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myprojectorlamps

PROJECTOR OWNER'S MANUAL

Optoma

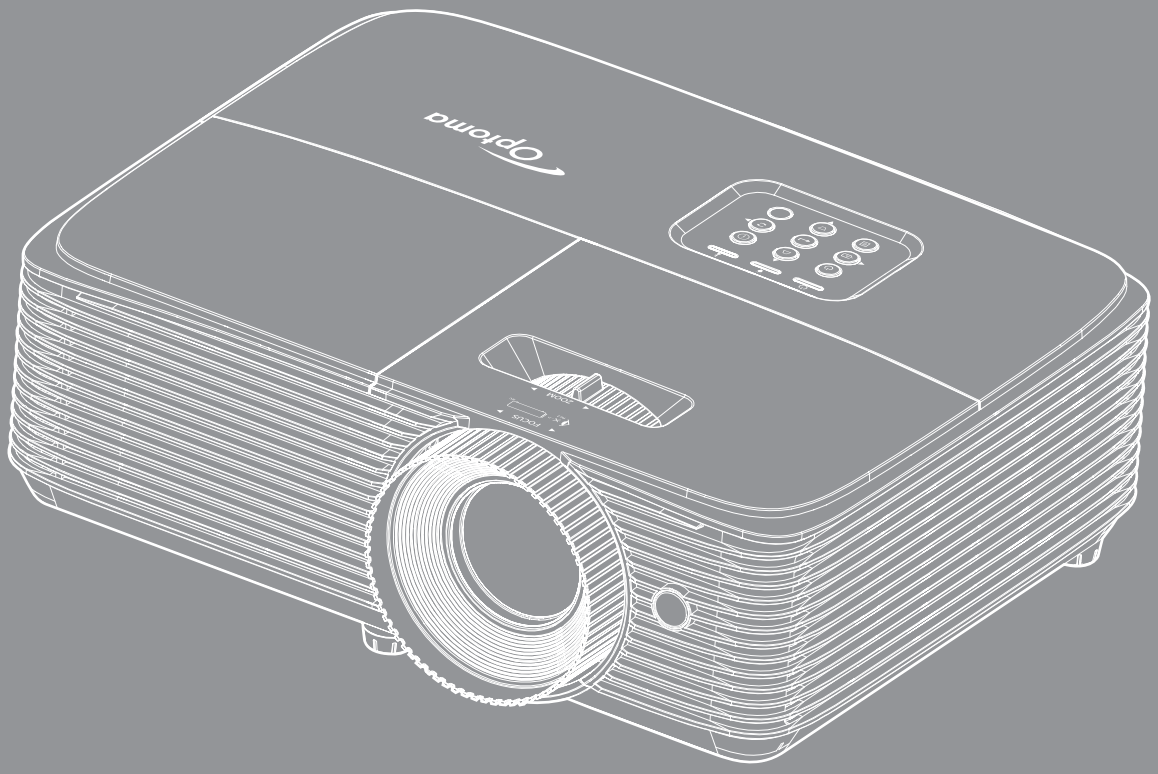
DH351

Need a replacement lamp for this projector?

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DLP® Projector



User manual

Full 3D 1080p

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

DLP TEXAS INSTRUMENTS

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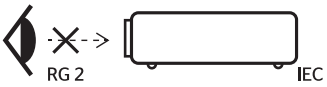
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SAFETY

	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 stare into the beam, RG2.
  As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- 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 projector in places where flammable gases or explosives gases may be present in the atmosphere. The lamp inside the projector becomes very hot during operation and the gases may ignite and result in a fire.
- 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 could 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 appropriate service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look into straight into the projector lens during operation. The bright light may harm your eyes.
- When replacing the lamp, please allow the unit to cool down.
- This projector 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 on-screen display "Setup lamp settings" menu after replacing the lamp module.
- 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.
- When the lamp is approaching to the end of its life time, the message "Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- 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.

Note: *When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced.*

- 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.

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).

3D Safety Information

Please follow all warnings and precautions as recommended before you or your child use the 3D function.

Warning

Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised when viewing these images.

Photosensitive Seizure Warning and Other Health Risks

- Some viewers may experience an epileptic seizure or stroke when exposed to certain flashing images or lights contained in certain Projector pictures or video games. If you suffer from, or have a family history of epilepsy or strokes, please consult with a medical specialist before using the 3D function.
- Even those without a personal or family history of epilepsy or stroke may have an undiagnosed condition that can cause photosensitive epileptic seizures.
- Pregnant women, the elderly, sufferers of serious medical conditions, those who are sleep deprived or under the influence of alcohol should avoid utilizing the unit's 3D functionality.
- If you experience any of the following symptoms, stop viewing 3D pictures immediately and consult a medical specialist: (1) altered vision; (2) light-headedness; (3) dizziness; (4) involuntary movements such as eye or muscle twitching; (5) confusion; (6) nausea; (7) loss of awareness; (8) convulsions; (9) cramps; and/ or (10) disorientation. Children and teenagers may be more likely than adults to experience these symptoms. Parents should monitor their children and ask whether they are experiencing these symptoms.
- Watching 3D projection may also cause motion sickness, perceptual after effects, disorientation, eye strain and decreased postural stability. It is recommended that users take frequent breaks to lessen the potential of these effects. If your eyes show signs of fatigue or dryness or if you have any of the above symptoms, immediately discontinue use of this device and do not resume using it for at least thirty minutes after the symptoms have subsided.
- Watching 3D projection while sitting too close to the screen for an extended period of time may damage your eyesight. The ideal viewing distance should be at least three times the screen height. It is recommended that the viewer's eyes are level with the screen.
- Watching 3D projection while wearing 3D glasses for an extended period of time may cause a headache or fatigue. If you experience a headache, fatigue or dizziness, stop viewing the 3D projection and rest.
- Do not use the 3D glasses for any other purpose than for watching 3D projection.
- Wearing the 3D glasses for any other purpose (as general spectacles, sunglasses, protective goggles, etc.) may be physically harmful to you and may weaken your eyesight.
- Viewing in 3D projection may cause disorientation for some viewers. Accordingly, DO NOT place your 3D PROJECTOR near open stairwells, cables, balconies, or other objects that can be tripped over, run into, knocked down, broken or fallen over.

Copyright

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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.

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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.

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.

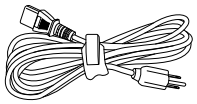
Standard accessories



Projector



Remote control



Power lead

☑ Warranty Card *

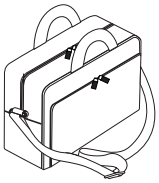
☑ Quick Start User Manual

Documentation

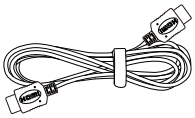
Note:

- *The remote control is shipped with the battery.*
- ** For European warranty information please visit www.optomaeurope.com.*

Optional accessories



Carry bag



HDMI cable

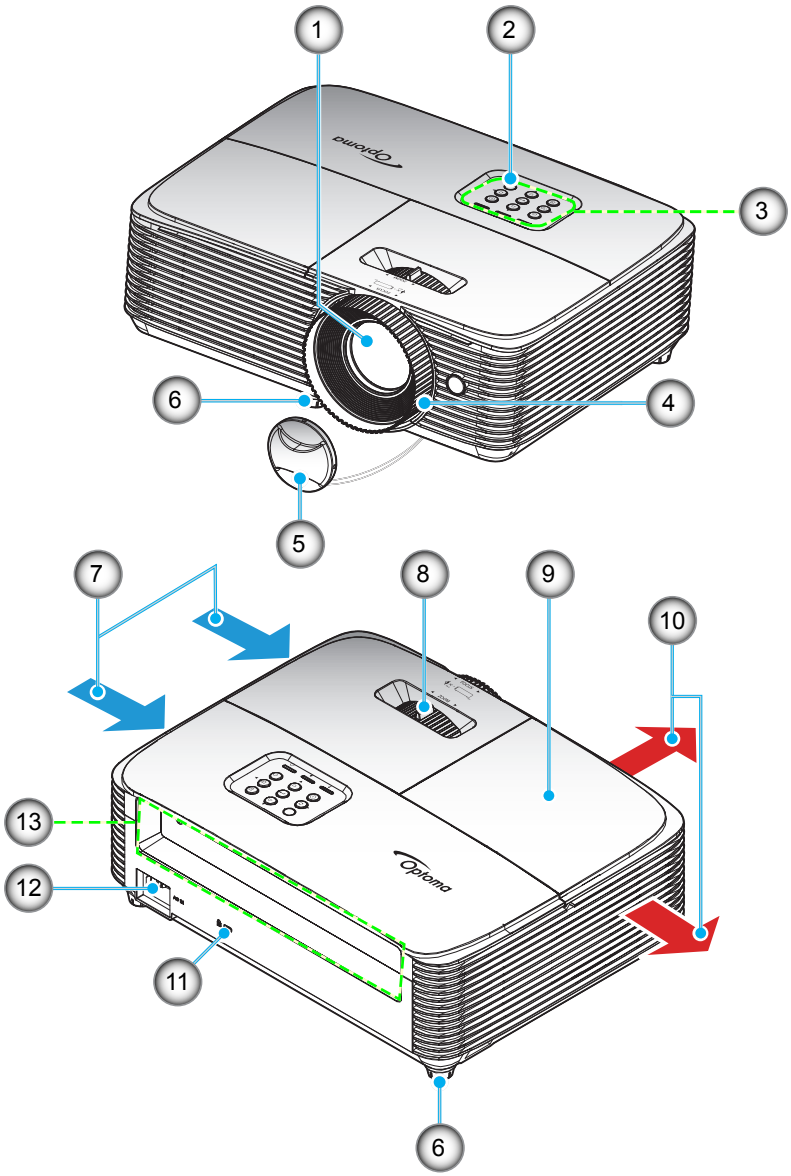


Lens cap

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

INTRODUCTION

Product Overview

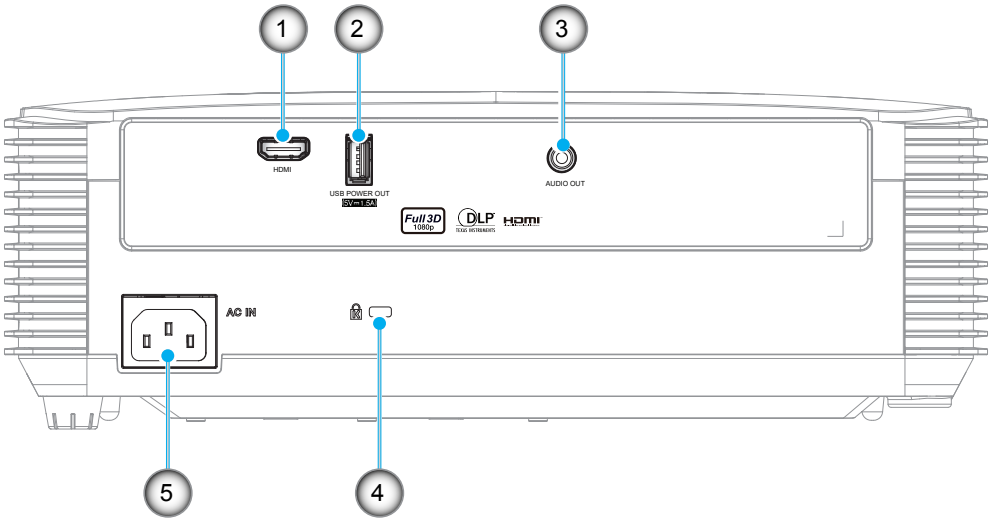


Note: *Keep a minimum distance of 20 cm between the "inlet" and "outlet" labels.*

No	Item	No	Item
1.	Lens	8.	Zoom Lever
2.	IR Receiver	9.	Lamp Cover
3.	Keypad	10.	Ventilation (outlet)
4.	Focus Ring	11.	Kensington™ Lock Port
5.	Lens Cap	12.	Power Socket
6.	Tilt-Adjustment Feet	13.	Input / Output
7.	Ventilation (inlet)		

INTRODUCTION

Connections



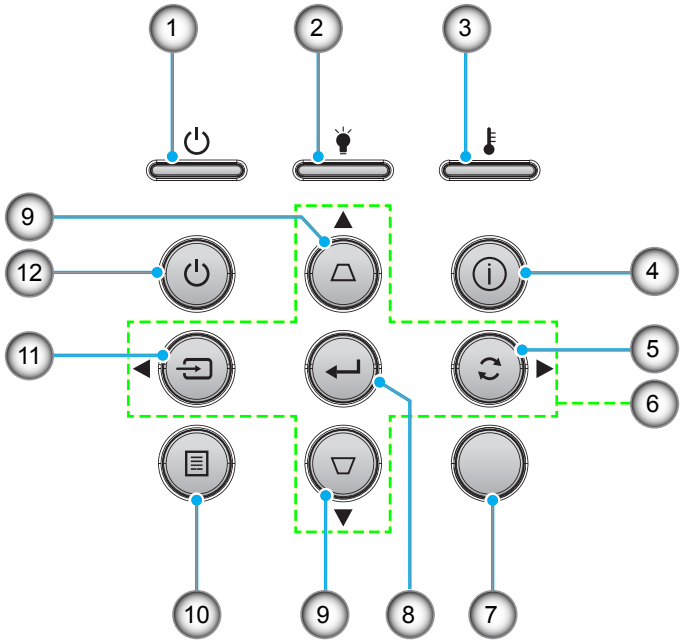
No	Item	No	Item
1.	HDMI Connector	4.	Kensington™ Lock Port
2.	USB POWER OUT (5V⎓1.5A) / Service / Mouse Connector	5.	Power Socket
3.	AUDIO OUT Connector		

Note:

- *Remote mouse requires special remote control.*
- *To ensure the best image quality and avoid connection errors, we recommend the use of High Speed or Premium Certified HDMI cables up to 5 meters.*

INTRODUCTION

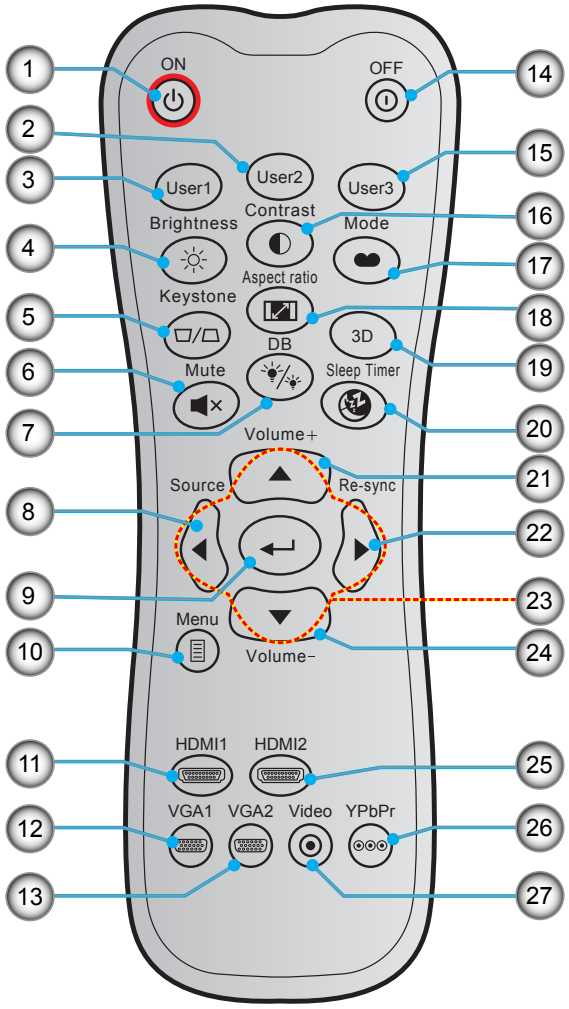
Keypad



No	Item	No	Item
1.	On/Standby 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 1



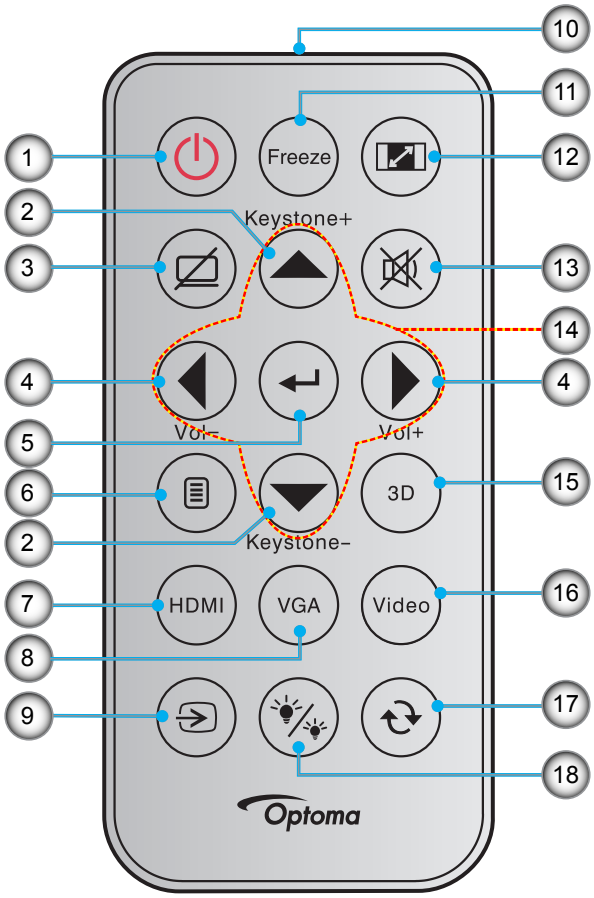
No	Item	No	Item
1.	Power On	15.	User 3
2.	User 2	16.	Contrast
3.	User 1	17.	Display Mode
4.	Brightness	18.	Aspect Ratio
5.	Keystone	19.	3D Menu On / Off
6.	Mute	20.	Sleep Timer
7.	DB (Dynamic Black)	21.	Volume +
8.	Source	22.	Re-Sync
9.	Enter	23.	Four Directional Select Keys
10.	Menu	24.	Volume -
11.	HDMI1	25.	HDMI2 (not supported)
12.	VGA1 (not supported)	26.	YPbPr (not supported)
13.	VGA2 (not supported)	27.	Video (not supported)
14.	Power Off		

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.*

INTRODUCTION

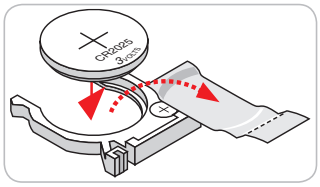
Remote control 2



No	Item	No	Item
1.	Power On / Off	10.	IR LED Indicator
2.	Keystone + / -	11.	Freeze
3.	AV Mute	12.	Aspect Ratio
4.	Volume - / +	13.	Mute
5.	Enter	14.	Four Directional Select Keys
6.	Menu	15.	3D
7.	HDMI	16.	Video (not supported)
8.	VGA (not supported)	17.	Resync
9.	Source	18.	Brightness Mode

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.*
- *Before using the remote control for the first time, remove the transparent insulation tape. See page 20 for battery installation.*

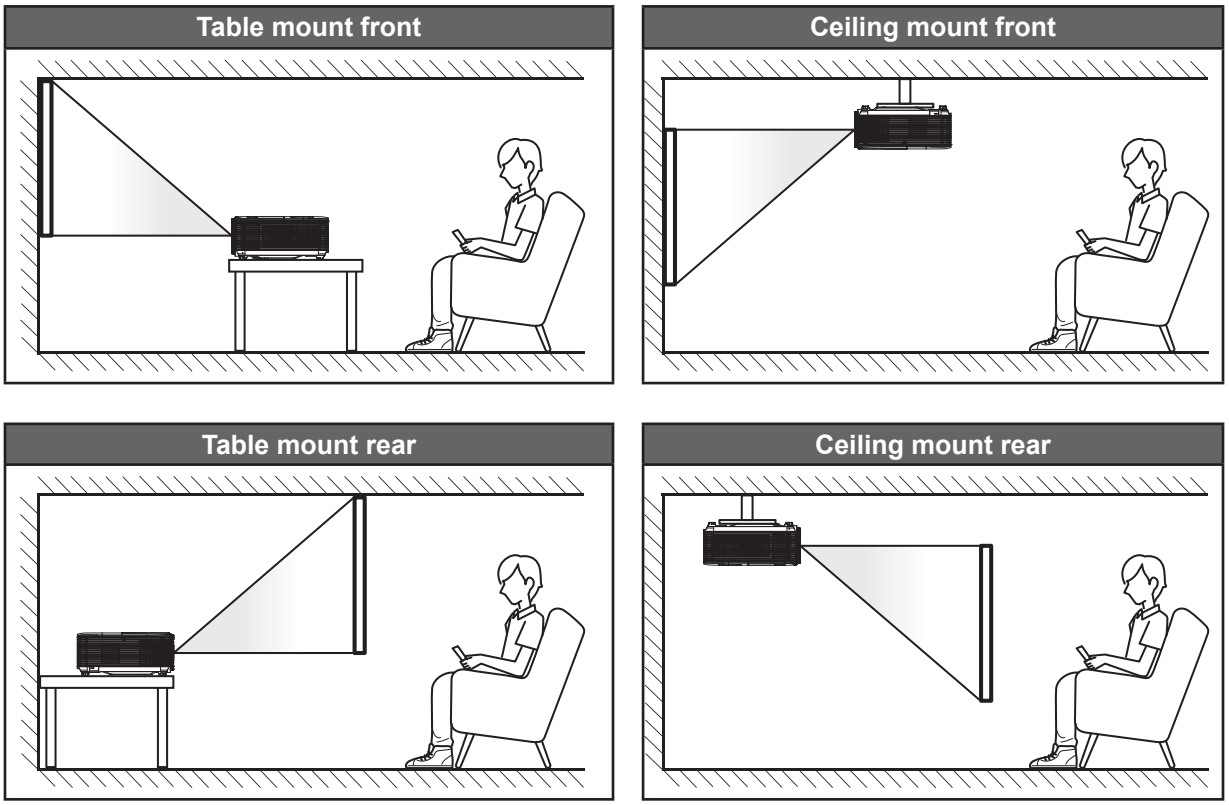


SETUP AND INSTALLATION

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 page *44*.
- How to determine screen size for a given distance, please refer to distance table on page *44*.

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. For none standard installation advise please contact Optoma.

SETUP AND INSTALLATION

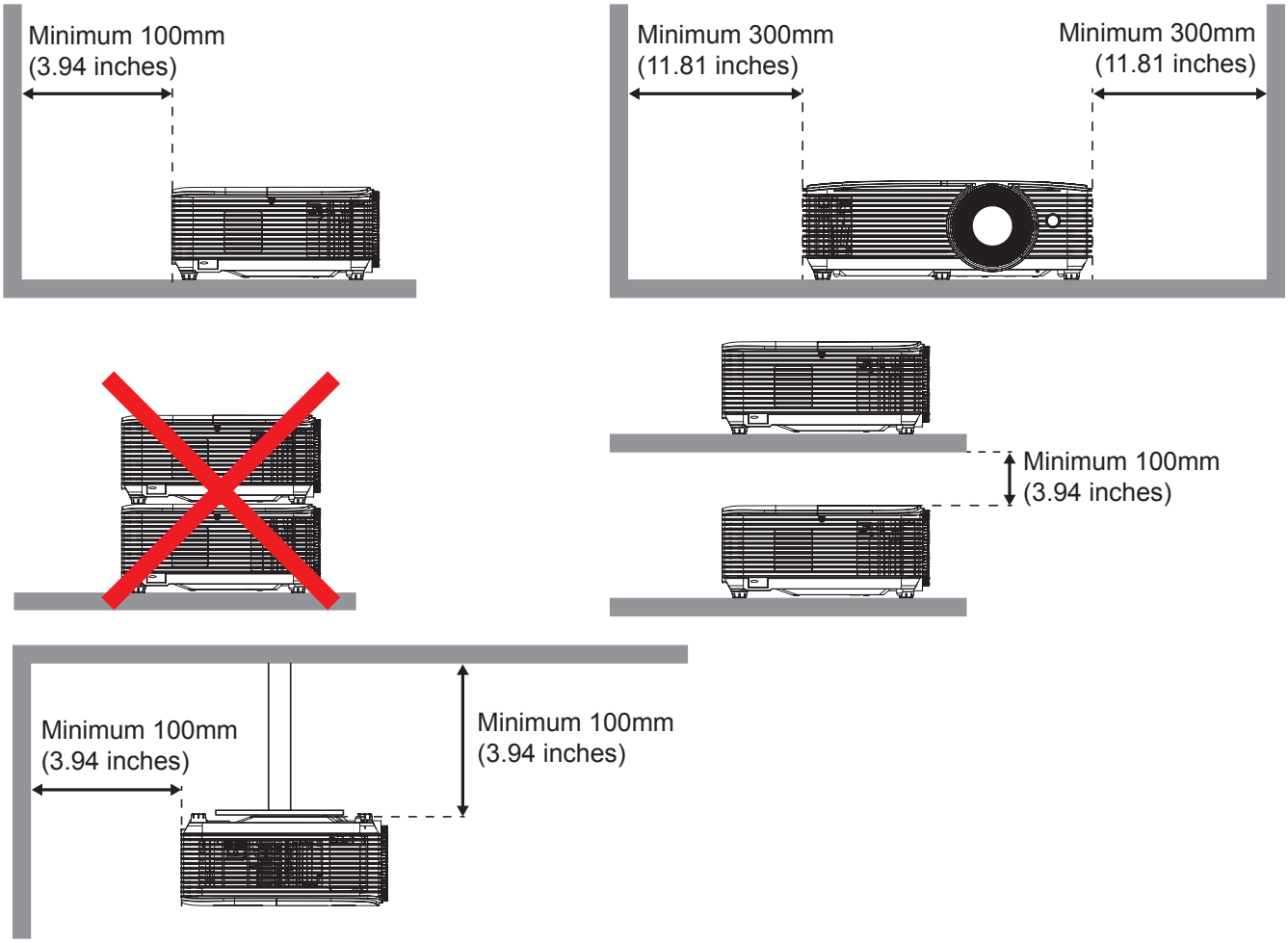
Projector installation notice

- Place the projector in a horizontal position.

  The tilt angle of the projector should not exceed 15 degrees, nor should the projector be installed in any way other than the desktop and ceiling mount, otherwise lamp life could decrease dramatically, and may lead to other **unpredictable damages**.



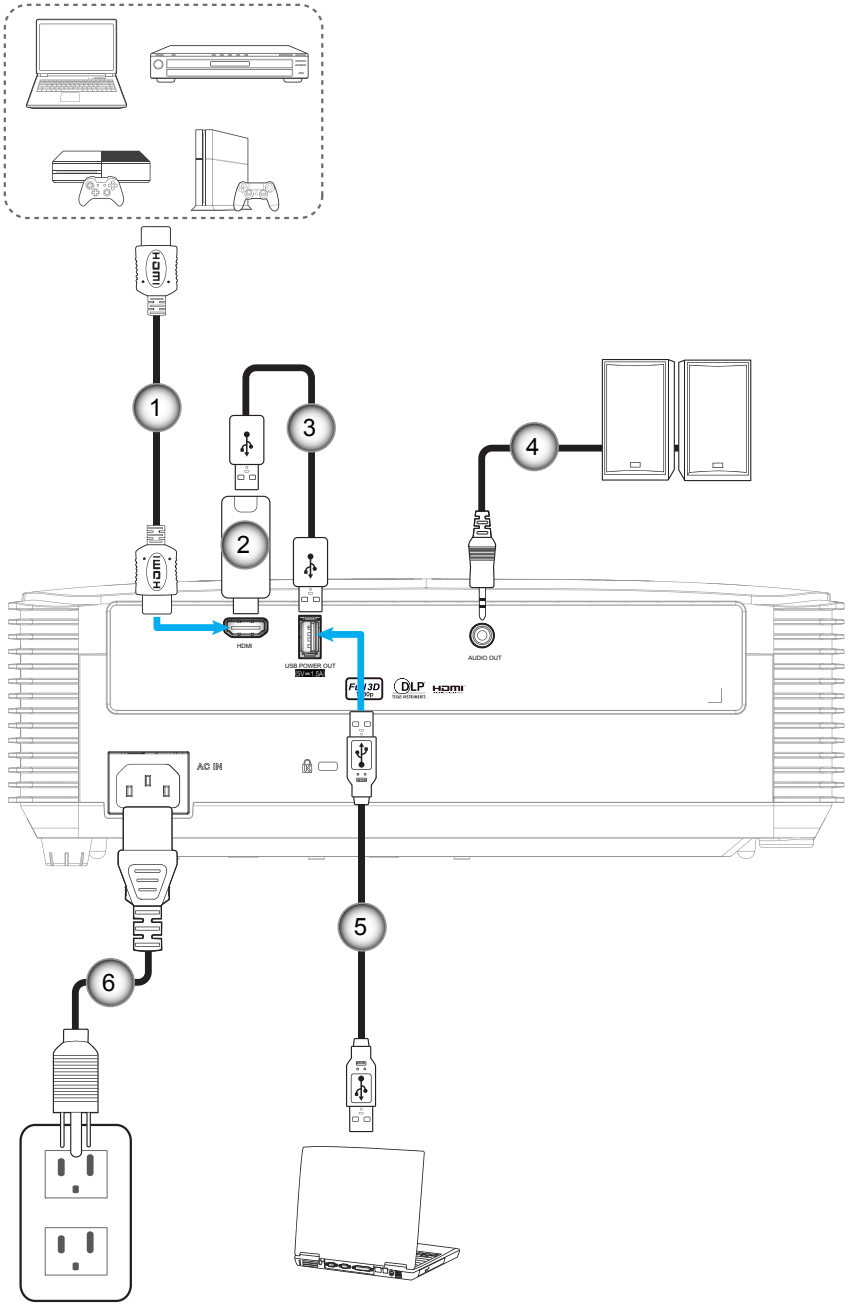
- Allow at least 30 cm clearance around the exhaust vent.



- 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	4.	Audio Out Cable
2.	HDMI Dongle	5.	USB Cable
3.	USB Power Cable	6.	Power Cord

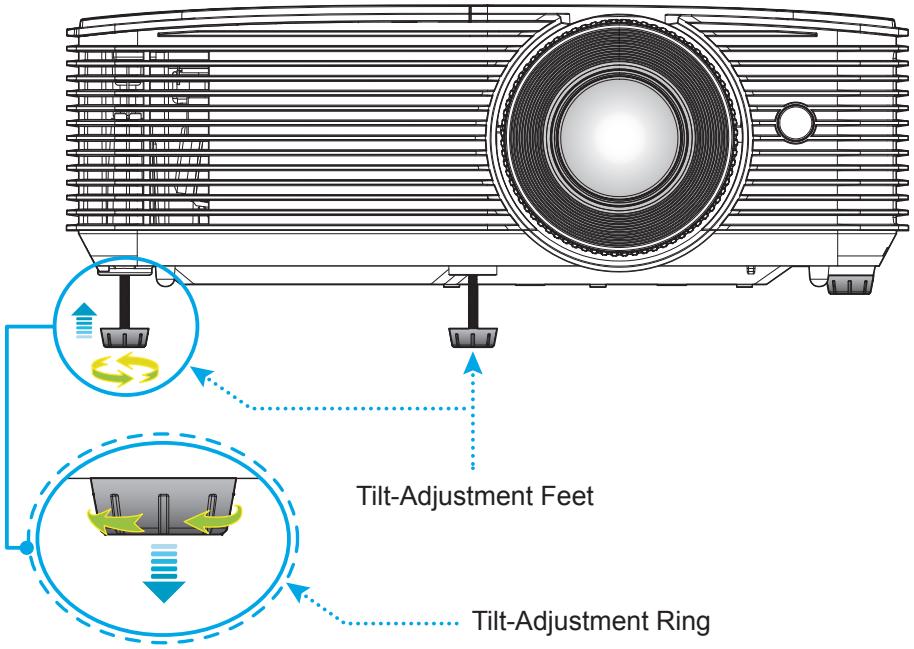
SETUP AND INSTALLATION

Adjusting the projector image

Image height

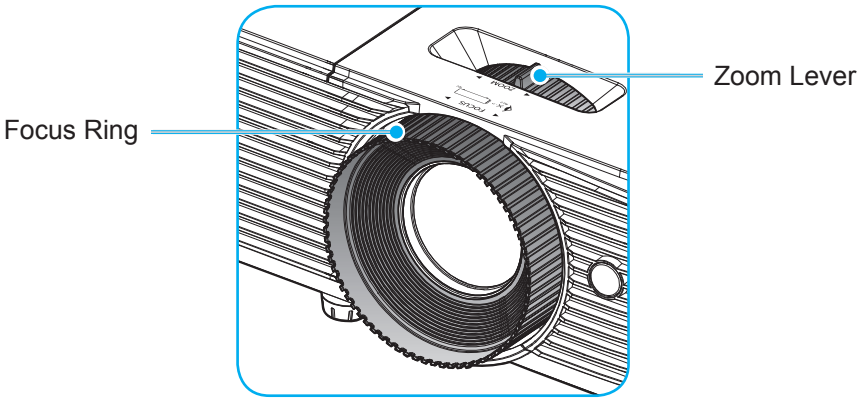
The projector is equipped with elevator feet for adjusting the image height.

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.



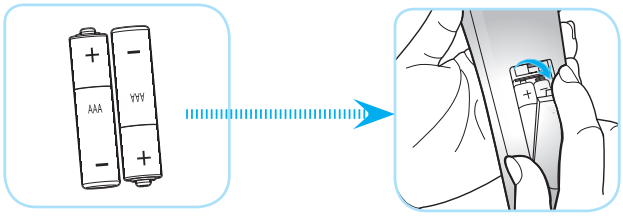
Note: *The projector will focus at a distance of 1m to 9.8m.*

SETUP AND INSTALLATION

Installing / replacing the batteries (for remote control 1)

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

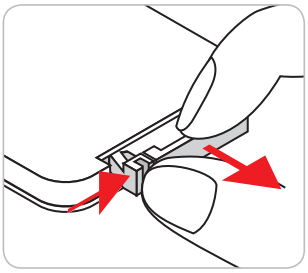
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- 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 the 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.

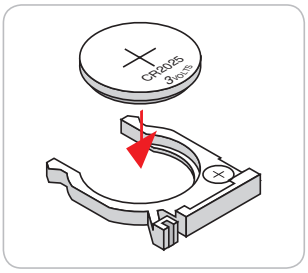
SETUP AND INSTALLATION

Installing / replacing the battery (for remote control 2)

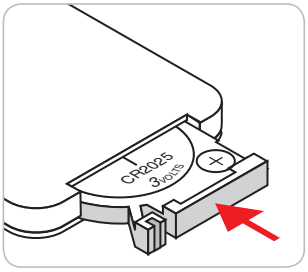
1. Press firmly and slide the battery cover off.



2. Install new battery into the compartment. Remove the old battery and install new one (CR2025). Ensure that the side with a “+” is facing up.



3. Put the cover back.



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

- Use CR2025 type battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used battery according to the instructions.

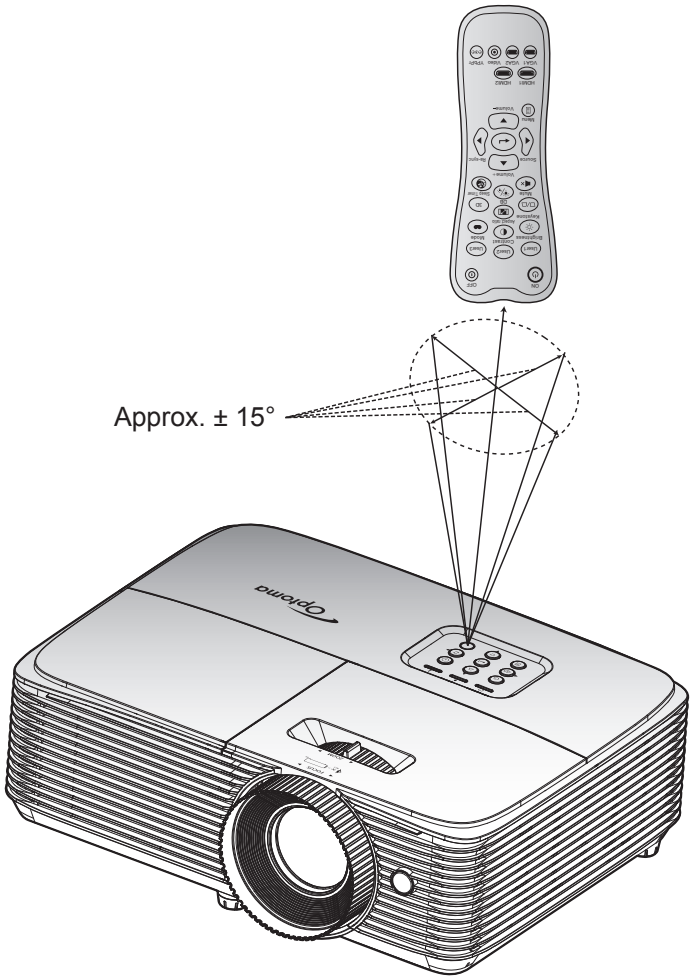
SETUP AND INSTALLATION

Effective range

Infra-Red (IR) remote control sensor is located on top of the projector. Ensure to hold the remote control at an angle within 30 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 6 meters (~ 20 feet).

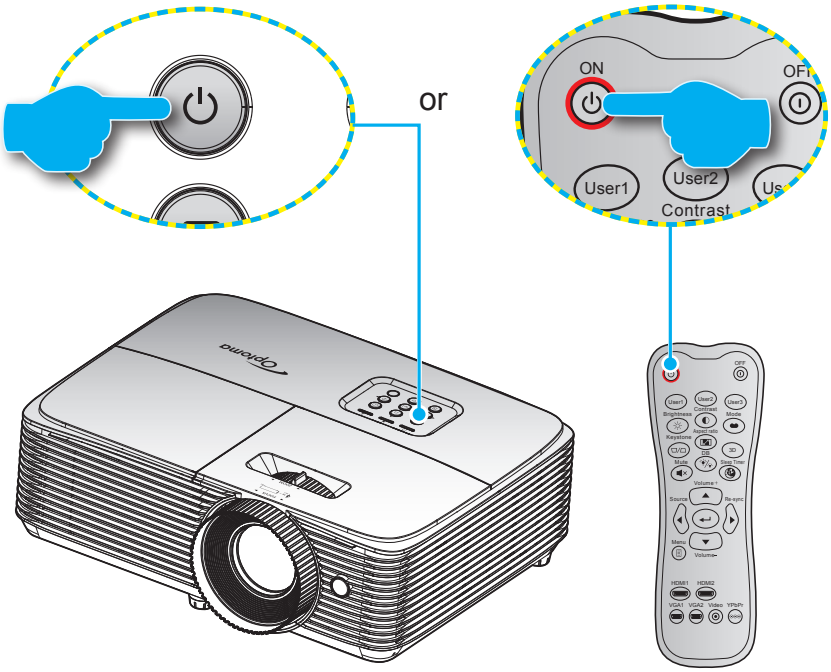
Note: *When pointing the remote control directly (0 degrees angle) on the IR sensor, the distance between the remote control and the sensor should not be longer than 8 meters (~ 26 feet).*

- 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 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, the remote control might become ineffective.
- When you aim at the screen, the effective distance is less than 6 meters 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.



USING THE PROJECTOR

Powering on / off the projector



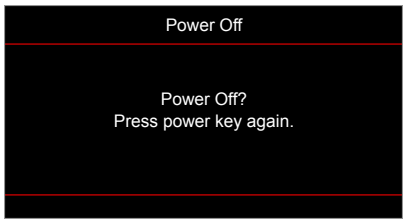
Powering on

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 and then steady blue.

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

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:



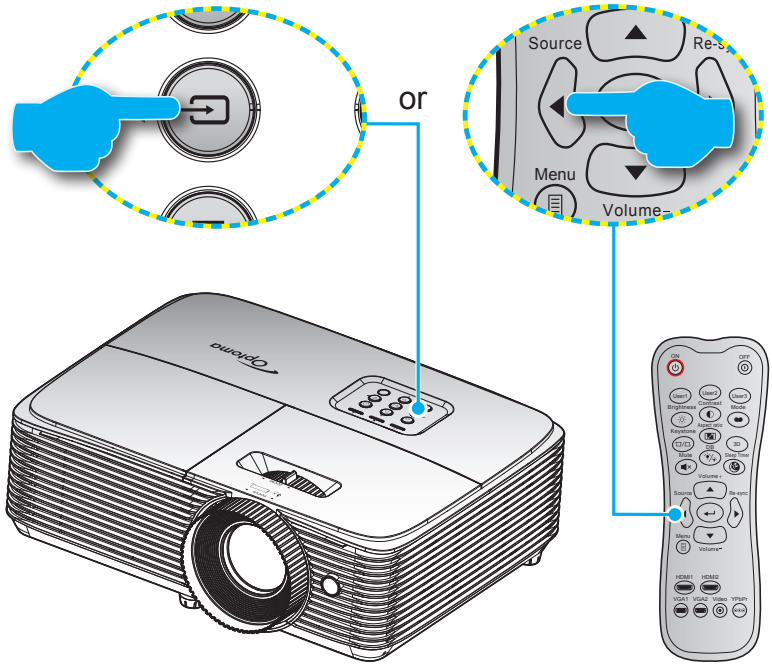
3. Press the "⏻" again to confirm, otherwise the message will disappear after 10 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/Standby LED will flash blue. When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

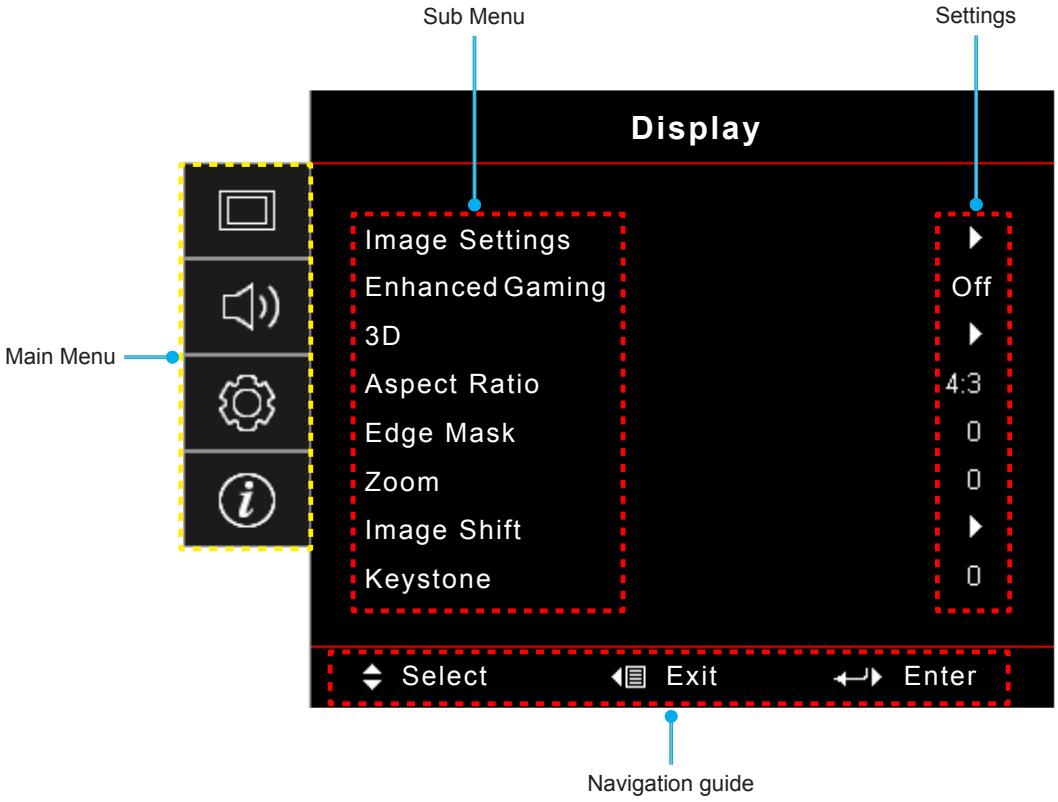


USING THE PROJECTOR

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 ☰ on the remote control or the projector keyboard.
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.



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			Cinema
					Vivid
					Game
					Reference
					Bright
					User
					3D
					ISF Day (*valid while ISF Mode is On or Unlock*)
					ISF Night (*valid while ISF Mode is On or Unlock*)
					ISF 3D (*valid while ISF Mode is On or Unlock*)
		Wall Color			Off [Default]
					Blackboard
					Light Yellow
					Light Green
					Light Blue
					Pink
					Gray
		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		Warm
					Standard
					Cool
					Cold

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Color Settings	Color Matching	Color	R [Default]
					G
					B
					C
					Y
					M
					W
				Hue / R	-50~50
				Saturation / G	-50~50
				Gain / B	-50~50
				Reset	Cancel [Default]
					Yes
				Exit	
			RGB Gain/Bias	Red Gain	-50~50
				Green Gain	-50~50
				Blue Gain	-50~50
				Red Bias	-50~50
				Green Bias	-50~50
				Blue Bias	-50~50
				Reset	Cancel [Default]
					Yes
				Exit	
			Color Space [HDMI Input]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
					YUV
		Dynamic Black			Off
					On
		Brightness Mode			Bright
					Eco.
		Reset			
	Enhanced Gaming				Off [Default]
					On
	3D	3D Mode			Off [Default]
					On
		3D Tech.			DLP-Link [Default]
					3D Sync
		3D->2D			3D [Default]
					L
					R

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	3D	3D Format			Auto [Default]
					SBS
					Top and Bottom
					Frame Sequential
		3D Sync Invert			On
					Off [Default]
		Reset			Cancel [Default]
					Yes
	Aspect Ratio				4:3
					16:9
					LBX
					Native
					Auto
	Edge Mask				0~10 [Default: 0]
	Zoom				-5~25 [Default: 0]
	Image shift	H			-50~50 [Default: 0]
		V			-50~50 [Default: 0]
	Keystone				-40~40 [Default: 0]
Audio	Mute				Off [Default]
					On
	Volume				0-10 [Default: 5]
Setup	Projection				Front [Default]
					Rear
					Ceiling-top
					Rear-top
	Lamp Settings	Lamp Reminder			Off
					On [Default]
		Lamp Reset			Cancel [Default]
					Yes
	Filter Settings	Optional Filter Installed			Yes
					No
		Filter Usage Hours			(Read only)
		Filter Reminder			Off
					300hr
					500hr [Default]
					800hr
					1000hr

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Filter Settings	Filter Reset			Cancel [Default]
					Yes
	Power Settings	Direct Power On			Off [Default]
					On
		Signal Power On			Off [Default]
					On
		Auto Power Off (min)			0~180 (5 min increments) [Default: 20]
		Sleep Timer (min)			0~990 (30 min increments) [Default: 0]
			Always On		No [Default]
					Yes
		Quick Resume			Off [Default]
					On
		USB Power			Off
					On
					Auto [Default]
	Security	Security			Off
					On
		Security Timer		Month	
				Day	
				Hour	
		Change Password			
	HDMI Link Settings	HDMI Link			Off
					On
		Inclusive of TV			No
					Yes
		Power On Link			Mutual
					PJ --> Device
					Device --> PJ
		Power Off Link			Off
					On
	Test Pattern				Green Grid
					Magenta Grid
					White Grid
					White
					Off
	Remote Settings [depends on remote]	IR Function			On
					Off
		User1			Test Pattern
					Brightness
					Contrast
					Sleep Timer [Default]

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Remote Settings [depends on remote]	User1			Color Matching
					Color Temperature
					Gamma
					Projection
					Lamp Settings
					Zoom
					Freeze
		User2			Test Pattern
					Brightness
					Contrast
					Sleep Timer
					Color Matching [Default]
					Color Temperature
					Gamma
					Projection
					Lamp Settings
					Zoom
					Freeze
		User3			Test Pattern
					Brightness
					Contrast
					Sleep Timer
					Color Matching
					Color Temperature [Default]
					Gamma
					Projection
					Lamp Settings
					Zoom
					Freeze
	Options	Language			English [Default]
					Deutsch
					Français
					Italiano
					Español
					Português
					Polski
					Nederlands
					Svenska
					Norsk/Dansk
					Suomi
					ελληνικά
					繁體中文
					简体中文

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Language			日本語
					한국어
					Русский
					Magyar
					Čeština
					عـربي
					ไทย
					Türkçe
					فارســی
					Tiếng Việt
					Bahasa Indonesia
					Română
					Slovenčina
		Menu Settings	Menu Location		Top left 
					Top right 
					Center  [Default]
					Bottom left 
					Bottom right 
			Menu Timer		Off
					5sec
					10sec [Default]
		Input Name	HDMI		Default [Default]
					Custom
		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
					Logo

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Reset	Reset OSD			Cancel [Default]
					Yes
		Reset to Default			Cancel [Default]
					Yes
Info	Regulatory				
	Serial Number				
	Resolution				xxxx
	Refresh Rate				xxHz
	Display Mode				
	Lamp Hours	Bright			0 hr
		Eco.			0 hr
		Dynamic			0 hr
		Total			
	Filter Hours				
	Brightness Mode				
	FW Version	System			
		MCU			

Note: *Functions vary depending on model definition.*

USING THE PROJECTOR

Display menu

Display image settings menu

Display Mode

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

- **Cinema**: Provides the best colors for watching movies.
- **Vivid**: In this mode, the color saturation and brightness are well-balanced. Choose this mode for playing games.
- **Game**: Select this mode to increase the brightness and response time level for enjoying video games.
- **Reference**: Provides the most accurate natural looking colors close to Rec. 709, the standard for High Definition TV(HDTV).
- **Bright**: Maximum brightness from PC input.
- **User**: Memorize user's settings.
- **3D**: To experience the 3D effect, you need to have 3D glasses. Make sure your PC/portable device has a 120 Hz signal output quad buffered graphics card and a 3D Player installed.
- **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.

Note: *For access and calibration of ISF daytime and night viewing modes, please contact your local dealer.*

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.

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.
- **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**: Select a color temperature from Warm, Standard, Cool, or Cold.
- **Color Matching**: Select the following options:
  - Color: Adjust the red (R), green (G), black (B), cyan (C), yellow (Y), magenta (M), and white (W) level of the image.
  - Hue / R(red)*: Adjust the color balance of red and green.
    Note: **If the **Color** setting is set to white (**W**), you can adjust the red color setting.*
  - Saturation / G(green)*: Adjust a video image from black and white to fully saturated color.
    Note: **If the **Color** setting is set to white (**W**), you can adjust the green color setting.*
  - Gain / B(blue)*: Adjust the image brightness.
    Note: **If the **Color** setting is set to white (**W**), you can adjust the blue color setting.*
  - Reset: Return the factory default settings for color matching.
  - Exit: Exit the “Color Matching” 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 (HDMI input)**: select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.

Dynamic Black

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

Brightness Mode

Adjust the brightness mode settings for lamp-based projectors.

- **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.

Reset

Return the factory default settings for color settings.

USING THE PROJECTOR

Display enhanced gaming menu

Enhanced Gaming

Enable this feature to reduce response times (input latency) during gaming to 16ms.

Note: *This function only works for 1080P@60Hz signals.*

Display 3D menu

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 → 2D

Use this option to specify how the 3D content should appear on the screen.

- **3D:** Display 3D signal.
- **L (Left):** Display the left frame of 3D content.
- **R (Right):** Display the right frame of 3D content.

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.

- **Cancel**: Select to cancel Reset.
- **Yes**: Select to return the factory default settings for 3D.

USING THE PROJECTOR

Display aspect ratio menu

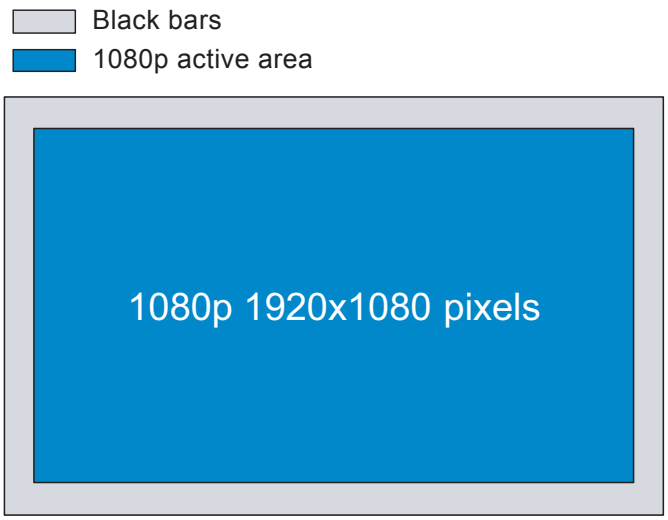
Aspect Ratio

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.
- **Native**: This format displays the original image without any scaling.
- **Auto**: Automatically selects the appropriate display format.

Note:

- *It is considered normal that black bars appear around the image with a resolution of 1080p in each aspect mode.*
- *The black bars and border will change in size depending on the aspect ratio.*



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) Align the projector image correctly on the screen.*

USING THE PROJECTOR

1080P scaling table:

16:9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1440x1080.				
16x9	Scale to 1920x1080.				
LBX	Scale to 1920x1440, then get the central 1920x1080 image to display.				
Native mode	-1:1 mapping centered. -No scaling will be made; the image is displayed with the resolution based on input source.				

Display edge mask menu

Edge Mask

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

Display zoom menu

Zoom

Use to 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).

Display keystone menu

Keystone

Adjust the image distortion caused by tilting the projector.

USING THE PROJECTOR

Audio menu

Audio mute menu

Mute

Use this option to temporarily turn off the sound.

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

Note:

- *“Mute” function affects both internal and external speaker volume.*
- *When an external speaker is connected, the internal speaker is automatically muted.*

Audio volume menu

Volume

Adjust the audio volume level.

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

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 Usage Hours

Display the filter time.

Filter Reminder

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

Filter Reset

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

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.*

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.

Quick Resume

Set the quick resume setting.

- **On:** If the projector is accidentally turned off, this feature allows the projector to be instantly powered on again, if selected within a period of 100 seconds.
- **Off:** The fan will start cooling the system after 10 seconds when user turns off the projector.

USB Power

Set the USB power settings.

- **On:** The projector is always powered on by a USB power source.
- **Off:** The USB Power function is off.
- **Auto:** The projector is automatically powered on by a USB power source.

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

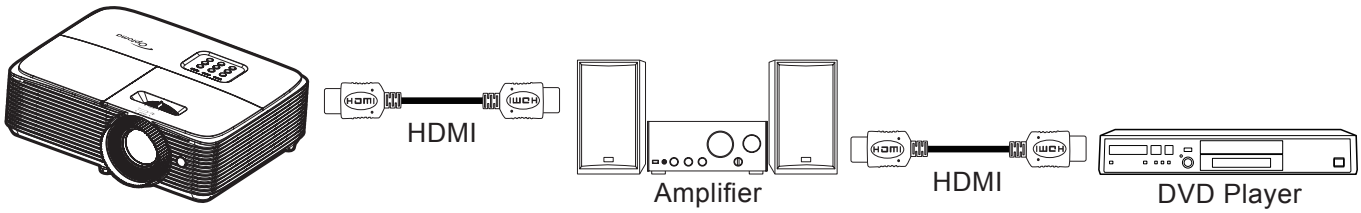
Can be select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.

Change Password

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

Setup HDMI link 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. The inclusive TV, power on link, and power off link options will only available if the setting is set to “On”.

Inclusive of TV

Set to “Yes” if you prefer both TV and projector to be automatically turned off at the same time. To prevent both devices to be turned off at the same time, set the setting to “No”.

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.

USING THE PROJECTOR

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 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.

User1/ User2/ User3

Assign the default function for User1, User2, or User3 between Test Pattern, Brightness, Contrast, Sleep Timer, Color Matching, Color Temperature, Gamma, Projection, Lamp Settings, Zoom, and Freeze.

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, Thai, Turkish, Farsi, Vietnamese, Indonesian, Romanian, and Slovakian.

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.

Input Name

Use to rename the input function for easier identification.

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.

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 “Off” to show the “searching” message.
- **On:** Choose “On” to hide the info 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, 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 Setup menu settings.

Info menu

Info menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Resolution
- Refresh Rate
- Display Mode
- Lamp Hours
- Filter Hours
- Brightness Mode
- FW Version

MAINTENANCE

Replacing the lamp (Maintenance personnel only)

The projector automatically detects the lifespan of the light bulb and when the light bulb is at its end, a warning message will appear on the screen.



When this message appears, please contact your local dealer or service center to replace the light bulb as soon as possible. Before replacing the light bulb, make sure to turn off the projector, unplug the power cord, and make sure the projector has cooled off for at least 30 minutes and the light bulb has completely cooled off.



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.

ADDITIONAL INFORMATION

Compatible resolutions

Digital compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	Native timing:	640 x 480p @ 60Hz 4:3	720 x 480p @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz	1080P: 1920 x 1080 @ 60Hz	720(1440) x 480i @ 60Hz 16:9	1280 x 720p @ 60Hz
640 x 480 @ 67Hz	1280 x1024 @ 60Hz		720 x 480p @ 60Hz 16:9	1366 x 768 @ 60Hz
640 x 480 @ 72Hz	1400 x 1050 @ 60Hz		720(1440) x 576i @ 50Hz 16:9	1920 x 1080i @ 50Hz
640 x 480 @ 75Hz	1600 x 1200 @ 60Hz		720 x 576p @ 50Hz 16:9	1920 x 1080p @ 60Hz
800 x 600 @ 56Hz	1440 x 900 @ 60Hz		1280 x 720p @ 50Hz 16:9	
800 x 600 @ 60Hz	1280 x 720 @ 120Hz		1280 x 720p @ 60Hz 16:9	
800 x 600 @ 72Hz	1024 x 768 @ 120Hz		1920 x 1080i @ 50Hz 16:9	
800 x 600 @ 75Hz			1920 x 1080i @ 60Hz 16:9	
832 x 624 @ 75Hz			1920 x 1080p @ 50Hz 16:9	
1024 x 768 @ 60Hz			1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 70Hz			1920 x 1080p @ 24Hz 16:9	
1024 x 768 @ 75Hz			1920 x 1080p @ 30Hz 16:9	
1280 x 1024 @ 75Hz				
1152 x 870 @ 75Hz				

True 3D video compatibility

<table>
<tr><td rowspan="18">Input resolution</td><td rowspan="9">HDMI 1.4a
3D Input</td><td colspan="3">Input timing</td></tr>
<tr><td>1280 x 720P @ 50Hz</td><td colspan="2">Top - and - Bottom</td></tr>
<tr><td>1280 x 720P @ 60Hz</td><td colspan="2">Top - and - Bottom</td></tr>
<tr><td>1280 x 720P @ 50Hz</td><td colspan="2">Frame packing</td></tr>
<tr><td>1280 x 720P @ 60Hz</td><td colspan="2">Frame packing</td></tr>
<tr><td>1920 x 1080i @ 50Hz</td><td colspan="2">Side- by-Side (Half)</td></tr>
<tr><td>1920 x 1080i @ 60Hz</td><td colspan="2">Side- by-Side (Half)</td></tr>
<tr><td>1920 x 1080P @ 24Hz</td><td colspan="2">Top - and- Bottom</td></tr>
<tr><td>1920 x 1080P @ 24Hz</td><td colspan="2">Frame packing</td></tr>
<tr><td rowspan="9">HDMI 1.3</td><td>1920 x 1080i @ 50Hz</td><td rowspan="4">Side-by-Side(Half)</td><td rowspan="4">SBS mode is on</td></tr>
<tr><td>1920 x 1080i @ 60Hz</td></tr>
<tr><td>1280 x 720P @ 50Hz</td></tr>
<tr><td>1280 x 720P @ 60Hz</td></tr>
<tr><td>1920 x 1080i @ 50Hz</td><td rowspan="4">Top-and-Bottom</td><td rowspan="4">TAB mode is on</td></tr>
<tr><td>1920 x 1080i @ 60Hz</td></tr>
<tr><td>1280 x 720P @ 50Hz</td></tr>
<tr><td>1280 x 720P @ 60Hz</td></tr>
<tr><td>480i 1024 x 768 @ 120Hz</td><td rowspan="2">HQFS</td><td rowspan="2">3D format is Frame sequential</td></tr>
<tr><td>1280 x 720 @ 120Hz</td></tr>
</table>

Note:

- *If 3D input is 1080p@24Hz, the DMD should replay with integral multiple with 3D mode.*
- *Support NVIDIA 3DTV Play if there is no patent fee from Optoma.*
- *1080i@25Hz and 720p@50Hz will run in 100Hz; 1080p@24Hz will run in 144Hz; other 3D timing will run in 120Hz.*

ADDITIONAL INFORMATION

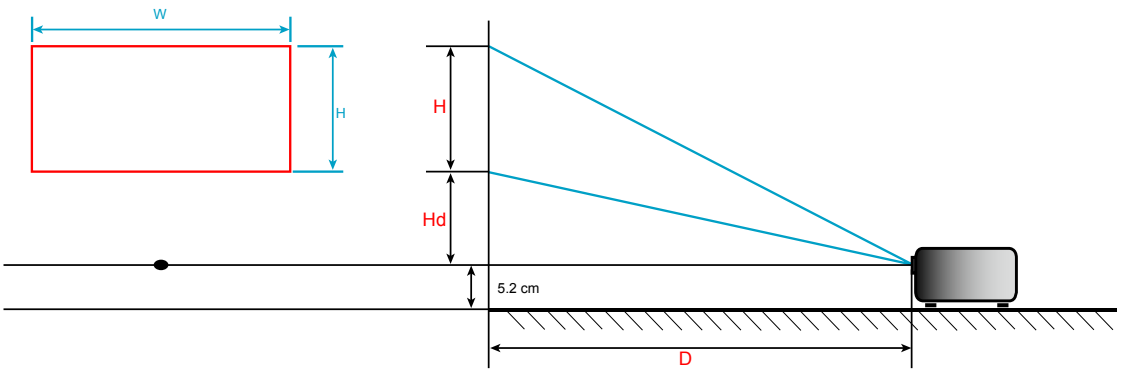
Image size and projection distance

Desired Distance (m)	Screen size (Min zoom)		Top	Screen size (Max zoom)		Top
	Diagonal (inch)	W (cm) x H (cm)	From base to top of image (cm)	Diagonal (inch)	W (cm) x H (cm	From base to top of image (cm)
1	27.88	62 x 35	40	31	68 x 38	44
2	56	123 x 69	81	61	136 x 77	89
2.5	70	154 x 87	101	77	170 x 96	111
3	84	185 x 104	121	92	204 x 115	133
3.5	98	216 x 122	141	108	238 x 134	155
4	112	247 x 139	161	123	272 x 153	178
5	139	309 x 174	201	154	340 x 191	222
6	167	370 x 208	242	184	408 x 230	266
7	195	432 x 243	282	215	476 x 268	311
8	223	494 x 278	322	246	544 x 306	355
9	251	556 x 313	363	277	612 x 344	399
9.8	273	605 x 340	395	301.14	667 x 375	435

Note: *Zoom ratio is 1.1x.*

Desired image size		Distance (m)		Top (cm)
Diagonal (inch)	W (cm) x H (cm)	Max zoom	Min zoom	From base to top of image
27.88	62 x 35	--	1.0	40
40	89 x 50	1.3	1.4	58
50	111 x 62	1.6	1.8	72
60	133 x 75	2.0	2.2	87
70	155 x 87	2.3	2.5	101
80	177 x 100	2.6	2.9	116
90	199 x 112	2.9	3.2	130
100	221 x 125	3.3	3.6	144
120	266 x 149	3.9	4.3	173
150	332 x 187	4.9	5.4	217
200	443 x 249	6.5	7.2	289
250	553 x 311	8.1	9.0	361
280	620 x 349	9.1	10.0	404
301	666 x 375	9.8	--	435

Note: *Zoom ratio is 1.1x.*

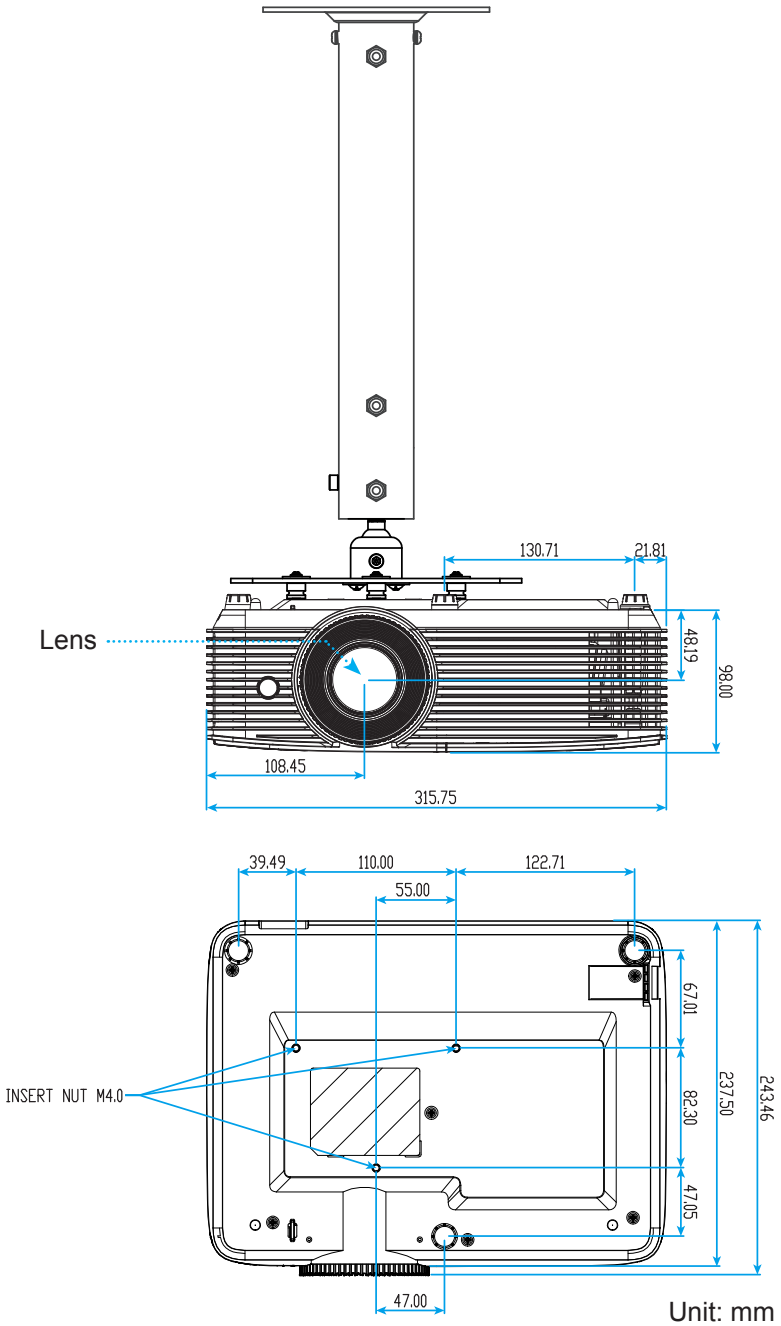


ADDITIONAL INFORMATION

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*3
- Minimum screw length: 10mm



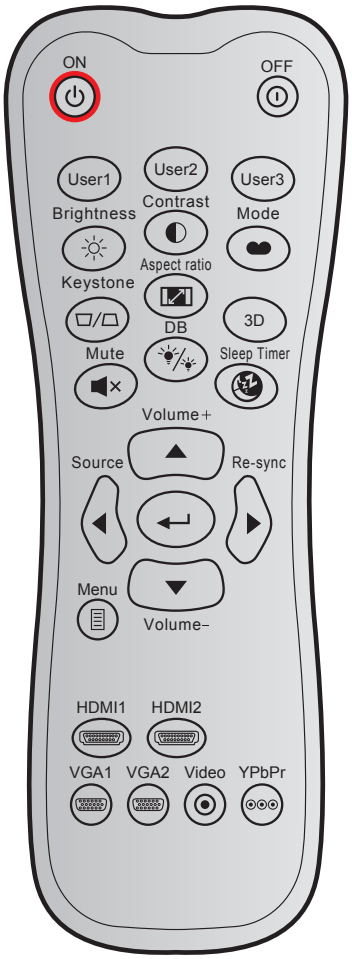
Note: *Please note that damage resulting from incorrect installation will void the warranty.*

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 1 codes



Key		Custom code		Data code	Printing-key definition	Description
		Byte 1	Byte 2	Byte 3		
Power on		32	CD	02	ON	Press to turn on the projector.
Power off		32	CD	2E	OFF	Press to turn off the projector.
User 1		32	CD	36	User1	User defined keys. Please see page *40* to setup.
User 2		32	CD	65	User2	
User 3		32	CD	66	User3	
Brightness		32	CD	41	Brightness	Adjust the brightness of the image.
Contrast		32	CD	42	Contrast	Control the degree of difference between the lightest and darkest parts of the picture.
Display mode		32	CD	05	Mode	Select a display mode for optimized settings for different applications. Please see page *32*.
Keystone		32	CD	07	Keystone	Adjust image distortion caused by tilting the projector.
Aspect ratio		32	CD	64	Aspect ratio	Press to change aspect ratio of a displayed image.

ADDITIONAL INFORMATION

Key		Custom code		Data code	Printing-key definition	Description
		Byte 1	Byte 2	Byte 3		
3D		32	CD	89	3D	Manually select a 3D mode that matches your 3D content.
Mute		32	CD	52	Mute	Mute audio.
DB		32	CD	44	Lamp Mode	Open Brightness Mode menu.
Sleep Timer		32	CD	63	Sleep Timer	Open Sleep Timer menu.
Volume +		32	CD	09	Volume +	Adjust to increase volume.
Four direction keys		32	CD	11	▲	Use ▲, ◄, ►, or ▼ to select items or make adjustments to your selection.
		32	CD	10	◄	
		32	CD	12	►	
		32	CD	14	▼	
Source		32	CD	18	Source	Press “Source” to select an input signal.
Enter key		32	CD	0F		Confirm your item selection.
Re-sync		32	CD	04	Re-sync	Automatically synchronizes the projector to the input source.
Volume -		32	CD	0C	Volume -	Adjust to decrease volume.
Menu		32	CD	0E	Menu	Display or exit the on-screen display menus for projector.
HDMI 1		32	CD	16	HDMI1	Press “HDMI1” to choose source from HDMI connector.
HDMI 2		32	CD	30	HDMI2	No function
VGA 1		32	CD	1B	VGA1	No function
VGA 2		32	CD	1E	VGA2	No function
Video		32	CD	1C	Video	No function
YPbPr		32	CD	17	YPbPr	No function

ADDITIONAL INFORMATION

IR remote control 2 codes



Key legend		Description	Key code
Power		Press to turn on / off the projector.	81
Freeze	Freeze	Press to freeze the projector image.	8B
Aspect		Press to change aspect ratio of a displayed image.	98
AV mute		Press to turn off/ on projector built-in speaker	8A
Keystone+/up	Keystone+	• Press to adjust image distortion caused by tilting the projector. • Press to navigate up.	C6
Mute		Press to momentarily turn off / on the audio.	92
Left/Vol-	Vol–	• Press to adjust to decrease the volume. • Press to navigate left.	C8
Enter		Confirm your item selection.	-C5 (for OSD) -CA (for emulation of USB mouse via USB)
Right/Vol+	Vol+	• Press to adjust to increase the volume. • Press to navigate right.	C9
Menu		Press to display or exit the on-screen display menus for projector.	88
Down/Keystone-	Keystone–	• Press to adjust image distortion caused by tilting the projector. • Press to navigate down.	C7
3D	3D	Press to manually select a 3D mode that matches your 3D content.	93
HDMI	HDMI	Press to choose HDMI source.	86
VGA	VGA	No function	8E

ADDITIONAL INFORMATION

Key legend		Description	Key code
Video		No function	CE
Source		Press to select an input signal.	C3
Brightness mode		Press to automatically adjust the picture brightness to give an optimum contrast performance.	87
ReSync		Automatically synchronize the projector to the input source.	C4

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 "Mute" feature is not turned on.

Image is out of focus

- Adjust the Focus Ring on the projector lens.
- Make sure the projection screen is between the required distance from the projector. (Please refer to page *44*).

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 Zoom Lever on the top of the projector.
- 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-->Keystone" from the OSD to make an adjustment.

Image is reversed

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

Blurry double image

- Press "3D" button and switch to "Auto" to avoid normal 2D image is blurry double image.

ADDITIONAL INFORMATION

Two images, side-by-side format

- Press "3D" button and switch to "SBS" for input signal is HDMI 1.3 2D 1080i side-by-side.

Image does not display in 3D

- Check if the battery of 3D glasses is drained.
- Check if the 3D glasses is turned on.
- When the input signal is HDMI 1.3 2D (1080i side-by-side half), press "3D" button and switch to "SBS".

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.

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 (20 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:

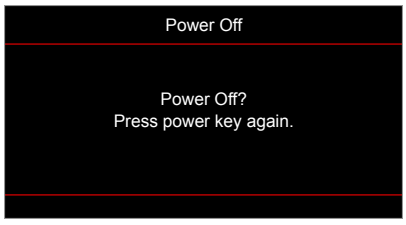
- "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes red.
- "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- "TEMP" LED indicator flashes red and if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

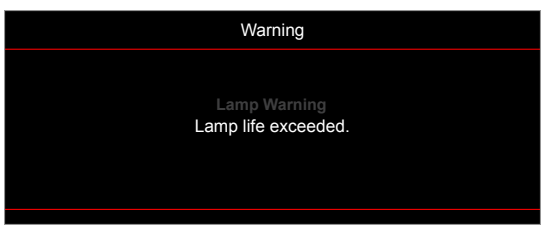
LED lightning messages

Message	On/Standby LED (Red)	On/Standby LED (Blue)	Temp LED (Red)	Lamp LED (Red)
Standby state (Input power cord)	Steady light			
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Power on & 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.		
Quick Resume (100 secs)		Flashing (0.25 sec off / 0.25 sec on)		
Error (Lamp fail)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over Temp)	Flashing		Steady light	

- Power off:

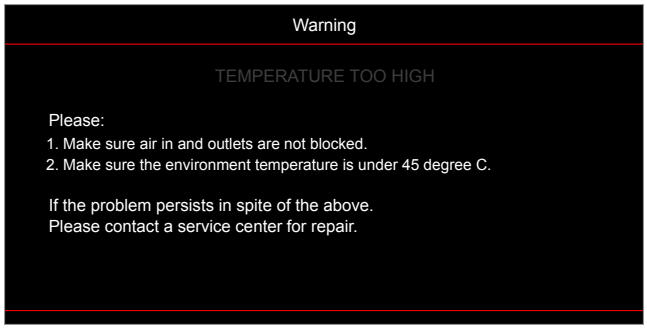


- Lamp warning:

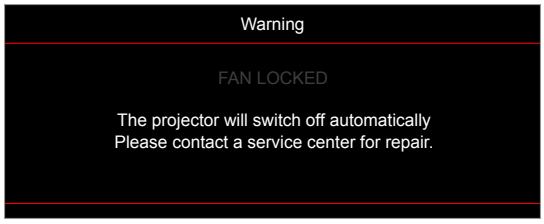


ADDITIONAL INFORMATION

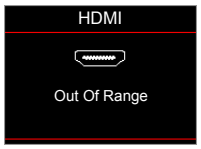
- Temperature warning:



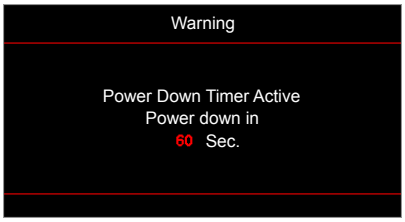
- Fan failed:



- Out of display range:



- Power down warning:



- Security timer alarm:



ADDITIONAL INFORMATION

Specifications

Optical	Description
Native resolution	1080p
Lens	Manual zoom and manual focus
Image size (diagonal)	28”~301” (optimized@60”)
Projection distance	1m to 9.8m (optimized@1.95m)

Electrical	Description
Inputs	HDMI 1.4a
Color reproduction	1073.4 Million color
Scan rate	- Horizontal scan rate: 15.375~91.146 KHz - Vertical scan rate: 24 ~ 85 Hz (120Hz for 3D feature projector)
Built-in speaker	Yes, 3W
Power requirement	100 - 240V AC 50/60Hz
Input current	2.9A

Mechanical	Description
Installation orientation	Front, Rear, Ceiling - Top, Rear - Top
Dimensions	- 316 mm (W) x 243.5 mm (D) x 106 mm (H) (without feet) - 316 mm (W) x 243.5 mm (D) x 108.5 mm (H) (with feet)
Weight	2.8 ±0.5kg
Environmental conditions	Operating in 5 ~ 40°C , 10% to 85% humidity (non-condensing)

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

ADDITIONAL INFORMATION

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