter	6	Universal to D-sub cable
2	Power cord	7	Universal to Audio out adapter
3	USB disk/stick USB WiFi adapter	8	Audio cable Jack/RCA
4	Micro SD card	9	USB cable
5	HDMI cable		



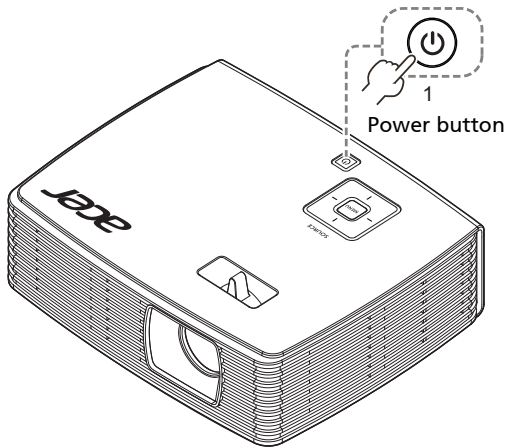
Note: To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with the projector.

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

Turning the Projector On/Off

Turning on the Projector

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



Turning the projector off

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



Warning indicators:

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



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

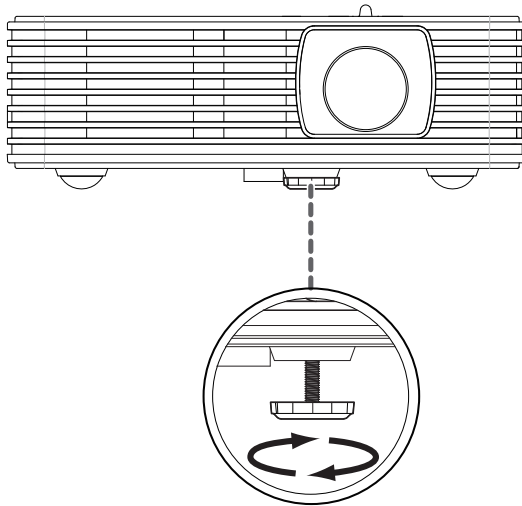
Adjusting the Projected Image

Adjusting the Height of Projected Image

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

To raise/lower the image:

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



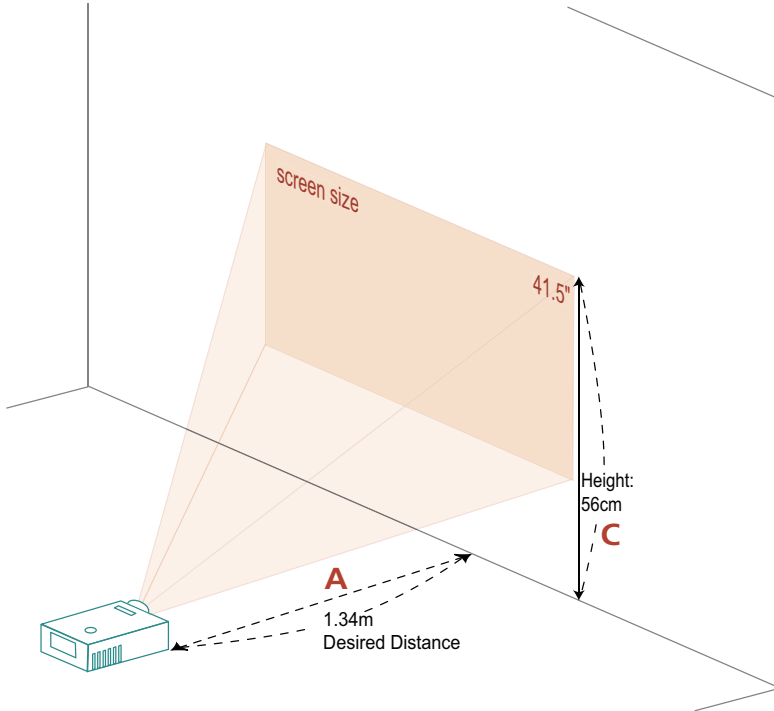
Tilt adjusting wheel

How to optimize image size and distance

Consult the table below to find the optimal image sizes achievable when the projector is positioned at a desired distance from the screen. Example: If the projector is 1.34 m from the screen, good image quality is possible for image sizes 41.5".



Note: Remind as below figure, the space of 56 cm height is required when located at 1.34 m distance.



Desired Distance (m) <A>	Screen size		Top
	(Min zoom)		
	Diagonal (inch) 	W (cm) x H (cm)	From base to top of image (cm) <C>
0.97	30.0	64 x 40	40
1.07	33.2	71 x 45	45
1.34	41.5	89 x 56	56
1.61	49.7	107 x 67	67
2.14	66.3	143 x 89	89
2.58	80.0	172 x 108	108

Zoom Ratio: 1.0x

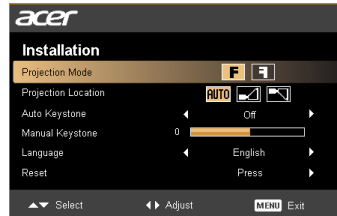
User Controls

Installation menu

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

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

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



- 3 The background pattern acts as a guide to adjusting the calibration and alignment settings, such as screen size and distance, focus and more .
- 4 The Installation menu includes the following options:

- Projection Mode
- Projection Location
- Auto Keystone settings
- Manual Keystone settings
- Language settings
- Reset to factory default function

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

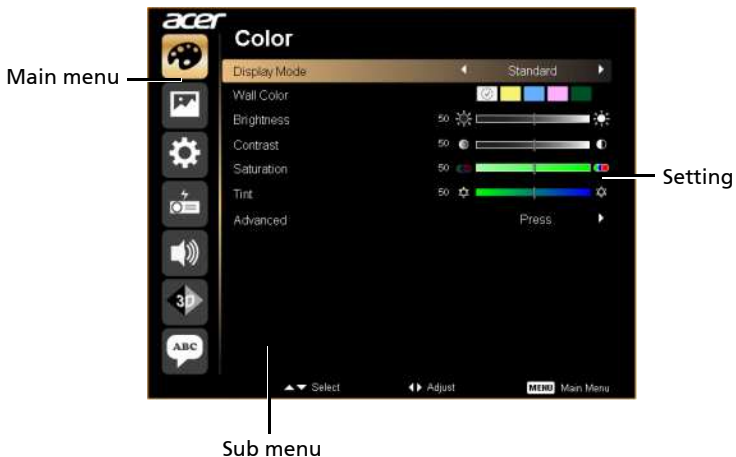
- 5 Push the menu button anytime to exit the menu and return to the Acer welcome screen.

Onscreen Display (OSD) Menus

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

Using the OSD menu


- To open the OSD menu, press **"MENU"** on the remote control.
- When the OSD is displayed, use the \uparrow \downarrow keys to select any item in the main menu. After selecting the desired main menu item, press \rightarrow to enter submenu for feature setting.
- Use the \uparrow \downarrow keys to select the desired item and adjust the settings by using the \leftarrow \rightarrow keys.
- Select the next item to be adjusted in the submenu and adjust as described above.
- Press **"MENU"** on the remote control, the screen will return to the main menu.
- To exit OSD, press **"MENU"** on the remote control again. The OSD menu will close and the projector will automatically save the new settings.



Color



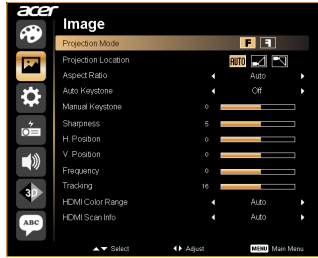
Display Mode	<p>There are many factory presets optimized for various types of images.</p> <ul style="list-style-type: none"> • Bright: For brightness optimization. • Standard: For common environment. • Movie: For brighter and general movie/video/photo playing. • Picture: For graphic picture. • Game: For game content. • User: Memorize user's settings.
Wall color	<p>Use this function to choose a proper color according to the wall. There are several choices, including white, light yellow, light blue, pink, dark green. It will compensate the color deviation due to the wall color to show the correct image tone.</p>
Brightness	<p>Adjust the brightness of the image.</p> <ul style="list-style-type: none"> • Press ◀ to darken image. • Press ▶ to lighten the image.
Contrast	<p>"Contrast" controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.</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 color.</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.





<p>Advanced</p> 	<p>Color Temperature Adjust the color temperature. At higher color temperatures, the screen looks colder; at lower color temperatures, the screen looks warmer.</p> <p>Degamma Effects the representation of dark scenery. With greater gamma value, dark scenery will look brighter.</p> <p>Dynamic Black Choose "On" to automatically optimize the display of dark movie scenes enabling them to be shown in incredible detail.</p>
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Note: "Saturation" and "Tint" functions are not supported under computer mode or HDMI mode.

Image



<p>Projection Mode</p> 	<ul style="list-style-type: none"> • Front: The factory default setting. • Rear: Reverses the image so you can project from behind a translucent screen.
<p>Projection Location</p> 	<ul style="list-style-type: none"> • Auto: Automatically adjusts projection location of image. • Desktop • Ceiling: Turns the image upside down for ceiling-mounted projection.
<p>Aspect Ratio</p> 	<p>Use this function to choose your desired aspect ratio.</p> <ul style="list-style-type: none"> • Auto: Keep the image with original width-highth ratio and maximize the image to fit native horizontal or vertical pixels. • 4:3: The image will be scaled to fit the screen and displayed using a 4:3 ratio. • 16:9: The image will be scaled to fit the width of the screen and the height adjusted to display the image using a 16:9 ratio. • Full: Resize image to fit full screen by width (1280 pixels) and height (800 pixels). • L.Box: Keep original signal aspect ratio and zoom in by 1.333 times.
<p>Auto Keystone</p>	<p>Automatically adjusts vertical image.</p>
<p>Manual Keystone</p>	<p>Adjust image distortion caused by tilting projection. (±40 degrees)</p>  <p><Note> The Manual Keystone function is unavailable under Auto Keystone setting to "On".</p>
<p>Sharpness</p>	<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	<ul style="list-style-type: none"> ● Press ◀ to move the image left. ● Press ▶ to move the image right.
V. Position	<ul style="list-style-type: none"> ● Press ▼ to move the image down. ● Press ▲ to move the image up.
Frequency	"Frequency" changes the projector's refresh rate to match the frequency of your computer's graphics card. If you can see a vertical flickering bar in the projected image, use this function to make the necessary adjustments.
Tracking	Synchronizes the signal timing of the projector with the graphics card. If you experience an unstable or flickering image, use this function to correct it.
HDMI Color Range	Adjust the color range of the HDMI image data to correct color display error. <ul style="list-style-type: none"> ● Auto: Automatically adjust by information from player. ● Limited Range: Process the input image as limited color range data. ● Full Range: Process the input image as full color range data.
HDMI Scan Info	Adjust the overscan ratio of the HDMI image on screen. <ul style="list-style-type: none"> ● Auto: Automatically adjust by information from player. ● Underscan: Always no overscan on HDMI image. ● Overscan: Always keep overscan on HDMI image.



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

Note: "Sharpness" functions is not supported under HDMI (RGB) or Computer mode.

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


Setting



Menu Location	Choose the menu location on the display screen.
Reset	Press the  button and choose "Yes" to return the parameters on all menus to the factory default settings.

Management



ECO Mode	Choose "On" to dim the projector lamp which will lower power consumption, extend the lamp life and reduce noise. Choose "Off" to return normal mode.
High Altitude	Choose "On" to turn on High Altitude mode. Operate the fans at full speed continuously to allow for proper high altitude cooling of the projector.
Turn Off Mode	<ul style="list-style-type: none"> Instant Off: Shuts down the projector without fan cooling. Instant Resume: Resumes the system when the Power button is pressed again within 2 minutes.
Auto Shutdown	The projector will automatically shutdown when there is no signal input after the allocated time. (default is 120 minutes)
LED Calibration	Press  after choosing "Yes", please wait for 10 seconds to finish the white color fine tune process. It helps to adjust LED color performance.

Audio



Volume	<ul style="list-style-type: none"> Press ◀ to decrease the volume. Press ▶ to increase the volume.
Mute	<ul style="list-style-type: none"> Choose "On" to mute the volume. Choose "Off" to restore the volume.
Alarm Volume	<ul style="list-style-type: none"> Select this function to adjust the volume of any warning notifications.
Audio Out	<ul style="list-style-type: none"> Choose "Speaker" to play sound through the projector's speaker.(internal) Choose "Audio Jack " to play sound from your headphone or audio amplifier. (external)

3D



3D	<p>Choose "On" to enable DLP 3D function.</p> <ul style="list-style-type: none"> On: Choose this item while using DLP 3D glasses, quad buffer (NVIDIA/ATI...) graphic card and HQFS format file or DVD with corresponding SW player. Off: Turn off 3D mode.
3D Sync Invert	<p>If you see a discrete or overlapping image while wearing DLP 3D glasses, you may need to execute "Invert" to get best match of left/right image sequence to get the correct image (for DLP 3D).</p>

3D Warning Message	<p>Choose "On" to display the 3D warning message.</p> <div style="background-color: black; color: white; padding: 5px;"> <p>Note: 3D display is now enabled.</p> <ol style="list-style-type: none"> 1. Please make sure you have the correct 3D signals and glasses. 2. Remember to turn 3D off if you don't want to see 3D images. 3. If the 3D display isn't correct, please try to enable 3D Sync Invert. 4. Display mode options will be disabled while in 3D mode. </div>
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Note: It needs correct settings on graphic card 3D application program for correct 3D display.

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

- Stereoscopic Player (Trial): http://www.3dtv.at/Downloads/Index_en.aspx
 - DDD TriDef Media Player (Trial):

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

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

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

Language



Language	<p>Choose the multilingual OSD menu. Use the ▲ or ▼ key to select your preferred menu language.</p> <ul style="list-style-type: none"> ● Press ► to confirm the selection.
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Appendices

Troubleshooting

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

Image Problems and Solutions

#	Problem	Solution
1	No image appears onscreen	<ul style="list-style-type: none"> • Connected as described in the "Getting Started" section. • Ensure none of the connector pins are bent or broken. • Make sure the projector is switched on.
2	Partial, scrolling or incorrectly displayed image (For PC (Windows 95/98/2000/XP/Vista/Win7/Win 8))	<ul style="list-style-type: none"> • For an incorrectly displayed image: <ul style="list-style-type: none"> • Open "My Computer," open the "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 1080P-EIA. • Click the "Advanced Properties" button. • If the problem still appears, change the monitor display you are using and follow the steps below: <ul style="list-style-type: none"> • Verify that the resolution setting is lower than or equal to 1080P-EIA. • Click the "Change" button under the "Monitor" tab. • Click "Show all devices". Next, select "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 1080P-EIA.

3	Partial, scrolling or incorrectly displayed image (for notebooks)	<ul style="list-style-type: none"> • 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"> • Adjust the "Tracking" to correct it. Refer to the "Image" section for more information. • Change the display color depth settings 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"> • Adjusts the focus ring on the projector lens. • Make sure the projection screen is within the required distance of 3.18-8.46 feet (0.97-2.58 meters) from the projector. Refer to the "How to Get a Preferred Image Size by Adjusting Distance and Zoom" section for more information.
8	Image is stretched when displaying a "widescreen" DVD title	<p>When you play a DVD encoded in anamorphic or 16:9 aspect ratio you may need to adjust the following settings:</p> <ul style="list-style-type: none"> • If you play a 4:3 format DVD title, please change the format to 4:3 in 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. • If you play an Letterbox(LBX) format DVD title, please change the format to Letterbox(LBX) in the projector OSD.

9	Image is too small or too large	<ul style="list-style-type: none"> • Adjust the zoom ring on the top of the projector. • Move the projector closer to or further from the screen. • Press "MENU" on the remote control or on the control panel. 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. • Press the "Keystone" on the OSD until the sides are vertical.
11	Image is reversed	<ul style="list-style-type: none"> • Select "Image --> Projection Mode" 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.

OSD Messages

#	Condition	Message Reminder
1	Message	<p data-bbox="369 277 714 300">Fan Fail - the system fan is not working.</p> <div data-bbox="358 320 921 384" style="background-color: black; color: white; text-align: center; padding: 5px;"> <p data-bbox="547 335 743 371">Fan Fail. Will automatically turn off soon</p> </div> <p data-bbox="369 405 907 469">Projector Overheated - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it may be used.</p> <div data-bbox="358 489 921 553" style="background-color: black; color: white; text-align: center; padding: 5px;"> <p data-bbox="555 499 754 536">Projector Overheated. Will automatically turn off soon</p> </div>

LED & Alarm Definition Listing

LED Messages

Message	Menu	Lamp (UP/Down LED)	Temp (Left/Right LED)	Power LED	Power LED
	BLUE	BLUE	BLUE	RED	BLUE
Input Power Plug	---	Flash On to OFF 100ms	Flash On to OFF 100ms	Flash On to OFF 100ms	---
Standy by	---	---	---	ON	---
Power button on	ON 1sec then off	ON 1sec then off	ON 1sec then off	---	ON
Lamp retry	---	---	---	---	Quick Flashing
Power button OFF; Standby Mode)	---	---	---	ON	---
Error (Thermal fail)	---	---	ON	---	ON
Error (Fan Lock)	---	---	Quick Flashing	---	ON
Error (Lamp Break down)	---	ON	---	---	ON



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Note: When power on, click any key, Menu/Up/Down/Left/Right key LED will all be trigger.

Specifications

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

Projection system	DLP®
Resolution	WXGA (1280 x 800)
Computer compatibility	IBM PC and compatibles, Apple Macintosh, iMac and VESA standards: SXGA, XGA, SVGA, VGA, WXGA
Aspect ratio	Full, 4:3, 16:9, L.Box
Displayable colors	16.7 million colors
Projection lens	YM101, fixed lens, F/2.0
Projection screen size (diagonal)	30" (0.76 m) - 80" (2.03 m)
Projection distance	3.18' (0.97 m) - 8.46' (2.58 m)
Throw ratio	40" @ 1.292 m (1.5:1)
Horizontal scan rate	30 k - 100 kHz
Vertical refresh scan rate	50 - 120 Hz
Keystone correction	+/- 40 degrees
Weight	K135/K135P/K135S/L221/LK-W12: 0.43 Kg (0.95 lbs) K132/L221F/LK-W12L: 0.415 Kg (0.92 lbs)
Dimensions (W x D x H)	140 mm x 116 mm x 41 mm (5.51" x 4.57" x 1.61")
Power supply	AC 100 – 240 V, 50-60 Hz
Power consumption	Normal mode: 55 W +/- 20% @ 110 Vac (Bright mode @ full power) ECO mode: 45 W +/-20% @ 110 Vac (Movie mode @ eco power) Standby < 0.5 W
Operating temperature	5 °C to 40 °C / 41 °F to 104 °F
I/O connectors	<ul style="list-style-type: none"> • DC input x1 • Micro SD x1 (for K135/K135P/K135S/L221/LK-W12 only) • USB x1: for multimedia (for K135/K135P/K135S/L221/LK-W12 only) • Mini USB x1 (for K132/L221F/LK-W12L only) • HDMI (MHL) x1 • Universal input x1

Standard package contents

- Power cord x1
 - Remote control x1
 - Battery x1 (for remote control)
 - User's guide (CD-ROM) x1 (for projector function)
 - User's guide (CD-ROM) x1 (for multi-media and wireless functions) (for K135/K135P/K135S/L221/LK-W12 only)
 - Quick start guide x1 (for projector function)
 - Quick start guide x1 (for multi-media and wireless functions) (for K135/K135P/K135S/L221/LK-W12 only)
 - Carrying case x1
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* Design and specifications are subject to change without notice.

Compatibility modes

A. VGA Analog

1 VGA Analog - PC Signal

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	640x480	120	61.9
SVGA	800x600	56	35.1
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
	800x600	120	77.4
XGA	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
	1024x768	120	99.0
SXGA	1152x864	70	63.8
	1152x864	75	67.5
	1152x864	85	77.1
	1280x1024	60	64.0
	1280x1024	72	77.0
QuadVGA	1280x1024	75	80.0
	1280x960	60	60.0
	1280x960	75	75.2
SXGA+	1400x1050	60	65.3
PowerBook G4	640x480	60	31.4
PowerBook G4	640x480	66.6 (67)	34.9
PowerBook G4	800x600	60	37.9
PowerBook G4	1024x768	60	48.4
PowerBook G4	1152x870	75	68.7
PowerBook G4	1280x960	75	75.0
i Mac DV (G3)	1024x768	75	60.0

2 VGA Analog - Extended Wide timing

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

3 VGA Analog - Component Signal

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

B. HDMI Digital

1 HDMI - PC Signal

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	640x480	120	61.9
	SVGA	800x600	56
800x600		60	37.9
800x600		72	48.1
800x600		75	46.9
800x600		85	53.7
800x600		120	77.4

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

2 HDMI - Extended Wide timing

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

3 HDMI - Video Signal

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