Acer Projector
FL8610/LU-P950UT/FL950/ PF-L950UT/LP-620/DL710/ AWU1907/FL8620/LU-P1000UT/FL1000/PF-L1000UT/LP-630/DL720/ AWU1906/FL8630/LU-P1200UT/FL1200/PF-L1200UT/LP-640/DL730/ AWU1905
Series User's Guide

Acer Projector

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

HIGH-DEFINITION MULTIMEDIA INTERFACE

Information for Your Safety and Comfort

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

Turning the product off before cleaning

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

Caution for plug as disconnecting device

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

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

Caution for Accessibility

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

Warnings!

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

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

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

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

Using electrical power

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

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

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

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord is equivalent to the original supplied power cord. Please contact your local dealer or Acer service center for details.

Product servicing

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

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

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

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

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

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

Additional safety information

- Do not look into the lens while the light source is on. The strong light from the light source may cause damage to your eyesight.
RG2 IEC 62471-5:20151
- Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire. If you want to temporarily stop the projected image, use the Blank key on the remote control.
- Do not remove any screws. Do not block or cover the vents.
- Do not look into the lens. (For USA and Canada only).
- Laser aperture warning: (For USA and Canada only).
  - CLASS 3R LASER PRODUCT-AVOID DIRECT EYE EXPOSURE
  - Do not look into the light source using optical instruments (such as magnifying glasses and mirrors). Visual impairment could result.
  - When turning on the projector, make sure no one within projection range is

looking at the lens.

- Keep any items (magnifying glass etc.) out of the light path of the projector. The light path being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause an unpredictable outcome such as a fire or injury to the eyes.
- Laser aperture warning: (For other countries).
  - CLASS 1 LASER PRODUCT - RISK GROUP 2
  - Do not stare into the beam, maybe harmful to the eyes.
- Risk group 3: (Except USA and Canada) This projector may become RG3 when an interchangeable lens with throw ratio greater than the number stated on the label.
  - As with any bright light source, do not stare into the beam. RG2 IEC 62471-5:2015
  - No direct exposure to the beam shall be permitted. RG3 IEC 62471-5:2015
  - Operators shall control access to the beam within the hazard distance or install the product at the height that will prevent spectators' eyes from being in the hazard distance.

  - Hazard distance
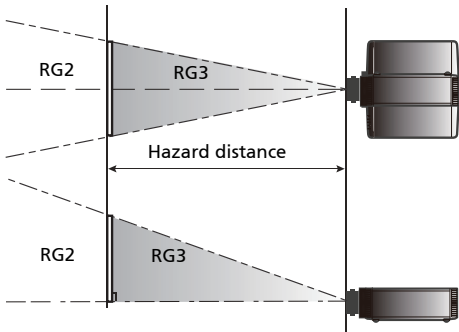
Type name of lens	Throw ratio	Hazard distance	IEC62471-5:2015
Acer FL8 series Ultra Short Throw Lens	0.377	N/A	RG2
Acer FL8 series Ultra Short Throw Zoom Lens	0.76–0.95	N/A	RG2
Acer FL8 series Short Throw Zoom Lens	1.14–1.71	N/A	RG2
Acer FL8 series Standard Zoom Lens	1.61–2.42	N/A	RG2
Acer FL8 series Middle Throw Zoom Lens	2.37–3.6	N/A	RG2
Acer FL8 series Long Throw Zoom Lens	3.53–5.65	1550 mm	RG3
Acer FL8 series Ultra Long Throw Zoom Lens	5.52–8.83	1370 mm	RG3

- Cinema projectors that have a hazard distance greater than 1 m and emit light into an uncontrolled area where persons may be present should be positioned in accordance with "the fixed projector installation" parameters, resulting in a hazard distance that does not extend into the audience area unless the beam is at least 2 m above the floor level.

- In non-cinema, environments where unrestrained behaviour is reasonably foreseeable, the minimum separation height should be greater than or equal to 3.0 m to prevent potential exposure, for example by an individual sitting on another individual's shoulders, within the hazard distance. For example, a sufficiently large separation height may be achieved by mounting the projector on the ceiling or through the use of physical barriers.

- Turn on the projector first and then signal sources.

- Do not place the product in the following environments:
  - Space that is poorly ventilated or confined. At least 50cm clearance from walls and free flow of air around the projector are necessary.
  - Locations where temperatures may become excessively high, such as inside of a car with all windows rolled up.
  - Locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shorten the life span and darken the image.
  - Locations near fire alarms.
  - Locations with an ambient temperature above 40 °C/104 °F.
  - Locations where the altitudes are higher than 10000 feet.

- Unplug immediately if there is something wrong with your projector. Do not operate if smoke, strange noise or odor comes out of your projector. It might cause fire or electric shock. In this case, unplug immediately and contact your dealer.

- Do not keep using this product to break or drop it. In this case contact your dealer for inspection.

- Do not face the projector lens to the sun. It can lead to fire.

- When switching the projector off, please ensure the projector completes its cooling cycle before disconnecting power.

- Do not frequently turn off the main power abruptly or unplug the projector during operation. The best way is to wait for the fan to stop before turning main power off.

- Do not touch the air outlet grille and bottom plate which become hot.

- Clean the air filter frequently. The temperature inside may rise and cause damage when the filter/ventilation slots are clogged with dirt or dust.

- Do not look into the air outlet grille when projector is operating. It may hurt your eyes.

- Always open the lens shutter or remove the lens cap when the projector is on.

- Do not block the projector lens with any object when the projector is under operation as this could cause the object to become heated and deformed or even cause a fire. To temporarily turn off the light, press Blank on the remote control.

- Do not attempt to disassemble this projector. There are dangerous high voltages inside which may hurt you.

- Do not stand the projector on end vertically. It may cause the projector to fall over, causing injury or damage.

- This product is capable of displaying inverted images for ceiling mount installation. Only use acer ceiling mount kit for mounting the projector and ensure it is securely installed.

Caution for Listening

To protect your hearing, follow these instructions.

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

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit **http://www.acer-group.com/public/ Sustainability/index.htm**

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 projector 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 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.

Contents

Introduction

Product Features

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

- DLP® technology
- Enables projecting 3D content via DLP Link Technology: Blu-Ray 3D supported
- Acer ColorBoost technology delivers vivid, life-like images
- High brightness and contrast ratio
- Versatile display modes enable optimum performance in any situation
- NTSC/PAL/SECAM compatible and HDTV (720p, 1080i, 1080p) supported
- Lower power consumption and economy (ECO) mode extends projector life
- Advanced keystone correction delivers optimum presentations
- Multi-language Onscreen Display (OSD) menus
- Extensive lens options with motorized focus/zoom and motorized lens shift functions
- Equipped with motorized dual color filter
- Optional 3G-SDI module and HDBaseT module
- 360-degree projection allows you to project images from any angle
- Microsoft® Windows® 2000, XP, 7, 8, 8.1,10, Vista®, Macintosh OS, Chrome OS compliant
- LAN settings enable remote management of projectors via a web browser
- Crestron compliant
- CEC (Consumer Electronics Control) function supported
- 3D VESA compatible

Package Overview

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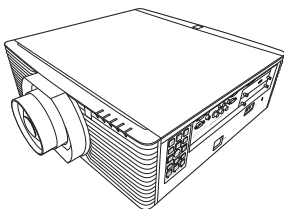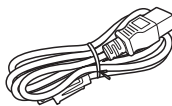
Projector	Power cord	VGA cable

Security card (optional)	Remote control	Quick start guide	AAA Battery x 2
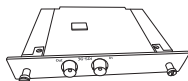
3G-SDI module (optional)	HDBaseT module (optional)
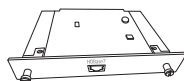
Note: Do not install 2 HDBaseT modules or 2 3G-SDI modules simultaneously. The projector can only recognize one when that happens.

Warning: Do not leave the optional extension board uncovered during operation.

Projector Overview

Projector Outlook

Front/upper side
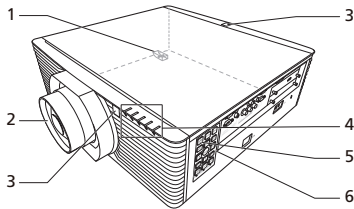
#	Description	#	Description
1	Security bar	4	Indicator LED
2	Projection lens (optional)	5	Power key
3	Remote control receiver	6	Control panel

Side
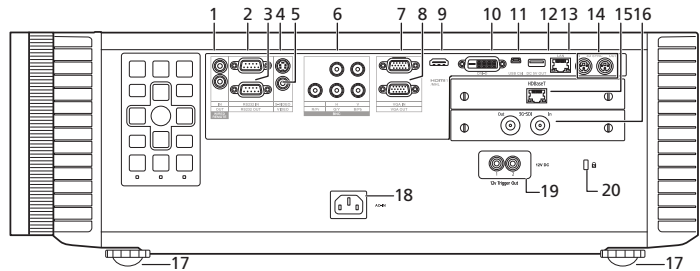
#	Description	#	Description
1	Wired remote control input connector Wired remote control output connector	12	USB connector (Type A) (DC 5V output)
2	RS232 input connector	13	LAN (RJ45 port for 10/100M Ethernet)
3	RS232 output connector		
4	S-Video input connector	14	3D sync input/output connectors
5	Composite video input connector		
6	BNC connectors	15	HDBaseT connector (Optional extension board)
7	Analog RGB signal/HDTV/component video input connector	16	3G-SDI input/output connector (Optional extension board)
8	Monitor loop-through output connector	17	Tilt adjusting wheel
9	HDMI (MHL) connector	18	Power socket
10	DVI-D input connector	19	12V DC output connectors
11	Mini USB connector	20	Kensington™ lock port

Bottom side
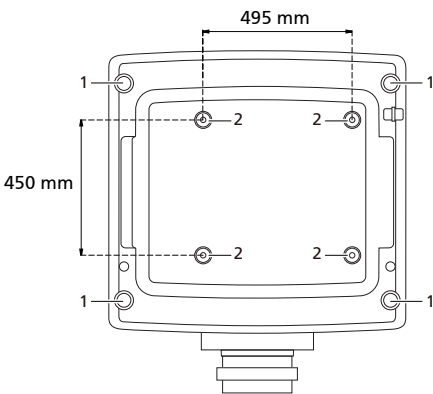
#	Description	#	Description
1	Tilt adjusting wheel	2	Ceiling mount holes (screw type: M6)

Dimensions
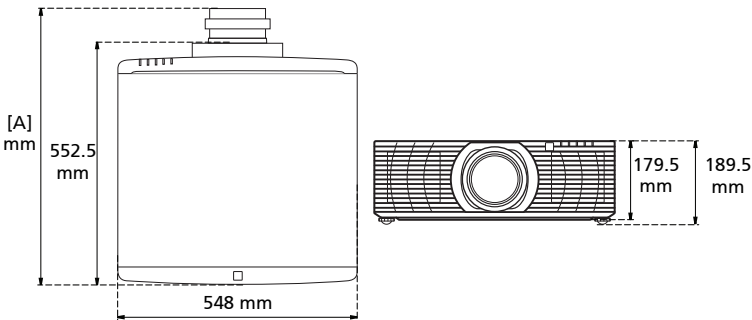
Note: [A] differs when different lens is installed.

Lens installed	[A]
Acer FL8 series Standard Zoom Lens	594.1
Acer FL8 series Ultra Short Throw Zoom Lens	609.9
Acer FL8 series Short Throw Zoom Lens	611.4
Acer FL8 series Middle Throw Zoom Lens	631.5
Acer FL8 series Long Throw Zoom Lens	631.5
Acer FL8 series Ultra Long Throw Zoom Lens	631.5
Acer FL8 series Ultra Short Throw Lens	612.1

Control Panel

#	Function	Description
1	Power key	Refer to the "Turning the Projector On/Off" section.
2	PATTERN	Displays the test pattern.
3	MENU	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
4	ENTER	Confirms your selection of items.
5	Four directional selection keys	Selects items or makes adjustments to your selection
6	BACK	Cancels your selection, or goes back to previous page.
7	FOCUS	Press "FOCUS" and the indicator below lights up. Use to adjust the focus setting.
8	LENS SHIFT	Press "LENS SHIFT" and the indicator below lights up. Use to shift the projection lens.
9	LIGHT	Turns on or off the back light of the control panel.
10	SOURCE	Changes the active source.
11	RESYNC	Automatically synchronizes the projector to the input source.
12	ZOOM	Press "ZOOM" and the indicator below lights up. Use to adjust the zoom setting.

Remote Control Layout
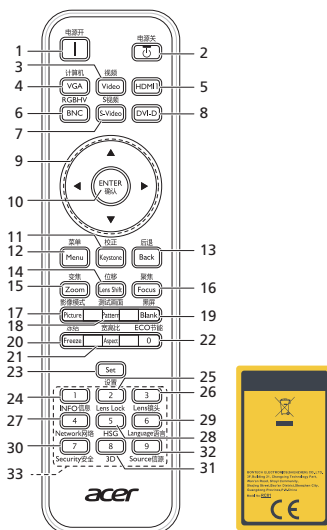
#	Function	Description
1	ON	Refer to the "Turning the Projector On/Off" section.
2	OFF	
3	Video	To change source to composite video.
4	VGA	To change source to VGA IN.
5	HDMI1	To change source to HDMI.
6	BNC	To change source to BNC.
7	S-Video	To change source to S-Video.
8	DVI-D	To change source to DVI-D.
9	Four directional selection keys	Selects items or makes adjustments to your selection.
10	ENTER	Confirms your selection of items.
11	Keystone	Displays the Keystone correction menu.
12	Menu	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
13	Back	Cancels the selection, or goes back to previous page.
14	Lens Shift	Press "Lens Shift" and the indicator below lights up. Use to shift the projection lens.

#	Function	Description
15	Zoom	Press "Zoom" and the indicator below lights up. Use ◀◆▶ to adjust the zoom setting.
16	Focus	Press "Focus" and the indicator below lights up. Use ◀◆▶ to adjust the focus setting.
17	Picture	Selects the preset picture mode.
18	Pattern	Displays the test pattern.
19	Blank	Press "Blank" to hide screen image; press again to display the image.
20	Freeze	To pause the screen image.
21	Aspect	Chooses your desired aspect ratio.
22	ECO	Dims the projector light source which will lower power consumption and extend the light source life.
23	Set	Set the code for this remote control. Press and hold "Set", and then press a number (01, 02, 03...99) to designate an ID. You can control projector with the matching ID set in the "Options" > "Control" > "Projector ID" OSD. Press and hold "Set" and press "0" twice to cancel the remote control code.
24	INFO	Displays the current projector related information.
25	Lens Lock	Displays the Lens Lock menu.
26	Lens	Displays the Lens menu.
27	Network	Displays the Network menu.
28	HSG	Displays the HSG menu.
29	Language	Displays the OSD language selection menu.
30	Security	Displays the Security menu.
31	3D	Press to open the 3D menu for adjusting 3D settings.
32	Source	Changes the active source.
33	Keypad 0~9	Inputs numbers.

MHL Feature Introduction

Press "SOURCE" for one second to enter or leave the MHL control mode. After entering the MHL control mode, press "RESYNC" to switch between the navigation mode (default) and numeric mode.

Function			Description	
			Navigation mode	Numeric mode
SOURCE			Long press for one second to enter or leave the MHL control mode.	
RESYNC			After entering the MHL control mode, press to switch between the navigation mode (default) and numeric mode.	
Four directional select keys		Up	Up	(No function)
		down	down	(No function)
		Left	Left	(No function)
		Right	Right	(No function)
Keypad 0~9			(No function)	Enters 0~9.
MENU			Goes to the root menu.	(No function)
ENTER			Selects or enters items.	(No function)
BACK			Exits current page.	(No function)

Getting Started

Installing the Projection Lens

1 Remove the dust cap and upper lens cover.

2 Align the slot on the projection lens with the one on the projector to insert the projection lens. (Illustration #1)

3 Turn the lever counterclockwise until you feel it click into place to lock the lens in position. (Illustration #2)

4 Install the upper lens cover back. (Illustration #3)
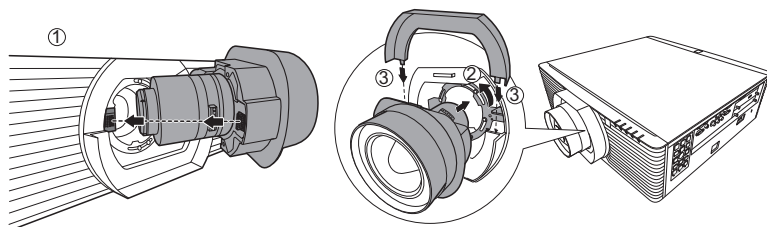
Compatible projection lens

- Acer FL8 series Standard Zoom Lens (MC.JNN11.001)
- Acer FL8 series Ultra Short Throw Lens (MC.JNN11.00A)
- Acer FL8 series Ultra Short Throw Zoom Lens (MC.JNN11.002)
- Acer FL8 series Short Throw Zoom Lens (MC.JNN11.003)
- Acer FL8 series Middle Throw Zoom Lens (MC.JNN11.004)
- Acer FL8 series Long Throw Zoom Lens (MC.JNN11.005)
- Acer FL8 series Ultra Long Throw Zoom Lens (MC.JNN11.006)

Removing the Projection Lens

1 Remove the upper lens cover. (Illustration #1)

2 Turn the lever clockwise to release the lens. (Illustration #2)

3 Pull out the projection lens. (Illustration #3)
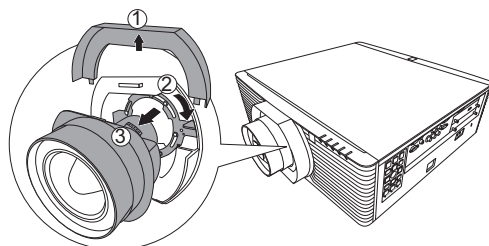
Connecting the Projector
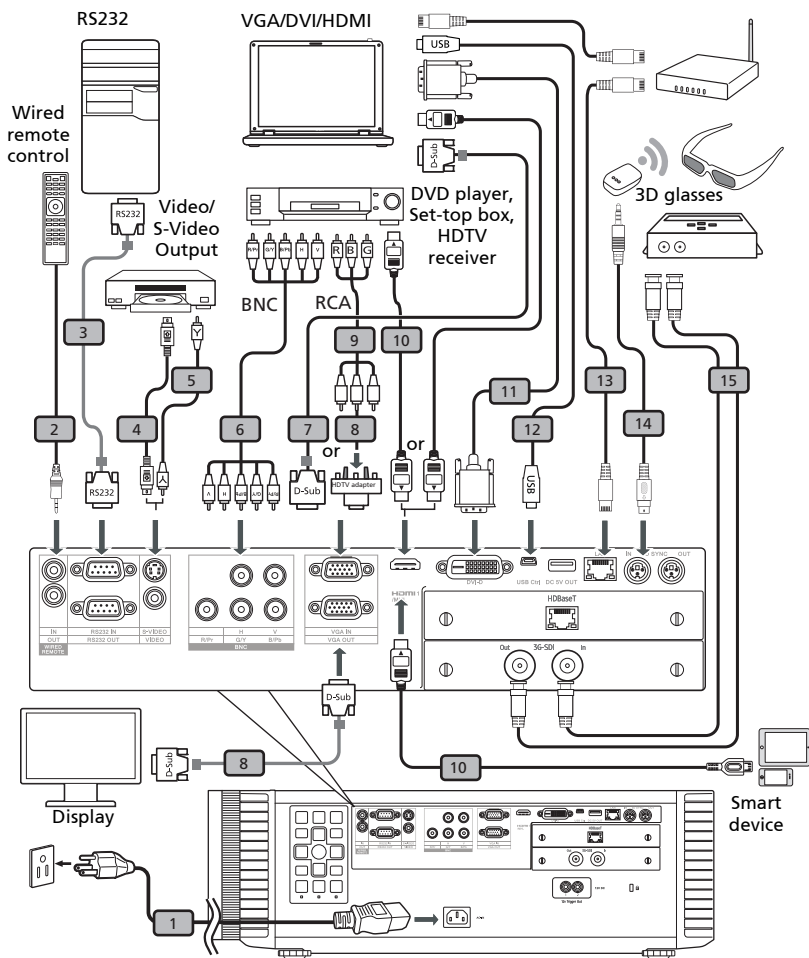
#	Description	#	Description
1	Power cord	9	3 RCA component cable
2	Wired remote control	10	HDMI (MHL) cable
3	RS232 cable	11	DVI cable
4	S-Video cable	12	USB cable
5	Composite video cable	13	RJ45 cable
6	5-BNC cable	14	3D glasses
7	VGA cable	15	3G-SDI cable
8	VGA to component video/HDTV adapter		

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.

Connecting Multiple Sources through HDBaseT Module (Optional)

HDBaseT is a connectivity standard for whole-house and commercial distribution of uncompressed HD multimedia content. After installing the HDBaseT module (optional) to the projector and using the HDBaseT switching matrix (commercially available), you may connect multiple sources to your projector with HDBaseT connection.

Note: The illustration below is for reference only, actual layout may vary.
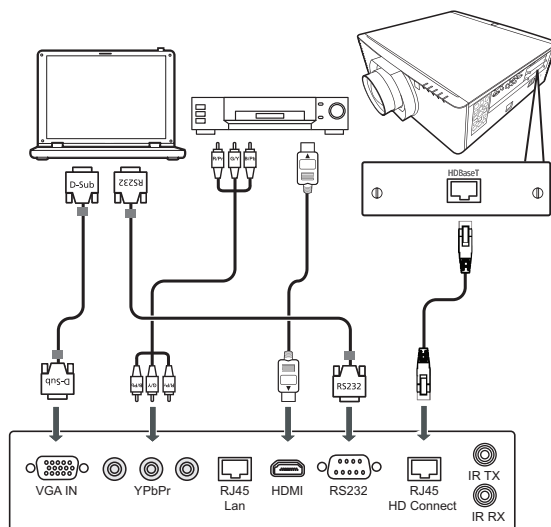
Note: Use a shielded LAN cable up to 100 meters in length rated at CAT5e or better.

Note: The maximum transmission distance is 100 m.However, it may be shorter under some circumstances.

Note: Avoid using the LAN cable when it is coiled or bundled.
Note: Inserting or removing the LAN cable during projection may cause noise.
Note: Connectivity with all HDBaseT transmitters on the market is not guaranteed.
Note: Some HDBaseT transmitters may not enable correct projection when used to connect source equipment to the projector.
Note: Commands cannot be received through HDBaseT when the projector is in standby mode.

Turning the Projector On/Off

Turning On the Projector

1   Ensure that the power cord and signal cable are securely connected.
    The Power LED will light red.

2   Turn on the projector by pressing ⏻ (POWER) on the control panel or
    ⎕ on the remote control, and the Power indicator LED will turn blue.

3   Turn on your source (computer, notebook, video player, etc.). Select
    your source. (The projector will detect your source automatically if
    Auto Source is "On").

    •   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.
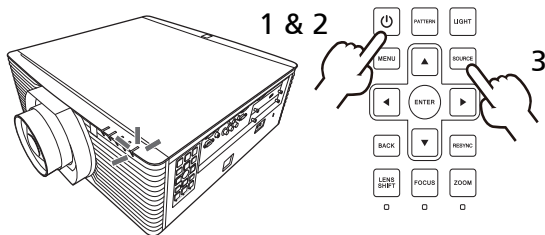
Turning Off the Projector

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.

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   Use the front Tilt adjusting wheels to raise the image to the desired height and angle.

2   Use the rear Tilt adjusting wheels to fine-tune the display angle.

To lower the image:

1   Use the front Tilt adjusting wheels to lower the image to the desired height angle.

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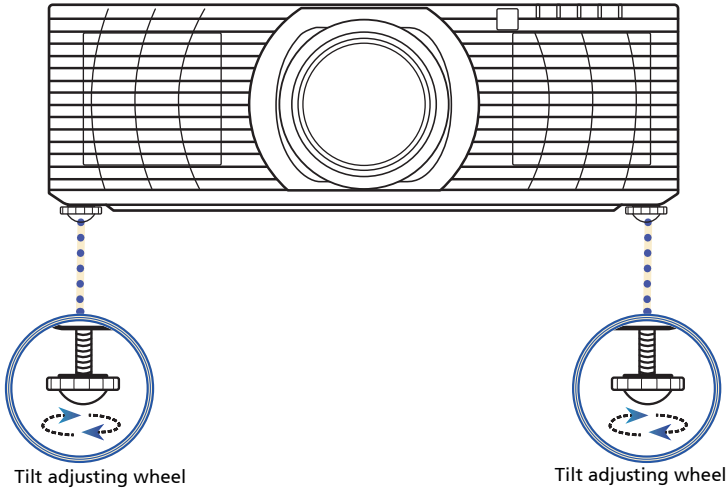
Tilt adjusting wheel   Tilt adjusting wheel

Optimizing Image Size and Distance
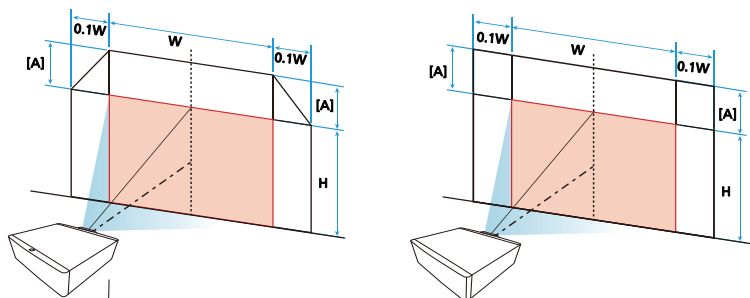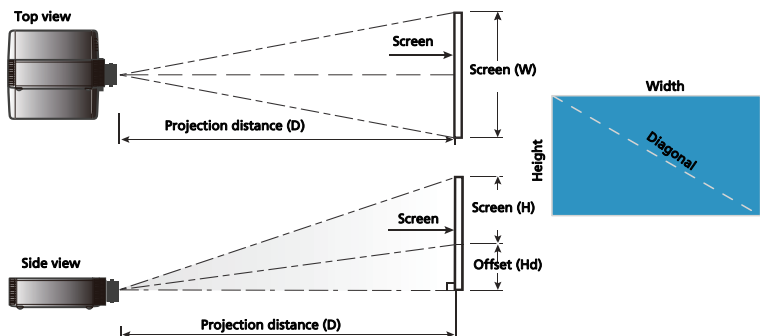
[A] differs when different lens is installed.

Lens installed	[A]
Acer FL8 series Standard Zoom Lens	0.6H
Acer FL8 series Ultra Short Throw Zoom Lens	0.5H
Acer FL8 series Short Throw Zoom Lens	0.6H
Acer FL8 series Middle Throw Zoom Lens	0.6H
Acer FL8 series Long Throw Zoom Lens	0.6H
Acer FL8 series Ultra Long Throw Zoom Lens	0.6H
Acer FL8 series Ultra Short Throw Lens	N/A

• With Acer FL8 series Standard Zoom Lens

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min.	Max	Min.	Max
60	1.29	0.81	50.88	31.8	2.08	3.12	6.83	10.24	-0.4	0.08	-1.32	0.26
70	1.51	0.94	59.36	37.1	2.43	3.64	7.97	11.95	-0.47	0.09	-1.55	0.31
80	1.72	1.08	67.84	42.4	2.78	4.16	9.11	13.66	-0.54	0.11	-1.77	0.35
90	1.94	1.21	76.32	47.7	3.12	4.68	10.24	15.37	-0.61	0.12	-1.99	0.4
100	2.15	1.35	84.8	53	3.47	5.2	11.38	17.07	-0.67	0.13	-2.21	0.44
120	2.58	1.62	101.76	63.6	4.16	6.24	13.66	20.49	-0.81	0.16	-2.65	0.53
150	3.23	2.02	127.2	79.5	5.2	7.81	17.07	25.61	-1.01	0.2	-3.31	0.66
180	3.88	2.42	152.64	95.4	6.24	9.37	20.49	30.73	-1.21	0.24	-3.97	0.79
200	4.31	2.69	169.6	106	6.94	10.41	22.77	34.15	-1.35	0.27	-4.42	0.88
250	5.38	3.37	212	132.5	8.67	13.01	28.46	42.68	-1.68	0.34	-5.52	1.1
300	6.46	4.04	254.4	159	10.41	15.61	34.15	51.22	-2.02	0.4	-6.62	1.32
350	7.54	4.71	296.8	185.5	12.14	18.21	39.84	59.76	-2.36	0.47	-7.73	1.55
400	8.62	5.38	339.2	212	13.88	20.82	45.53	68.3	-2.69	0.54	-8.83	1.77
450	9.69	6.06	381.6	238.5	15.61	23.42	51.22	76.83	-3.03	0.61	-9.94	1.99
500	10.77	6.73	424	265	17.35	26.02	56.91	85.37	-3.37	0.67	-11.04	2.21
550	11.85	7.4	466.4	291.5	19.08	28.62	62.6	93.91	-3.7	0.74	-12.15	2.43
600	12.92	8.08	508.8	318	20.82	31.22	68.3	102.44	-4.04	0.81	-13.25	2.65

• With Acer FL8 series Ultra Short Throw Zoom Lens

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min.	Max	Min.	Max
60	1.29	0.81	50.88	31.8	0.98	1.22	3.21	4.02	-0.4	0	-1.32	0
70	1.51	0.94	59.36	37.1	1.14	1.43	3.75	4.69	-0.47	0	-1.55	0
80	1.72	1.08	67.84	42.4	1.31	1.63	4.29	5.36	-0.54	0	-1.77	0
90	1.94	1.21	76.32	47.7	1.47	1.84	4.82	6.03	-0.61	0	-1.99	0
100	2.15	1.35	84.8	53	1.63	2.04	5.36	6.7	-0.67	0	-2.21	0
120	2.58	1.62	101.76	63.6	1.96	2.45	6.43	8.03	-0.81	0	-2.65	0
150	3.23	2.02	127.2	79.5	2.45	3.06	8.03	10.04	-1.01	0	-3.31	0
180	3.88	2.42	152.64	95.4	2.94	3.67	9.64	12.05	-1.21	0	-3.97	0
200	4.31	2.69	169.6	106	3.27	4.08	10.71	13.39	-1.35	0	-4.42	0
250	5.38	3.37	212	132.5	4.08	5.1	13.39	16.74	-1.68	0	-5.52	0
300	6.46	4.04	254.4	159	4.9	6.12	16.07	20.09	-2.02	0	-6.62	0
350	7.54	4.71	296.8	185.5	5.71	7.14	18.75	23.43	-2.36	0	-7.73	0
400	8.62	5.38	339.2	212	6.53	8.16	21.43	26.78	-2.69	0	-8.83	0
450	9.69	6.06	381.6	238.5	7.35	9.18	24.1	30.13	-3.03	0	-9.94	0
500	10.77	6.73	424	265	8.16	10.2	26.78	33.48	-3.37	0	-11.04	0
550	11.85	7.4	466.4	291.5	8.98	11.22	29.46	36.83	-3.7	0	-12.15	0
600	12.92	8.08	508.8	318	9.8	12.24	32.14	40.17	-4.04	0	-13.25	0

- With Acer FL8 series Short Throw Zoom Lens

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min.	Max	Min.	Max
60	1.29	0.81	50.88	31.8	1.47	2.2	4.82	7.23	-0.4	0.08	-1.32	0.26
70	1.51	0.94	59.36	37.1	1.71	2.57	5.62	8.44	-0.47	0.09	-1.55	0.31
80	1.72	1.08	67.84	42.4	1.96	2.94	6.43	9.64	-0.54	0.11	-1.77	0.35
90	1.94	1.21	76.32	47.7	2.2	3.31	7.23	10.85	-0.61	0.12	-1.99	0.4
100	2.15	1.35	84.8	53	2.45	3.67	8.03	12.05	-0.67	0.13	-2.21	0.44
120	2.58	1.62	101.76	63.6	2.94	4.41	9.64	14.46	-0.81	0.16	-2.65	0.53
150	3.23	2.02	127.2	79.5	3.67	5.51	12.05	18.08	-1.01	0.2	-3.31	0.66
180	3.88	2.42	152.64	95.4	4.41	6.61	14.46	21.69	-1.21	0.24	-3.97	0.79
200	4.31	2.69	169.6	106	4.9	7.35	16.07	24.1	-1.35	0.27	-4.42	0.88
250	5.38	3.37	212	132.5	6.12	9.18	20.09	30.13	-1.68	0.34	-5.52	1.1
300	6.46	4.04	254.4	159	7.35	11.02	24.1	36.16	-2.02	0.4	-6.62	1.32
350	7.54	4.71	296.8	185.5	8.57	12.86	28.12	42.18	-2.36	0.47	-7.73	1.55
400	8.62	5.38	339.2	212	9.8	14.69	32.14	48.21	-2.69	0.54	-8.83	1.77
450	9.69	6.06	381.6	238.5	11.02	16.53	36.16	54.23	-3.03	0.61	-9.94	1.99
500	10.77	6.73	424	265	12.24	18.37	40.17	60.26	-3.37	0.67	-11.04	2.21
550	11.85	7.4	466.4	291.5	13.47	20.2	44.19	66.29	-3.7	0.74	-12.15	2.43
600	12.92	8.08	508.8	318	14.69	22.04	48.21	72.31	-4.04	0.81	-13.25	2.65

- With Acer FL8 series Long Throw Zoom Lens

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min.	Max	Min.	Max
60	1.29	0.81	50.88	31.8	4.56	7.3	14.96	23.94	-0.4	0.08	-1.32	0.26
70	1.51	0.94	59.36	37.1	5.32	8.51	17.46	27.93	-0.47	0.09	-1.55	0.31
80	1.72	1.08	67.84	42.4	6.08	9.73	19.95	31.92	-0.54	0.11	-1.77	0.35
90	1.94	1.21	76.32	47.7	6.84	10.95	22.45	35.92	-0.61	0.12	-1.99	0.4
100	2.15	1.35	84.8	53	7.6	12.16	24.94	39.91	-0.67	0.13	-2.21	0.44
120	2.58	1.62	101.76	63.6	9.12	14.6	29.93	47.89	-0.81	0.16	-2.65	0.53
150	3.23	2.02	127.2	79.5	11.4	18.24	37.41	59.86	-1.01	0.2	-3.31	0.66
180	3.88	2.42	152.64	95.4	13.68	21.89	44.89	71.83	-1.21	0.24	-3.97	0.79
200	4.31	2.69	169.6	106	15.2	24.33	49.88	79.81	-1.35	0.27	-4.42	0.88
250	5.38	3.37	212	132.5	19.01	30.41	62.35	99.76	-1.68	0.34	-5.52	1.1
300	6.46	4.04	254.4	159	22.81	36.49	74.82	119.72	-2.02	0.4	-6.62	1.32
350	7.54	4.71	296.8	185.5	26.61	42.57	87.29	139.67	-2.36	0.47	-7.73	1.55
400	8.62	5.38	339.2	212	30.41	48.65	99.76	159.62	-2.69	0.54	-8.83	1.77
450	9.69	6.06	381.6	238.5	34.21	54.73	112.23	179.58	-3.03	0.61	-9.94	1.99
500	10.77	6.73	424	265	38.01	60.82	124.71	199.53	-3.37	0.67	-11.04	2.21
550	11.85	7.4	466.4	291.5	41.81	66.9	137.18	219.48	-3.7	0.74	-12.15	2.43
600	12.92	8.08	508.8	318	45.61	72.98	149.65	239.43	-4.04	0.81	-13.25	2.65

English

- With Acer FL8 series Ultra Long Throw Zoom Lens

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min.	Max	Min.	Max
60	1.29	0.81	50.88	31.8	7.13	11.41	23.4	37.44	-0.4	0.08	-1.32	0.26
70	1.51	0.94	59.36	37.1	8.32	13.31	27.3	43.68	-0.47	0.09	-1.55	0.31
80	1.72	1.08	67.84	42.4	9.51	15.22	31.2	49.92	-0.54	0.11	-1.77	0.35
90	1.94	1.21	76.32	47.7	10.7	17.12	35.1	56.16	-0.61	0.12	-1.99	0.4
100	2.15	1.35	84.8	53	11.89	19.02	39	62.4	-0.67	0.13	-2.21	0.44
120	2.58	1.62	101.76	63.6	14.27	22.82	46.8	74.88	-0.81	0.16	-2.65	0.53
150	3.23	2.02	127.2	79.5	17.83	28.53	58.5	93.6	-1.01	0.2	-3.31	0.66
180	3.88	2.42	152.64	95.4	21.4	34.24	70.2	112.33	-1.21	0.24	-3.97	0.79
200	4.31	2.69	169.6	106	23.78	38.04	78	124.81	-1.35	0.27	-4.42	0.88
250	5.38	3.37	212	132.5	29.72	47.55	97.5	156.01	-1.68	0.34	-5.52	1.1
300	6.46	4.04	254.4	159	35.66	57.06	117.01	187.21	-2.02	0.4	-6.62	1.32
350	7.54	4.71	296.8	185.5	41.61	66.57	136.51	218.41	-2.36	0.47	-7.73	1.55
400	8.62	5.38	339.2	212	47.55	76.08	156.01	249.61	-2.69	0.54	-8.83	1.77
450	9.69	6.06	381.6	238.5	53.49	85.59	175.51	280.81	-3.03	0.61	-9.94	1.99
500	10.77	6.73	424	265	59.44	95.1	195.01	312.01	-3.37	0.67	-11.04	2.21
550	11.85	7.4	466.4	291.5	65.38	104.61	214.51	343.22	-3.7	0.74	-12.15	2.43
600	12.92	8.08	508.8	318	71.33	114.12	234.01	374.42	-4.04	0.81	-13.25	2.65

- With Acer FL8 series Ultra Short Throw Lens

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)			
	(m)		(inch)		(m)		(feet)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	Min.	Max	Min.	Max
70	1.51	0.94	59.36	37.1	0.59	0.59	1.94	1.94	0.24	0.24	0.77	0.77
80	1.72	1.08	67.84	42.4	0.67	0.67	2.19	2.19	0.28	0.28	0.92	0.92
90	1.94	1.21	76.32	47.7	0.74	0.74	2.43	2.43	0.32	0.32	1.07	1.07
100	2.15	1.35	84.8	53	0.82	0.82	2.68	2.68	0.37	0.37	1.21	1.21
120	2.58	1.62	101.76	63.6	0.97	0.97	3.18	3.18	0.46	0.46	1.51	1.51
150	3.23	2.02	127.2	79.5	1.2	1.2	3.92	3.92	0.59	0.59	1.95	1.95
180	3.88	2.42	152.64	95.4	1.42	1.42	4.67	4.67	0.73	0.73	2.39	2.39
200	4.31	2.69	169.6	106	1.57	1.57	5.16	5.16	0.82	0.82	2.68	2.68
250	5.38	3.37	212	132.5	1.95	1.95	6.41	6.41	1.04	1.04	3.41	3.41
300	6.46	4.04	254.4	159	2.33	2.33	7.65	7.65	1.26	1.26	4.15	4.15
350	7.54	4.71	296.8	185.5	2.71	2.71	8.89	8.89	1.49	1.49	4.88	4.88

How to Get a Preferred Image Position by Adjusting Lens Shift

The projector is equipped with lens shift for adjusting the position of projected image without requiring you to physically move the projector. To shift the lens, use the control panel or remote control, or select "Display settings" > "Lens" on the OSD and adjust the lens.

> Note: The figures shown in this section are for reference only not approximate value. The figures between units can be different due to assembly tolerance.

The horizontal width can be adjusted between -10% and 10% of the image width. The vertical height can be adjusted between 0% and 50% – 60% (depending on the projection lens installed) of the image height.

The horizontal position
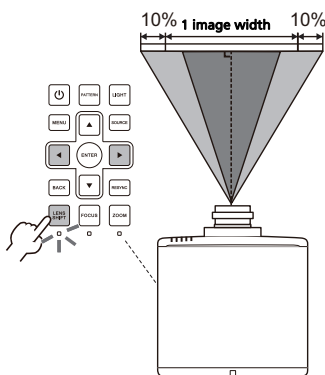
The vertical position
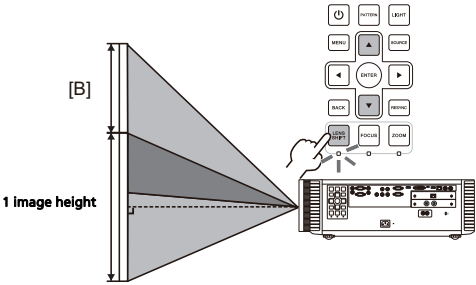
Note: [B] differs when different lens is installed.

Lens installed	[B]
Acer FL8 series Standard Zoom Lens	60%
Acer FL8 series Ultra Short Throw Zoom	50%
Acer FL8 series Short Throw Zoom Lens	60%
Acer FL8 series Middle Throw Zoom Lens	60%
Acer FL8 series Long Throw Zoom Lens	60%
Acer FL8 series Ultra Long Throw Zoom Lens	60%
Acer FL8 series Ultra Short Throw Lens	83.2%

User Controls

Onscreen Display (OSD) Menus

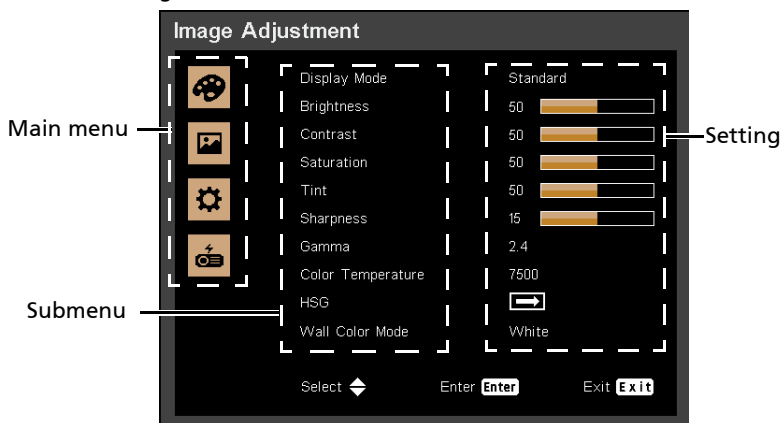The projector has multilingual Onscreen Display (OSD) menus that allow you to make image adjustments and change a variety of settings.

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.

```
Image Adjustment

            Display Mode          Standard
            Brightness            50    ▭▬▬
            Contrast              50    ▭▬▬
            Saturation            50    ▭▬▬
            Tint                  50    ▭▬▬
            Sharpness             15    ▭▬▬
            Gamma                 2.4
            Color Temperature     7500
            HSG                   ▭▶
            Wall Color Mode       White

            Select ◆    Enter Enter    Exit Exit
```

Main menu

Setting

Submenu

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

Image Adjustment

Display Mode	There are many factory presets optimized for various types of images. • Bright: For brightness optimization. • Standard: For common environment. • Video: For playing video in a bright environment. • sRGB: For sRGB standard. • DICOM SIM: For DICOM format files in simulation mode, and not for actual diagnosis. • User: Memorize user's settings.
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.
Saturation	Adjusts a video image from black and white to fully saturated colors. • Press ◀ to decrease the amount of color in the image. • Press ▶ to increase the amount of color in the image.
Tint	Adjusts the color balance of red and green. • Press ◀ to increase the amount of green in the image. • Press ▶ to increase the amount of red in the image.
Sharpness	Adjusts the sharpness of the image. • Press ◀ to decrease the sharpness. • Press ▶ to increase the sharpness.
Gamma	Effects the representation of dark scenery. With greater gamma value, dark scenery will look brighter.

Color Temperature	Adjusts the color temperature. At higher color temperatures, the screen looks colder; at lower color temperatures, the screen looks warmer.
HSG	**HSG** Use this function to enhance color and reproduce vivid colors. **HSG settings** • Color: Use ◀ ▶ key to select a color that you wish to enhance. • When selecting Red/Green/Blue/Cyan/Magenta/Yellow, the following options are available. - Hue: Use ◀ ▶ key to change the hue of the selected color. - Saturation: Use ◀ ▶ key to change the saturation of the selected color. - Gain: Use ◀ ▶ key to change the contrast level of the selected color. • When selecting White, the following options are available. - Red/Green/Blue: Use ◀ ▶ key to change the level of each color. - Reset: Use this function to return the adjustments and settings made above to the factory default values.
Wall Color Mode	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.

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

English

Display settings

Aspect Ratio	Use this function to choose your desired aspect ratio. • Auto: Keeps the image with original width-height ratio and maximizes the image to fit native horizontal or vertical pixels. • 4:3/16:9/16:10/1.88:1/2.35:1: The image will be scaled to fit the screen and displayed using a 4:3/16:9/16:10/1.88:1/2.35:1 ratio.
Phase	Eliminates flicker from the image displayed. Use ◀ ▶ key to adjust the value.
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.
H. Position	• Press ◀ to move the image left. • Press ▶ to move the image right.
V. Position	• Press ◀ to move the image down. • Press ▶ to move the image up.
Keystone	**V. Keystone** Manually adjusts image distortion caused by tilting projection. **H. Keystone** Manually adjusts image distortion caused by tilting projection. **Four Corners** Use ◀ ▶ key to select which corner to adjust and press the "ENTER" key to enter its submenu. Use ▲ ▼ ◀ ▶ key to adjust the setting.

Lens	**Lens Settings** • Lens Lock：Selecting Yes will lock all the functions provide in this menu and the Lens Centering menu. You will not be able to change lens related settings. • Lens Shift: Press ◀ ▶ to select Normal Speed or Fine Tune to determine how fast you want the lens to move. After selection, press ENTER to enable the lens shift function, and use ▲ ▼ ◀ ▶ to adjust the projection position. • Focus：Adjusts the projector's focus. • Zoom：Adjusts the size of the projected image. • Load Settings: Applys the settings that you previously saved. • Save Settings: After making lens shift, zoom and focus adjustments, you can choose a set of setting to memorize current lens settings. • Clear Settings: Clears the settings. **Lens Centering** Returns the lens to the centered position.
Advanced	**RGB Input Range** Adjusts the color range of the HDMI image data to prevent color display error. • Auto: Automatically adjusts the color range by information from the player. • Limited Range: Processes the input image as limited color range data. • Full Range: Processes the input image as full color range data. **Overscan** Use this function to conceal the poor picture quality in the four edges. **Start-up Screen** Use this function to select your desired startup screen. If you change the setting, it will take effect when you exit the OSD menu. **Background on No Signal** Use this function to select a background image to be displayed when no signal is detected.

|	
Advanced	**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. Before proceeding with the following steps, make sure that the "Keystone" is set to the default value "0". 1 Project the image you want you capture. 2 Select "Screen Capture" and press "ENTER". 3 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). 4 A message appears stating that the screen capture is in progress. 5 When the screen capture is finished, the message disappears and the original display is shown. 6 If the screen capture failed, a "Screen Capture FAILED!" message will pop up. Your image size may exceed the maximum capturing capacity of 8 MB. Please change another image and try again. 7 To use this image as the startup screen, change the "Start-up Screen" from the default setting to "User". 8 To use this image as signal searching screen, select "User" in "Start-up Screen" and "User" in "Background on No Signal". **Test Pattern** Displays the test pattern. **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.

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

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

Default Adjustment

Language	Sets a language for the OSD menus. Use ▲ ▼ to select your preferred language.
Menu Display Time	Sets the length of time the On Screen Display will remain active after your last key press.
Menu Position	Sets the On Screen Display menu position.
Projector Installation	• ▣ Front Table: The factory default setting. • ▣ Front Ceiling: When you select this function, the projector inverts the image for ceiling-mounted projection. • ▣ Rear Table: When you select this function, the projector reverses the image so that you can project behind a translucent screen. • ▣ Rear Ceiling: When you select this function, the projector reverses and inverts the image at same time. You can project from behind a translucent screen with ceiling mounted projection.
Auto Source	When this function is turned "On", the projector will search for other signals if the current input signal is lost. When this function is turned "Off", it will only search a specified connection port.
Input Source	Use this option to enable/disable input sources. Press "ENTER" to enter the sub menu and select which sources you require. Press "ENTER" to finalize the selection. The projector will only search for inputs that are enabled.
Power Settings	**AC Power On** Selecting "On" enables the function. The projector will automatically turn on when power is supplied via the power cord. **IO Power On** Selecting "On" to enables this function. The projector will automatically turn on when a VGA signal is detected, without pressing the power button. **Power Off Notice** When "On" is selected, a power off message will be displayed after pressing the ⏻ button. When "Off" is selected, the projector turns off after pressing the ⏻ button one time. **Date & Time** Sets the date and time for this projector. **Auto Power Off (min)** The projector will automatically shut down while there is no signal input detected after the time you set. **Customize Power Off (Hours)**

	Schedules automatic shutdown of the projector.
Standby Settings	**VGA Out** 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. **Network** Enables/Disables the network function. **DC 5V Out** Selecting "On" enables the function. Both micro USB cable inside the projector and the DC 5V out port/USB A port (if available) 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. **HDBaseT IR Carrier** Use this function to enable HDBaseT IR Carrier.
Network	**Status** Displays the network connection status. **DHCP** Select On to allow the projector to obtain an IP address automatically from your network. Select "Off" to manually assign IP, Subnet Mask and Gateway configuration. **IP Address** Set an IP address or display IP address provided from DHCP server when DHCP is set to "On". **Subnet Mask** Set subnet mask number or display subnet mask number provided from DHCP server when DHCP is set to "On". **Apply** Select "Yes" to apply the changes made in network configuration settings. **MAC Address** Displays MAC address.

Security Settings	**Password Protection** Select "On" to use the security verification when the turning on the projector. Select "Off" to be able to switch on the projector without a password verification. **Change Password** Sets the password. **Lock to User Startup Screen** Use this function to lock the Startup Screen and it cannot be changed by the "Start-up Screen" or "Screen Capture" function.
Reset	Press "ENTER" after choosing "Yes" to return the display parameters on all menus to the factory default settings.

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About Network Setting

Note 1 : An overview of the remote network operation page

To switch input signals, click your desired signal.

See Note 2 and Note 3.

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

Input Source
VGA
BNC
HDMI 1 / MHL
DVI-D
VIDEO

Note 2 : An overview of the Tools page

You can enter the projector information.

You can adjust the LAN control settings.

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

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

English

3D	**3D SYNC** Use this option to select the appropriate 3D function. • DLP Link: Choose "DLP Link" to use DLP Link 3D Glasses. • External: Choose "External" to use VESA 3D emitter and 3D Glasses. **3D SYNC Output** Use this option to select the appropriate 3D sync output method. • Normal: Choose "Normal" to output 3D sync to other projector(s). • Pass Through: Choose "Pass Through" to receive 3D sync and/or pass 3D sync to another projector. **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 choose "On" to get best match of left/right image sequence to get the correct image (for DLP 3D).
Information	• Source: Display the input source that is currently connected to. • Resolution: Display the resolution setting of the current input source. • Display Mode: Display current Display Mode. • Laser Mode: Display current Laser Mode. • Total Time: Display the light source hours. • Inlet Temp: Display the temperature of the intake vent. • FW Version: Display the firmware version.

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.

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	• Make sure all the cables are correctly connected as described in the "Getting Started" section. • Ensure none of the connector pins are bent or broken. • Make sure the projector is switched on.
2	Partial, scrolling or incorrectly displayed image (For PC)	• Press "RESYNC" on the control panel or remote control. • For 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)	• Press "RESYNC" on the control panel or remote control.
		• For an incorrectly displayed image:
		   • 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	• 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	• Change the display color setting on your computer.
6	Image has vertical flickering bar	• Use "Frequency" to make an adjustment. Refer to the "Display settings" 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	• Adjust the focus ring on the projector lens. • Make sure the projection screen is within the required distance. Refer to the "Optimizing Image Size and Distance" section for more information.
8	Image is stretched when displaying a "widescreen" DVD title	When you play a DVD encoded in anamorphic or 16:9 aspect ratio you may need to adjust the following settings: • If you play a 4:3 format DVD title, please change the format to 4:3 with the projector OSD. • If the image is still stretched, you will also need to adjust the aspect ratio. Set up the display format to 16:9 (wide) aspect ratio on your DVD player.

9	Image is too small or too large	• 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 "Display settings" > "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. • Perform keystone correction (if available). • Press "MENU" on the control panel or remote control to open the OSD menu. Go to "Keystone" to make adjustments.
11	Image is reversed	• Select "Default Adjustment" > "Projector Installation" 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	Fan Fail - the system fan is not working. Laser 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. Laser will automatically turn off soon. Replace the liquid cooler The water from liquid cooler is insufficient. Contact the service center for replacement.

LED & Alarm Definition Listing

LED Messages

Message	Power LED		Temp LED	Status1 LED	Status2 LED	Status3 LED
	Blue	Red	Red	Red	Red	Red
Standby	--	V	--	--	--	--
Power up processing	Flashing	--	--	--	--	--
Start to move C0 position	V	--	Flashing	Flashing	Flashing	Flashing
C0 position ready	V	--	V	V	V	V
Power On (Normal)	V	--	--	--	--	--
Shutdown processing (Cooling)	--	Flashing	--	--	--	--
Firmware Download mode	--	V	V	V	V	V
Timer Backup Error(Standby)	--	Quick flashing	--	--	--	--
Laser (1 Bank fail)	V	--	--	V	--	--
Laser (2 Banks fail)	V	--	--		V	--
Laser (3 Banks fail)	V	--	--	V	V	--
Laser (4 Banks fail)	V	--	--	--	--	V
Laser (5 Banks fail)	V	--	--	V		V
Laser (6 Banks fail)	V	--	--	--	V	V
Laser (7 Banks fail)	V	--	--	V	V	V
Laser (All Banks fail)	--	--	--	Flashing	Flashing	Flashing
Temperture 1 Error	--	--	V	--	--	--
Temperture 2 Error	--	--	V	V	--	--
Fan 1 Error	--	--	Flashing	--	--	--
Fan 2 Error	--	--	Flashing	V	--	--
Fan 3 Error	--	--	Flashing	--	V	--
Fan 4 Error	--	--	Flashing	V	V	--
Fan 5 Error	--	--	Flashing	--	--	V
Fan 6 Error	--	--	Flashing	V	--	V
Fan 7 Error	--	--	Flashing	--	V	V
Fan 8 Error	--	--	Quick Flashing	--	--	--
Fan 9 Error	--	--	Quick Flashing	V	--	--
Fan 10 Error	--	--	Quick Flashing	--	V	--
Fan 11 Error	--	--	Quick Flashing	V	V	--
Fan 12 Error	--	--	Quick Flashing	--	--	V

Message	Power LED		Temp LED	Status1 LED	Status2 LED	Status3 LED
	Blue	Red	Red	Red	Red	Red
Fan 13 Error	--	--	Quick Flashing	V	--	V
Fan 14 Error	--	--	Quick Flashing	--	V	V
Fan Errors (more than 2 fans)	--	--	Quick Flashing	V	V	V
Color Wheel	--	--	--	--	--	Flashing
Phosphor Wheel 1	--	--	--	--	V	Flashing
Phosphor Wheel 2	--	--	--	V	--	Flashing
Liquid Pump 1	V	--	--	--	Flashing	--
Liquid Pump 2	V	--	--	V	Flashing	--
Liquid Pump 1&2	V	--	--	Flashing	Flashing	--

Specifications

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

Projection system	DLP^{TM}
Resolution	Native: WUXGA (1920 x 1200) 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, 16:10, 1.88:1, 2.35:1
Displayable colors	1.07 billion colors
Projection lens	• Standard zoom lens: F = 1.6 – 2.0, f = 24.1 mm – 35.8 mm, 1:1.5 Motorized Zoom and Motorized Focus • Ultra short throw zoom lens: F = 1.84 – 2.32, f = 11.3 mm – 14.1 mm, 1:1.25 Motorized Zoom and Motorized Focus • Short throw zoom lens: F = 1.82 – 2.34, f = 17.2 mm – 25.5 mm, 1:1.5 Motorized Zoom and Motorized Focus • Middle throw zoom lens: F = 1.8 – 2.23, f = 35.2 mm – 53.5 mm, 1:1.52 Motorized Zoom and Motorized Focus • Long throw zoom lens: F = 1.8 – 2.2, f = 51.33 mm – 82.49 mm, 1:1.6 Motorized Zoom and Motorized Focus • Ultra long throw zoom lens: F = 1.84 – 2.34, f = 79.18 mm – 125.95 mm, 1:1.6 Motorized Zoom and Motorized Focus • Ultra short throw lens: F = 2.0, f = 5.64 mm, Fixed Zoom and Motorized Focus
Projection screen size (diagonal) with clear focus	60" – 600" (152 cm – 1524 cm)
Throw ratio	• With standard zoom lens: 1.61 – 2.42 (98" @ 3.4 m) • With ultra short throw zoom lens: 0.76 – 0.95 (98" @ 1.6 m) • With short throw zoom lens: 1.14 – 1.71 (98" @ 2.4 m) • With middle throw zoom lens: 2.37 – 3.6 (98" @ 5.0 m) • With long throw zoom lens: 3.53 – 5.65 (98" @ 7.45 m) • With ultra long throw zoom lens: 5.52 – 8.83 (98" @ 11.65 m) • With ultra short throw lens:0.377 (166" @ 1.31 m)
Horizontal scan rate	15 – 100 KHz

Vertical refresh scan rate	24 – 120 Hz
Keystone correction	• Standard zoom lens/Short throw zoom lens/Middle throw zoom lens/Long throw zoom lens/Ultra long throw zoom lens:
	+/-30 Degrees (Vertical/Horizontal), Manual
	• Ultra short throw zoom lens:
	+/-25 Degrees (Vertical/Horizontal), Manual
Digital zoom	N/A
Audio	N/A
Lens shift	Refer to the "How to Get a Preferred Image Position by Adjusting Lens Shift" section for more information.
Weight	Approximate 26.5 kg (58.4 lbs.)
Dimensions	Refer to the "Dimensions" section for more information.
Power supply	Universal AC input 100 - 240 V, input frequency 50/60 Hz
Power consumption (typical)	Standard mode: 1350 W @100 VAC; 1210 W @240 VAC ECO mode: 1080 W @ 100 VAC; 980 W @240 VAC Standby mode: < 0.5 W Network standby mode: < 2 W
Operating temperature	0°C to 40°C / 32°F to 104°F
I/O connectors	• Power socket x 1
	• Wired remote input x 1
	• Wired remote output x 1
	• RS232 input x 1
	• RS232 output x 1
	• Composite video x 1
	• S-Video x 1
	• BNC connector x 5
	• VGA input x 1
	• VGA output x 1
	• HDMI/MHL x 1
	• DVI-D input x 1
	• USB Type mini B x 1
	• USB Type A (DC 5V output) x 1
	• RJ45 LAN input x 1
	• 3D sync connector x 2
	• 12V DC out x 2
	• HDBaseT x 1
	• 3G-SDI x 1
Standard package contents	• AC power cord x 1
	• Remote control x 1
	• AAA Battery x 2 (for the remote control)
	• Quick start guide x 1
Accessory (optional)	• Security card x 1
	• HDBaseT module x 1
	• 3G-SDI module x 1

| Spare parts | • | Acer HDBaseT module for FL8 series (MC.JNM11.005) |
| | • | Acer 3G-SDI module for FL8 series |

* Design and specifications are subject to change without notice.

Compatibility Modes

1   VGA Analog - PC Signal

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

WXGA	1280 x 768	60	47.78
	1280 x 768	75	60.29
	1280 x 768	85	68.63
HD 720	1280 x 720	60	45.00
WXGA	1280 x 800	60	49.70
	1280 x 800 - RB	120	101.6
	1440 x 900	60	55.94
WSXGA+	1680 x 1050	60	65.29
acer_16:9	1366 x 768	60	47.71
HD 1080	1920 x 1080-RB	60	66.60
	1920 x 1080-EIA	60	67.50
WSVGA	1024 x 600	60	37.50
WUXGA	1920 x 1200-RB	59.95	74.04

2   HDMI - PC Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA_60	640 x 480	59.94	31.469
VGA_72		72.809	37.861
VGA_75		75	37.5
VGA_85		85.008	43.269
VGA_120		119.518	61.91
SVGA_56	800 x 600	56.25	35.156
SVGA_60		60.317	37.879
SVGA_72		72.188	48.077
SVGA_75		75	46.875
SVGA_85		85.061	53.674
SVGA_120		119.854	77.425
XGA_60	1024 x 768	60.004	48.363
XGA_70		70.069	56.476
XGA_75		75.029	60.023
XGA_120		119.804	98.958
SXGA_75	1152 x 864	75	67.5
SXGA_85		84.99	77.094
SXGA_60	1280 x 1024	60.02	63.981
SXGA_72		72	76.97
SXGA_75		75.025	79.976
SXGA_85		85.024	91.146
QuadVGA_75	1280 x 960	75	75
SXGA+_60	1400 x 1050	59.978	65.317

UXGA_60	1600 x 1200	60	75
Mac G4	640 x 480@60Hz	59.94	31.469
MAC13	640 x 480@67Hz	66.667	35
Mac G4	800 x 600@60Hz	60.317	37.879
Mac G4	1024 x 768@60Hz	60.004	48.363
MAC19	1024 x 768@75Hz	75.02	60.241
MAC21	1152 x 870@75Hz	75.061	68.681
WXGA_60		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
1920 x 1200-RB	1920 x 1200	59.95	74.038

3   HDMI - Video Signal

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

4 MHL - Video Signal

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

5 YPbPr Signal

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

6 Video, S-Video Signal

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

7   3D Timing

Input Resolutions		Input timing		
Input Resolutions	HDMI 3D Input (with 3D Info Frame information)	1280 X 720P @ 50Hz	Top - and - Bottom	
		1280 X 720P @ 60Hz	Top - and - Bottom	
		1280 X 720P @ 50Hz	Frame packing	
		1280 X 720P @ 60Hz	Frame packing	
		1920 X 1080i @ 50 Hz	Side- by-Side (Half)	
		1920 X 1080i @ 60 Hz	Side- by-Side (Half)	
		1920 X 1080P @ 24 Hz	Top - and – Bottom	
		1920 X 1080P @ 24 Hz	Frame packing	
	HDMI 3D Input (without 3D Info Frame information)	1920 x 1080i @ 50Hz	Side-by-Side (Half)	SBS mode is on
		1920 x1080i @ 60Hz		
		1280 x 720P @ 50Hz		
		1280 x 720P @ 60Hz		
		1920 x 1080i @ 50Hz	Top-and-Bottom	TAB mode is on
		1920 x1080i @ 60Hz		
		1280 x 720P @ 50Hz		
		1280 x 720P @ 60Hz		
		480i	HQFS	
	VGA (PC)	800x600 @ 60Hz	SBS or TAB	
		1024x768 @ 60Hz		
		800x600 @ 120Hz	Frame Sequential	
		1024x768 @ 120Hz		
	Composite	NTSC	HQFS	
	S-Video	NTSC	HQFS	

Regulations and Safety Notices

Declaration of Conformity for EU countries

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

Compliant with Russian/Ukraine/Belarus regulatory certification

Radio device regulatory notice

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

General

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

List of applicable countries

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

$C\,E$

acer

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

EU Declaration of Conformity

We,

Acer Incorporated

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

And,

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 www.acer.it

Product:	**Projector**
Trade Name:	**Acer**
Model Number:	**AWU1905/AWU1906/AWU1907**

Marketing Name: **FL8630/LU-P1200UT/FL1200/PF-L1200UT/LP-640/
DL730/FL8620/LU-P1000UT/FL1000/PF-L1000UT/
LP-630/DL720/FL8610/LU-P950UT/FL950/PF-L950UT/
LP-620/DL710**

We, Acer Incorporated, hereby declare under our sole responsibility that the product described above is in conformity with the relevant Union harmonization legislations as below Directive and following harmonized standards and/or other relevant standards have been applied:

☒**EMC Directive: 2014/30/EU**

☒ EN EN 55032:2015+AC:2016-07, Class B	☒ EN 61000-3-2:2014
☒ EN 55024:2010/A1:2015	☒ EN 61000-3-3:2013

☒**LVD Directive: 2014/35/EU**

☒ EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013	☒ EN 60825-1:2014	☒ EN 62471:2015

☒**RoHS Directive: 2011/65/EU**

☒ EN 50581:2012

☒**ErP Directive: 2009/125/EC**

☐ Regulation (EU) No. 617/ 2013	☐ Regulation (EC) No. 278/2009; EN 50563:2011
☒ Regulation (EC) No. 1275/2008; EN 50564:2011	

Year to begin affixing CE marking 2020.

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RU Jan/Sr. Manager
Acer Incorporated (Taipei, Taiwan)

Feb. 24, 2020
Date