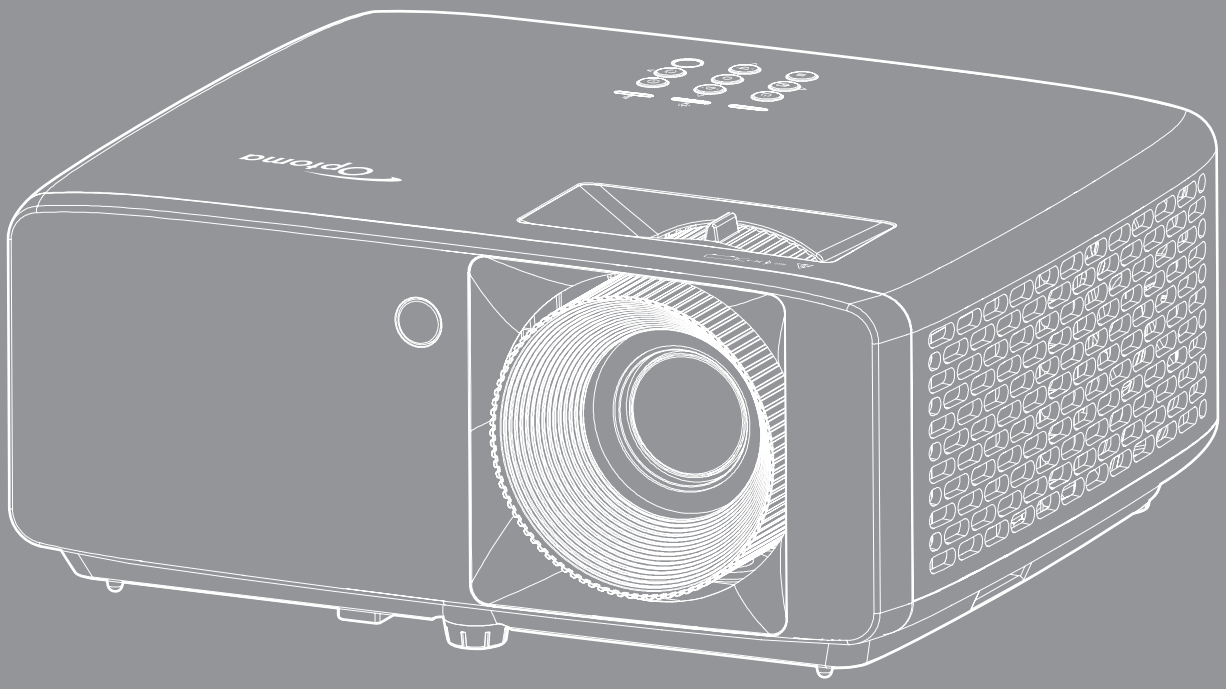
Optoma



HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

DLP TEXAS INSTRUMENTS

3D Full

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SAFETY

	The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Please follow all warnings, precautions and maintenance as recommended in this user's guide.

Important Safety Instruction

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
  - In extremely hot, cold or humid environments.
    (i) Ensure that the ambient room temperature is within 5°C ~ 40°C
    (ii) Relative humidity is 10% ~ 85%
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance generating a strong magnetic field.
  - In direct sunlight.
- Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
  - Unit has been dropped.
  - Power supply cord or plug has been damaged.
  - Liquid has been spilled on to the projector.
  - Projector has been exposed to rain or moisture.
  - Something has fallen in the projector or something is loose inside.
- Do not place the projector on an unstable surface. The projector may fall over resulting in injury or the projector may become damaged.
- Do not block the light coming out of the projector lens when in operation. The light will heat the object and may melt, cause burns or start a fire.
- Please do not open or disassemble the projector as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- See projector enclosure for safety related markings.
- The unit should only be repaired by authorized service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look straight into the projector lens during operation. The bright light may harm your eyes.
- This projector will detect the life of the light source itself.

- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the unit.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.
- Do not setup the projector in places where it might be subjected to vibration or shock.
- Do not touch the lens with bare hands.
- Remove battery/batteries from remote control before storage. If the battery/batteries are left in the remote for long periods, they may leak.
- Do not use or store the projector in places where smoke from oil or cigarettes may be present, as it can adversely affect the quality of the projector performance.
- Please follow the correct projector orientation installation as non standard installation may affect the projector performance.
- Use a power strip and/or surge protector. As power outages and brown-outs can KILL devices.

Laser Radiation Safety Information

- This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 of IEC60825-1 : 2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471:5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.
- Complies with 21 CFR 1040.10 and 1040.11 except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.
- IEC 60825-1:2014/EN 60825-1+A11/EN50689:2021 CLASS 1 CONSUMER LASER PRODUCT RISK GROUP 2
- IEC 62471-5:2015 RISK GROUP 2







- Additional instructions to supervise children, no staring, and not use optical aids.
- Additional instructions to install above the reach of children.
- Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
- Notice is given to use caution when using the remote control for starting the projector while in front of the projection lens.
- Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the beam.
- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- WARNING: MOUNT ABOVE THE HEADS OF CHILDREN. The use of a ceiling mount is recommended with this product to place it above the eyes of children.

- Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.

Not following the control, adjustment or operation procedure may cause damage by the the exposure of laser radiation.

Laser Notice

IEC 60825-1:2014/EN 60825-1+A11/EN50689:2021 CLASS 1 CONSUMER LASER PRODUCT RISK GROUP 2.

The product's intended use as a consumer laser product and compliant with EN 50689:2021.

CLASS 1 CONSUMER LASER PRODUCT

EN 50689:2021

Copyright

This publication, including all photographs, illustrations and software, is protected under international copyright laws, with all rights reserved. Neither this manual, nor any of the material contained herein, may be reproduced without written consent of the author.

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Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

Trademark Recognition

Kensington is a U.S. registered trademark of ACCO Brand Corporation with issued registrations and pending applications in other countries throughout the world.

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

DLP®, DLP Link and the DLP logo are registered trademarks of Texas Instruments and BrilliantColor™ is a trademark of Texas Instruments.

All other product names used in this manual are the properties of their respective owners and are Acknowledged.

FCC

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 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.

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 projector.

Operation Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and

2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU countries

- EMC Directive 2014/30/EU (including amendments)
- Low Voltage Directive 2014/35/EU
- RED 2014/53/EU (if product has RF function)

WEEE

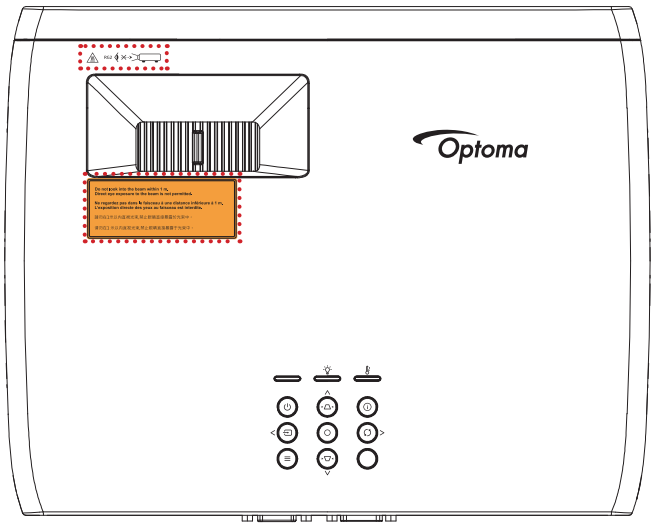
Disposal instructions

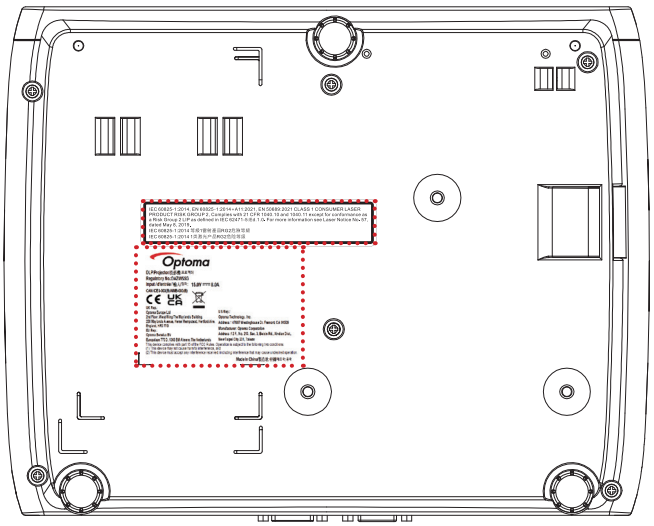
Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

Specifications and Warning labels

Specifications and Warning labels are placed at the following location:







Note: *For power supply, power ratings, and product information, please refer to the label on the bottom of the product.*

cTUVus

Cleaning the Lens

- Before cleaning the lens, be sure to turn off the projector and unplug the power cord to allow it to completely cool down.
- Use a compressed air tank to remove the dust.
- Use a special cloth for cleaning lens and gently wipe the lens. Do not touch the lens with your fingers.
- Do not use alkaline/acid detergents or volatile solvents such as alcohol for cleaning lens. If the lens is damaged due to the cleaning process, it is not covered by the warranty.

Warning: Do not use a spray containing flammable gases to remove dust or dirt from the lens. This may cause a fire due to excessive heat inside the projector.

Warning: Do not clean the lens if the projector is warming up as this may cause the lens' surface film to peel off.

Warning: Do not wipe or tap the lens with a hard object.



To avoid electric shock, the unit and its peripherals must be properly grounded (earthed).

INTRODUCTION

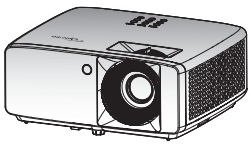
Thank you for purchasing an Optoma laser projector. For full list of features please visit the product page on our website, where you will also find additional information and documentation such as FAQs.

Package Overview

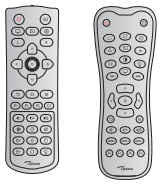
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

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

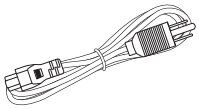
Standard accessories



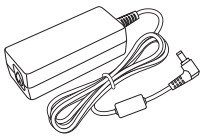
Projector



Remote control



Power cable



Power adapter

☑ Quick start user manual

Documentation



BT dongle (optional)

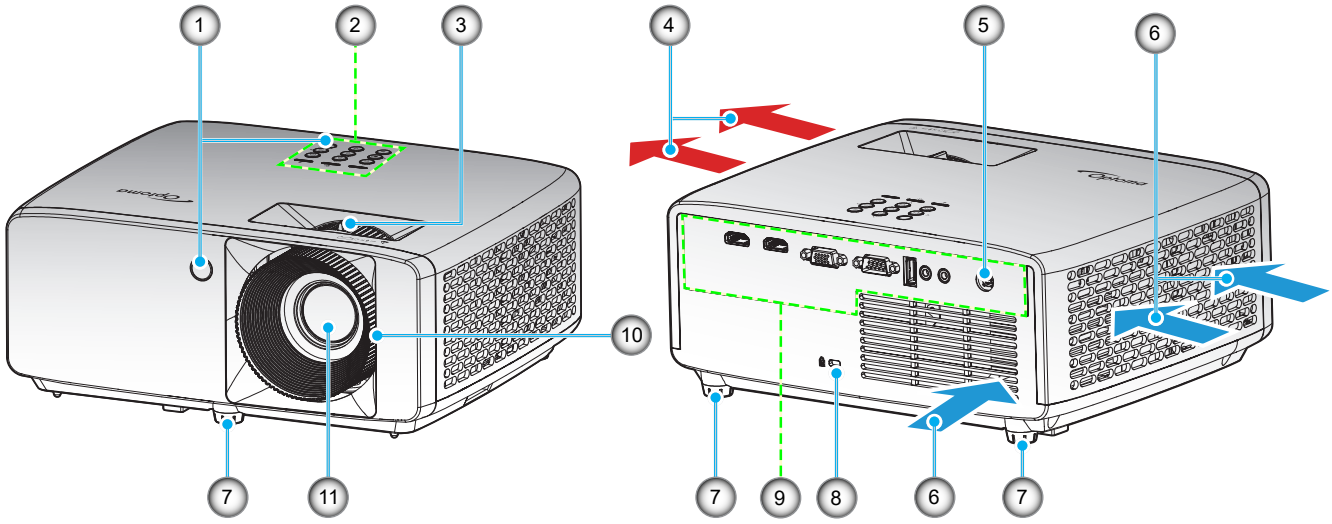
Note:

- *Batteries for remote control may not included due to different countries' policies.*
- *For warranty Information, please visit https://www.optoma.com/support/download*
- *For access to the setup information, user manual, warranty information, and product updates – please scan the QR Code or visit the following URL: https://www.optoma.com/support/download*

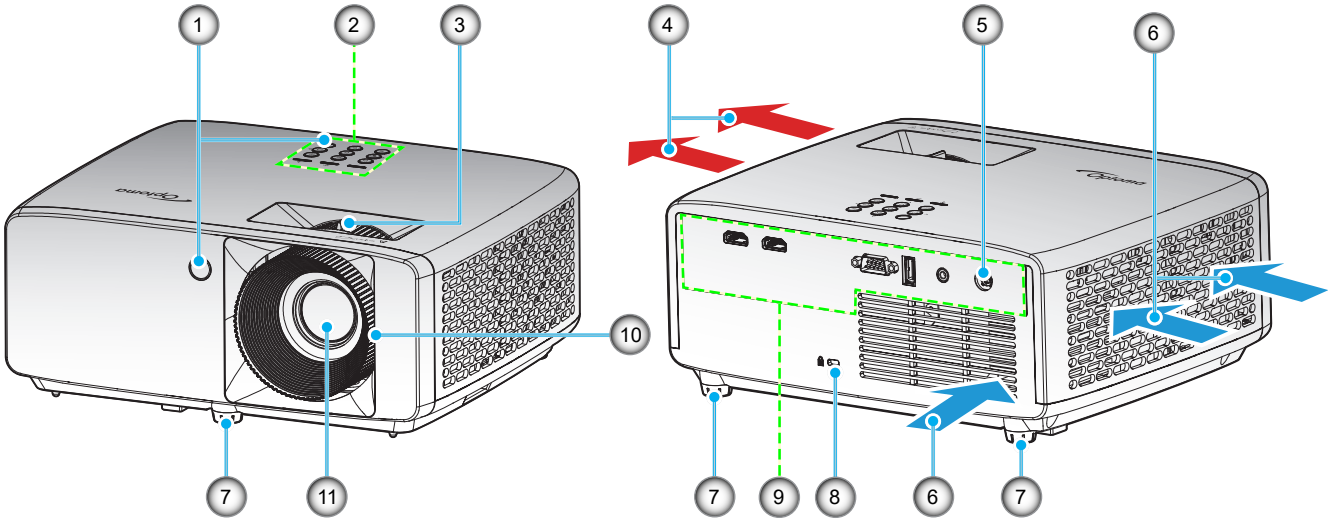
INTRODUCTION

Product Overview

WXGA model



1080p model



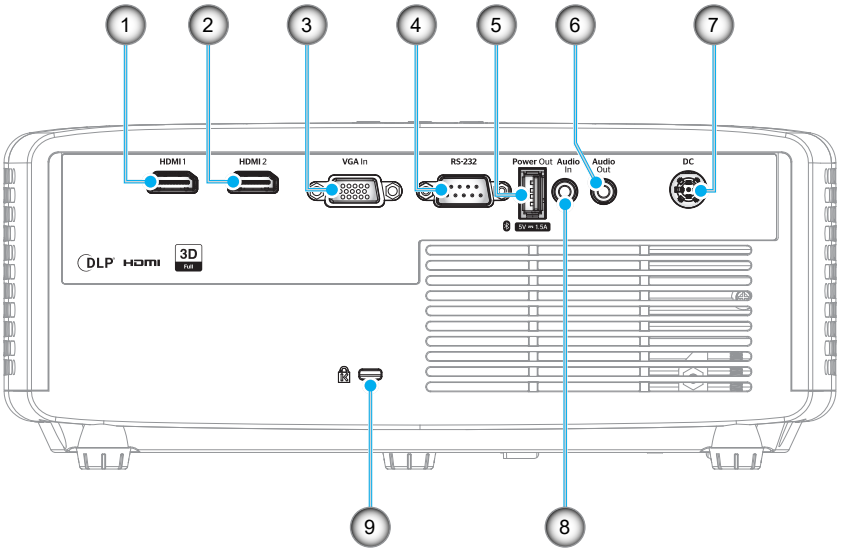
Note:

- *Do not block projector intake and exhaust vents.*
- *When operating the projector in an enclosed space, allow at least 30 cm clearance around the intake and exhaust vents.*

No	Item	No	Item
1.	IR Receivers	7.	Tilt-Adjustment Feet
2.	Keypad	8.	Kensington™ Lock Port
3.	Zoom Lever	9.	Input / Output
4.	Ventilation (outlet)	10.	Focus Ring
5.	DC Jack	11.	Lens
6.	Ventilation (inlet)		

INTRODUCTION

Connections

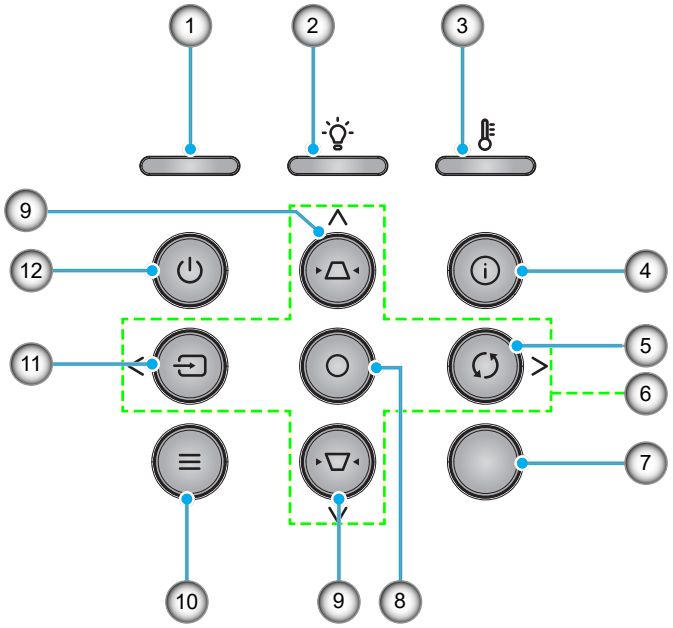


No	Item	No	Item
1.	HDMI IN 1 Connector	6.	Audio OUT Connector
2.	HDMI IN 2 Connector	7.	DC Jack
3.	VGA IN Connector	8.	Audio IN Connector
4.	RS-232 Connector	9.	Kensington™ Lock Port
5.	USB Power Out (5V⎓1.5A) Connector		

Note: *Available I/O ports differ by model.*

INTRODUCTION

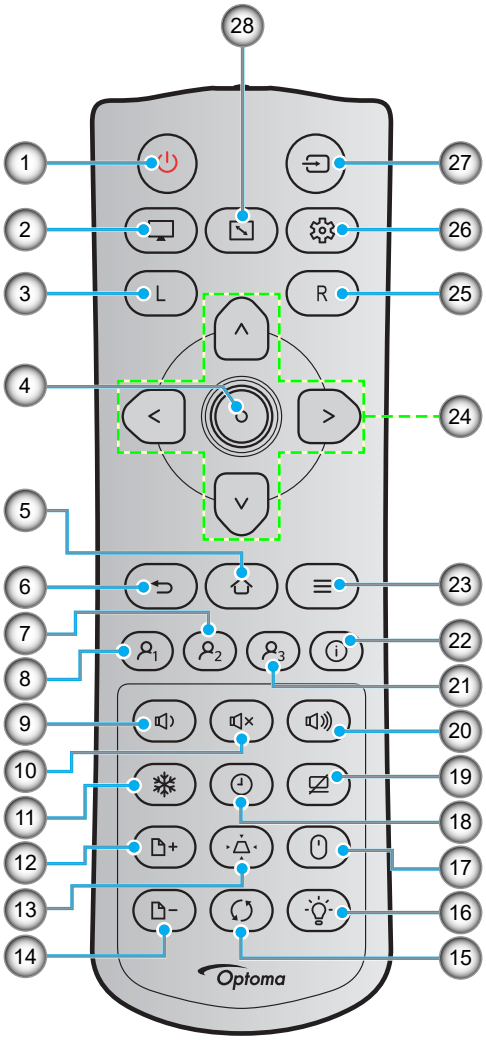
Keypad



No	Item	No	Item
1.	Power LED	7.	IR Receiver
2.	Lamp LED	8.	Enter
3.	Temp LED	9.	Keystone Correction
4.	Information	10.	Menu
5.	Re-Sync	11.	Source
6.	Four Directional Select Keys	12.	Power

INTRODUCTION

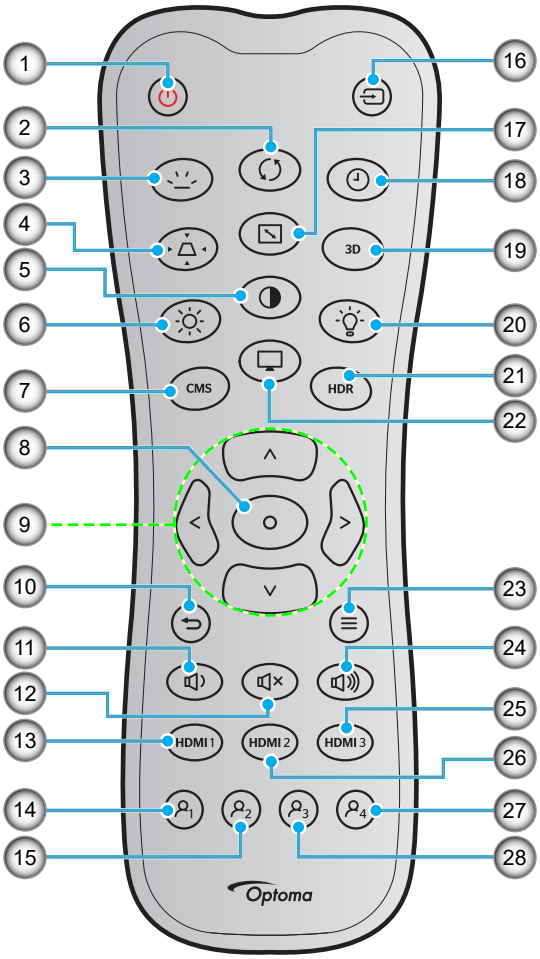
Remote control



No	Item	No	Item
1.	Power	15.	Resync
2.	Display Mode	16.	Light Source Mode
3.	Mouse Left Click	17.	Mouse
4.	Enter	18.	Sleep Timer
5.	Home	19.	AV Mute
6.	Return	20.	Volume +
7.	User 2 (Assignable)	21.	User 3 (Assignable)
8.	User 1 (Assignable)	22.	Information
9.	Volume -	23.	Menu
10.	Mute	24.	Four Directional Select Keys
11.	Freeze	25.	Mouse Right Click
12.	Page Up	26.	Setup Menu
13.	Keystone	27.	Source
14.	Page Down	28.	Aspect Ratio

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

INTRODUCTION



No	Item	No	Item
1.	Power On	15.	User2 (assignable)
2.	Re-sync	16.	Source
3.	Backlight	17.	Aspect Ratio
4.	Keystone	18.	Sleep Timer
5.	Contrast	19.	3D Menu On / Off (not supported)
6.	Brightness	20.	Lamp
7.	CMS	21.	HDR
8.	Enter	22.	Mode
9.	Four Directional Select Keys	23.	Menu
10.	Return	24.	Vol +
11.	Vol -	25.	HDMI3 (not supported)
12.	Mute	26.	HDMI2
13.	HDMI1	27.	User4 (assignable)
14.	User1 (assignable)	28.	User3 (assignable)

Note:

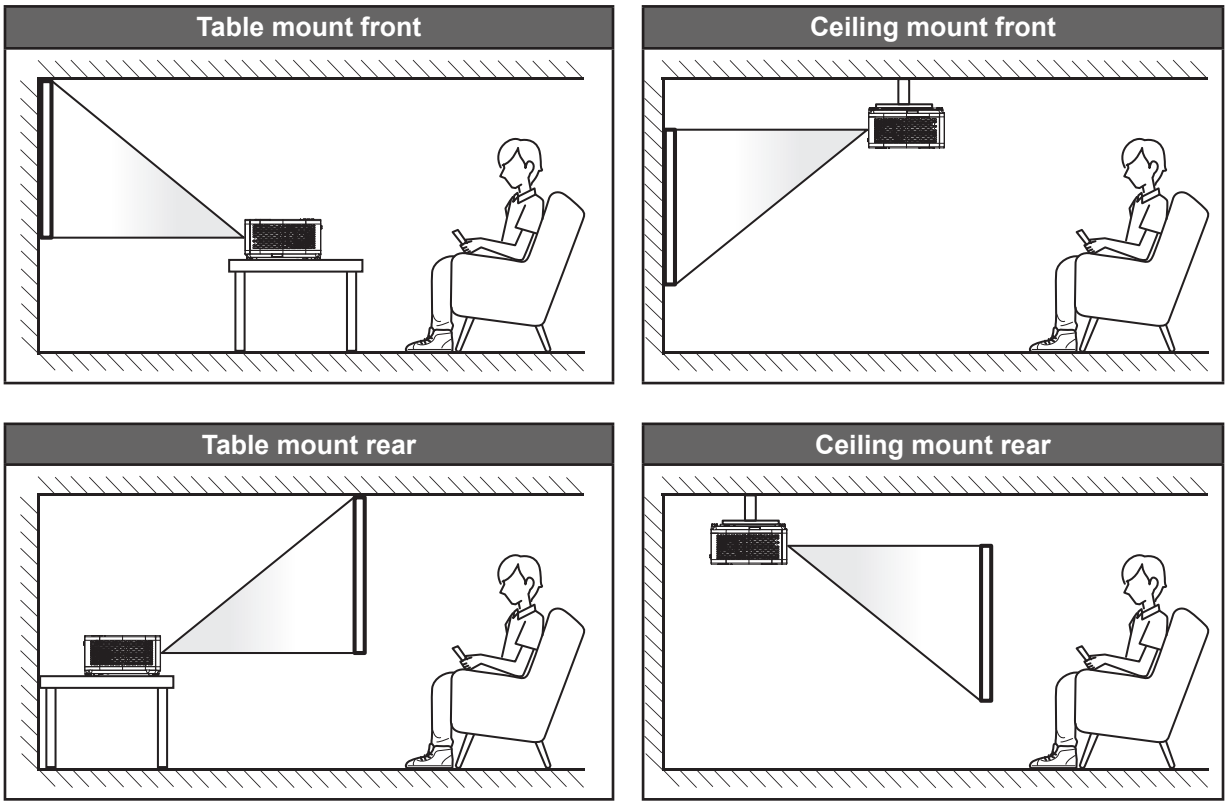
- *The actual remote control may vary depending on the region.*
- *Some keys may have no function for models that do not support these features.*

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.



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

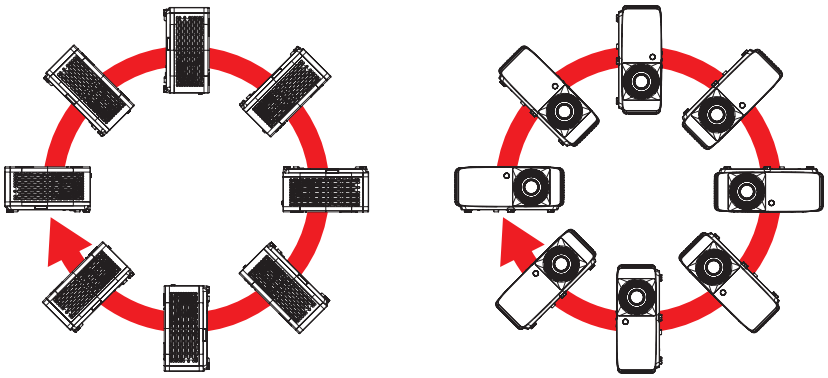
- How to determine projector location for a given screen size, please refer to distance table on pages *49~50*.
- How to determine screen size for a given distance, please refer to distance table on pages *49~50*.

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

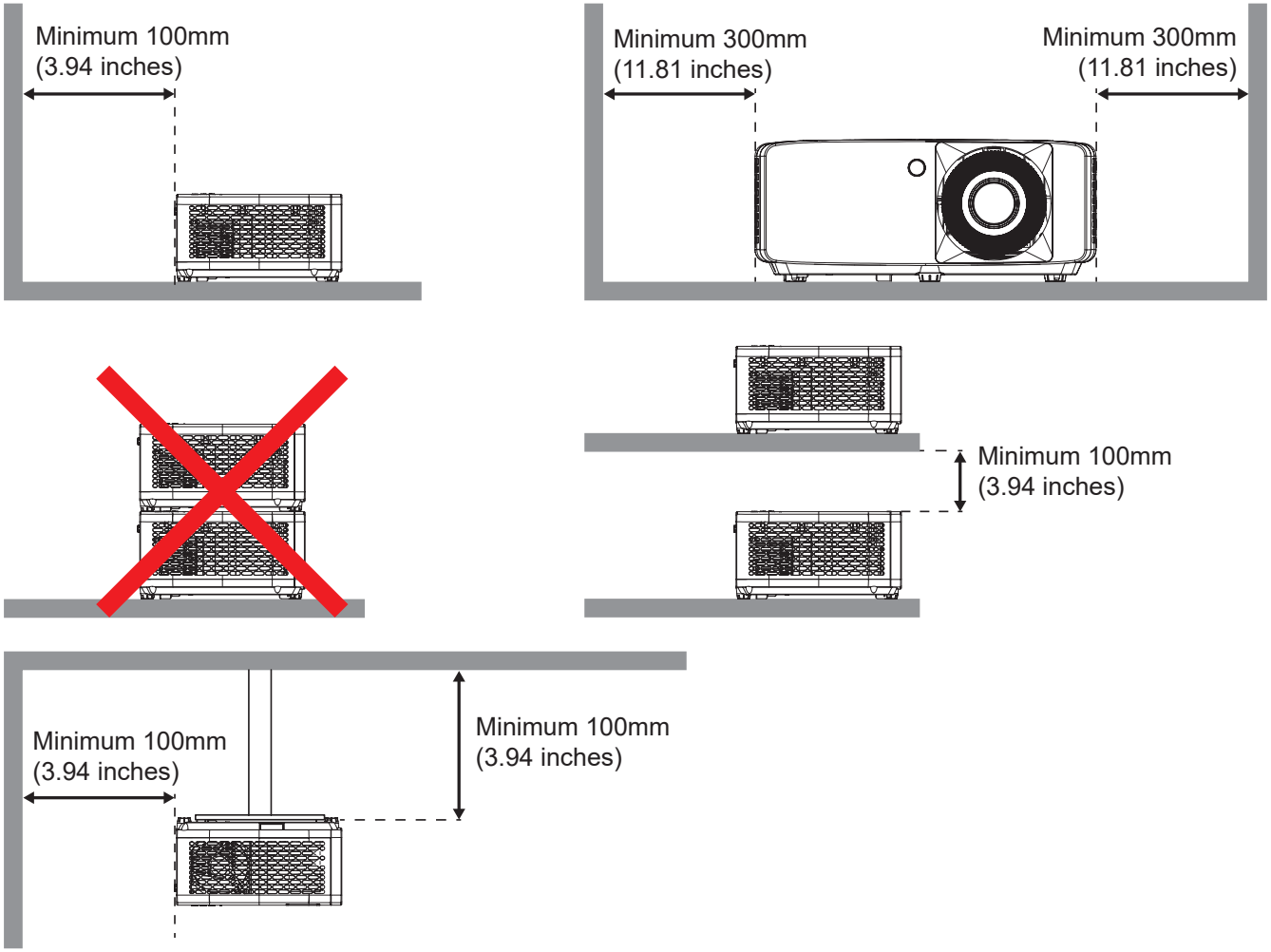
SETUP AND INSTALLATION

Projector installation notice

- 360° free orientation operation



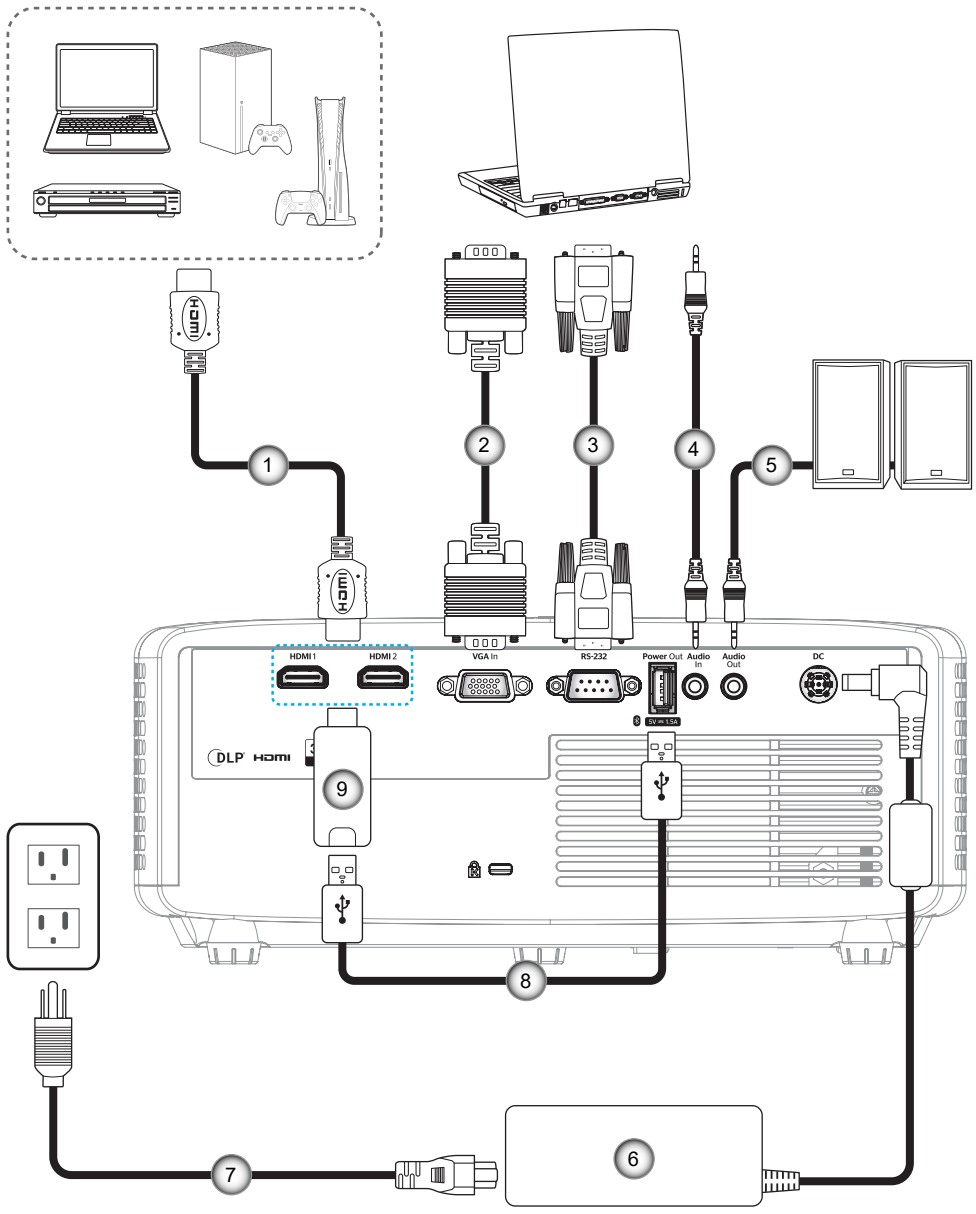
- Allow at least 30 cm clearance around the exhaust vent.



- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the acceptable operation temperature range.

SETUP AND INSTALLATION

Connecting sources to the projector



No	Item	No	Item
1.	HDMI Cable	6.	Power Adapter
2.	VGA Cable	7.	Power Cable
3.	RS232 Cable	8.	USB Power Cable
4.	Audio Cable	9.	HDMI Dongle
5.	Speaker Cable		

Note:

- *The standard configuration is a 1.8m cable.*
- *Available I/O ports differ by model.*

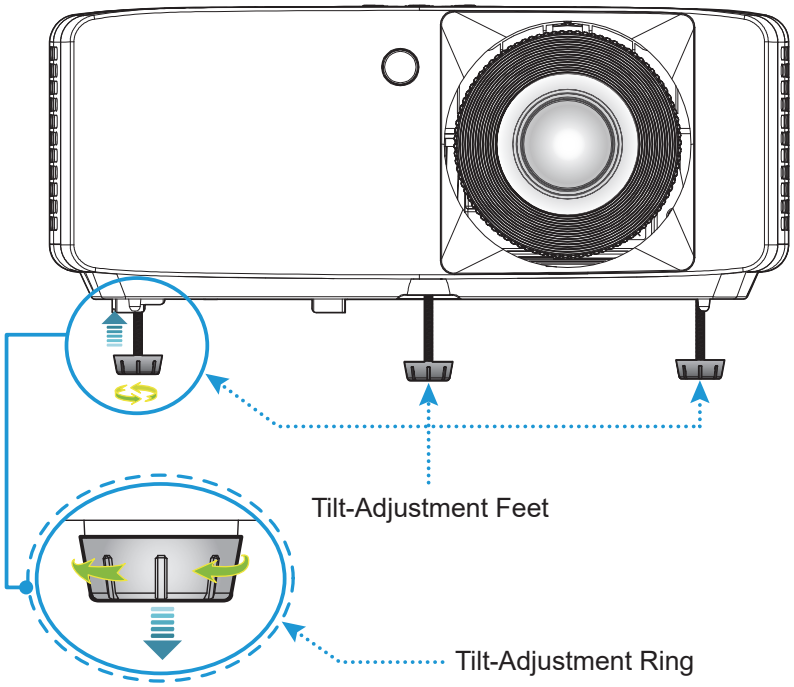
SETUP AND INSTALLATION

Adjusting the projector image

Image height

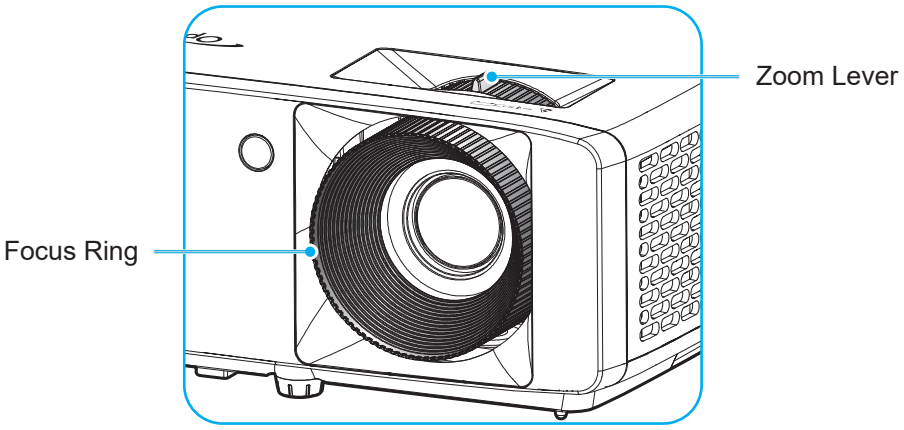
The projector is equipped with elevator feet for adjusting the image height.

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.



Zoom and focus

- To adjust the image size, turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size.
- To adjust the focus, turn the focus ring clockwise or counterclockwise until the image is sharp and legible.



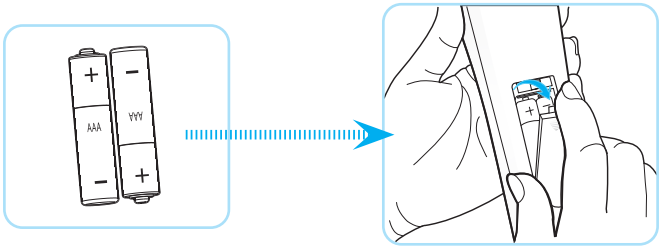
SETUP AND INSTALLATION

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: To ensure safe operation, please observe the following precautions:

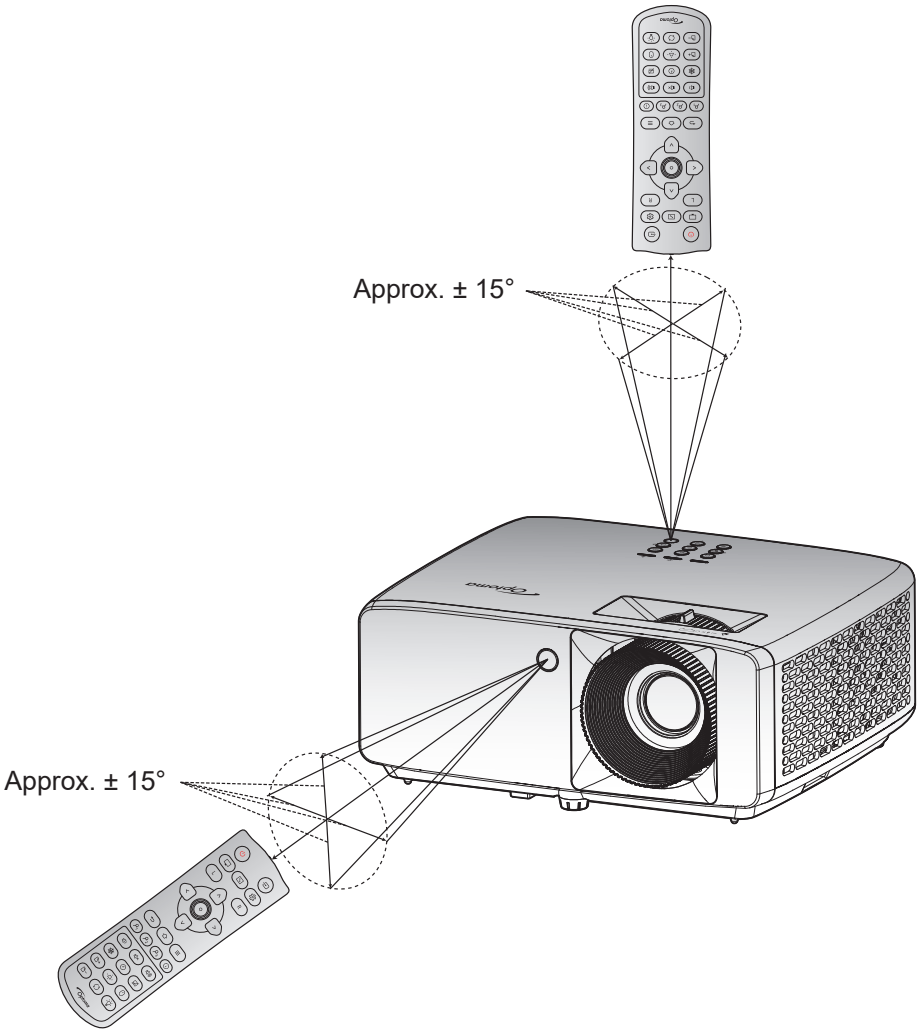
- Replacement of a battery with an incorrect type that can defeat a safeguard (AAA size battery type).
- Disposal of a battery into a fire, hot oven, mechanically crushing or cutting of a battery, may result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause a chemical leak in the old batteries.
- Remove batteries as soon as they are depleted. Chemicals that leak from a battery which comes into contact with your 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 are not using the remote control for an extended period of time, please remove the batteries to reduce risk of chemical leak.

SETUP AND INSTALLATION

Effective range

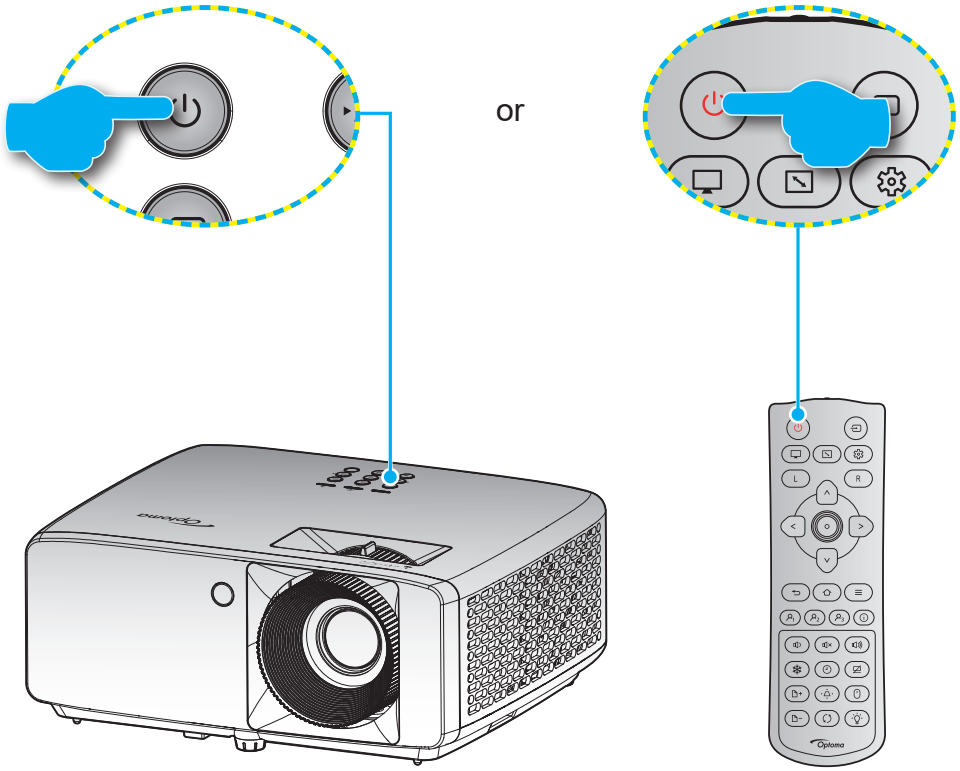
Infra-Red (IR) remote control sensor is located on the top and front sides of the projector. Ensure that the remote control is held at an angle 30 degrees perpendicular to the projector's IR remote control sensor to ensure correct functionality. The distance between the remote control and the sensor should not be longer than 6 meters (19.7 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 directly shined on by sunlight or fluorescent lamps.
- Please keep the remote controller away from fluorescent lamps for over 2 m or the remote controller may malfunction.
- If the remote control is close 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 of one another, the remote control might become ineffective.



USING THE PROJECTOR

Powering on / off the projector



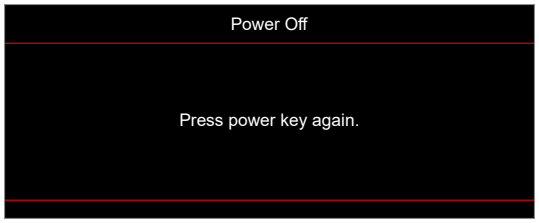
Powering on

1. Securely connect the power lead and signal/source cable. When connected, the Power LED will turn red.
2. Turn on the projector by pressing the ⏻ button on the projector keypad or the ⏻ button on the remote control.
3. A start up screen will display in approximately 10 seconds and the Power 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 ⏻ button on the projector keypad or the ⏻ button on the remote control.
2. The following message will be displayed:



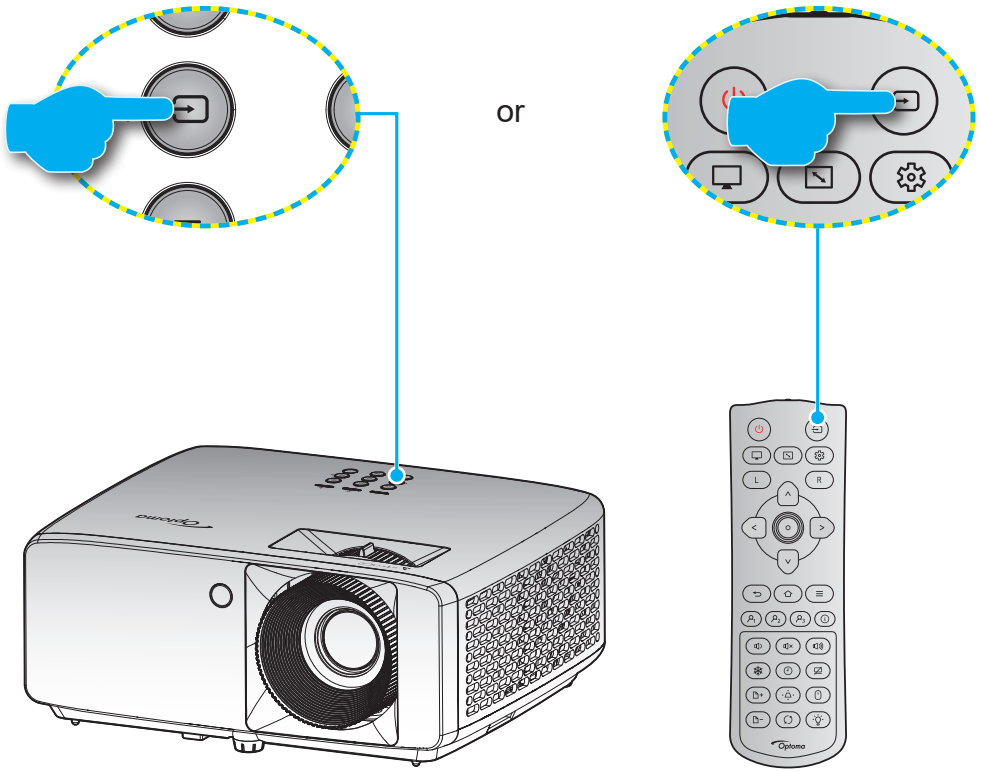
3. Press the ⏻/⏻ button again to confirm, otherwise the message will disappear after 15 seconds. When you press the ⏻/⏻ button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the Power LED will flash blue. When the Power 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 be 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, press the ⇨ button on the projector keypad or remote control to select the desired input.

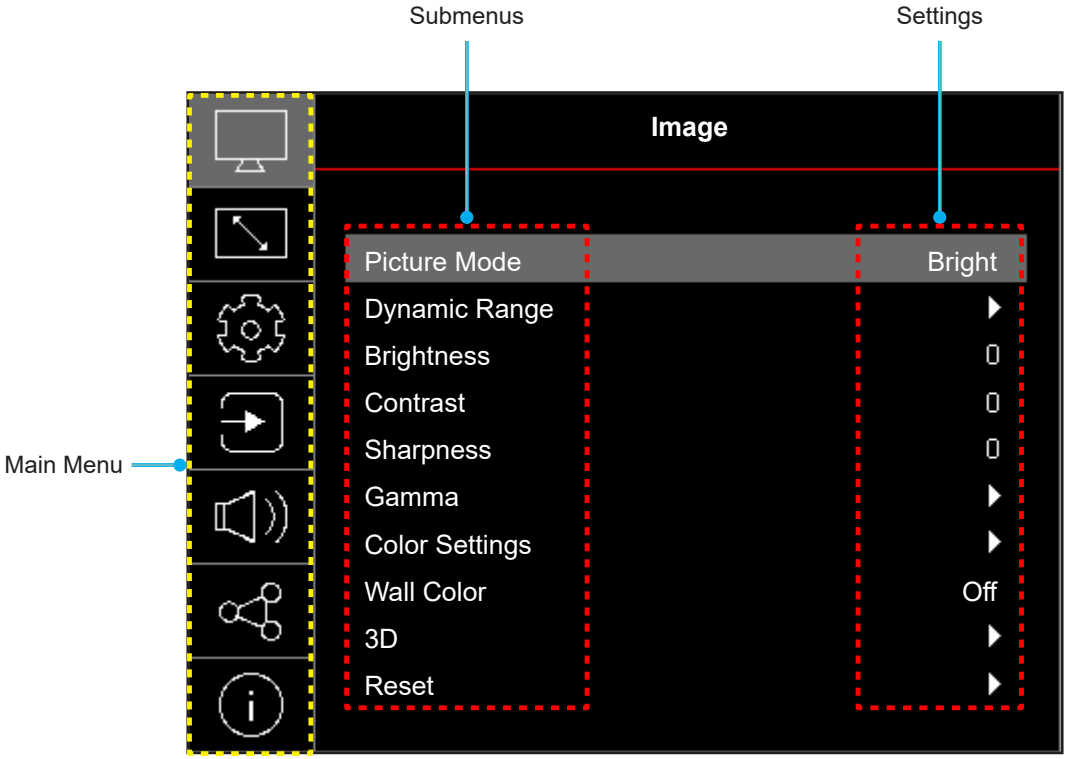


USING THE PROJECTOR

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 the ☰ button on the projector keypad or remote control.
2. When OSD is displayed, use ∧/∨ keys to select any item in the main menu. While making a selection on a particular page, press the ○ button on the projector keypad or remote control to enter sub menu.
3. Use </> keys to select the desired item in the sub menu and then press the ○ button 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 ○ button to confirm, and the screen will return to the main menu.
6. To exit, press the ☰ button again. The OSD menu will close and the projector will automatically save the new settings.



USING THE PROJECTOR

OSD Menu tree

Note: *The OSD menu tree items and features are subject to models and region. Optoma reserves the right to add or remove items to improve product performance without notice.*

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Image	Picture Mode				Vivid
					Bright
					HDR (for 1080p model only)
					HLG (for 1080p model only)
					Cinema
					Game
					Sport (for 1080p model only)
					Reference
					DICOM SIM.
					3D
					Golf SIM.
					ISF Day
					ISF Night
					ISF 3D
	Dynamic Range (for 1080p model only)	HDR / HLG			Off
					Auto
	Brightness				-50 ~ 50
	Contrast				-50 ~ 50
	Sharpness				1 ~ 15
	Gamma				Film
					Graphics
					1.8
					2.0
					2.2
					2.4
	Color Settings	Color			-50 ~ 50
		Tint			-50 ~ 50
		BrilliantColor™			1 ~ 10
		Color Temperature			Warm
					Standard
					Cool
					Cold
		CMS	Color		White / Red / Green / Blue / Cyan / Magenta / Yellow
			Hue		-50 ~ 50
			Saturation		-50 ~ 50
			Gain		-50 ~ 50
			Reset		No
					Yes
			Exit		

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Image	Color Settings	Color Space			Auto
					RGB(0~255) (for HDMI input)
					RGB(16~235) (for HDMI input)
					RGB (for non-HDMI input)
					YUV
		Dynamic Black			Off
					On
		Extreme Black			Off
					On
	Wall Color				Off
					Blackboard
					Light Yellow
					Light Green
					Light Blue
					Pink
					Gray
	3D	3D Mode			Off
					On
		3D Tech			DLP-Link
					3D Sync
		3D Format			Auto
					SBS
					Top and Bottom
					Frame Sequential
		3D Sync Invert			Off
					On
		Reset			Cancel
					OK
	Reset				No
					Yes
Display	Projection Orientation				Front
					Rear
					Ceiling-Top
					Rear-Top
	Light Source Mode	Eco.			
		Constant Power			100% / 95% / 90% / 85% / 80% / 75% / 70% / 65% / 60% / 55% / 50%
	Low Latency Mode (for 1080p model only)				Off
					On
	Screen Type				4:3 / 16:9 / 16:10 / 1:1 / Custom

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Aspect Ratio				4:3
					16:9
					16:10
					Full
					Native
					Auto
	Geometric Correction	V Keystone			-30 ~ 30
		Reset			
	Edge Mask	Sides			All
					Opposite Sides
					One Side
					Off
		Top			0 ~ 100
		Bottom			0 ~ 100
		Left			0 ~ 100
		Right			0 ~ 100
		Reset			Yes
					Cancel
		Exit			
	Digital Zoom	Zoom			-5 ~ 25
	Image Shift	H			-100 ~ 100
		V			-100 ~ 100
	Digital Lens Shift	H			
		V			
	Signal (for WXGA model only)	Automatic			Off
					On
		Frequency			-10 ~ 10
		Phase			0 ~ 31
		H.Position			-5 ~ 5
		V.Position			-5 ~ 5
	Reset				No
					Yes
Setup	Test Pattern				Off
					Green Grid
					Magenta Grid
					White Grid
					White

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Language				English
					عـربي
					Čeština
					Dansk
					Nederlands
					فارســی
					Suomi
					Français
					Deutsch
					ελληνικά
					Magyar
					Bahasa Indonesia
					Italiano
					日本語
					한국어
					Norsk
					Polski
					Português
					Română
					Русский
					簡体中文
					Español
					Svenska
					ไทย
					繁體中文
					Türkçe
					Tiếng Việt
	Menu Settings	Menu Location			(icon) Top left
					(icon) Top right
					(icon) Center
					(icon) Bottom left
					(icon) Bottom right
		Menu Timer			Off
					5s
					10s
					20s
					30s
		Information Hide			Off
					On
	High Altitude				Off
					On

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Power Settings	Direct Power On			Off
					On
		Signal Power On			Off
					On
		Auto Power Off (min.)			0 ~ 180 (1 min increments)
		Sleep Timer (min.)			0 ~ 990 (30 min increments)
					No / Yes
	Security	Security			Off
					On
		Security Timer	Month		
			Day		
			Hour		
		Change Password			
	Startup Logo				Default
					User
					Neutral
	Background Color				None
					Blue
					Red
					Green
					Gray
					Logo
	Reset	Reset OSD			Cancel
					OK
		Reset to Default			Cancel
					OK
Input	Auto Source				Off
					On
	Auto Input Switch				Off
					On
	HDMI CEC Settings	HDMI Link			Off
					On
		Inclusive of TV			No
					Yes
		Power On Link			Mutual
					PJ → Device
					Device → PJ
		Power Off Link			Off
					On
	Quick Search				Off
					On
	Reset				No
					Yes

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Audio	Volume				0 ~ 100
	Mute				Off
					On
	Reset				No
					Yes
Control	Device ID				0~99
	Remote Settings	IR Function			Off
					On
		User 1			HDMI 1/HDMI 2/Test Pattern/ Brightness/Contrast/Sleep Timer/ Color Matching/Color Temp/ Gamma/ Projection/Light Source Settings/Zoom/Freeze/ [Depends on model]
		User 2			HDMI 1/HDMI 2/Test Pattern/ Brightness/Contrast/Sleep Timer/ Color Matching/Color Temp/ Gamma/ Projection/Light Source Settings/Zoom/Freeze/ [Depends on model]
		User 3			HDMI 1/HDMI 2/Test Pattern/ Brightness/Contrast/Sleep Timer/ Color Matching/Color Temp/ Gamma/ Projection/Light Source Settings/Zoom/Freeze/ [Depends on model]
	Keypad Settings	Keypad Lock			Off
					On
	LED Indicator				Off
					On
	BT Control				On
					Off
	Reset				No
					Yes
Information	Regulatory				
	Serial Number				
	Source				
	Color Info.				
	Light Source Hours				
	Picture Mode				
	Device ID				00 ~ 99
	Light Source Mode				
	FW Version	DDP			Cxx
		MCU			Mxx

USING THE PROJECTOR

Image menu

Image picture mode menu

There are several predefined display modes that you can choose from to suit your viewing preference. Each mode has been fine-tuned by our expert colour team to ensure superior colour performance for wide range of content.

- **Vivid**: In this mode, the color saturation and brightness are well-balanced. Choose this mode for playing games.
- **Bright**: This mode is suitable for environments where extra-high brightness is required, such as using the projector in well-lit rooms.
- **HDR / HLG**: Decodes and displays High Dynamic Range (HDR) / Hybrid Log Gamma (HLG) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut. This mode will be automatically enabled if HDR/HLG is set to Auto (and HDR/HLG Content is sent to projector – 4K UHD Blu-ray, 1080p/4K UHD HDR/HLG Games, 4K UHD Streaming Video). While HDR/HLG mode is active, other display modes (Cinema, Reference, etc.) cannot be selected as HDR/HLG delivers color that is highly accurate, exceeding the color performance of the other display modes.

  Note: *This menu option is only available for 1080p model.*
- **Cinema**: Provides the best balance of detail and colors for watching movies.
- **Game**: Optimises your projector for maximum contrast and vivid colours allowing you to see shadow detail when playing video games.
- **Sport**: Optimises your projector for watching sports playback or playing sports games.

  Note: *This menu option is only available for 1080p model.*
- **Reference**: This mode reproduces colours as close as possible the image the way the movie director intended. Color, color temperature, brightness, contrast and gamma settings are all configured to Rec.709 color gamut. Select this mode for the most accurate colour reproduction when watching movies.
- **DICOM SIM.**: This mode has been created for viewing greyscale images, perfect for viewing X-rays and scans during medical training*.

  Note: **This projector is not suitable for use in medical diagnosis.*
- **3D**: Optimized settings for watching 3D content.

  Note: *To experience the 3D effect, you will need to have compatible DLP Link 3D glasses. See the 3D section for more information.*
- **Golf SIM.**: Golf Sim Mode enhances the colors and contrast to create a realistic golf course setting featuring brighter blue skies, darker shadows and realistic greens.
- **ISF Day**: Optimize the image with the ISF Day mode to be perfectly calibrated and high picture quality.
- **ISF Night**: Optimize the image with the ISF Night mode to be perfectly calibrated and high picture quality.
- **ISF 3D**: Optimize the image with the ISF 3D mode to be perfectly calibrated and high picture quality.

USING THE PROJECTOR

Image dynamic range menu

HDR / HLG

Configure the High Dynamic Range (HDR) / Hybrid Log Gamma(HLG) setting and its effect when displaying video from 4K Blu-ray players and streaming devices.

- **Off**: Turn off HDR/HLG Processing. When set to Off, the projector will NOT decode HDR/HLG content.
- **Auto**: Auto detect HDR/HLG signal.

Note: *This menu option is only available for 1080p model.*

Image brightness menu

Adjust the brightness of the image.

Image contrast menu

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

Image sharpness menu

Adjust the sharpness of the image.

Image gamma menu

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.
- **Graphics**: For PC / Photo source.
- **1.8 / 2.0 / 2.2 / 2.4**: For specific PC / Photo source.

Image color settings menu

Color

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

Tint

Adjust the color balance of red and green.

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

Select a color temperature from Warm, Standard, Cool, or Cold.

CMS

Select the following options:

- **Color**: Adjust the red, green, blue, cyan, yellow, magenta, and white level of the image.
- **Hue**: Adjust the color balance of red and green.
- **Saturation**: Adjust a video image from black and white to fully saturated color.
- **Gain**: Adjust the luminance of the selected color.
- **Reset**: Return the factory default settings for color adjustment.
- **Exit**: Return to the Color Settings menu interface.

Color Space

Select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.

Note: *The "RGB" menu option is only available for non-HDMI input source.*

Dynamic Black

Use to automatically adjust the picture brightness in order to give optimum contrast performance.

Extreme Black

Enable this function to automatically increase the contrast ratio by turning off the laser light when black image is detected.

Image wall color menu

Designed to adjust the colors of the projected image when projecting on to a wall without a screen. Each mode has been fine-tuned by our expert colour team to ensure superior color performance.

There are several predefined modes that you can choose from to suit the colour of your wall. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

Note: *For accurate color reproduction, we recommend using a screen.*

Image 3D menu

Note:

- *This projector is a 3D ready projector with DLP-Link 3D solution.*
- *Please make sure your 3D glasses are used for DLP-Link 3D before enjoying your video.*
- *This projector supports frame sequential (page-flip) 3D via HDMI1/HDMI2 ports.*
- *To enable 3D mode, the input frame rate should be set to 60Hz only, lower or higher frame rate is not supported.*
- *To reach the best performance, resolution 1920x1080 is recommended, please be noted that 4K (3840x2160) resolution is not supported in 3D mode.*

3D Mode

Use this option to disable or enable the 3D function.

- **Off**: Select "Off" to turn off 3D mode.
- **On**: Select "On" to turn on 3D mode.

3D Tech

Use this option to select 3D technology.

- **DLP-Link**: Select to use optimized settings for DLP 3D Glasses.
- **3D Sync**: Select to use optimized settings for IR, RF or polarized 3D Glasses.

3D Format

Use this option to select the appropriate 3D format content.

- **Auto**: When a 3D identification signal is detected, the 3D format is selected automatically.
- **SBS**: Display 3D signal in “Side-by-Side” format.
- **Top and Bottom**: Display 3D signal in “Top and Bottom” format.
- **Frame Sequential**: Display 3D signal in “Frame Sequential” format.

3D Sync Invert

Use this option to enable/disable the 3D sync invert function.

Reset

Return the factory default setting for 3D settings.

Image reset menu

Return the factory default settings for image settings.

USING THE PROJECTOR

Display menu

Display projection orientation menu

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

Display light source mode menu

Select a light source mode depending on the installation requirements.

Display low latency mode menu

Enable this feature to reduce response times (input latency) during gaming to 8.6ms (1080p@120Hz). All geometry settings (example: Keystone, Four Corners) will be disabled when Low Latency Mode is enabled. More information is provided below:

Note:

- *This menu option is only available for 1080p model.*
- *The input lag by signals is described in the following table:*
- *The values in the table can vary slightly.*

Source Timing	Low Latency Mode	Output Timing	Output Resolution	Max. Input Lag (ms)
1080p60	On	1080p60Hz	1080p	17
1080p120	On	1080p120Hz	1080p	8.4
4K60	On	4K60Hz	4K	17
1080p60	Off	1080p60Hz	1080p	34
1080p120	Off	1080p120Hz	1080p	16.8
4K60	Off	4K60Hz	4K	34

Display screen type menu

Select the screen type of the original image between the following options:

- **4:3**: Change the resolution of the original image to a 4:3 screen type.
- **16:9**: Change the resolution of the original image to a 16:9 screen type.
- **16:10**: Change the resolution of the original image to a 16:10 screen type.
- **1:1**: Change the resolution of the original image to a 1:1 screen type.
- **Custom**: Change the resolution of the original image to a user-defined screen ratio.

Note: *After changing the screen type, the aspect ratio will be disabled.*

USING THE PROJECTOR

Display aspect ratio menu

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.
- **16:10**: This format is for 16:10 input sources.
- **Full:** Fill the entire screen with the image.
- **Native**: This format displays the original image without any scaling.
- **Auto**: Automatically selects the appropriate display format.

1080p scaling table:

16:9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1440x1080.				
16x9	Scale to 1920x1080.				
Native mode	- 1:1 mapping centered. - No scaling will be made; the image is displayed with the resolution based on input source.				
Auto	- If auto format is selected, the screen type will automatically become 16:9 (1920x1080). - If source is 4:3, the screen type will be scaled to 1440 x1080. - If source is 16:9, the screen type will be scaled to 1920x1080. - If source is 16:10, the screen type will be scaled to 1920x1200 and cut 1920x1080 area to display.				

1080p auto mapping rule:

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1920	1080
4:3	640	480	1440	1080
	800	600	1440	1080
	1024	768	1440	1080
	1280	1024	1440	1080
	1400	1050	1440	1080
	1600	1200	1440	1080
Wide Laptop	1280	720	1920	1080
	1280	768	1800	1080
	1280	800	1728	1080
SDTV	720	576	1350	1080
	720	480	1620	1080
HDTV	1280	720	1920	1080
	1920	1080	1920	1080

USING THE PROJECTOR

Display geometric correction menu

V Keystone

Adjust image distortion vertically and make a squarer image. Vertical keystone is used to correct a keystoned image shape in which the top and bottom are slanted to one of the sides. This is intended when for use with vertically on-axis applications.

Reset

Return the factory default setting for geometric correction settings.

Display edge mask menu

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

Display digital zoom menu

Use to reduce or magnify an image on the projection screen. Digital Zoom is not the same as optical zoom and an result in degradation of image quality.

Note: *Zoom settings are retained on power cycle of the projector.*

Display image shift menu

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

Display digital lens shift menu

Adjust the projected image position horizontally (H) or vertically (V) without moving it beyond the edges of the screen.

Display signal menu

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.

Note: *This menu is only available if the input source is VGA (for WXGA model only).*

Display reset menu

Return the factory default settings for display settings.

USING THE PROJECTOR

Setup menu

Setup test pattern menu

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

Setup language menu

Select the multilingual OSD menu.

Setup menu settings menu

Menu Location

Select the menu location on the display screen.

Menu Timer

Set the duration where the OSD menu stays visible on the screen.

Information Hide

Enable this function to hide the information message.

Setup high altitude menu

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

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.

Signal Power On

Choose “On” to activate Signal Power mode. The projector will automatically power on when a signal is detected, without pressing the “Power” key on the projector Keypad or on the remote control.

Note:

- *If the “Signal Power On” option is turned “On”, the power consumption of the projector in standby mode will be over 3W.*
- *This function is applicable with HDMI source.*

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.)

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.*

USING THE PROJECTOR

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 startup logo menu

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.
- **User:** Logo capture tool required.
  Note: *Please visit the website to download the logo capture tool.*
  The supported file format: png/bmp/jpg.
- **Neutral:** Logo is not displayed on startup screen.

Setup background color menu

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

Note: *If the background color is set to “None”, then the background color is black.*

Setup reset menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for all settings.

USING THE PROJECTOR

Input menu

Input auto source menu

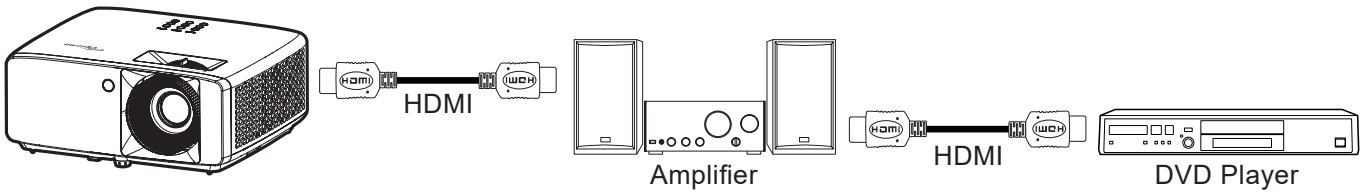
Choose this option to let the projector automatically find an available input source.

Input auto input switch menu

When HDMI input signal is detected, the projector will automatically switch the input source.

Input HDMI CEC settings menu

Note: *When you connect HDMI CEC-compatible devices to the projector with HDMI cables, you can control them on the same power on or power off status using the HDMI Link control feature in the projector's OSD. This lets one device or multiple devices in a group power on or power off via HDMI Link Feature in a typical configuration, your DVD player may be connected to the projector through an amplifier or home theater system.*



HDMI Link

Enable/disable the HDMI Link function.

Inclusive of TV

If the settings is set to "Yes" then the power on and power off link options are available.

Power On Link

CEC power on command.

- **Mutual:** Both projector and CEC device will be turned on simultaneously.
- **PJ → Device:** The CEC device will be turned on only after the projector is switched on.
- **Device → PJ:** The projector will be switched on only after the CEC device is turned on.

Power Off Link

Enable this function to let both HDMI Link and projector to be automatically turned off at the same time.

Input quick search menu

Choose whether to search for signals at a faster speed.

- **On:** Choose "On" to reduce the time for signal searching.
- **Off:** Choose "Off" to restore the time for normal signal search.

Note: *Enabling this function may affect the stability for some equipment.*

Input reset menu

Return the factory default settings for input settings.

USING THE PROJECTOR

Audio menu

Audio volume menu

Adjust the volume level.

Audio mute menu

Use this option to temporarily turn off the sound.

- **On:** Choose “On” to turn mute on.
- **Off:** Choose “Off” to turn mute off.

Note: *“Mute” function affects both internal and external speaker volume.*

Audio reset menu

Return the factory default settings for audio settings.

USING THE PROJECTOR

Control menu

Control device ID menu

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

Note: *For a full list of RS232 commands, please refer to the RS232 user manual on our website.*

Control remote settings menu

IR Function

Set the IR function setting.

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

User 1 / User 2 / User 3

Assign the default function for User 1, User 2, or User 3 between HDMI 1, HDMI 2, Test Pattern, Brightness, Contrast, Sleep Timer, Color Matching, Color Temp, Gamma, Projection, Light Source Settings, Zoom, and Freeze.

Note: *The User 1 / User 2 / User 3 function availability depends on the remote control type. The remote control layout may vary depending on the region.*

Control keypad settings menu

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.

Control LED indicator menu

When the LED indicator function is “Off”, the Power LED is turned off in the “Power On” status. All other LED indicator settings remain unchanged.

Control BT control menu

Connect a Bluetooth dongle to operate the projector.

Control reset menu

Return the factory default settings for control settings.

USING THE PROJECTOR

Information menu

Information menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Color Info.
- Light Source Hours
- Picture Mode
- Device ID
- Light Source Mode
- FW Version

ADDITIONAL INFORMATION

Compatible resolutions

Note: *Long-distance adaptation solution: To ensure the best image quality, we recommend using high-speed or certified cables and keeping the cable length within 5 meters.*

Input Signal for HDMI

Signal	Resolution	Refresh Rate(Hz)	Notes for Mac
VGA	640 x 480	60	Mac 60/72/85/
SVGA	800 x 600	60(*2)/72/85/120(*2)	Mac 60/72/85
XGA	1024 x 768	48/50(*4)/60(*2)/70/75/85/120(*2)	Mac 60/70/75/85
SDTV(480I)	720 x 480	60	
SDTV(480P)	720 x 480	60	
SDTV(576I)	720 x 576	50	
SDTV(576P)	720 x 576	50	
WSVGA(1024X600)	1024 x 600	60 (*3)	
HDTV(720p)	1280 x 720	50(*2)/60/120(*2)	Mac 60
WXGA	1280 x 768	60/75/85	Mac 75
	1280 x 800	60/50/48hz(*4)	Mac 60
WXGA(*5)	1366 x 768	60	
SXGA	1280 x 1024	60/75/85	Mac 60/75
	1440 x 900	60	
SXGA+	1400 x 1050	60	
UXGA	1600 x 1200	60	
HDTV(1080I)	1920 x 1080	50/60	
HDTV(1080p)	1920 x 1080	24/30/50/60	Mac 60
WUXGA	1920 x 1200(*1)	60/50(*4)	Mac 60

Note:

- *(*1) 1920 x 1200 @60hz only support RB(reduced blanking).*
- *(*2) 3D timing for 3D Ready projector(STD) and True 3D projector(Option).*
- *(*3) New ERA & Data projector must have this timing WSVGA, Proscene and Home is nice to have.*
- *(*4) Proscene and Data projector >4,000L, Native resolution must support @50Hz/48Hz.*
- *(*5) Windows 8 standard timing.*

ADDITIONAL INFORMATION

True 3D Video Compatibility

Input resolutions	HDMI 1.4a 3D Input	Input timing		
		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 @ 50Hz	Side-by-Side(Half)	
		1920 x 1080i @ 60Hz	Side-by-Side(Half)	
		1920 x 1080P @ 24Hz	Top-and-Bottom	
		1920 x 1080P @ 24Hz	Frame packing	
	HDMI 1.3	1920 x 1080i @ 50Hz	Side-by-Side(Half)	SBS mode is on
		1920 x 1080i @ 60Hz		
		1280 x 720P @ 50Hz		
		1280 x 720P @ 60Hz		
		800 x 600 @ 60Hz		
		1024 x 768 @ 60Hz		
		1280 x 800 @ 60Hz		
		1920 x 1080i @ 50Hz	Top-and-Bottom	TAB mode is on
		1920 x 1080i @ 60Hz		
		1280 x 720P @ 50Hz		
		1280 x 720P @ 60Hz		
		800 x 600 @ 60Hz		
		1024 x 768 @ 60Hz		
		1280 x 800 @ 60Hz		
		1024 x 768 @ 120Hz	Frame Sequential	3D format is Frame sequential
		1280x 720 @ 120Hz		

Note:

- *If 3D input is 1080p@24hz, the DMD should replay with integral multiple with 3D mode*
- *1080i@25Hz and 720p@50Hz will run in 100Hz; other 3D timing will run in 120Hz.*
- *1080p@24Hz will run 144Hz.*

ADDITIONAL INFORMATION

EDID Table (WXGA model)

HDMI				
B0 / Established Timing	**B0 / Standard Timing**	**B0 / Detail Timing**	**B1 / Video Mode**	**B1 / Detail Timing**
720 x 400 @ 70Hz	Timing 1: 1280 x 800 @ 60 Hz (16:10)	1280 x800 @60Hz	SVD #001: (16) 1920x1080p @ 60 Hz 16:9	1366 x768 @60Hz;
640 x 480 @ 60Hz	Timing 2: 1680 x 1050 @ 60 Hz (16:10)		SVD #002: (5) 1920x1080i @ 60 Hz 16:9	1920 x1080 @60Hz;
640 x 480 @ 67Hz	Timing 3: 1440 x 900 @ 60 Hz (16:10)		SVD #003: (4) 1280x720p @ 60 Hz 16:9	1280 x 800 @ 120 Hz
640 x 480 @ 72Hz	Timing 4: 1280 x 1024 @ 60 Hz (5:4)		SVD #004: (3) 720x480p @ 60 Hz 16:9	
640 x 480 @ 75Hz	Timing 5: 1024 x 768 @ 120 Hz (4:3)		SVD #005: (2) 720x480p @ 60 Hz 4:3	
800 x 600 @ 56Hz	Timing 6: 1280 x 720 @ 120 Hz (16:9)		SVD #006: (7) 720(1440)x480i @ 60 Hz 16:9	
800 x 600 @ 60Hz	Timing 7: 1280 x 720 @ 60 Hz (16:9)		SVD #007: (6) 720(1440)x480i @ 60 Hz 4:3	
800 x 600 @ 72Hz	Timing 8: 1600 x 1200 @ 60 Hz (4:3)		SVD #008: (19) 1280x720p @ 50 Hz 16:9	
800 x 600 @ 75Hz			SVD #009: (31) 1920x1080p @ 50 Hz 16:9	
832 x 624 @ 75Hz			SVD #010: (32) 1920x1080p @ 24 Hz 16:9	
1024 x 768 @ 60Hz			SVD #011: (20) 1920x1080i @ 50 Hz 16:9	
1024 x 768 @ 70Hz			SVD #012: (18) 720x576p @ 50 Hz 16:9	
1024 x 768 @ 75Hz			SVD #013: (17) 720x576p @ 50 Hz 4:3	
1280 x 1024 @ 75Hz			SVD #014: (22) 720(1440) x576i @ 50 Hz 16:9	
1152 x 870 @ 75Hz			SVD #015: (21) 720(1440) x576i @ 50 Hz 4:3	
			SVD #016: (1) 640x480p @ 60 Hz 4:3	
			SVD #017: (34) 1920x1080p @ 30 Hz 16:9	

ADDITIONAL INFORMATION

EDID Table (1080p model)

HDMI				
B0 / Established Timing	**B0 / Standard Timing**	**B0 / Detail Timing**	**B1 / Video Mode**	**B1 / Detail Timing**
720 x 400 @ 70Hz	Timing 1: 1024 x 768 @ 120 Hz (4:3)	1920 x1080 @60Hz	SVD #001: (1) 640x480p @ 60 Hz 4:3	1366 x768 @60Hz
640 x 480 @ 60Hz	Timing 2: 1280 x 720 @ 60 Hz (16:9)		SVD #002: (21) 720(1440) x576i @ 50 Hz 4:3	
640 x 480 @ 67Hz	Timing 3: 1280 x 720 @ 120 Hz (16:9)		SVD #003: (22) 720(1440) x576i @ 50 Hz 16:9	
640 x 480 @ 72Hz	Timing 4: 1280 x 800 @ 60 Hz (16:10)		SVD #004: (6) 720(1440)x480i @ 60 Hz 4:3	
640 x 480 @ 75Hz	Timing 5: 1280 x 1024 @ 60 Hz (5:4)		SVD #005: (7) 720(1440)x480i @ 60 Hz 16:9	
800 x 600 @ 56Hz	Timing 6: 1440 x 900 @ 60 Hz (16:10)		SVD #006: (17) 720x576p @ 50 Hz 4:3	
800 x 600 @ 60Hz	Timing 7: 1400 x 1050 @ 60 Hz (4:3)		SVD #007: (18) 720x576p @ 50 Hz 16:9	
800 x 600 @ 72Hz	Timing 8: 1600 x 1200 @ 60 Hz (4:3)		SVD #008: (2) 720x480p @ 60 Hz 4:3	
800 x 600 @ 75Hz			SVD #009: (3) 720x480p @ 60 Hz 16:9	
832 x 624 @ 75Hz			SVD #010: (19) 1280x720p @ 50 Hz 16:9	
1024 x 768 @ 60Hz			SVD #011: (4) 1280x720p @ 60 Hz 16:9	
1024 x 768 @ 70Hz			SVD #012: (5) 1920x1080i @ 60 Hz 16:9	
1024 x 768 @ 75Hz			SVD #013: (20) 1920x1080i @ 50 Hz 16:9	
1280 x 1024 @ 75Hz			SVD #014: (32) 1920x1080p @ 24 Hz 16:9	
1152 x 870 @ 75Hz			SVD #015: (34) 1920x1080p @ 30 Hz 16:9	
			SVD #016: (31) 1920x1080p @ 50 Hz 16:9	
			SVD #017: (16) 1920x1080p @ 60 Hz 16:9	
			SVD #018: (63) 1920x1080p @ 120 Hz 16:9	
			SVD #019: (93) 3840x2160p @ 24 Hz 16:9	
			SVD #020: (94) 3840x2160p @ 25 Hz 16:9	
			SVD #021: (95) 3840x2160p @ 30 Hz 16:9	
			SVD #022: (96) 3840x2160p @ 50 Hz 16:9	
			SVD #023: (97) 3840x2160p @ 60 Hz 16:9	
			SVD #024: (98) 4096x2160p @ 24 Hz 256:135	
			SVD #025: (99) 4096x2160p @ 25 Hz 256:135	

ADDITIONAL INFORMATION

HDMI				
B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Video Mode	B1 / Detail Timing
			SVD #026: (100) 4096x2160p @ 30 Hz 256:135	
			SVD #027: (101) 4096x2160p @ 50 Hz 256:135	
			SVD #028: (102) 4096x2160p @ 60 Hz 256:135	

ADDITIONAL INFORMATION

Image size and projection distance

WXGA model

Desired Image Size						Projection Distance (C)				Offset (Hd)	
Diagonal		Width		Height		Wide		Tele			
inch	m	inch	m	inch	m	inch	m	inch	m	inch	m
30	0.76	25.44	0.65	15.9	0.40	3.28	1.00	3.64	1.11	1.95	0.05
40	1.02	33.92	0.86	21.2	0.54	4.36	1.33	4.86	1.48	2.64	0.07
50	1.27	42.40	1.08	26.5	0.67	5.45	1.66	6.07	1.85	3.27	0.08
60	1.52	50.88	1.29	31.8	0.81	6.53	1.99	7.28	2.22	3.95	0.10
70	1.78	59.36	1.51	37.1	0.94	7.61	2.32	8.50	2.59	4.59	0.12
80	2.03	67.84	1.72	42.4	1.08	8.69	2.65	9.71	2.96	5.27	0.13
90	2.29	76.32	1.94	47.7	1.21	9.81	2.99	10.93	3.33	5.91	0.15
100	2.54	84.80	2.15	53.0	1.35	10.89	3.32	12.14	3.70	6.59	0.17
120	3.05	101.76	2.58	63.6	1.62	13.06	3.98	14.60	4.45	7.91	0.20
150	3.81	127.20	3.23	79.5	2.02	16.34	4.98	18.24	5.56	9.86	0.25
180	4.57	152.64	3.88	95.4	2.42	19.59	5.97	21.88	6.67	11.81	0.30
200	5.08	169.60	4.31	106.0	2.69	21.75	6.63	24.31	7.41	13.13	0.33
250	6.35	212.00	5.38	132.5	3.37	27.20	8.29	30.38	9.26	16.45	0.42
300	7.62	254.40	6.46	159.0	4.04	32.64	9.95	/	/	19.72	0.50

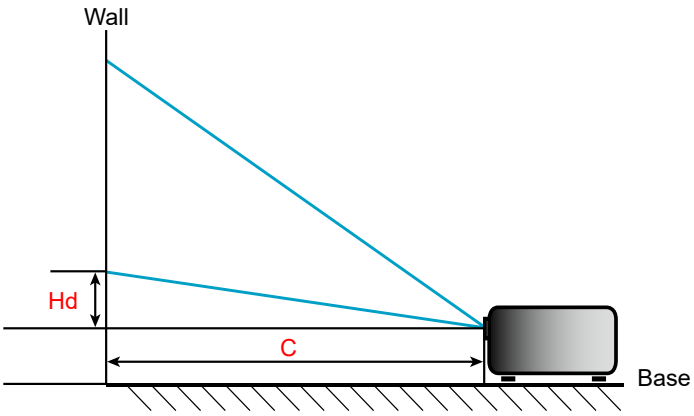
Note: *Zoom Ratio: 1.1x*

1080p model

Desired Image Size						Projection Distance (C)				Offset (Hd)	
Diagonal		Width		Height		Wide		Tele			
inch	m	inch	m	inch	m	inch	m	inch	m	inch	m
30	0.76	26.15	0.66	14.7	0.37	3.22	0.98	3.54	1.08	2.33	0.06
40	1.02	34.86	0.89	19.6	0.50	4.30	1.31	4.69	1.43	3.15	0.08
50	1.27	43.58	1.11	24.5	0.62	5.38	1.64	5.87	1.79	3.91	0.10
60	1.52	52.29	1.33	29.4	0.75	6.46	1.97	7.05	2.15	4.72	0.12
70	1.78	61.01	1.55	34.3	0.87	7.51	2.29	8.23	2.51	5.48	0.14
80	2.03	69.73	1.77	39.2	1.00	8.60	2.62	9.42	2.87	6.30	0.16
90	2.29	78.44	1.99	44.1	1.12	9.68	2.95	10.60	3.23	7.06	0.18
100	2.54	87.16	2.21	49.0	1.25	10.76	3.28	11.78	3.59	7.87	0.20
120	3.05	104.59	2.66	58.8	1.49	12.89	3.93	14.11	4.3	9.39	0.24
150	3.81	130.74	3.32	73.5	1.87	16.11	4.91	17.65	5.38	11.78	0.30
180	4.57	156.88	3.98	88.2	2.24	19.36	5.9	21.19	6.46	14.11	0.36
200	5.08	174.32	4.43	98.1	2.49	21.49	6.55	23.52	7.17	15.69	0.40
250	6.35	217.89	5.53	122.6	3.11	26.87	8.19	29.43	8.97	19.59	0.50
305	7.75	265.83	6.75	149.5	3.80	32.78	9.99	/	/	23.94	0.61

Note: *Zoom Ratio: 1.1x*

ADDITIONAL INFORMATION

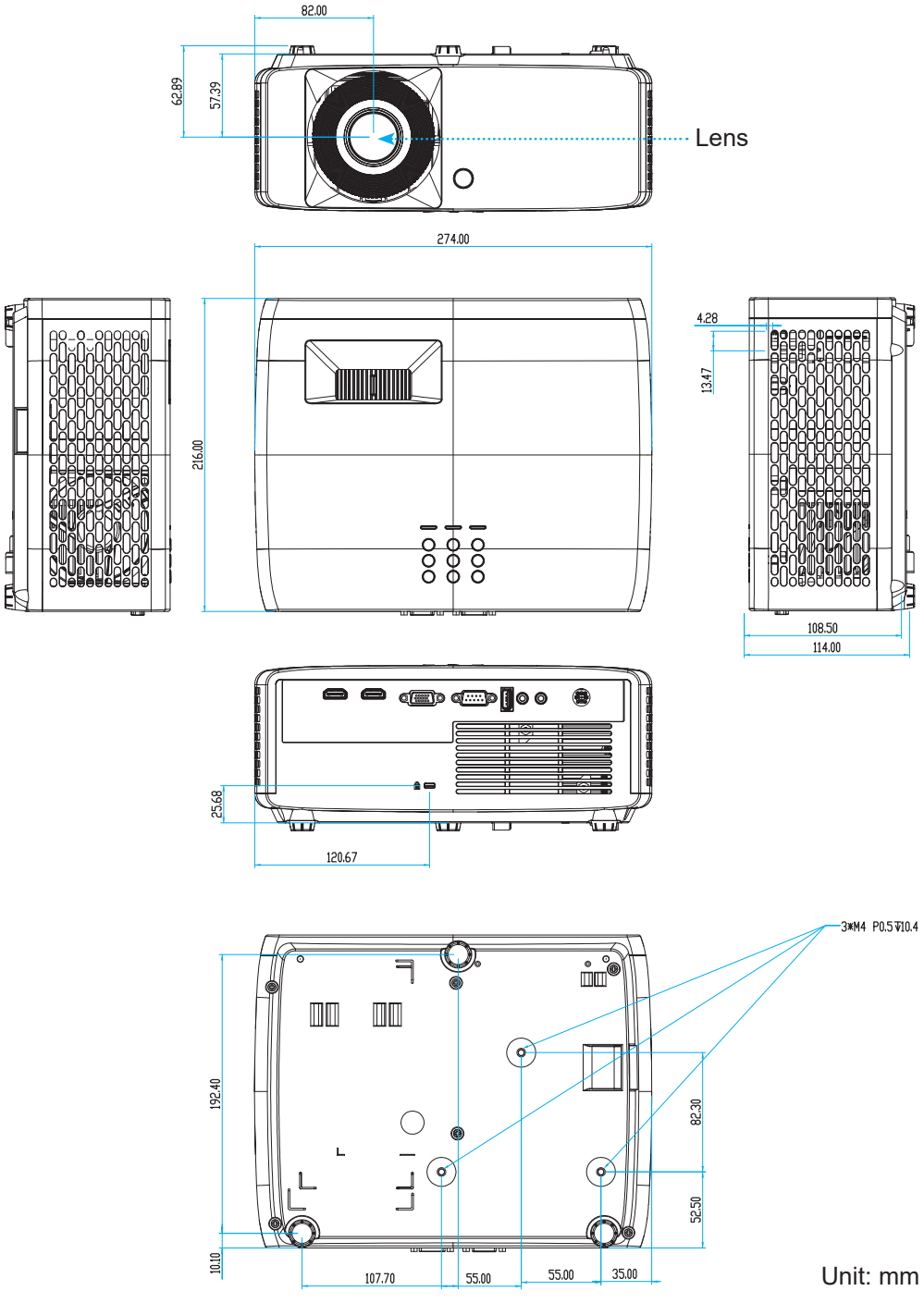


ADDITIONAL INFORMATION

Projector dimensions and ceiling mount installation

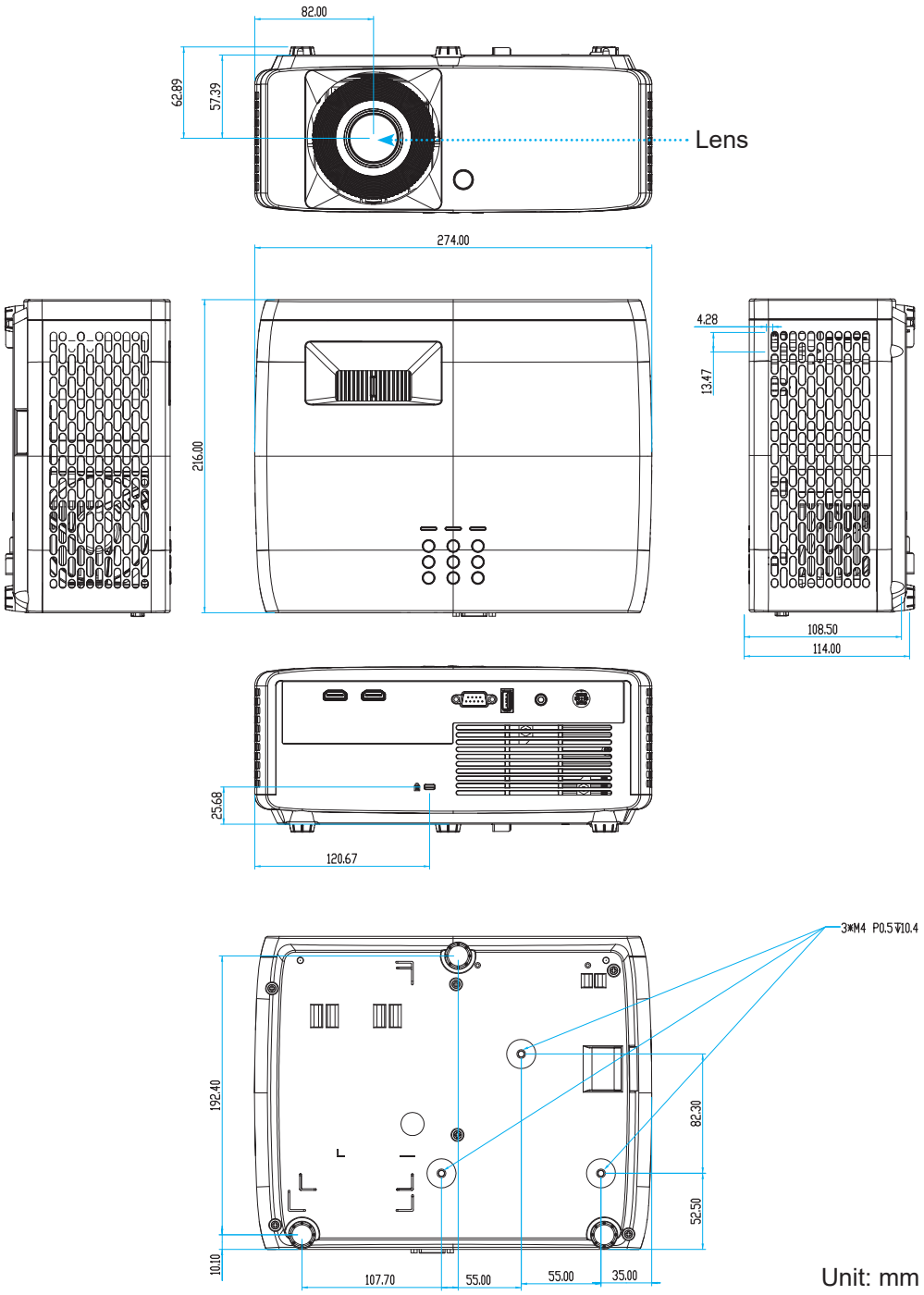
1. To prevent damage to your projector, please use the Optoma ceiling mount.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:
   - Screw type: M4*10mm
   - Minimum screw length: 10mm

WXGA model



ADDITIONAL INFORMATION

1080p model



Unit: mm

Note:

- *Please note that damage resulting from incorrect installation will void the warranty.*
- *Available I/O ports differ by model.*

Warning:

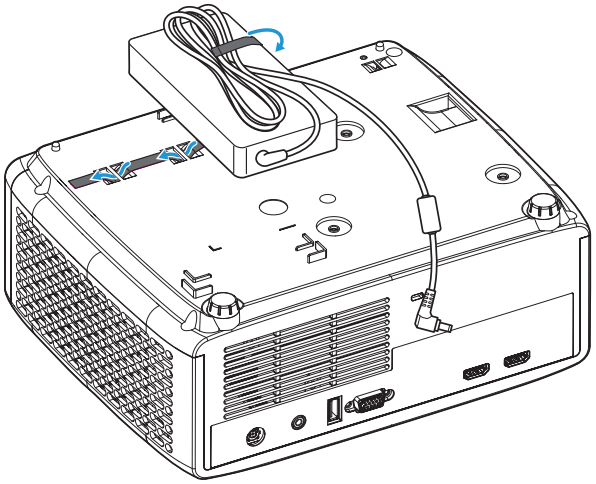
- If you buy a ceiling mount from another company, please be sure to use the correct screw size. Screw size will vary depending on the thickness of the mounting plate.
- Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
- Avoid installing the projector near a heat source.

ADDITIONAL INFORMATION

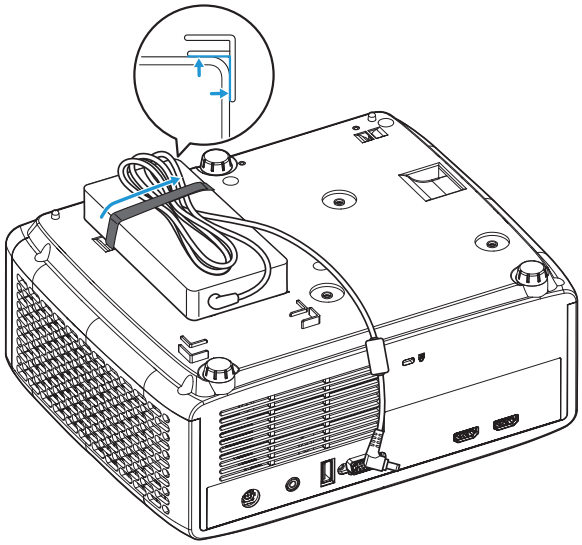
120W adapter mounting method

For ceiling mounting, install the adapter as shown below.

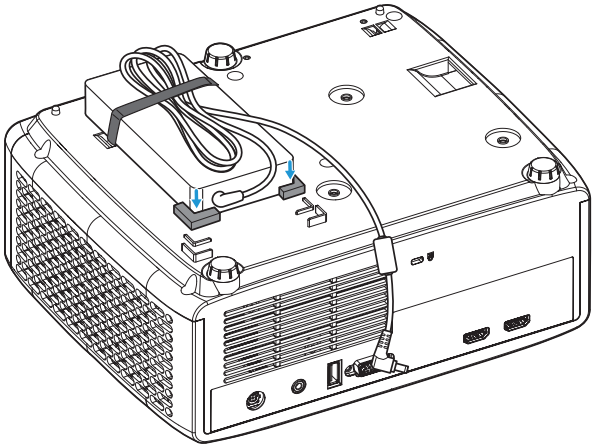
1. Turn the projector upside down, then route the Velcro strap included with the adapter through the holes in the bottom cover.



2. Position the adapter against the stopper, then fasten the Velcro strap to secure the adapter.

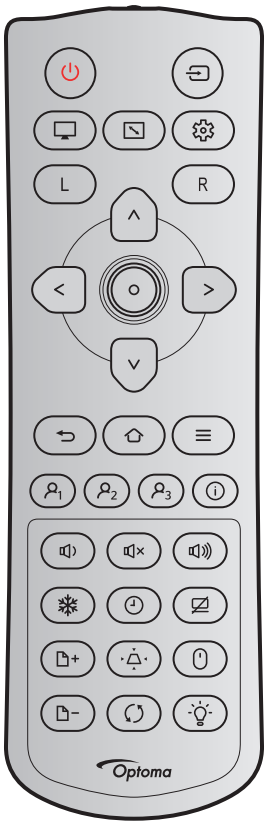


3. Remove the protective film from the rubber adhesive, then attach the rubber to the bottom cover next to the adapter.



ADDITIONAL INFORMATION

IR remote control codes



Key		Repeat Format	NEC Code				Description
			Custom Code		Data		
			Byte 1	Byte 2	Byte 3	Byte 4	
Power		F1	32	CD	02	FD	Press to turn on / off the projector.
Source		F1	32	CD	C3	3C	Press to select an input signal.
Display Mode		F1	32	CD	5	FA	Press to change the Display mode of a displayed image.
Aspect Ratio		F1	32	CD	64	9B	Press to change the aspect ratio of a displayed image.
Setup Menu		F1	32	CD	A8	57	Press to enter the Setup menu.
Mouse Left Click	L	F1	32	CD	CB	34	Left Mouse Button
Mouse Right Click	R	F1	32	CD	CC	33	Right Mouse Button

ADDITIONAL INFORMATION

Key		Repeat Format	NEC Code				Description
			Custom Code		Data		
			Byte 1	Byte 2	Byte 3	Byte 4	
Four directional select keys (Up)	∧	F2	32	CD	11	EE	Press to select items or make adjustments to your selection.
Four directional select keys (Left)	<	F2	32	CD	10	EF	
Four directional select keys (Right)	>	F2	32	CD	12	ED	
Four directional select keys (Down)	∨	F2	32	CD	14	EB	
Enter	○	F1	32	CD	0F	F0	Confirm your item selection.
Return	⮌	F1	32	CD	0D	F2	Press to return to the previous menu.
Home	⌂	F1	32	CD	A0	5F	Press to return to the main menu when OSD in sub menu. - No function when no OSD display. - No function when shortcut menu is displayed.
Menu	≡	F1	32	CD	0E	F1	Press to display or exit the on-screen display menus.
User 1	A_1	F1	32	CD	36	C9	Press to enter the assigned function.
User 2	A_2	F1	32	CD	65	9A	Press to enter the assigned function.
User 3	A_3	F1	32	CD	66	99	Press to enter the assigned function.
Information	ⓘ	F1	32	CD	25	DA	Press to enter the Information menu.
Volume -	🔉	F2	32	CD	8F	70	Press to decrease the volume.
Mute	🔇	F1	32	CD	52	AD	Press to momentarily turn off / on the audio.
Volume +	🔊	F2	32	CD	8C	73	Press to increase the volume.
Freeze	❄	F1	32	CD	6	F9	Press to freeze the projector image.
Sleep Timer	⏲	F1	32	CD	63	9C	Press to set the countdown timer.
AV Mute	⊠	F1	32	CD	3	FC	Press to hide / unhide the screen picture and turn off / on audio.
Page Up	🗋+	F2	32	CD	C1	3E	Press to page up.
Keystone	⏃	F1	32	CD	7	F8	Press to adjust image distortion caused by tilting the projector.
Mouse	🖱	F1	32	CD	3E	C1	Press to On / Off the USB mouse function.
Page Down	🗋−	F2	32	CD	C2	3D	Press to page down.
Resync	⟳	F1	32	CD	C4	3B	Press to automatically synchronize the projector to the input source.

ADDITIONAL INFORMATION

Key		Repeat Format	NEC Code				Description
			Custom Code		Data		
			Byte 1	Byte 2	Byte 3	Byte 4	
Light Source Mode		F1	32	CD	0A	F5	Press to automatically adjust the picture brightness to give an optimum contrast performance.

ADDITIONAL INFORMATION



Key		NEC Format	Byte 1	Byte 2	Byte 3	Byte 4
Power on		Format 1	32	CD	02	FD
Source		Format 1	32	CD	C3	3C
Backlight		Format 1	Backlight on/off			
Re-sync		Format 1	32	CD	C4	3B
Sleep timer		Format 1	32	CD	63	9C
Keystone		Format 1	32	CD	07	F8
Aspect ratio		Format 1	32	CD	64	9B
3D	3D	Format 1	32	CD	89	76
Brightness		Format 1	32	CD	41	BE
Contrast		Format 1	32	CD	42	BD
Lamp		Format 1	32	CD	0A	F5
CMS	CMS	Format 1	32	CD	0B	F4
Mode		Format 1	32	CD	05	FA

ADDITIONAL INFORMATION

Key		NEC Format	Byte 1	Byte 2	Byte 3	Byte 4
HDR	HDR	Format 1	32	CD	0C	F3
Up	∧	Format 2	32	CD	11	EE
Left	<	Format 2	32	CD	10	EF
Enter	○	Format 2	32	CD	0F	F0
Right	>	Format 2	32	CD	12	ED
Down	∨	Format 2	32	CD	14	EB
Return	⮌	Format 1	32	CD	0D	F2
Menu	☰	Format 2	32	CD	0E	F1
Vol -	🔉	Format 2	32	CD	8F	70
Mute	🔇	Format 1	32	CD	52	AD
Vol +	🔊	Format 2	32	CD	8C	73
HDMI1	HDMI 1	Format 1	32	CD	16	E9
HDMI2	HDMI 2	Format 1	32	CD	30	CF
HDMI3	HDMI 3	Format 1	32	CD	98	67
User1	👤1	Format 1	32	CD	36	C9
User2	👤2	Format 1	32	CD	65	9A
User3	👤3	Format 1	32	CD	66	99
User4	👤4	Format 1	32	CD	09	F6

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.
- Ensure that the "Mute" feature is not turned on.

Image is out of focus

- Turn the focus ring clockwise or counterclockwise until the image is sharp and legible. (Please see page *19)*.
- Make sure the projection screen is between the required distance from the projector. (Please refer to pages *49~50*).

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 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

- Turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size. (Please see page *19)*.
- 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.

Image is reversed

- Select "Display → Projection Orientation" 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.

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 6 m (19.7 ft) of the projector.
- Make sure batteries are inserted correctly.
- Replace batteries if they are exhausted.

ADDITIONAL INFORMATION

Warning indicators

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

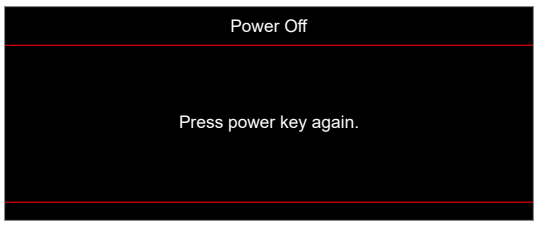
- "Lamp" LED indicator is lit red and if "Power" indicator flashes red.
- "Temp" LED indicator is lit red and if "Power" indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- "Temp" LED indicator flashes red and if "Power" 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.

LED lightning messages

Message	Power LED		Temp LED	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 on). Back to red steady light when cooling fan turns off.		
Error (Lamp failure)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over temp.)	Flashing		Steady light	

- Power off:



- Temperature warning:



ADDITIONAL INFORMATION

Specifications

Item	Description	
	WXGA Model	1080p Model
Native Resolution	1280x800	1920x1080
Maximum Resolution	• Graphic up to 1920x1200@60Hz RB • Maximum Resolution: - HDMI 1.4: 1920x1080@60Hz • Maximum Bandwidth: - HDMI 1.4: 165MHz	• Graphic up to 3840x2160@60Hz • Maximum Resolution: - HDMI 2.0: 3840x2160@60Hz • Maximum Bandwidth: - HDMI 2.0: 600MHz
Lens	• Throw ratio: 1.54~1.72 (tolerance ±3%) • F-stop: 2.41~2.53 • Focal length: 21.86~24 mm • Zoom range: 1.1x	• Throw ratio: 1.48~1.62 (tolerance ±3%) • F-stop: 2.5~2.67 • Focal length: 21.86~24 mm • Zoom range: 1.1x
Offset	112%±5%	116%±5%
Image size	30”~100”, Optimized @60”	30”~150”, Optimized @60”
Projection distance	• 1m to infinity (mechanism travel) • 1m to 10m (full optical performance range)	• 1m to infinity (mechanism travel) • 1m to 5m (full optical performance range)
I/Os	• HDMI 1.4 x2 • VGA In x1 • USB Type-A x1 • RS232 x1 • DC Jack x1 • Audio In x1 • Audio Out x1	• HDMI 2.0 x2 • USB Type-A x1 • RS232 x1 • DC Jack x1 • Audio Out x1
Colour	1073.4 Million color	
Scan rate	• Horizontal scan rate: 15~102 KHz • Vertical scan rate: 24~120 Hz	• Horizontal scan rate: 15~140 KHz • Vertical scan rate: 24~120 Hz
Speaker	• 3W x1 • Output power: 2W (-10%/+5%)	
Power consumption	• Typical (ECO mode): - 73W ±15%; 249.1BTU/hr ±15% @110V - 71W ±15%; 242.3BTU/hr ±15% @220V • Typical (Bright mode): - 105W ±15%; 358.3BTU/hr ±15% @110V - 103W ±15%; 351.5BTU/hr ±15% @220V	
Input current	8A	
Installation orientations	Front, Rear, Ceiling, Rear-top, 360-degree projection, Portrait mode	
Dimensions (W x D x H)	• 274 x 216 x 108.5 mm (without feet) • 274 x 216 x 114 mm (with feet)	
Weight	2.9±0.2 kg	
Environmental	Operating in 0~40°C (tolerance ±2°C, without condensation)	

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

ADDITIONAL INFORMATION

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