Acer Projector

P8800/F680/PF-4K50/PV870/HF-760/D4K1717

User's Guide

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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your projector. All correspondence concerning your unit should include the serial number, model number and purchase information.

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

Information for your safety and comfort

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

Turning the product off before cleaning

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

Caution for plug as disconnecting device

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

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

Caution for Accessibility

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

Warnings!

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface.
- This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.

- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage rotor devices, lamp.

Using electrical power

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

> **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 meets the following requirements: detachable type, UL listed/CSA certified, VDE approved or its equivalent, 4.5 meters (15 feet) maximum length.

Product servicing

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

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

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

> 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 projector's lens when the lamp is on. The bright may hurt your eyes.
*   Turn on the projector first and then signal sources
*   Do not place the product in following environments:
    *   Space that is poorly ventilated or confined. At least 50cm clearance from walls and free flow of air around the projector is 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, shortening the life span and darkening 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, suggest to 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 turn off before turning main power off.
- Do not touch air outlet grille and bottom plate which becomes hot.
- 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.
- The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.
- Do not operate lamps beyond the rated lamp life. It could cause it to break on rare occasions.
- Never replace the lamp assembly or any electronic components unless the projector is unplugged.
- The product will detect the life of the lamp itself. Please be sure to change the lamp when is showing warning message.
- When changing the lamp, please allow unit to cool down, and follow all changing instructions.
- Reset the "Lamp Reset" function from the Onscreen display "Setup lamp settings menu " menu after replacing the lamp module.
- Do not attempt to disassemble this projector. There are dangerous high voltages inside which may hurt you. The only user serviceable part is the lamp which has its own removable cover. Refer servicing only to suitable qualified professional service personnel.
- Do not stand the projector on end vertically. It may cause the projector to fall over, causing injury or damage.
- This product is capable of displaying inverted images for ceiling mount installation. Only use acer ceiling mount kit for mounting the projector and ensure it is securely installed.

Caution for Listening

To protect your hearing, follow these instructions.

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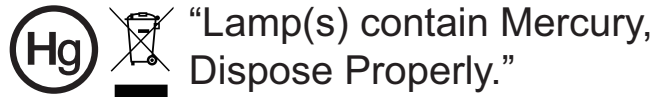
Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit
http://www.acer-group.com/public/Sustainability/sustainability01.htm
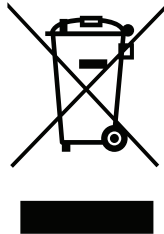
Mercury advisory

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

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

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

RISK GROUP 2

CAUTION
Possibly hazardous optical radiation emitted from this product

Groupe de risque 2

ATTENTION
Rayonnement optique evéntuellement dangereux émis par ce produit

Do not stare into the beam, RG2

"As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015"

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 lamp is on. The bright light may hurt your eyes.
- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

- Please do not open or disassemble the product as this may cause electric shock.

- When changing the lamp, please allow unit to cool down, and follow all changing instructions.

- This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.

- Reset the "Lamp Reset" function from the Onscreen display "Setup lamp settings menu" menu after replacing the lamp module.

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

- Turn on the projector first and then the signal sources.

- Do not use lens cap when projector is in operation.

- When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp".

TABLE OF CONTENTS

MAINTENANCE... 48

ADDITIONAL INFORMATION... 50

REGULATIONS AND SAFETY NOTICES 61

INTRODUCTION

Package overview

Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region to region.

The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

Standard accessories

Projector

Remote control

Power lead *(1)

☑ CD User Manual
☑ Warranty Card *
☑ Basic User Manual

Documentation
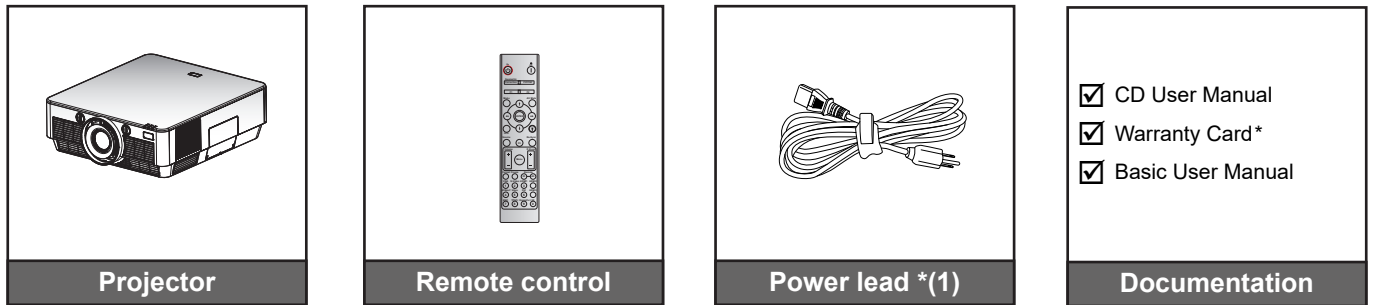
Note:

- *The remote control is shipped with the battery.*

- **(1) Power lead is depending on the region.*

Optional accessories

VGA cable

HDMI cable
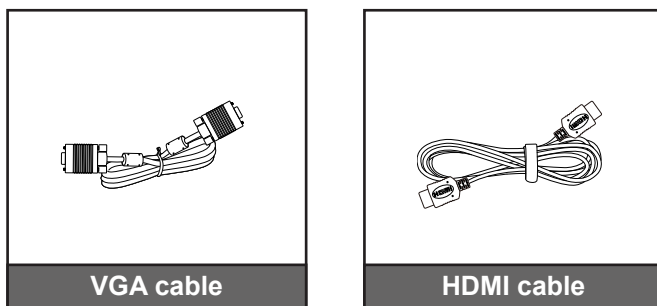
Note: *Optional accessories vary depending on model, specification and region.*

INTRODUCTION

Product overview
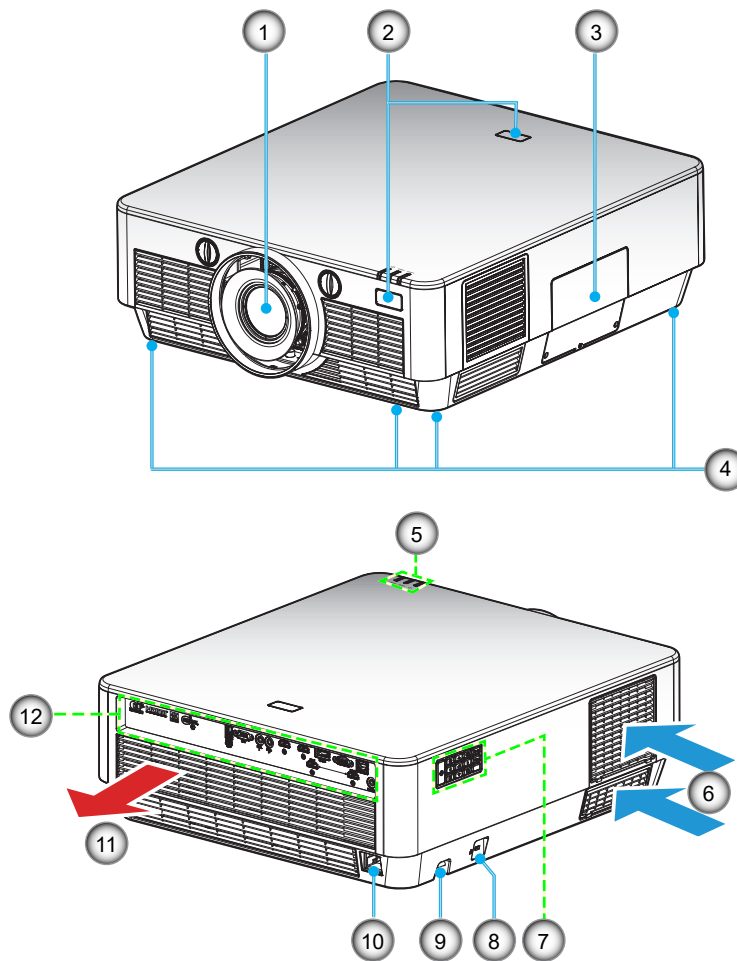
Note: *Keep a minimum distance of 20 cm between the "inlet" and "outlet" labels.*

No	Item	No	Item
1.	Lens	7.	Keypad
2.	IR Receiver	8.	Kensington™ Lock Port
3.	Lamp Cover	9.	Security Bar
4.	Tilt-Adjustment Feet	10.	Power Socket
5.	LED Status Indicators	11.	Ventilation (outlet)
6.	Ventilation (inlet)	12.	Input / Output

INTRODUCTION

Connections
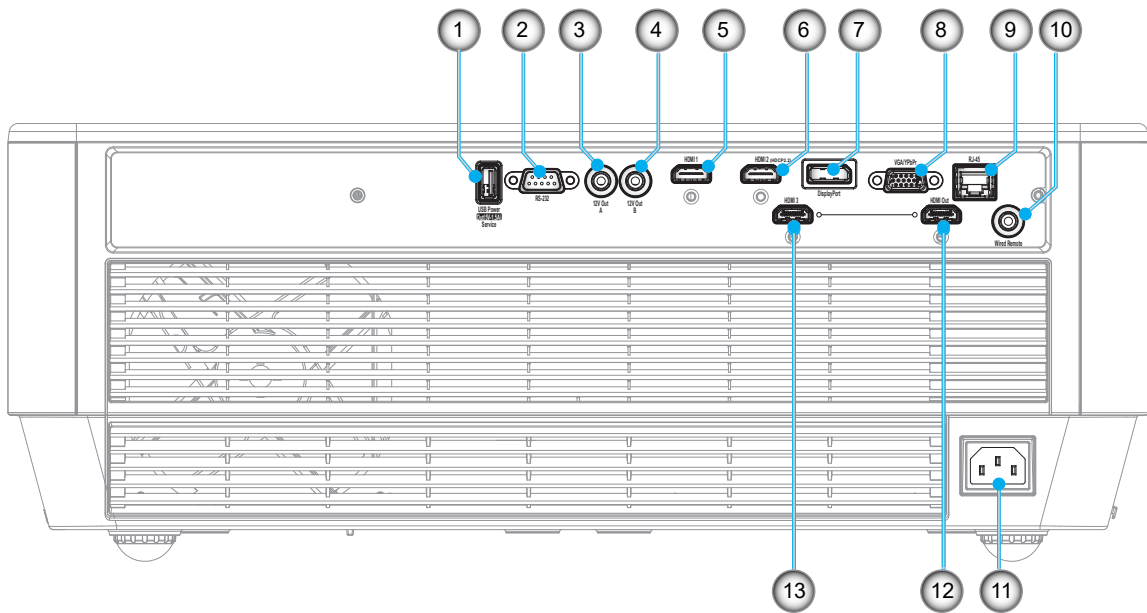
No	Item	No	Item
1.	USB Power Out (5V⎓1.5A)/Service Connector	8.	VGA/YPbPr Connector
2.	RS-232 Connector	9.	RJ-45 Connector
3.	12V Out A Connector	10.	Wired Remote Connector
4.	12V Out B Connector	11.	Power Socket
5.	HDMI 1 Connector	12.	HDMI Out Connector
6.	HDMI 2 (HDCP2.2) Connector(*)	13.	HDMI 3 Connector
7.	DisplayPort		

Note:

- *Remote mouse requires special remote control.*

- *This model supports mouse / service capability.*

- *(*)Only HDMI 2 (HDCP2.2) connector supports 4K (Ultra HD) at 60Hz refresh rate.*

INTRODUCTION

Keypad

LED status indicators

LAMP   TEMP
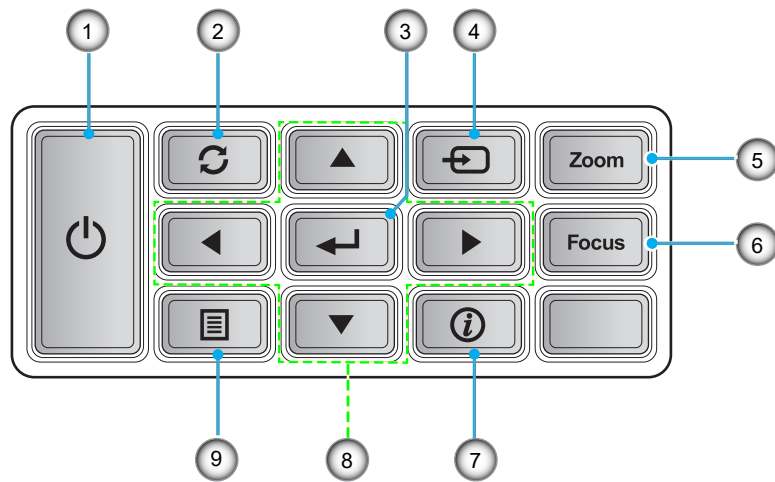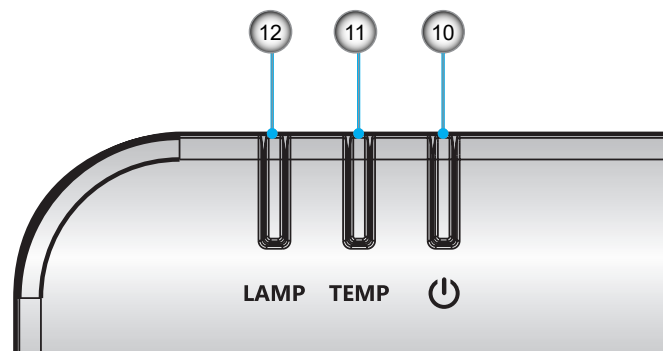
No	Item	No	Item
1.	Power	7.	Information
2.	Re-Sync	8.	Four Directional Select Keys
3.	Enter	9.	Menu
4.	Source	10.	On/Standby LED
5.	Zoom	11.	Temp LED
6.	Focus	12.	Lamp LED

INTRODUCTION

Remote control
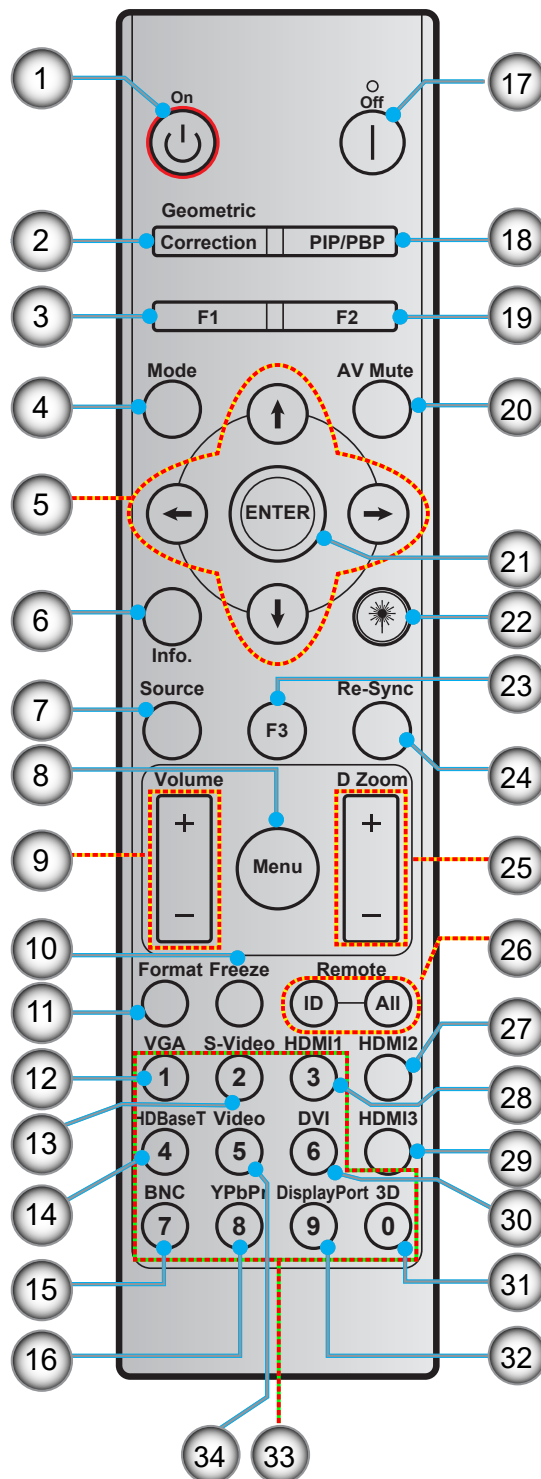
INTRODUCTION

No	Item	No	Item
1.	Power on	18.	PIP/PBP
2.	Geometric Correction	19.	Function button (F2) (Assignable)
3.	Function button (F1) (Assignable)	20.	AV mute
4.	Mode	21.	Enter
5.	Four directional select keys	22.	Laser
6.	Information	23.	Function button (F3) (Assignable)
7.	Source	24.	Re-sync
8.	Menu	25.	D (Digital) Zoom
9.	Volume - / +	26.	Remote ID / Remote all
10.	Freeze	27.	HDMI2
11.	Format (Aspect Ratio)	28.	HDMI1
12.	VGA	29.	HDMI3
13.	S-Video	30.	DVI
14.	HDBaseT	31.	3D
15.	BNC	32.	DisplayPort
16.	YPbPr	33.	Numeric keypad (0-9)
17.	Power off	34.	Video

Note:

- *Some keys may have no function for models that do not support these features.*

SETUP AND INSTALLATION

Installing the projector

Your projector is designed to be installed in one of four possible positions.

Your room layout or personal preference will dictate which installation location you select. Take into consideration the size and position of your screen, the location of a suitable power outlet, as well as the location and distance between the projector and the rest of your equipment.

Table mount front	Ceiling mount front

Table mount rear	Ceiling mount rear
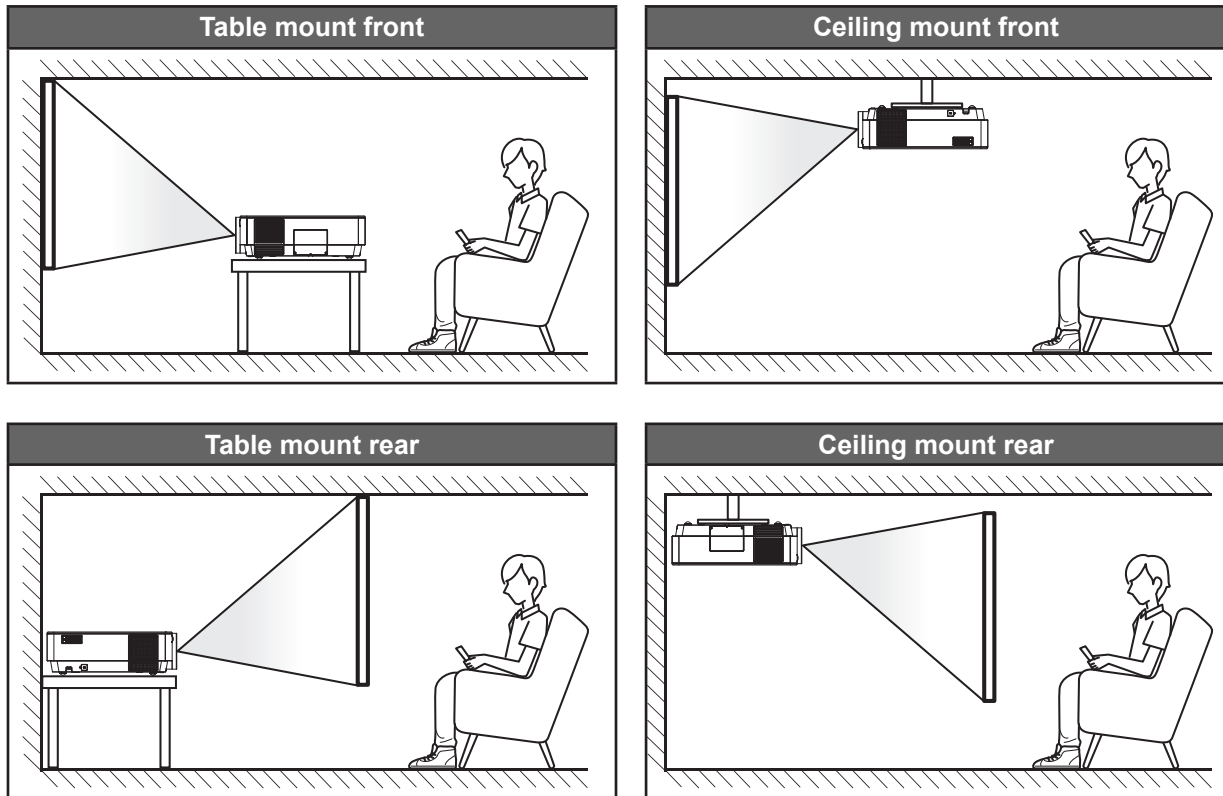
Projector should be placed flat on a surface and 90 degrees / perpendicular to the screen.

- How to determine projector location for a given screen size, please refer to distance table on page *52*.

- How to determine screen size for a given distance, please refer to distance table on pages *52*.

Note: *The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.*

IMPORTANT!

Do not operate the projector in any orientation other that table top or ceiling mount. The projector should be horizontal and not tilted either forwards/backwards or left/right. Any other orientation will invalidate the warranty and may shorten the lifetime of the projector lamp or the projector itself.

SETUP AND INSTALLATION

Connecting sources to the projector
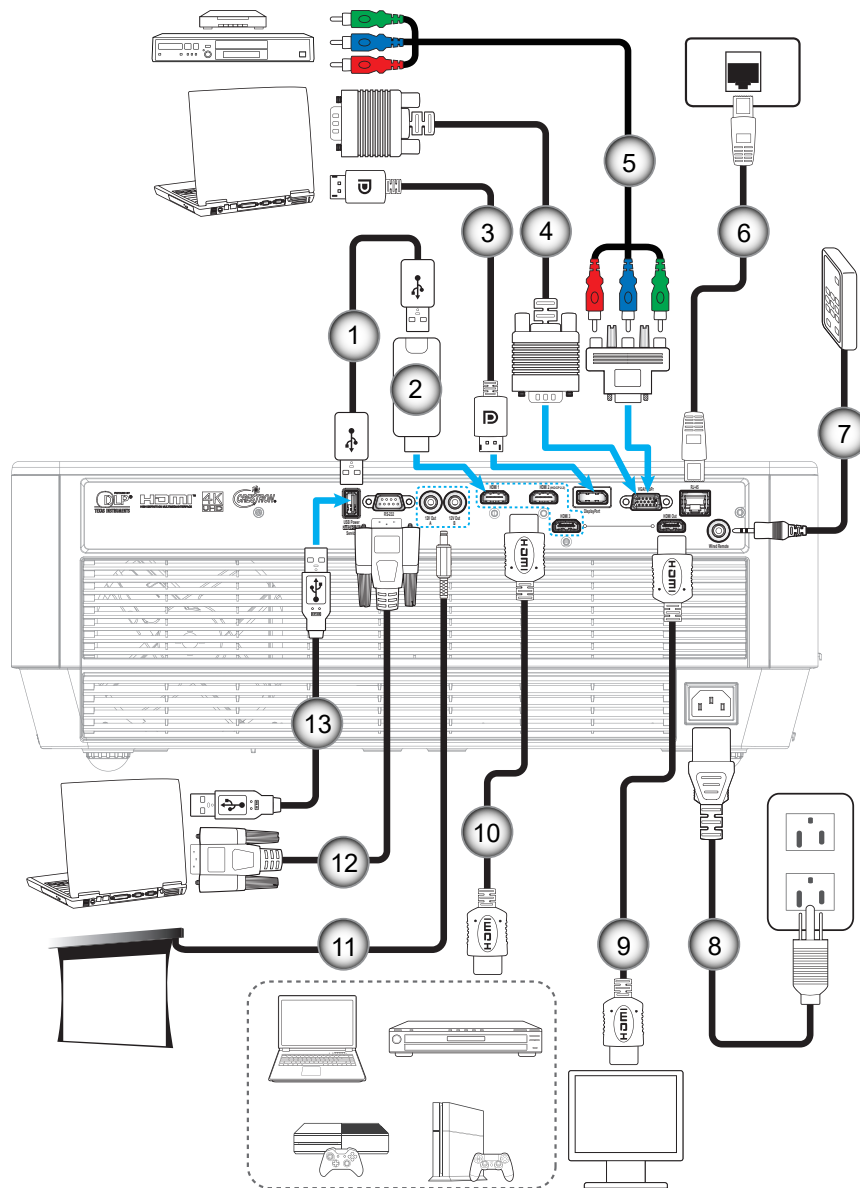
No	Item	No	Item
1.	USB Power Cable	8.	Power Cord
2.	HDMI Stick	9.	HDMI Cable
3.	DisplayPort Cable	10.	HDMI Cable(*)
4.	VGA In Cable	11.	12V DC Jack
5.	RCA Component Cable	12.	RS232 Cable
6.	RJ-45 Cable	13.	USB Cable
7.	Wired Remote Control Cable		

Note: *(*)The HDMI 2 (HDCP2.2) connector supports 4K (Ultra HD) at 60Hz refresh rate.*

SETUP AND INSTALLATION

Adjusting the projector image

Image height

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

1. Locate the adjustable foot you wish to adjust on the underside of the projector.
2. Rotate the adjustable foot clockwise or counterclockwise to raise or lower the projector.

Tilt-Adjustment Feet

Tilt-Adjustment Ring
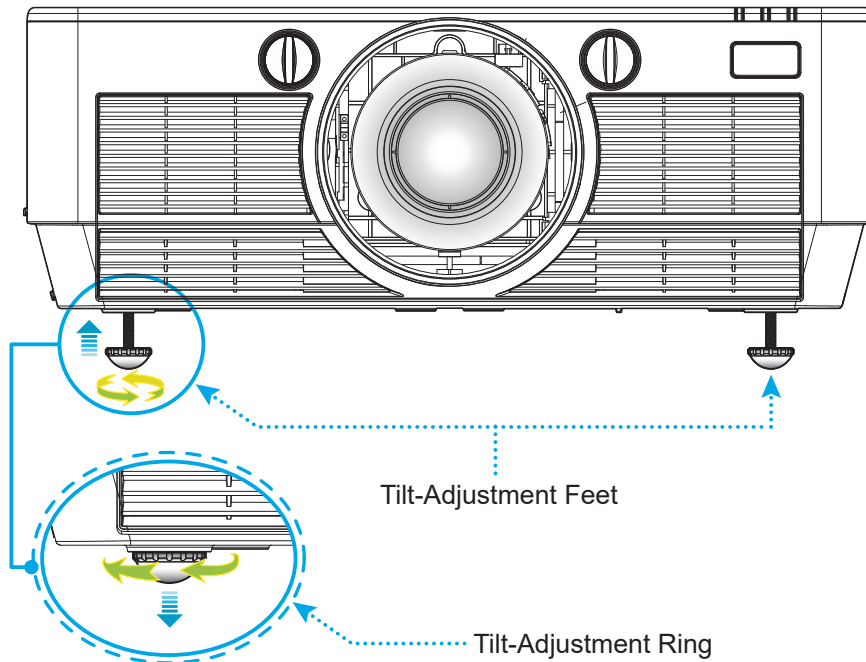
Zoom and **focus**

- Use the **Zoom** button to resize the projected image and screen size. ①

- Use the **Focus** button to sharpen the projected image. ②
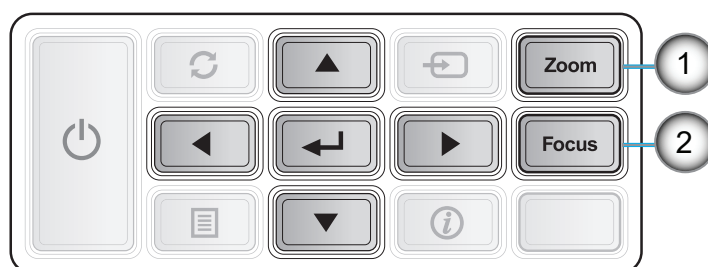
SETUP AND INSTALLATION

Remote setup

Installing / replacing the batteries

Two AAA size batteries are supplied for the remote control.

1. Remove the battery cover on the back of the remote control.
2. Insert AAA batteries in the battery compartment as illustrated.
3. Replace back cover on remote control.
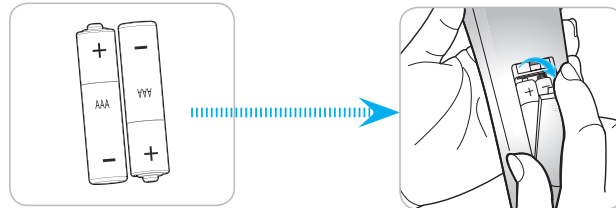
Note: *Replace only with the same or equivalent type batteries.*

CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.

- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.

- Remove batteries as soon as they are depleted. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.

- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.

- If you will not be using the remote control for an extended period of time, remove the batteries.

- When you dispose of the batteries, you must obey the law in the relative area or country.

Effective range

Infra-Red (IR) remote control sensor is located on the top side and on the front side of the projector. Ensure to hold the remote control at an angle within 30 degrees perpendicular to the projector's front IR remote control sensor and 20 degrees perpendicular to the projector's top IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer than 7 meters (~ 23 feet).

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.

- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.

- Please keep the remote controller away from fluorescent lamps for over 2 meters or the remote controller might become malfunction.

- If the remote control is closed to Inverter-Type fluorescent lamps, it might become ineffective from time to time.

- If the remote control and the projector are within a very short distance, the remote control might become ineffective.

- When you aim at the screen, the effective distance is less than 10 m from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.

SETUP AND INSTALLATION

Approx. ± 15°

Approx. ± 15°
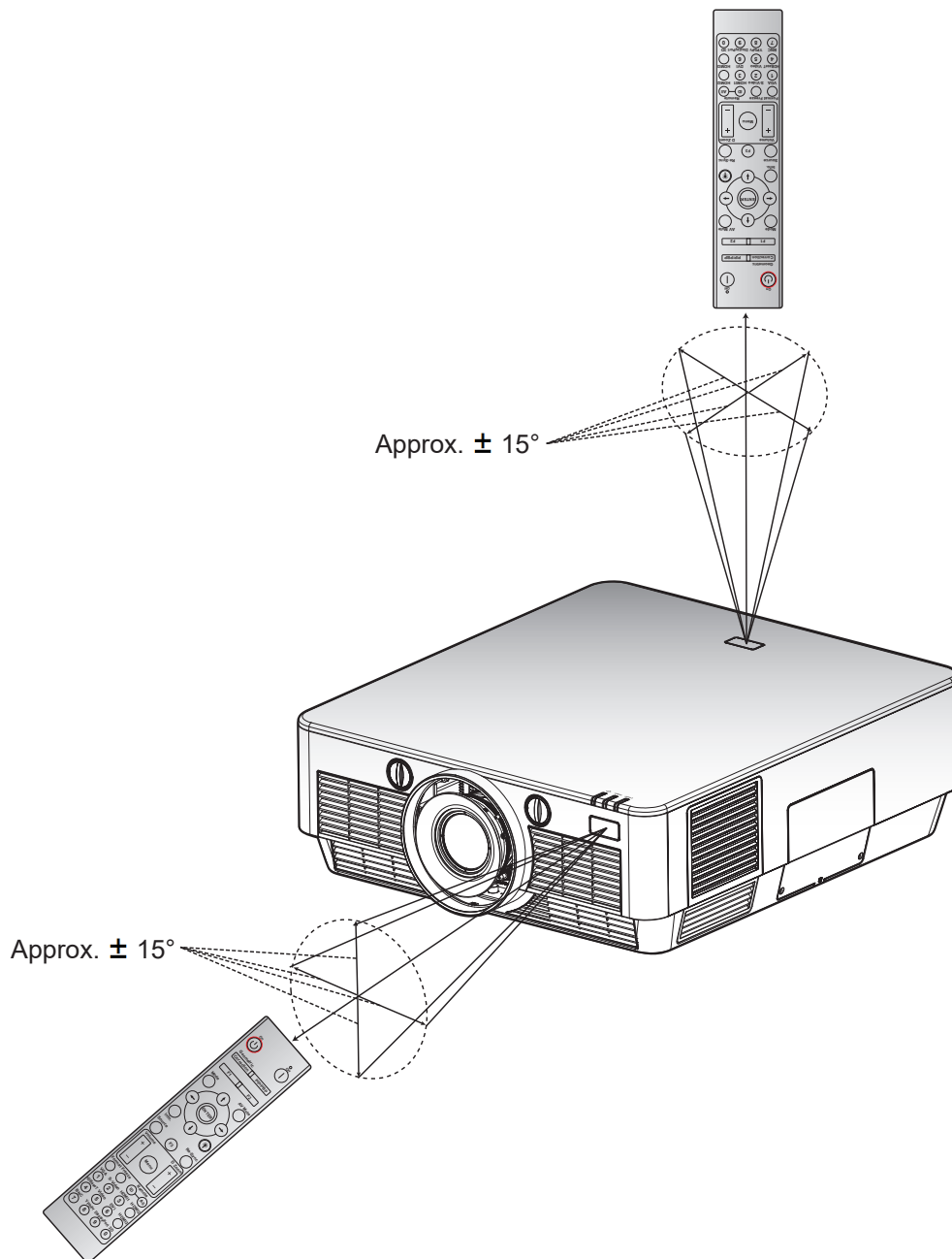
Wired Remote Control

Your projector supports also wired remote control connection. Wired remote control helps you to work outside of the operating range (7m/ ~23 feet). Connect the remote control to the projector with the remote control cable (not supplied). The remote control cable maximum length depends on the wired cable quality as follows:

- 5.0V≥VIH≥2.0V (High-level input voltage)

- 0.6V≥VIL≥0V (Low-level input voltage)

Note: *If the remote control is connected to the projector using a cable, then the remote control does not emit wireless signal.*

USING THE PROJECTOR

Powering on / off the projector

or
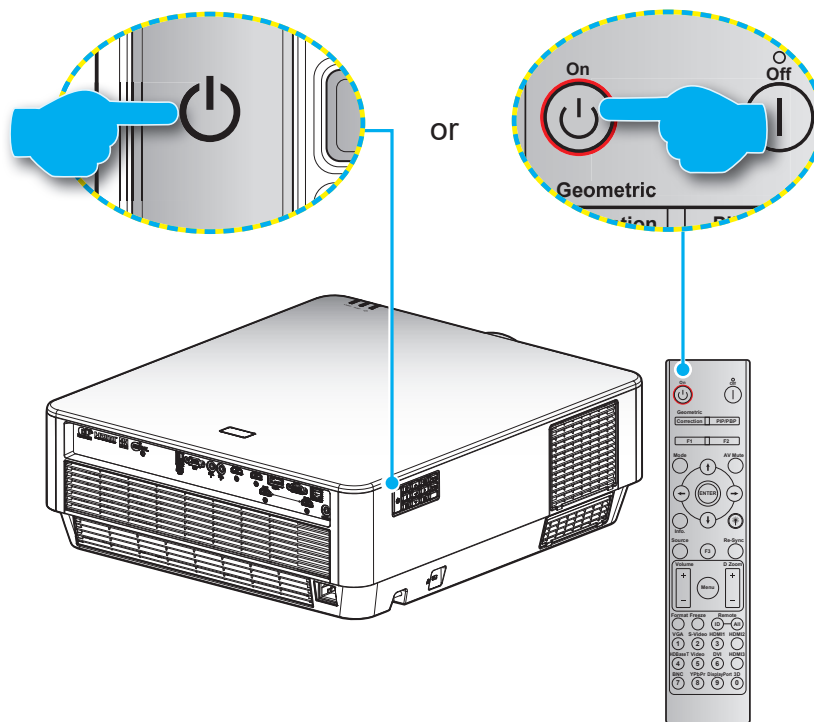
Powering on

1. Securely connect the power lead and signal/source cable. When connected, the On/Standby LED will turn red.
2. Turn on the projector by pressing the "⏻" either on the projector keypad or the remote control.
3. A start up screen will display in approximately 10 seconds and the On/Standby LED will be flashing blue.

Note: *The first time the projector is turned on, you will be prompted to select the preferred language, projection orientation, and other settings.*

Powering off

1. Turn off the projector by pressing the "⏻" either on the projector keypad or the remote control.
2. The following message will be displayed:
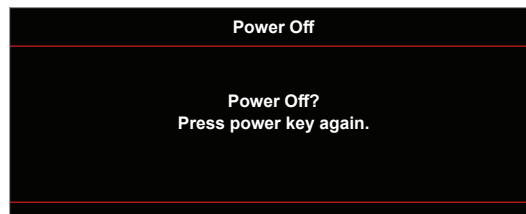
3. Press the "⏻" again to confirm, otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/Standby LED will flash blue. When the On/Standby LED turns solid red, this indicates the projector has entered standby mode. If you wish to turn the projector back on, you must wait until the cooling cycle has finished and the projector has entered standby mode. When the projector is in standby mode, simply press the "⏻" button again to turn on the projector.
5. Disconnect the power lead from the electrical outlet and the projector.

Note: *It is not recommended that the projector is turned on immediately, right after a power off procedure.*

USING THE PROJECTOR

Selecting an input source

Turn on the connected source that you want to display on the screen, such as computer, notebook, video player, etc. The projector will automatically detect the source. If multiple sources are connected, push the source button on the projector keypad or the remote control to select the desired input.
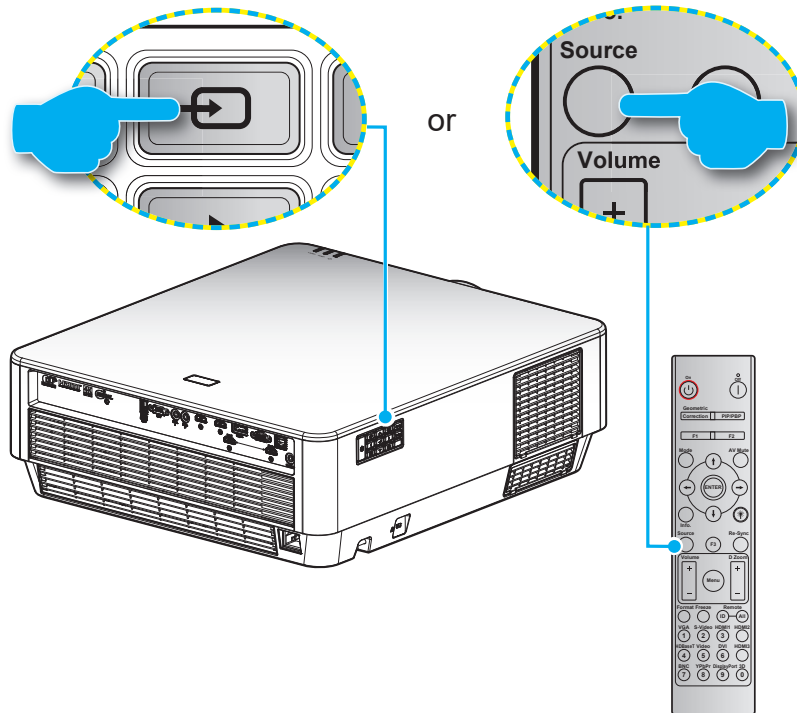
USING THE PROJECTOR

Menu navigation and features

The projector has multilingual on-screen display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

1.   To open the OSD menu, press **Menu** on the remote control or ▤ on the projector keypad.

2.   When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection on a particular page, press ↵ or ▶ key to enter sub menu.

3.   Use ◀▶ keys to select the desired item in the sub menu and then press ↵ or ▶ key to view further settings. Adjust the settings by using ◀▶ keys.

4.   Select the next item to be adjusted in the sub menu and adjust as described above.

5.   Press the ↵ or ▶ to confirm, and the screen will return to the main menu.

6.   To exit, press the ◀ or ▤ again. The OSD menu will close and the projector will automatically save the new settings.

Sub Menu

Settings

Display

Main Menu

Image Settings ▶
Aspect Ratio 4:3
Edge Mask 0
Digital Zoom 0
Image Shift ▶

⬍ Select   ◀▤ Exit   ↵▶ Enter

Navigation guide
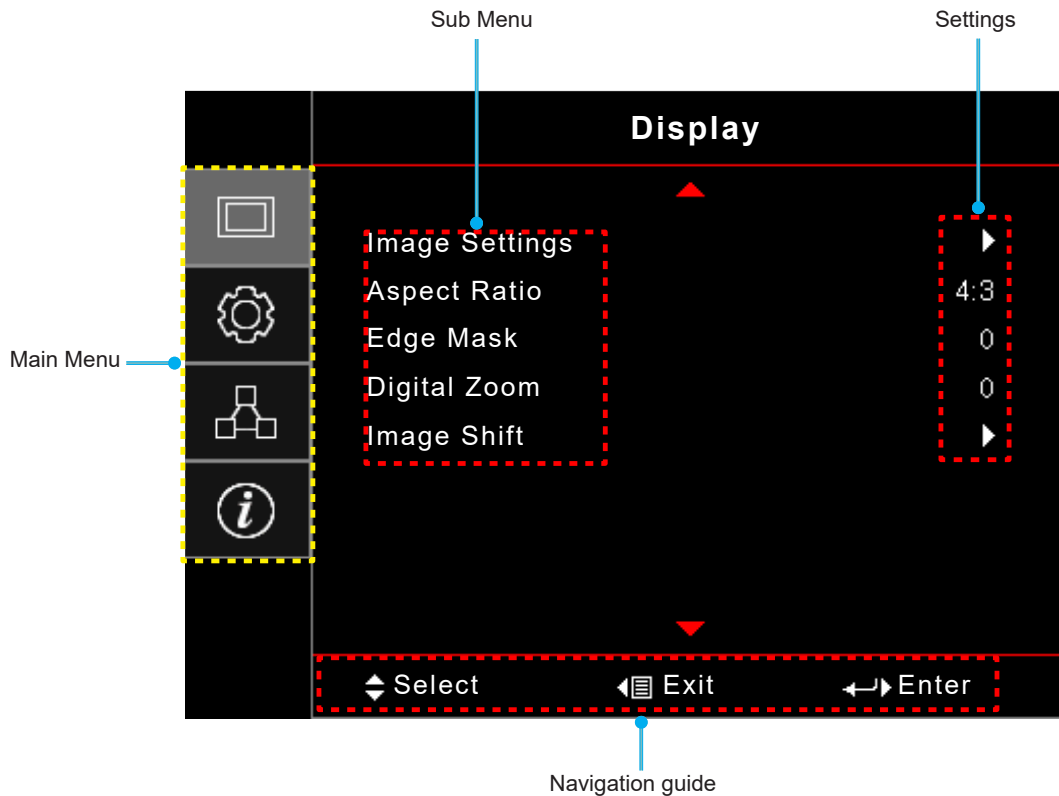
USING THE PROJECTOR

OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Display Mode			Presentation
					Bright
					Cinema
					Game
					sRGB
					DICOM SIM.
					Blending
					User
		Wall Color			Off [Default]
					BlackBoard
					Light Yellow
					Light Green
					Light Blue
					Pink
					Gray
		Dynamic Range			Auto
					SDR
					HDR1
					HDR2
					HDR3
					HDR4
		Brightness			-50~50
		Contrast			-50~50
		Sharpness			1~15
		Color			-50~50
		Tint			-50~50
		Gamma	Film		
			Video		
			Graphics		
			Standard(2.2)		
			1.8		
			2.0		
			2.4		
		Color Settings	BrilliantColor™		1~10
			Color Temperature		D55
					D65
					D75
					D83
					D93
					Native

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Color Settings	Color Gamut		Native
					HDTV
					Presentation
					Cinema
					Game
			CMS	Color	R [Default]
					G
					B
					C
					Y
					M
					W
				x offset	-50~50 [Default: 0]
				y offset	-50~50 [Default: 0]
				Brightness	-50~50 [Default: 0]
				Reset	Cancel [Default]
					Yes
				Exit	
			RGB Gain/Bias	Red Gain	-50~50
				Green Gain	-50~50
				Blue Gain	-50~50
				Red Bias	0~100
				Green Bias	0~100
				Blue Bias	0~100
				Reset	Cancel [Default]
					Yes
				Exit	
			Color Space [Not HDMI Input]		Auto [Default]
					RGB
					YUV
			Color Space [HDMI Input]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
					YUV
		Signal	Automatic		Off
					On [Default]
			Frequency		-50~50 (depends on signal) [Default: 0]
			Phase		0~31 (depends on signal) [Default: 0]
			H. Position		-50~50 (depends on signal) [Default: 0]
			V. Position		-50~50 (depends on signal) [Default: 0
			Exit		
		Lens IRIS			1~12
		Dynamic Contrast			Off
					On

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Brightness Mode			Bright
					Eco.
		PureEngine	UltraDetail		Off
					1
					2
					3
			PureColor		Off
					1
					2
					3
					4
					5
			PureMotion		Off
					1
					2
					3
			PureMotion Demo		Off [Default]
					H Split
					V Split
		Reset			
	Aspect Ratio				4:3
					16:9
					LBX
					Superwide
					Native
					Auto
	Edge Mask				0~10 [Default: 0]
	Digital Zoom				-5~25 [Default: 0]
	Image shift	H: -100~100	⬜		[Default:0]
		V: -100~100	◧		
Setup	Projection				Front [Default]
					Rear
					Ceiling-top
					Rear-top
	Lamp Settings	Lamp Reminder			Off
					On [Default]
		Lamp Reset			Cancel [Default]
					Yes

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Fitler Settings	Filter Usage Hours			(Read only)
		Optional Filter Installed			Yes
					No
		Filter Reminder			Off
					300hr
					500hr [Default]
					800hr
					1000hr
		Filter Reset			Cancel [Default]
					Yes
	Lens Settings	Zoom/Focus	Lock		
			Unlock		
		Zoom	+		
			-		
		Focus	+		
			-		
		Compensate Focus			Off
					On
					Calibration
	Power Settings	Direct Power On			Off [Default]
					On
		Auto Power Off (min)			0~180 (5 min increments) [Default: 0]
		Sleep Timer (min)			0~990 (30 min increments) [Default: 0]
			Always On		No [Default]
					Yes
		Power Mode (Standby)			Active
					Eco [Default]
	Security	Security			Off
					On
		Security Timer	Month		
			Day		
			Hour		
		Change Password			
	Test Pattern				Green Grid
					Magenta Grid
					White Grid
					White
					Off

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Remote Settings [depends on remote]	IR Function			On
					Front
					Top
					Off
		Remote Code			0~99
		F1			Test Pattern
					LAN
					Brightness
					Contrast
					Sleep Timer
					CMS
					Color Temp
					Gamma
					Auto Source
					Projection
					Lamp Settings
					Zoom [Default]
					Focus
					Lens IRIS
		F2			Test Pattern
					LAN
					Brightness
					Contrast
					Sleep Timer
					CMS
					Color Temp
					Gamma
					Auto Source
					Projection
					Lamp Settings
					Zoom
					Focus [Default]
					Lens IRIS
		F3			Test Pattern
					LAN
					Brightness
					Contrast
					Sleep Timer
					CMS
					Color Temp

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Remote Settings [depends on remote]	F3			Gamma
					Auto Source
					Projection
					Lamp Settings
					Zoom
					Focus
					Lens IRIS [Default]
	Projector ID				0~99
	12V Trigger	12V Trigger A			On
					Off
		12V Trigger B			On
					Off
	Options	Language			English [Default]
					Español
					Français
					Deutsch
					Português
					简体中文
					Italiano
					Русский
					日本語
					한국어
	Options	Menu Settings	Menu Location		Top left
					Top right
					Center [Default]
					Bottom left
					Bottom right
			Menu Timer		Off
					5sec
					10sec [Default]

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Auto Source			Off [Default]
					On
		Input Source			HDMI1
					HDMI2
					HDMI3
					VGA
					DisplayPort
		High Altitude			Off [Default]
					On
		Display Mode Lock			Off [Default]
					On
		Keypad Lock			Off [Default]
					On
		Information Hide			Off [Default]
					On
		Logo			Default [Default]
					Neutral
		Background Color			None [Default]
					Blue
					Red
					Green
					Grey
		HDMI 2 Setting			EDID 1 [Default]
					EDID 2
		HDMI EQ			HDMI1 EQ
					HDMI2 EQ
					HDMI3 EQ
		Detail Filter			0
					1 [Default]
					2
	Reset	Reset OSD			Cancel [Default]
					Yes
		Reset to Default			Cancel [Default]
					Yes
Network	LAN	Network Status			(read only)
		MAC Address			(read only)
		DHCP			Off [Default]
					On
		IP Address			192.168.0.100 [Default]
		Subnet Mask			255.255.255.0 [Default]
		Gateway			192.168.0.254 [Default]
		DNS			192.168.0.51 [Default]
		Reset			

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Network	Control	Crestron			Off
					On [Default] **NOTE:** *Port 41794.*
		HTTP			Off
					On [Default] **NOTE:** *Port 80*
Information	Model Name				
	Serial Number				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
	Power mode(standby)				
	Lamp Hours	Bright			0H
		Eco			0H
		Total			
	Remote Code				00~99 **NOTE:** *Show remote in system.*
	Remote Code (Active)				00~99 **NOTE:** *Show remote from Remote.*
	Network Status				
	IP Address				
	Projector ID				00~99
	Filter Usage Hours				
	Brightness Mode				
	FW Version	System			
		LAN			
		MCU			

Note: *Each display mode can be adjusted and saved the value.*

USING THE PROJECTOR

Display menu

Display image settings menu

Display Mode

There are many factory presets optimized for various types of images.

- **Presentation**: This mode is suitable for showing PowerPoint presentations when the projector is connected to the PC.
- **Bright**: Maximum brightness from PC input.
- **Cinema**: Select this mode for home theater.
- **Game**: Select this mode to increase the brightness and response time level for enjoying video games.
- **sRGB**: Standardized accurate color.
- **DICOM SIM.**: This mode can project a monochrome medical image such as an X ray radiography, MRI, etc.
- **Blending**: Select this mode when projecting one image from different projectors.
- **USER**: Memorize user's settings.

Wall Color

Use this function to obtain an optimized screen image according to the wall color. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

Dynamic Range

Compatible with the latest Dynamic Range format, which delivers crisp, clear images with sharp changes in brightness, and provides realistic images with enhanced details, extended depth of field, and rich color gamut. Dynamic Range has 4 levels and each level suits different type of content, including dark and bright scene.

 Note: *If the Dynamic Range option is adjusted under the SDR (Standard Dynamic Range) signal, the screen is an abnormal color.*

Brightness

Adjust the brightness of the image.

Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture.

Sharpness

Adjust the sharpness of the image.

Color

Adjust a video image from black and white to fully saturated color.

Tint

Adjust the color balance of red and green.

Gamma

Set up gamma curve type. After the initial setup and fine tuning is completed, utilize the Gamma Adjustment steps to optimize your image output.

- **Film**: For home theater.
- **Video**: For video or TV source.
- **Graphics**: For PC / Photo source.
- **Standard(2.2)**: For standardized setting.

USING THE PROJECTOR

- **1.8/ 2.0/ 2.4**: For specific PC / Photo source.

Color Settings

Configure the color settings.

- **BrilliantColor™**: This adjustable item utilizes a new color-processing algorithm and enhancements to enable higher brightness while providing true, more vibrant colors in picture.
- **Color Temperature (data-mode only)**: Select a color temperature from D55, D65, D75, D83, D93, or Native.
- **Color Gamut**: Select an appropriate color gamut from Native, HDTV, Presentation, Cinema, or Game.
- **CMS (Color Management System)**: Select one of the colors (R/G/B/C/M/Y) to adjust its x/y offset and brightness.
    - Color: Select between red (R), green (G), blue (B), cyan (C), yellow (Y), magenta (M), and white(W) color.
    - x offset: Adjust the x offset value of the selected color.
    - y offset: Adjust the y offset value of the selected color.
    - Brightness: Adjust the brightness value of the selected color.
    - Reset: Return the factory default settings for color adjustments.
    - Exit: Exit the "CMS" menu.
- **RGB Gain/Bias:** This settings allows to configure the brightness (gain) and contrast (bias) of an image.
    - Reset: Return the factory default settings for RGB gain/bias.
    - Exit: Exit the "RGB Gain/Bias" menu.
- **Color Space (non-HDMI input only)**: Select an appropriate color matrix type from the following: AUTO, RGB, or YUV.
- **Color Space (HDMI input only)**: select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.

Signal

Adjust the signal options.

- **Automatic**: Configure automatically the signal (the frequency and phase items are grayed out). If automatic is disabled, the frequency and phase items will appear for tuning and saving the settings.
- **Frequency**: Change the display data frequency to match the frequency of your computer's graphic card. Use this function only if the image appears to flicker vertically.
- **Phase**: Synchronize the signal timing of the display with the graphic card. If the image appears to be unstable or flickers, use this function to correct it.
- **H. Position**: Adjust the horizontal positioning of the image.
- **V. Position**: Adjust the vertical positioning of the image.
- **Exit**: Exit the "Signal" menu.

Lens IRIS

Adjust the Lens IRIS. Lens IRIS is an aperture structure in lens and it can change the amount of light output.

Dynamic Contrast

Dynamic Contrast enables the projector to automatically optimize the brightness of the display during dark / light movie scenes to be shown in incredible detail.

USING THE PROJECTOR

Brightness Mode

Adjust the brightness mode settings.

- **Bright**: Choose "Bright" to increase the brightness.
- **Eco**: Choose "Eco" to dim the projector lamp which will lower power consumption and extend the lamp life.

PureEngine

Adjust the PureEngine parameters.

- **UltraDetail**: Adjust the edges of the projected image in order to provide more perceived details.
- **PureColor**: Use to significantly increase the image's vividness.
- **PureMotion**: Use to preserve a natural motion of the displayed image.
- **PureMotion Demo**: This feature enables you to see the difference in the image quality between the raw unprocessed image and the image processed as processed by the PureMotion. Use this mode to check the adjustments that you make to the PureMotion settings.

Reset

Return the factory default settings for color settings.

Display aspect ratio menu

Aspect Ratio

Select the aspect ratio of the displayed image between the following options:

- **4:3**: This format is for 4:3 input sources.

- **16:9**: This format is for 16:9 input sources, like HDTV and DVD enhanced for Wide screen TV.

- **LBX**: This format is for non-16x9, letterbox source and if you use external 16x9 lens to display 2.35:1 aspect ratio in full resolution.

- **Superwide**: Use this special 2.0:1 aspect ratio to display both 16:9 and 2.35:1 aspect ratio movies without black bars at the top and bottom of the screen.

- **Native**: This format displays the original image without any scaling.

- **Auto**: Automatically selects the appropriate display format.

Note:

- *Detailed informations about LBX mode:*
  - *Some Letter-Box Format DVDs are not enhanced for 16x9 TVs. In this situation, the image will not look right when displaying image in 16:9 mode. In this situation, please try to use the 4:3 mode to view the DVD. If the content is not 4:3, there will be black bars around the image in 16:9 display. For this type of content, you can use LBX mode to fill the image on the 16:9 display.*
  - *If you use an external anamorphic lens, this LBX mode also allows you to watch a 2.35:1 content (include Anamorphic DVD and HDTV film source) that supports anamorphic wide is enhanced for 16x9 Display in a wide 2.35:1 image. In this case, there are no black bars. Lamp power and vertical resolution are fully utilized.*

- *To use the superwide format, do the following:*
  - a) *Set the screen aspect ratio to 2.0:1.*
  - b) *Select "Superwide" format.*
  - c) *Align the projector image correctly on the screen.*

USING THE PROJECTOR

4K UHD scaling table:

16 : 9 screen	480i/p	576i/p	720p	1080i/p	2160p
4x3	Scale to 2880x2160.				
16x9	Scale to 3840x2160.				
LBX	Get the central 3840x1620 image, and then scale to 3840x2160 for display.				
Native mode	1:1 mapping centered. No scaling will be made; the displayed resolution depends on input source.				
Auto	-If source is 4:3, the screen type will be scaled to 2880x2160. -If source is 16:9, the screen type will be scaled to 3840x2160. -If source is 15:9, the screen type will be scaled to 3600x2160. -If source is 16:10, the screen type will be scaled to 3456x2160.				

Auto mapping rule:

	Input resolution		Auto/Scale	
	H-resolution	**V-resolution**	**3840**	**2160**
4:3	640	480	2880	2160
	800	600	2880	2160
	1024	768	2880	2160
	1280	1024	2880	2160
	1400	1050	2880	2160
	1600	1200	2880	2160
Wide Laptop	1280	720	3840	2160
	1280	768	3600	2160
	1280	800	3456	2160
SDTV	720	576	2700	2160
	720	480	3240	2160
HDTV	1280	720	3840	2160
	1920	1080	3840	2160

Display edge mask menu

Edge Mask

Use this function to remove the video encoding noise on the edge of video source.

Display digital zoom menu

Digital Zoom

Use to digitally reduce or magnify an image on the projection screen.

Display image shift menu

Image Shift

Adjust the projected image position horizontally (H) or vertically (V).

USING THE PROJECTOR

Setup menu

Setup projection menu

Projection

Select the preferred projection between front, rear, ceiling-top, and rear-top.

Setup lamp settings menu

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.

Lamp Reset

Resets the lamp hour counter after replacing the lamp.

Setup filter settings menu

Filter Usage Hours

Display the filter time.

Optional Filter Installed

Set the warning message setting.

- **Yes:** Display warning message after 500 hours of use.

Note: *"Filter Usage Hours / Filter Reminder / Filter Reset" will only appear when "Optional Filter Installed" is "Yes".*

- **No:** Turn off warning message.

Filter Reminder

Choose this function to show or hide the warning message when the changing filter message is displayed. The available options include 300hr, 500hr, 800hr, and 1000hr.

Filter Reset

Reset the dust filter counter after replacing or cleaning the dust filter.

Setup lens settings menu

Lens Settings

Configure the lens settings.

- **Zoom/Focus**: Enble/Disable the zoom and focus adjustment functions.

- **Zoom**: Adjust the zoom on the projected image.

- **Focus**: Adjust the focus on the projected image.

- **Compensate Focus**

    – Off: Focus compensation is inactive.

    – On: Focus compensation is active.

    – Calibration: Execute focus calibration function.

Note: *While the 1st time to set the "Compensate Focus", there are"Off" and "Calibration" items. After running the "Calibration" function, "On" item will be active. Please refer to the "Quick Start Guide" for detailed information.*

USING THE PROJECTOR

Setup power settings menu

Direct Power On

Choose "On" to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the "Power" key on the projector keypad or on the remote control.

Auto Power Off (min.)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Sleep Timer (min.)

Configure the sleep timer.

- **Sleep Timer (min.):** Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

   Note: *The Sleep Timer is reset every time when the projector is powered off.*

- **Always On:** Check to set the sleep timer always on.

Power Mode (Standby)

Set the power mode setting.

- **Active:** Choose "Active" to return to normal standby.

- **Eco:** Choose "Eco." to save power dissipation further < 0.5W.

Setup security menu

Security

Enable this function to prompt for a password before using the projector.

- **On:** Choose "On" to use security verification when the turning on the projector.

- **Off:** Choose "Off" to be able to switch on the projector without password verification.

Security Timer

Can be select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.

Change Password

Use to set or modify the password that is prompted when turning the projector on.

Setup test pattern menu

Test Pattern

Select the test pattern from green grid, magenta grid, white grid, white or disable this function (off).

Setup remote settings menu

IR Function

Set the IR function setting.

- **On:** Choose "On", the projector can be operated by the remote control from top and front IR receivers.

- **Front:** Choose "Front", the projector can be operated by the remote control from the front IR receiver.

- **Top:** Choose "Top", the projector can be operated by the remote control from the top IR receiver.

- **Off:** Choose "Off", the projector can't be operated by the remote control. By selecting "Off", you will be able to use the Keypad keys.

USING THE PROJECTOR

Remote Code

Set the remote custom code by pressing the remote ID button for 3 seconds and you will notice the remote indicator (above the **Off** button) starts blinking. Then, input a number between 00-99 using the keyboard numbered keys. After inserting the number, the remote indicator blinks twice quickly indicating that the remote code has changed.

F1/ F2/ F3

Assign the default function for F1, F2, or F3 between Test Pattern, LAN, Brightness, Contrast, Sleep Timer, CMS, Color Temp, Gamma, Auto Source, Projection, Lamp Settings, Zoom, Focus, or Lens IRIS.
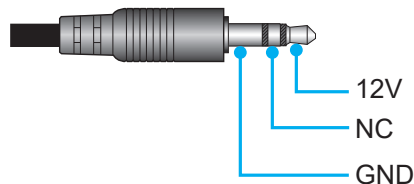
Setup projector ID menu

Projector ID

ID definition can be set up by menu (range 0-99), and allow user control an individual projector by using RS232 command.

Setup 12V trigger menu

12V Trigger A / 12V Trigger B

- 12V
- NC
- GND

- • **Off**: Choose "Off" to disable the 12V trigger for 3.5mm ear phone.
- • **On**: Choose "On" to enable the 12V trigger for 3.5mm ear phone.

Setup options menu

Language

Select the multilingual OSD menu between English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Swedish, Norwegian/Danish, Finnish, Greek, traditional Chinese, simplified Chinese, Japanese, Korean, Russian, Hungarian, Czechoslovak, Arabic, Turkish.

Menu Settings

Set the menu location on the screen and configure menu timer settings.

- • **Menu Location**: Select the menu location on the display screen.
- • **Menu Timer**: Set the duration where the OSD menu stays visible on the screen.

Auto Source

If you set this option "On" and press the ⊡ button on the projector keypad or **Source** button on the remote control then the next available input source is selected automatically. Set "Off" to disable auto source function.

Input Source

Select the input source between HDMI1, HDMI2, HDMI3, VGA, and DisplayPort.

High Altitude

When "On" is selected, the fans will spin faster. This feature is useful in high altitude areas where the air is thin.

Display Mode Lock

Choose "On" or "Off" to lock or unlock adjusting display mode settings.

USING THE PROJECTOR

Keypad Lock

When the keypad lock function is "On", the Keypad will be locked. However, the projector can be operated by the remote control. By selecting "Off", you will be able to reuse the Keypad.

Information Hide

Enable this function to hide the information message.

- **Off:** Choose "On" to hide the info message.

- **On:** Choose "Off" to show the "searching" message.

Logo

Use this function to set the desired startup screen. If changes are made, they will take effect the next time the projector is powered on.

- **Default:** The default startup screen.

- **Neutral:** Logo is not displayed on startup screen.

Background Color

Use this function to display a blue, red, green, grey color, or none when no signal is available.

HDMI 2 Setting

Configure the HDCP2.2-compatible HDMI 2 connector settings.

- **EDID 1**: For 480i/p, 576i/p, 720p, 1080i/p, or 2160p input signal.

- **EDID 2**: For non-interlaced signals only.

HDMI EQ

Set the HDMI port EQ value for HDMI1, HDMI2, or HDMI3.

Detail Filter

Apply detail filter between 0, 1, and 2.

Setup reset menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for Setup menu settings.

Network LAN menu

Network Status

Display the network connection status (read-only).

MAC Address

Display the MAC address (read-only).

DHCP

Use this option to enable or disable the DHCP function.

- **On**: Projector will obtain an IP address automatically from your network.

- **Off**: To assign IP, subnet mask, gateway, and DNS configuration manually.

 Note: *Exiting OSD will automatically apply the entered values.*

IP Address

USING THE PROJECTOR

Display the IP address.

Subnet Mask

Display subnet mask number.

Gateway

Display the default gateway of the network connected to the projector.

DNS

Display the DNS number.

## How to use web browser to control your projector

1. Turn "On" the DHCP option on projector to allow a DHCP server to automatically assign an IP address.
2. Open the web browser in your PC and type in the projector's IP address ("Network > LAN > IP Address").
3. Enter the user name and password, and click "Login".
   The projector's configuration web interface opens.

Note:

- *The default user name and password is "admin".*

- *The steps in this section is based on Windows 7 operating system*.

Making a direct connection from your computer to the projector*

1. Turn "Off" the DHCP option on the projector.
2. Configure the IP address, Subnet Mask, Gateway, and DNS on projector ("Network > LAN").
3. Open *Network and Sharing Center* page on your PC, and assign the identical network parameters to your PC as set on projector. Click "OK" to save the parameters.
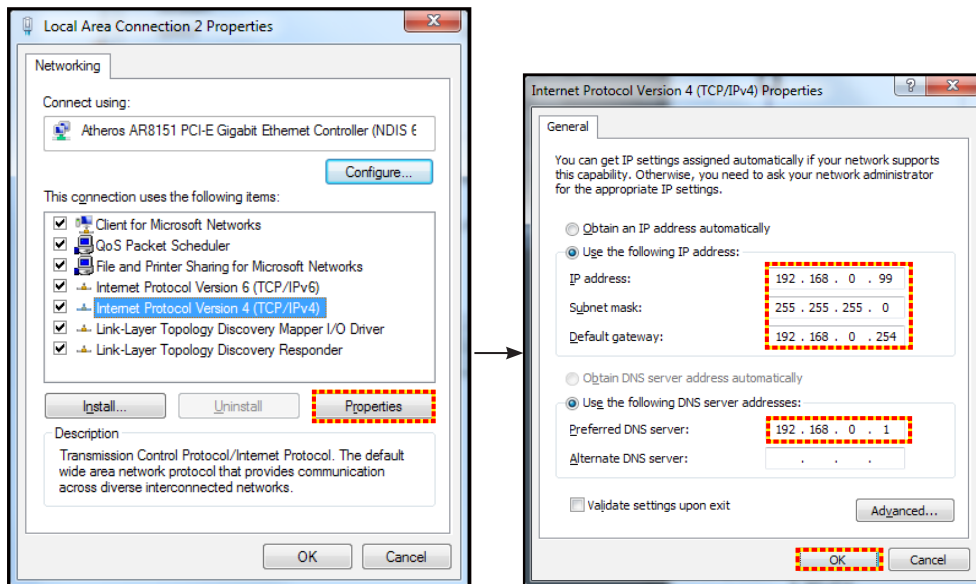
4. Open the web browser on your PC and type in to the URL field the IP address, assigned in step 3. Then press "Enter" key.

Reset

Reset all values for LAN parameters.

Network control menu

Crestron

Use this function to select the network function (port: 41794).

USING THE PROJECTOR

For more information, please visit http://www.crestron.com and www.crestron.com/getroomview.

HTTP

Use this function to select the network function (port: 80).

Setup network control settings menu

LAN_RJ45 function

For simplicity and ease of operation, the projector provides diverse networking and remote management features. The LAN / RJ45 function of the projector through a network, such as remotely manage: Power On / Off, brightness, and contrast settings. Also, you can view the projector status information, such as: Video- Source, Sound-Mute, etc.
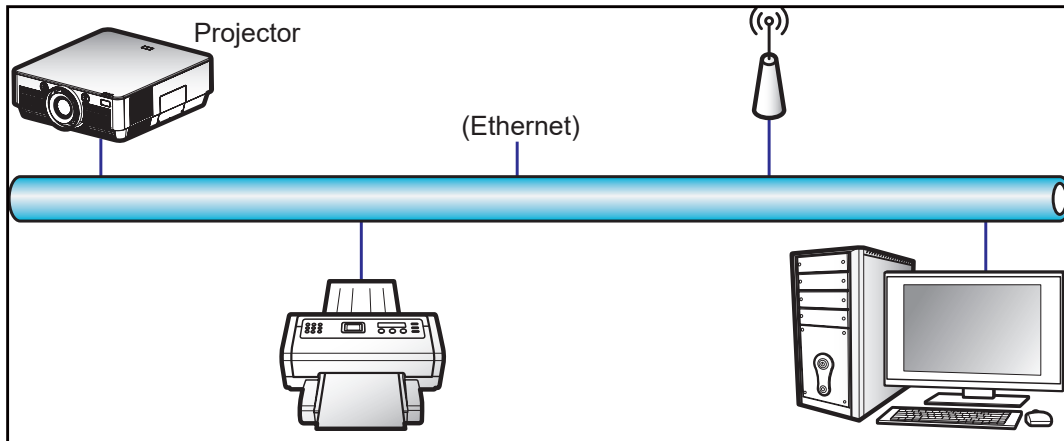
Wired LAN terminal functionalities

This projector can be controlled by using a PC (laptop) or other external device via LAN / RJ45 port and compatible with Crestron.

   • Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.

The projector is supported by the specified commands of the Crestron Electronics controller and related software,

for example RoomView®.

   http://www.crestron.com/

For more detailed information about the various types of external devices which can be connected to the LAN / RJ45 port and remote control the projector, as well as the supported commands for these external devices, please contact the Support-Service directly.
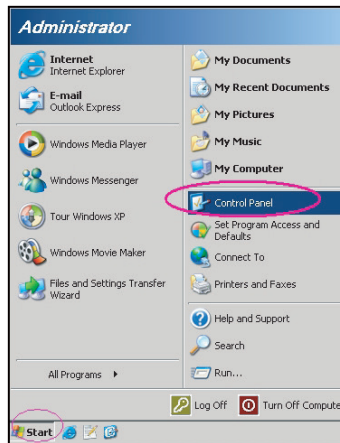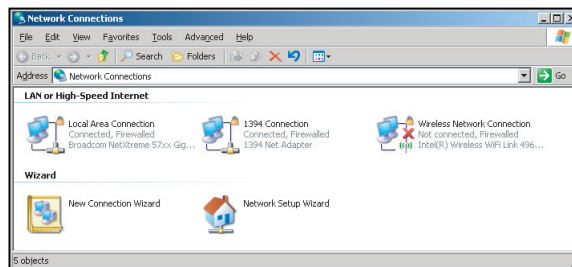
USING THE PROJECTOR

<u>LAN RJ45</u>

1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (laptop).
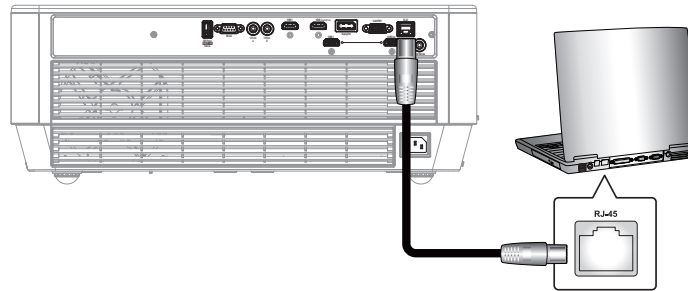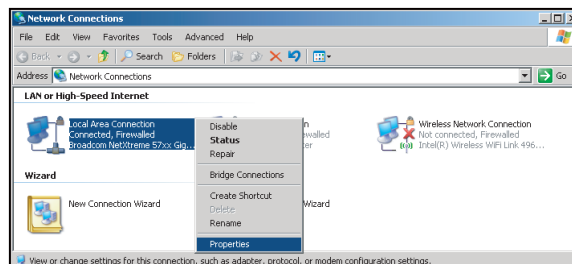

2. On the PC (Laptop), select **Start** > **Control Panel** > **Network Connections**.

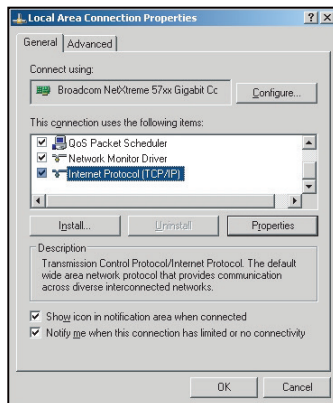3. Right-click on the L**ocal Area Connection**, and select **Property**.

4. In the **Properties** window, select the **General tab**, and select **Internet Protocol (TCP / IP)**.
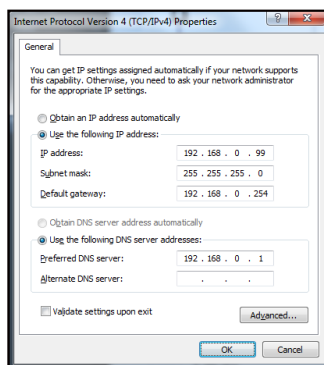
USING THE PROJECTOR

5.   Click "Properties".

6.   Type in the IP address and Subnet mask, then press "OK".

7.   Press the "Menu" button on the projector.
8.   Open on projector **Network** > **LAN**.
9.   Enter the following connection parameters:
        –   DHCP: Off

        –   IP Address: 192.168.0.100

        –   Subnet Mask: 255.255.255.0

        –   Gateway: 192.168.0.254

        –   DNS: 192.168.0.1

10.   Press "Enter" to confirm settings.
11.   Open a web browser, for example Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher installed.
12.   In the Address bar, input the projector's IP address: 192.168.0.100.

13.   Press "Enter".

USING THE PROJECTOR

The projector is setup for remote management. The LAN / RJ45 function displays as follows:

Information page

Projector Information

Projector Name	
Location	
Firmware Version	
MAC Address	00:50:41:7F:D4:40
Resolution	NTSC
Lamp Hours	3
Assigned to	

Projector Status

Power Status	Power On.
Source	Video
Display Mode	Cinema
Projection	Front
Brightness Mode	Bright
Error Status	0:No Error

exit

CRESTRON connected   Expansion Options

Main page

Model: Tool Info Contact IT Help

Power   Vol -   Mute   Vol +

Interface 2.7.2.7

Sources List

HDMI 1
HDMI 2
HDMI 3
Display Port
VGA

Menu   ▲   Re-Sync
◄   Enter   ►
AV mute   ▼   Source

Freeze   Contrast   Brightness   Sharpness

CRESTRON connected   Expansion Options

Tool page

el: Tool Info Contact IT Help

Crestron Control

Address	192.168.0.199
IP ID	7
Port	41794

Send

Projector

Projector Name	
Location	
Assigned to	

Send

DHCP	☐ Enabled
IP Address	192.168.0.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254
DNS Server	192.168.0.51

Send

User Password

☐ Enabled

New Password	
Confirm	

Send

Admin Password

☐ Enabled

New Password	
Confirm	

Send

exit

CRESTRON connected   Expansion Options

Contact IT helpdesk

Title   X

Send

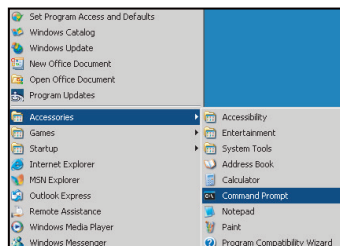# USING THE PROJECTOR

RS232 by Telnet Function

There is alternative RS232 command control way, in projector so called "RS232 by TELNET" for LAN / RJ45 interface.

Quick Start-Guide for "RS232 by Telnet"

• Check and get the IP address on OSD of the projector.

• Make sure that the PC / laptop can access the web-page of the projector.

• Make sure that "Windows Firewall" setting is set disabled in case of "TELNET" function filtering out by PC / laptop.
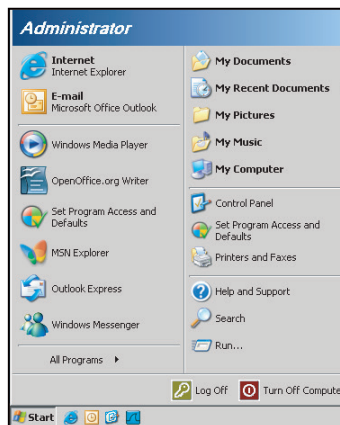
1. Select **Start** > **All Programs**.> **Accessories** > **Command Prompt**.

2. Input the command format as follows:
   - telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)

   - (ttt.xxx.yyy.zzz: IP-Address of the projector)

3. If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

Specification for "RS232 by TELNET":

1. Telnet: TCP.
2. Telnet port: 23 (for more detail, kindly please get contact with the service agent or team).
3. Telnet utility: Windows "TELNET.exe" (console mode).
4. Disconnection for RS232-by-Telnet control normally: Close
5. Windows Telnet utility directly after TELNET connection ready.
   - Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.

   - Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.

   - Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

USING THE PROJECTOR

Info menu

Info menu

View the projector information as listed below:

- Model Name
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Power Mode (Standby)
- Lamp Hours
- Remote Code
- Remote Code(Active)
- Network Status
- IP Address
- Projector ID
- Filter Usage Hours
- Brightness Mode
- FW Version

MAINTENANCE

Replacing the lamp

The projector automatically detects the lamp life. When the lamp life is nearing the end of use, a warning message will appear on the screen.

Warning
Lamp Warning
Lamp life exceeded.

When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

⚠ CAUTION!
HIGH PRESSURE LAMP MAY EXPLODE IF IMPROPERLY HANDED. REFER TO LAMP REPLACEMENT INSTRUCTIONS.
ATTENTION:
Les lampes à haute pression peuvent exploser si elles sont mal utilisées.
Confier l'entretien à une personne qualifiée.

⚠ Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. Caution must be used to prevent any loose parts from falling out of projector.

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

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

MAINTENANCE

Replacing the lamp (continued)
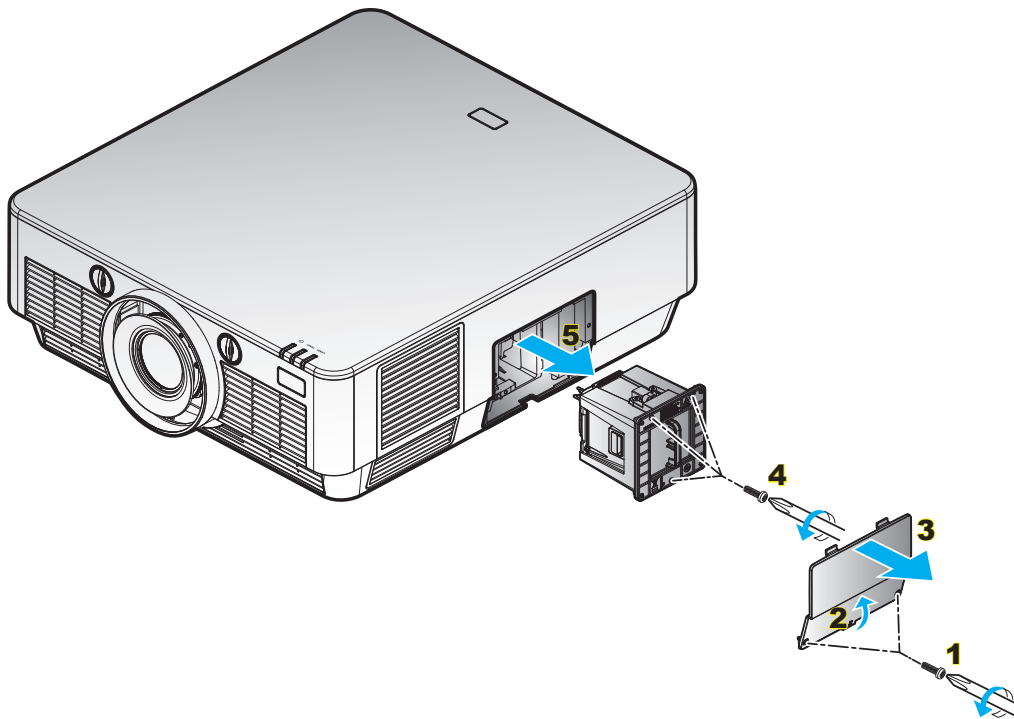
Procedure:

1. Switch off the power to the projector by pressing the "⏻" button on the remote control or the projector keypad.

2. Allow the projector to cool down for at least 30 minutes.

3. Disconnect the power cord.

4. Unscrew the screws on the cover. 1

5. Slightly flip the cover to release the hinges. 2

6. Remove the cover. 3

7. Unscrew the screws on the lamp module. 4

8. Remove the lamp module carefully. 5

9. To replace the lamp module, reverse the previous steps.

10. Turn on the projector and reset the lamp timer.

11. Lamp Reset: (i) Press "Menu" → (ii) Select "Setup" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

Note:

- *The screw on the lamp cover and the lamp cannot be removed.*
- *The projector cannot be turned on if the lamp cover has not been placed back on the projector.*
- *Do not touch the glass area of the lamp. Hand oil can cause the lamp shatter. Use a dry cloth to clean the lamp module if it was accidentally touched.*

ADDITIONAL INFORMATION

Compatible resolutions

Digital compatibility

Established Timing	Standard Timing	Detail Timing	Video Mode	Detail Timing
720x400 @ 70Hz	1280x720 @ 60Hz	Native timing:	720x480i @ 60Hz 16:9	1920x1080p @ 60Hz
640x480 @ 60Hz	1280x800 @ 60Hz	1920x1080 @ 60Hz	720x480p @ 60Hz 4:3	
640x480 @ 67Hz	1280x1024 @ 60Hz		720x480p @ 60Hz 16:9	
640x480 @ 72Hz	1400x1050 @ 60Hz		720x576i @ 50Hz 16:9	
640x480 @ 75Hz	1600x1200 @ 60Hz		720x576p @ 50Hz 4:3	
800x600 @ 56Hz			720x576p @ 50Hz 16:9	
800x600 @ 60Hz			1280x720p @ 60Hz 16:9	
800x600 @ 72Hz			1280x720p @ 50Hz 16:9	
800x600 @ 75Hz			1920x1080i @ 60Hz 16:9	
832x624 @ 75Hz			1920x1080i @ 50Hz 16:9	
1024x768 @ 60Hz			1920x1080p @ 60Hz 16:9	
1024x768 @ 70Hz			1920x1080p @ 50Hz 16:9	
1024x768 @ 75Hz			1920x1080p @ 24Hz 16:9	
1280x1024 @ 75Hz			3840x2160 @ 24Hz	
1152x870 @ 75Hz			3840x2160 @ 25Hz	
			3840x2160 @ 30Hz	
			3840x2160 @ 50Hz	
			3840x2160 @ 60Hz	
			4096x2160 @ 24Hz	
			4096x2160 @ 25Hz	
			4096x2160 @ 30Hz	
			4096x2160 @ 50Hz	
			4096x2160 @ 60Hz	

ADDITIONAL INFORMATION

Analog compatibility

Established Timing	Standard Timing	Detail Timing	Video Mode	Detail Timing
720x400 @ 70Hz	1280x720 @ 60Hz	Native timing		1366x768 @ 60Hz
640x480 @ 60Hz	1280x800 @ 60Hz	1920x1080 @ 60Hz		
640x480 @ 67Hz	1280x1024 @ 60Hz			
640x480 @ 72Hz	1400x1050 @ 60Hz			
640x480 @ 75Hz	1600x1200 @ 60Hz			
800x600 @ 56Hz				
800x600 @ 60Hz				
800x600 @ 72Hz				
800x600 @ 75Hz				
832x624 @ 75Hz				
1024x768 @ 60Hz				
1024x768 @ 70Hz				
1024x768 @ 75Hz				
1280x1024 @ 75Hz				
1152x870 @ 75Hz				

ADDITIONAL INFORMATION

Image size and projection distance

Diagonal Length Size of (16:9) Screen	Screen Size W x H				Projection Distance (D)			
	(m)		(inch)		(m)		(feet)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele
84	1.86	1.05	73.21	41.2	2.5	5.0	8.2	16.4
90	1.99	1.12	78.4	44.1	2.68	5.36	8.79	17.59
100	2.21	1.25	87.2	49.0	2.98	5.96	9.78	19.55
110	2.44	1.37	95.9	53.9	3.28	6.56	10.76	21.52
120	2.66	1.49	104.6	58.8	3.58	7.16	11.75	23.46
130	2.88	1.62	113.3	63.7	3.87	7.74	12.70	25.43
140	3.10	1.74	122.0	68.6	4.17	8.34	13.68	27.36
150	3.32	1.87	130.7	73.5	4.47	8.94	14.67	29.33
180	3.98	2.24	156.9	88.2	5.36	10.72	17.59	35.20
200	4.43	2.49	174.3	98.1	5.96	11.92	19.55	39.11
220	4.87	2.74	191.8	107.9	6.56	13.12	21.52	43.01
250	5.53	3.11	217.9	122.6	7.45	14.90	24.44	48.88
280	6.20	3.49	244.0	137.3	8.34	16.68	27.36	54.76
300	6.64	3.74	261.5	147.1	8.94	17.88	29.33	58.66

Note: *Zoom ratio is 1.96x.*
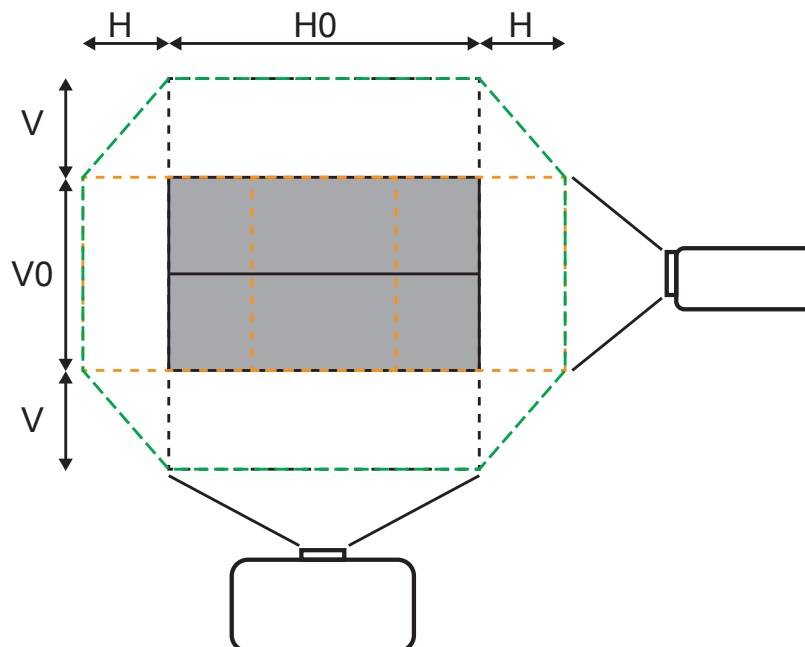
Specification:

H	V
35%H0	80%V0

Note: *The information in the Specification is given with the +/- 5% tolerance.*

Projector dimensions and ceiling mount installation

1. To prevent damage to your projector, please use the Acer ceiling mount.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:

- Screw type: M8*6

- Minimum screw length: 6mm

Lens

191.9 178 92.50 85.50 250

148 280 277.5 79.8 M8*6

165 165 40 330 250

Unit: mm
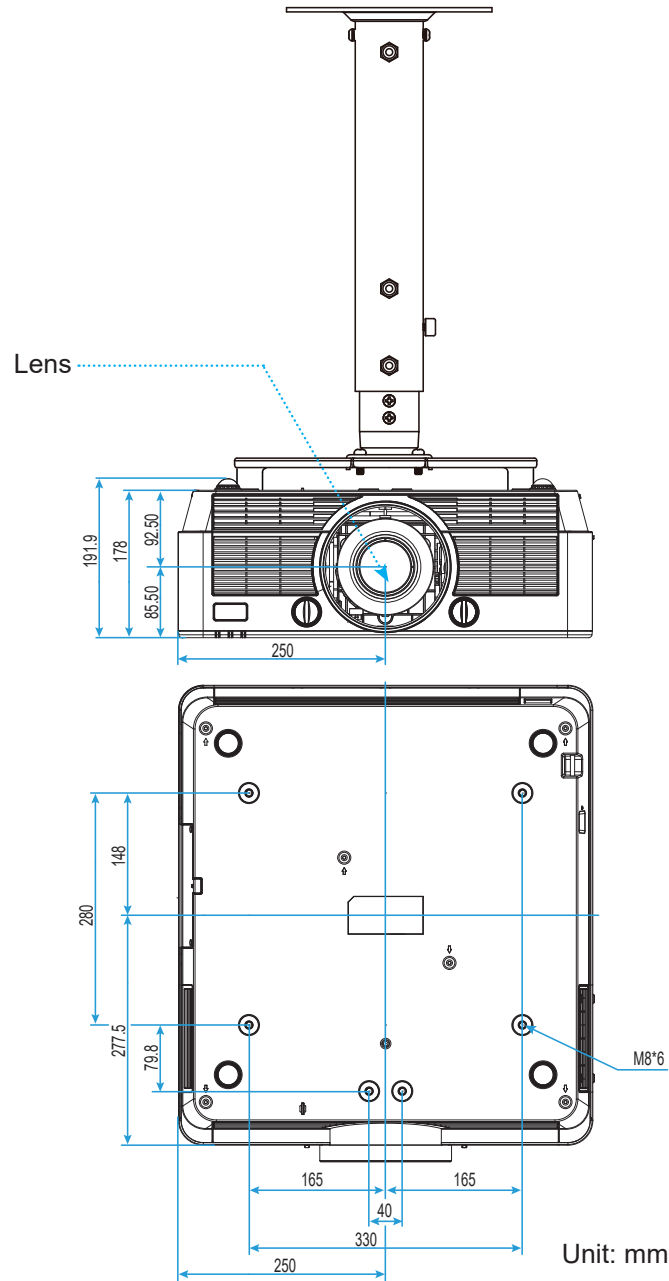
Note: *Please note that damage resulting from incorrect installation will void the warranty.*

⚠ Warning:

- If you buy a ceiling mount from another company, please be sure to use the correct screw size. Screw size will vary depending on the thickness of the mounting plate.

- Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.

- Avoid installing the projector near a heat source.

ADDITIONAL INFORMATION

IR remote control codes
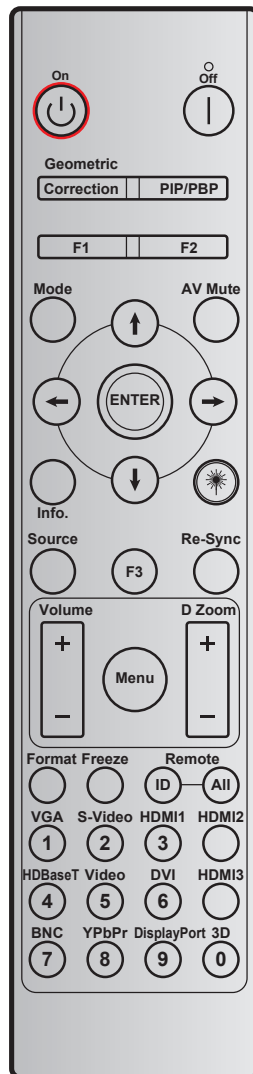
Key		Key code	Printing-key definition	Description
Power On	⏻	2	On	Refer to the "Power On/ Off the Projector" section on page 22.
Power Off		2E	Off	Refer to the "Power On/ Off the Projector" section on page 22.
Geometric Correction	**Correction**	34	Geometric Correction	Geometric correction.
PIP/PBP	**PIP/PBP**	3E	PIP/PBP	Press to use the PIP/PBP function.
F1		26	F1	By default Zoom.
F2		27	F2	By default Focus.
F3		66	F3	By default Lens IRIS.
Mode		95	Mode	Display mode menu on/ off.
Four directional select keys	⬆	C6	Up arrow	Use ⬆⬇⬅➡ to select items or make adjustments to your selection.
	⬇	C7	Down arrow	
	⬅	C8	Left arrow	
	➡	C9	Right arrow	

ADDITIONAL INFORMATION

Key		Key code	Printing-key definition	Description
AV Mute		3	AV Mute	No function.
ENTER		C5	Enter	Confirm your item selection.
Info.		25	Info.	Display projector information.
Laser	☀	N/A	Laser	Use as laser pointer.
Re-Sync	**Re-Sync**	4	Re-Sync	Automatically synchronize the projector to the input source.
Source	**Source**	18	Source	Press "Source" to select an input signal.
Volume		9	Volume +	Press to increase the volume.
		0C	Volume -	Press to decrease the volume.
Menu	**Menu**	88	Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.
D Zoom +	▲	8	D Zoom +	Use ▲ to zoom in the projected image.
D Zoom -	▼	B	D Zoom -	Use ▼ to zoom out the projected image.
Format		15	Format	Press to choose the projector format.
Freeze		6	Freeze	Press to freeze the projector image.
Remote	**ID**	3201~3299		Press until Power LED is flashing then press 01~99 to set the particular remote code.
	ALL	32CD		Press to set remote code to all.
VGA / 1		8E	1/VGA1	• Press to choose VGA source. • Use as numeric keypad number "1".
S-Video / 2		1D	2/S-Video	• Press to choose S-video source. • Use as numeric keypad number "2".
HDMI1 / 3		16	3/HDMI1	• Press to choose HDMI source. • Use as numeric keypad number "3".
HDMI2		9B	HDMI2	Press to choose HDMI source.
HDBaseT / 4		70	4/HDBaseT	• Press to choose HDBaseT source. • Use as numeric keypad number "4".
Video / 5		1C	5/Video	• Press to choose composite video source. • Use as numeric keypad number "5".
DVI / 6		19	6/DVI	• Press to choose DVI source. • Use as numeric keypad number "6".
HDMI3		98	HDMI3	Press to choose HDMI source.
BNC / 7		1A	7/BNC	• Press to choose BNC source. • Use as numeric keypad number "7".
YPbPr / 8		17	8/YPbPr	• Press to choose component video source. • Use as numeric keypad number "8".
DisplayPort / 9		9F	9/DisplayPort	• Press to choose DisplayPort. • Use as numeric keypad number "9".
3D / 0		89	0/3D	• Press to choose 3D source. • Use as numeric keypad number "0".

Note: *Some keys may have no function for models that do not support these features.*

ADDITIONAL INFORMATION

Troubleshooting

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

Image problems

? *No image appears on-screen*

- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- Ensure the pins of connectors are not crooked or broken.
- Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section.
- Ensure that the "AV Mute" feature is not turned on.

? *Image is out of focus*

- Use the **Focus** button on the projector keypad to adjust focus. (Please refer to page *19*).
- Make sure the projection screen is between the required distance from the projector. (Please refer to page *52*).

? *The image is stretched when displaying 16:9 DVD title*

- When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16: 9 format on projector side.
- If you play the LBX format DVD title, please change the format as LBX in projector OSD.
- If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.
- Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

? *Image is too small or too large*

- Adjust the digital zoom.
- Move the projector closer to or further from the screen.
- Press "Menu" on the projector panel, go to "Display-->Aspect Ratio". Try the different settings.

? *Image has slanted sides:*

- If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- Use "Display-->Image Shift" from the OSD to make an adjustment.

? *Image is reversed*

- Select "Setup-->Projection" from the OSD and adjust the projection direction.

ADDITIONAL INFORMATION

Other problems

?   *The projector stops responding to all controls*

- If possible, turn off the projector, then unplug the power cord and wait at least 20 seconds before reconnecting power.

?   *Lamp burns out or makes a popping sound*

- When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section on pages *48-49*.

Remote control problems

?   *If the remote control does not work*

- Check the operating angle of the remote control is pointed within ±15° to the IR receiver on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (23 ft) of the projector.
- Make sure batteries are inserted correctly.
- Replace batteries if they are exhausted.

Warning indicators

When the warning indicators (see below) light up or flash, the projector will automatically shutdown:

- "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes red.
- "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
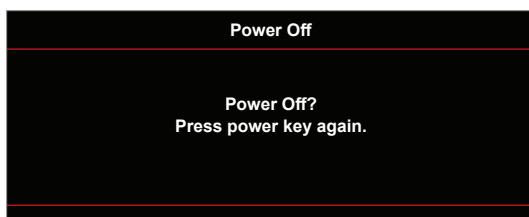- "TEMP" LED indicator flashes red and if "On/Standby" indicator flashes red.

Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up or flash, please contact your nearest service center for assistance.

ADDITIONAL INFORMATION

LED lightning messages

Message	⏻ ○ Power LED	⏻ ○ Power LED	TEMP ○ Temp-LED	LAMP ○ Lamp-LED
	(Red)	(Blue)	(Red)	(Red)
Standby state (Input power cord)	Steady light			
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Power on and Lamp lighting		Steady light		
Power off (Cooling)		Flashing (0.5 sec off / 0.5 sec light). Back to red steady light when cooling fan turns off.		
Error (Over temp.)	Flashing		Steady light	
Error (Fan failure)	Flashing		Flashing	
Error (Lamp failure)	Flashing			Steady light

- Power off:

Power Off

Power Off?
Press power key again.

- Lamp warning:

Warning

Lamp Warning
Lamp life exceeded.

- Temperature warning:

Warning

TEMPERATURE TOO HIGH

Please:
1. Make sure air in and outlets are not blocked.
2. Make sure the environment temperature is under 45 degree C.

If the problem persists in spite of the above.

Please contact a service center for repair.
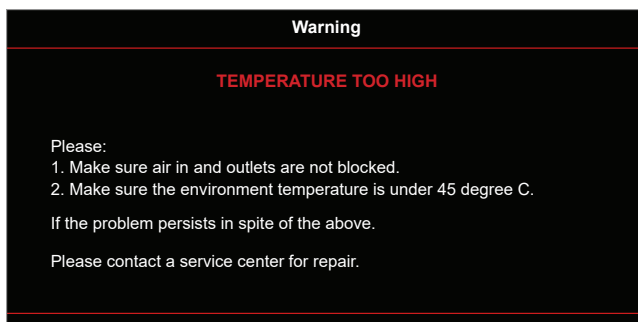
ADDITIONAL INFORMATION

- Remote control function not supported:

  > **Not Support**

- Fan failed:

  > **Warning**
  >
  > **FAN LOCKED**
  >
  > **The projector will switch off automatically**
  > **Please contact a service center for repair.**

- Filter Warning:

  > **Warning**
  >
  > **Filter Warning**
  > **Clean or replace the dust filter.**
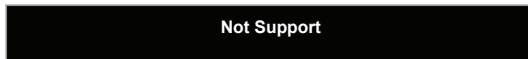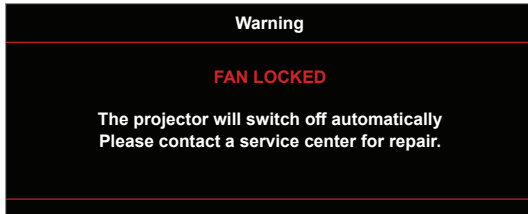
- Out of display range:

  > **HDMI**
  >
  > Out Of Range

- Power down warning:

  > **Power Down**
  >
  > **Power Down Timer Active**
  > **Power Down in** 60 **sec.**
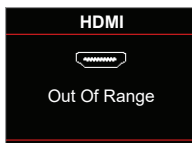
- Security timer alarm:

  > **Warning**
  >
  > **Security Timer Alarm**
  > **Time Out in** 60 **sec.**
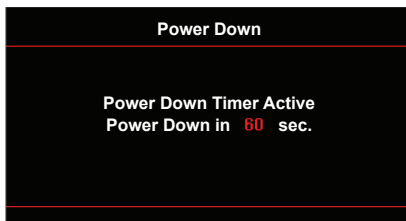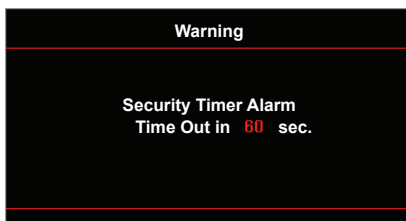
ADDITIONAL INFORMATION

Specifications

Optical	Description
Lens	2x Zoom with IRIS
Image size (diagonal)	2160p: 80" to 200"inches for optical range
Projection distance	2.4 m (80") ~ 9m (300") for optical range

Electrical	Description
Color reproduction	1073.4 Million color
Scan rate	- Horizontal scan rate: 15.375~91.146 KHz
	- Vertical scan rate: 24Hz to 120Hz
Built-in speaker	N/A
Power requirement	100 - 240V AC 50/60Hz
Input current	2.8-1.0 A

Mechanical	Description
Installation orientation	Front, Rear, Ceiling - top, Rear - top
Dimensions	- 550 mm (W) x 500 mm (D) x 178 mm (H) (without feet)
	- 550 mm (W) x 500 mm (D) x 192 mm (H) (with feet)
Net Weight	<18 kg
Gross Weight	<23 kg
Environmental conditions	Operating in 5 ~ 40°C , 10% to 85% humidity (non-condensing)

Note: *All specifications are subject to change without notice.*

ADDITIONAL INFORMATION

Regulations and safety notices

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the device and receiver.

• Connect the device into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this device.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

ADDITIONAL INFORMATION

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

Compliant with Russian/ Ukraine regulatory certification

EAC **UA.TR.060**

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).

Canada — Low-power license-exempt radio communication devices (RSS-247)

a   Common information
Operation is subject to the following two conditions:
1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

b   Operation in 2.4 GHz band
To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

List of applicable countries

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

CE

Declaration of Conformity

We,

Acer Incorporated

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

And,

Acer Italy s.r.l.

Via Lepetit, 40, 20020 Lainate (MI) Italy

Tel: +39-02-939-921 ,Fax: +39-02 9399-2913

www.acer.it

Product:	**DLP Projector**
Trade Name:	**Acer**
Model Number:	**D4K1717**
Marketing name:	**P8800/F680/PF-4K50/PV870/HF-760**

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

☒ **EMC Directive: 2014/30/EU**

☒ EN 55032:2012+AC:2013, Class B	☒ EN 61000-3-2:2014, Class A
☒ EN 55024:2010+A1:2015	☒ EN 61000-3-3:2013

☐ **R&TTE Directive: 1999/5/EC (until Jun 12, 2017)**

☐ **RED Directive: 2014/53/EU (From Jun 13, 2017)**

☐ EN 300 328 V1.8.1	☐ EN 301 511 V9.0.2	☐ EN 301 489-7 V1.3.1	
☐ EN 301 893 V1.7.1	☐ EN 301 908-1 V6.2.1	☐ EN 301 489-17 V2.2.1	
☐ EN 300 440-1 V1.6.1	☐ EN 301 908-2 V6.2.1	☐ EN 301 489-24 V1.5.1	
☐ EN 300 440-2 V1.4.1	☐ EN 301 908-13 V6.2.1	☐ EN 50360:2001	☐ EN 50566:2013
☐ EN 302 291-1 V1.1.1	☐ EN 301 489-1 V1.9.2	☐ EN 62479:2010	☐ EN 62311:2008
☐ EN 302 291-2 V1.1.1	☐ EN 301 489-3 V1.6.1	☐ EN 62209-1:2006	☐ EN 62209-2:2010

☒ **LVD Directive: 2014/35/EU**

☒ EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013	
☐ EN 50332-1:2000	☐ EN 50332-2:2003

☒ **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 2017.

_____   __**June 13, 2017**__

RU Jan / Sr. Manager   **Date**

Acer Incorporated (Taipei, Taiwan)

FC

Federal Communications Commission
Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following local Manufacturer / Importer is responsible for this declaration:

Product:	**DLP Projector**
Model Number:	**D4K1717**
Machine Type:	**P8800/F680/PF-4K50/PV870/HF-760/D4K1717**
Name of Responsible Party:	**Acer America Corporation**
Address of Responsible Party:	**333 West San Carlos St.** **Suite 1500** **San Jose, CA 95110** **U. S. A.**
Contact Person:	**Acer Representative**
Phone No.:	**254-298-4000**
Fax No.:	**254-298-4147**