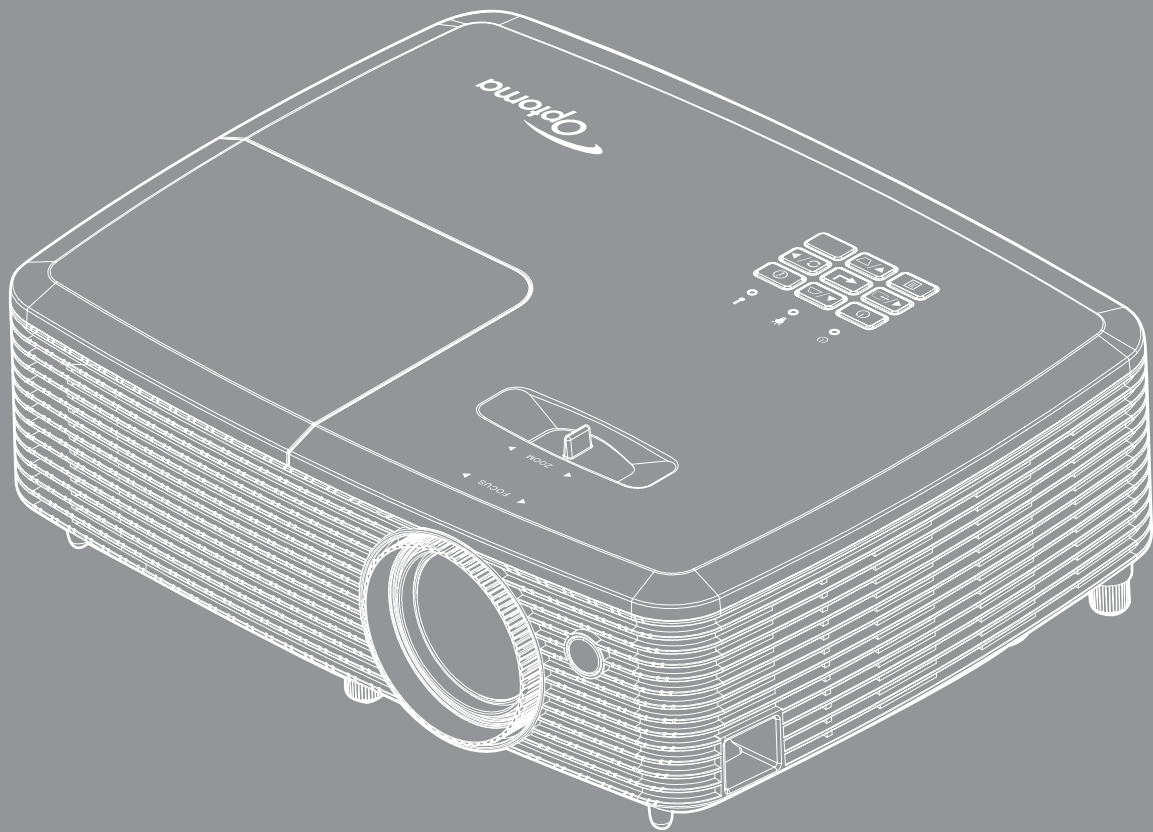




## DLP® Projector



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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 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 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 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. Follow instructions as described on pages 43-44.
- 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 "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. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 43-44.*

- *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.*

## 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.

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MHL, Mobile High-Definition Link and the MHL Logo are trademarks or registered trademarks of MHL Licensing, LLC.

## 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 numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (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.

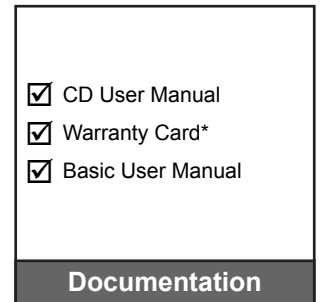
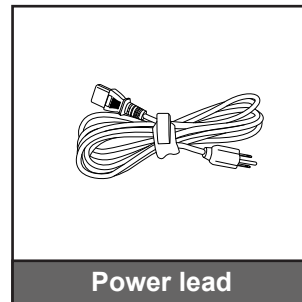
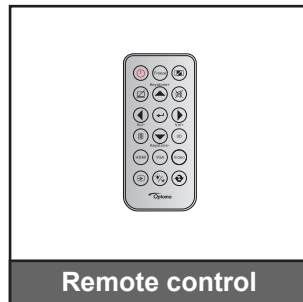
# INTRODUCTION

## 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.

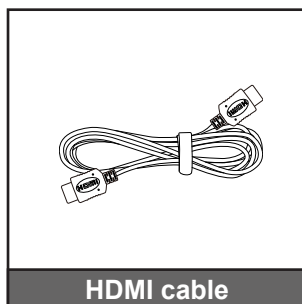
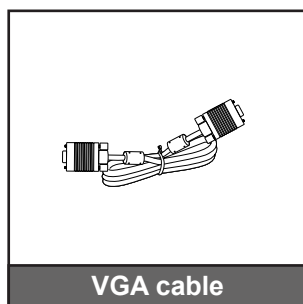
## Standard accessories



### Note:

- The remote control is shipped with the battery.
- \* For European warranty information please visit [www.optomaeurope.com](http://www.optomaeurope.com).

## Optional accessories

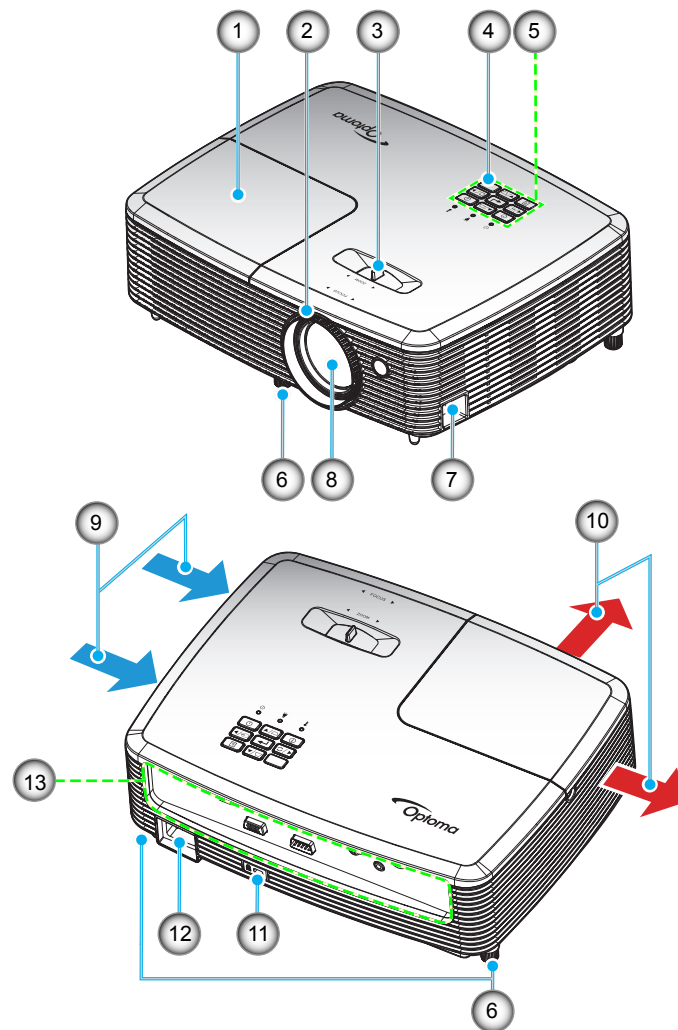


**Note:** Optional accessories vary depending on model, specification and region.



# INTRODUCTION

## Product Overview



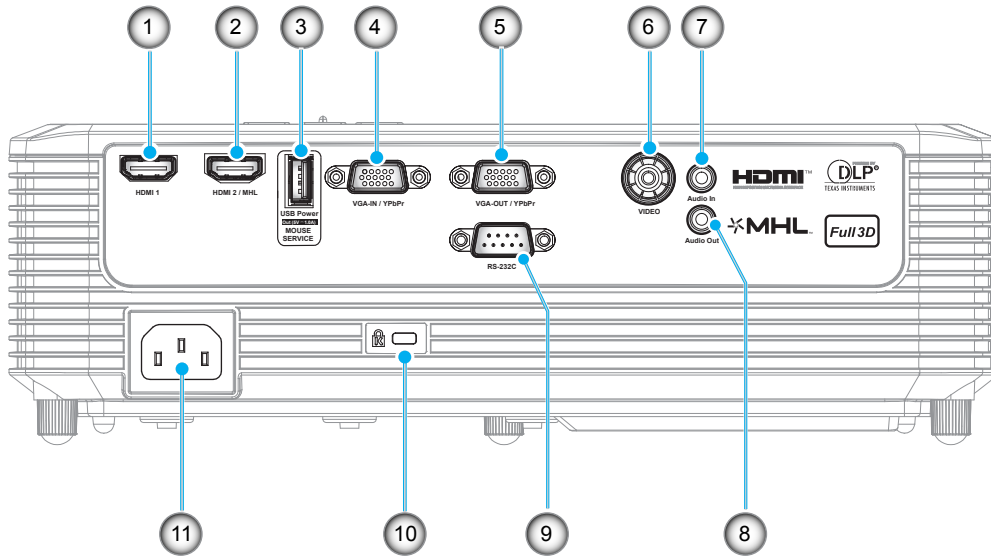
**Note:** Do not block projector inlet or outlet air vents.

(\*) optional accessory varies depending on model, specification, and region.

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

# INTRODUCTION

## Connections



No	Item	Regulatory Name					
		Type 1 SVGA	Type 2 SVGA	Type 3 SVGA & Type 4 XGA	Type 5 WXGA	Type 6 WXGA	Type 7 1080p
1.	HDMI 1 Connector	N/A	✓	✓	✓	✓	✓
2.	HDMI 2 / MHL Connector	N/A	✓	N/A	N/A	✓	N/A
3.	USB Power Out (5V/1A) Connector / MOUSE / SERVICE Connector	✓*	✓	✓	✓*	✓	✓*
4.	VGA-IN / YPbPr Connector	✓	N/A	✓	✓	✓	✓
5.	VGA-OUT / YPbPr Connector	N/A	N/A	✓	N/A	✓	N/A
6.	VIDEO Connector	✓	N/A	✓	✓	✓	✓
7.	Audio In Connector	N/A	N/A	✓	✓	✓	✓
8.	Audio Out Connector	N/A	✓	✓	✓	✓	✓
9.	RS-232C Connector	N/A	N/A	✓	✓	✓	✓
10.	Kensington™ Lock Port	✓	✓	✓	✓	✓	✓
11.	Power Socket	✓	✓	✓	✓	✓	✓

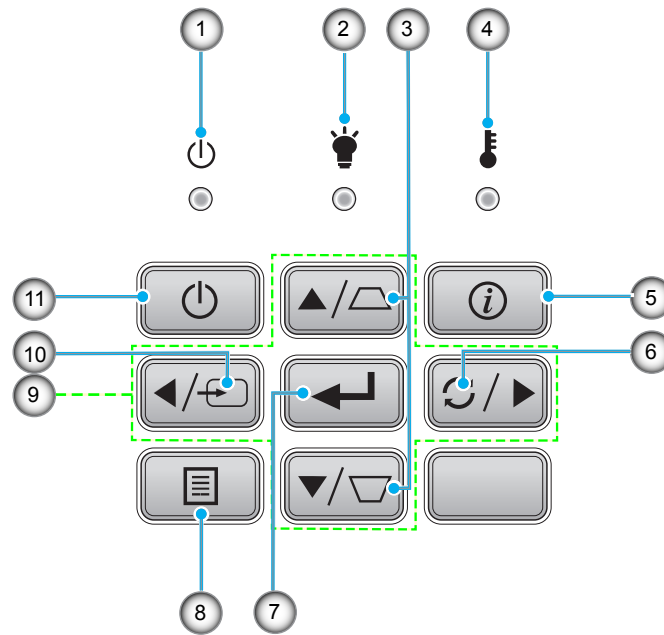
**Note:** “✓” means the item is supported, “N/A” means the item is not available.

### Note:

- Remote mouse requires special remote control.
- \*This model supports mouse / service capability.

# INTRODUCTION

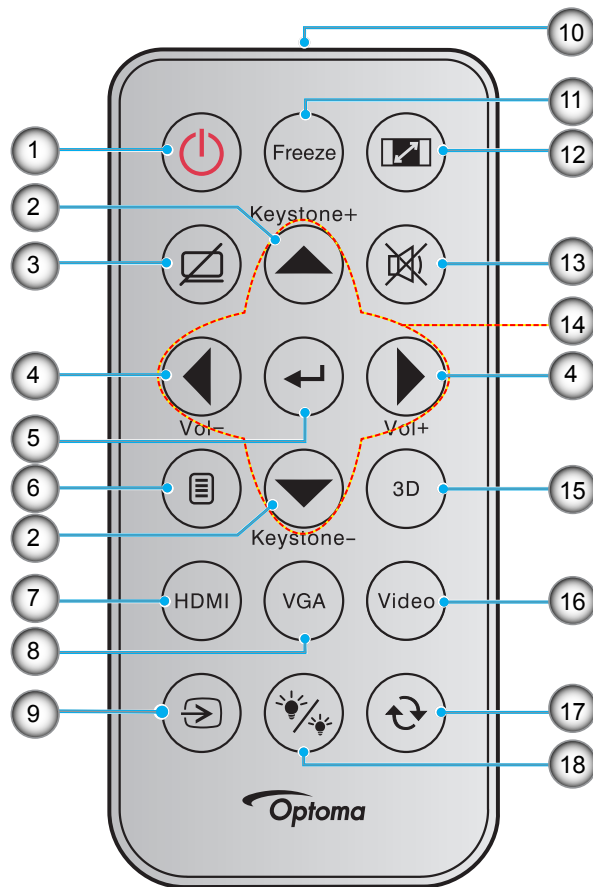
## Keypad



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

# INTRODUCTION

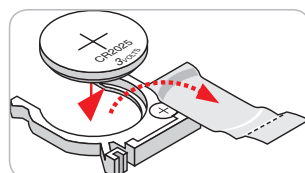
## Remote control



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
8.	VGA	17.	Resync
9.	Source	18.	Lamp Mode

### Note:

- 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 17 for battery installation.

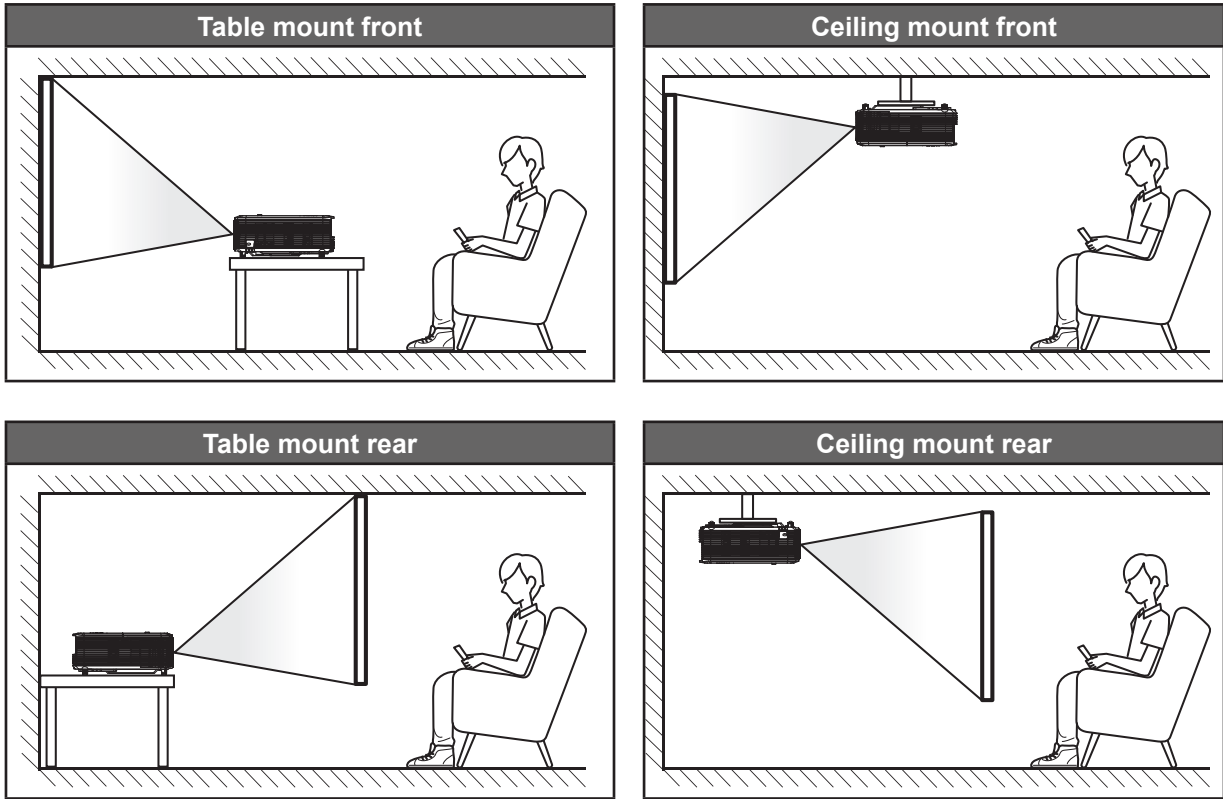


# SETUP AND INSTALLATION

## 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 48.
- How to determine screen size for a given distance, please refer to distance table on page 48.

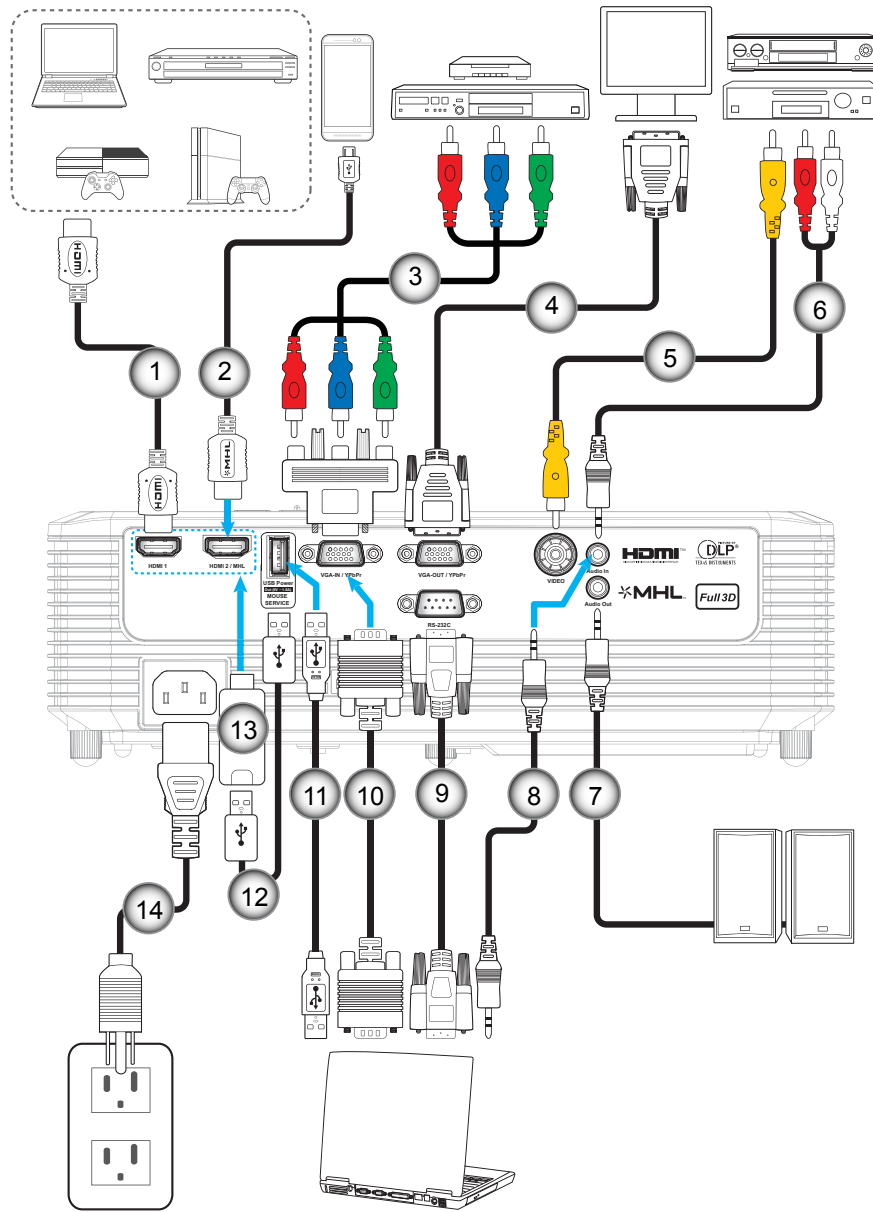
**Note:** The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.

### IMPORTANT!

*Do not operate the projector in any orientation other than 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 non standard installation advise please contact Optoma.*

# SETUP AND INSTALLATION

## Connecting sources to the projector



No	Item	Regulatory Name					
		Type 1 SVGA	Type 2 SVGA	Type 3 SVGA & Type 4 XGA	Type 5 WXGA	Type 6 WXGA	Type 7 1080p
1.	HDMI Cable	N/A	✓	✓	✓	✓	✓
2.	HDMI / MHL Cable	N/A	✓	N/A	N/A	✓	N/A
3.	RCA Component Cable	✓	N/A	✓	✓	✓	✓
4.	VGA Out Cable	N/A	N/A	✓	N/A	✓	N/A
5.	Video cable	✓	N/A	✓	✓	✓	✓
6.	Audio In Cable	N/A	N/A	✓	✓	✓	✓
7.	Audio Out Cable	N/A	✓	✓	✓	✓	✓

# SETUP AND INSTALLATION

No	Item	Regulatory Name					
		Type 1 SVGA	Type 2 SVGA	Type 3 SVGA & Type 4 XGA	Type 5 WXGA	Type 6 WXGA	Type 7 1080p
8.	Audio In Cable	N/A	N/A	✓	✓	✓	✓
9.	RS232 Cable	N/A	N/A	✓	✓	✓	✓
10.	VGA In Cable	✓	N/A	✓	✓	✓	✓
11.	USB Cable (mouse control)	✓	✓	✓	✓	✓	✓
12.	USB Power Cable	N/A	✓	✓	N/A	✓	N/A
13.	HDMI Stick	N/A	✓	✓	N/A	✓	N/A
14.	Power Cord	✓	✓	✓	✓	✓	✓

**Note:** “✓” means the item is supported, “N/A” means the item is not available.

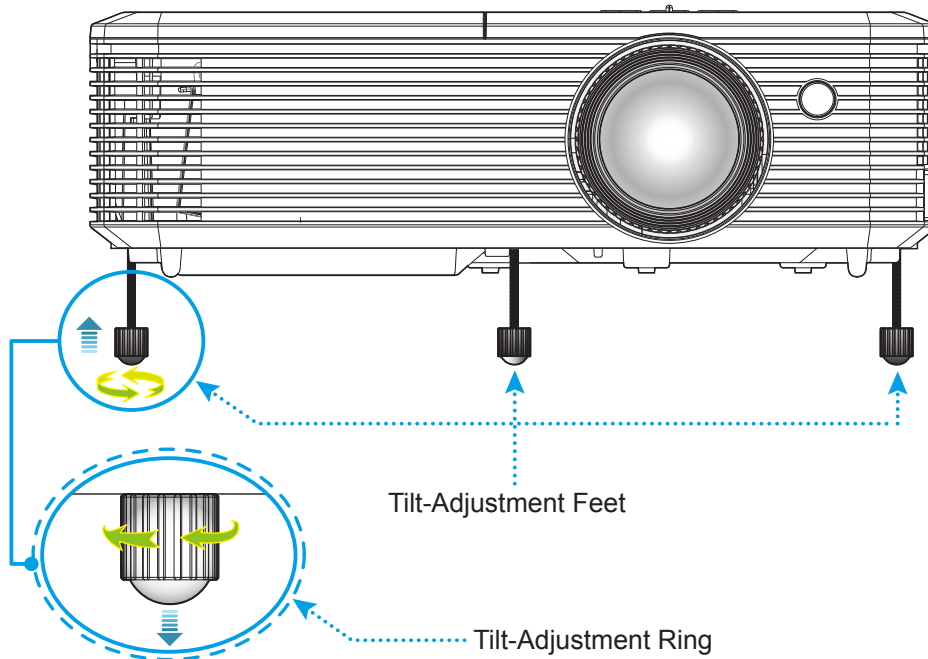
# SETUP AND INSTALLATION

## Adjusting the projector image

### Image height

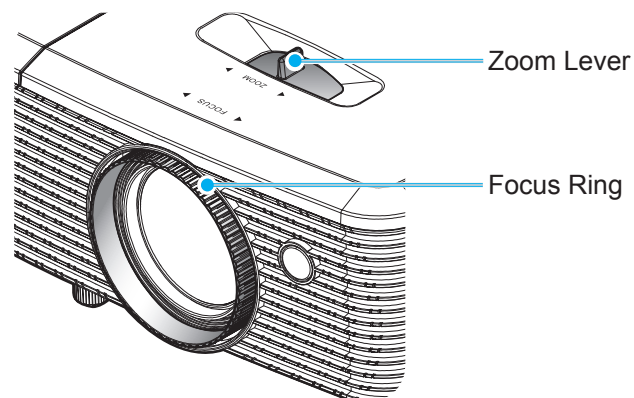
The projector is equipped with elevator feet for adjusting the image height.

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 10.

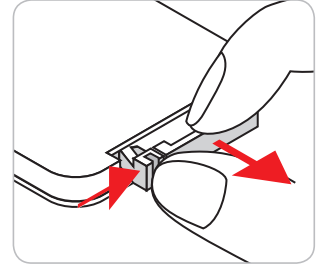


# SETUP AND INSTALLATION

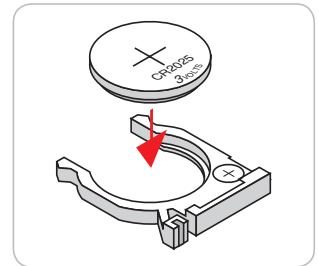
## Remote setup

### Installing / replacing the batteries

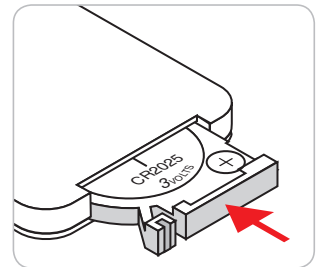
1. Press firmly and slide the battery cover off.



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:

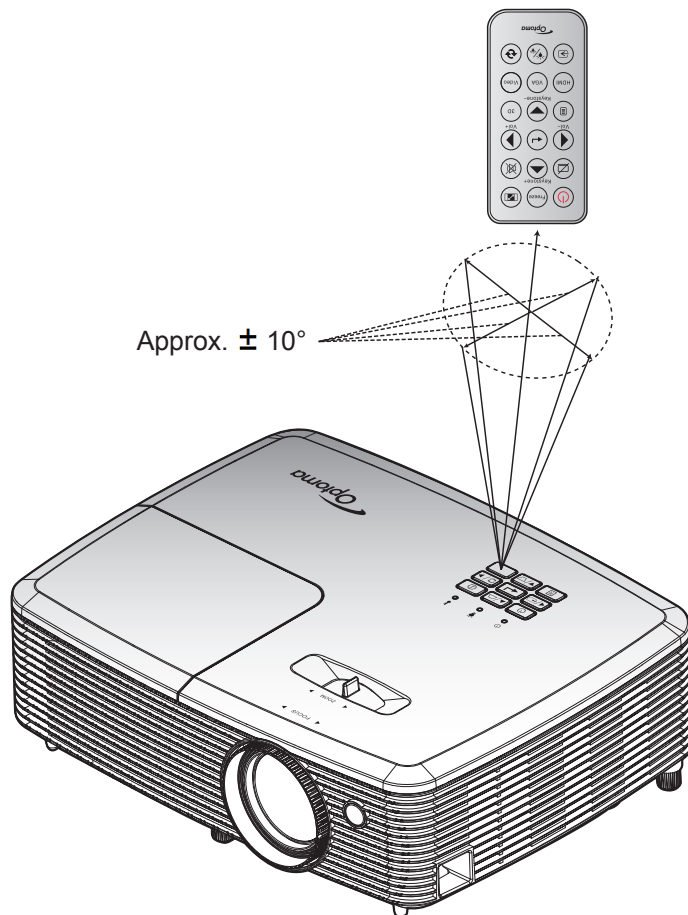
- Use CR2025 type battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced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

# SETUP AND INSTALLATION

## Effective range

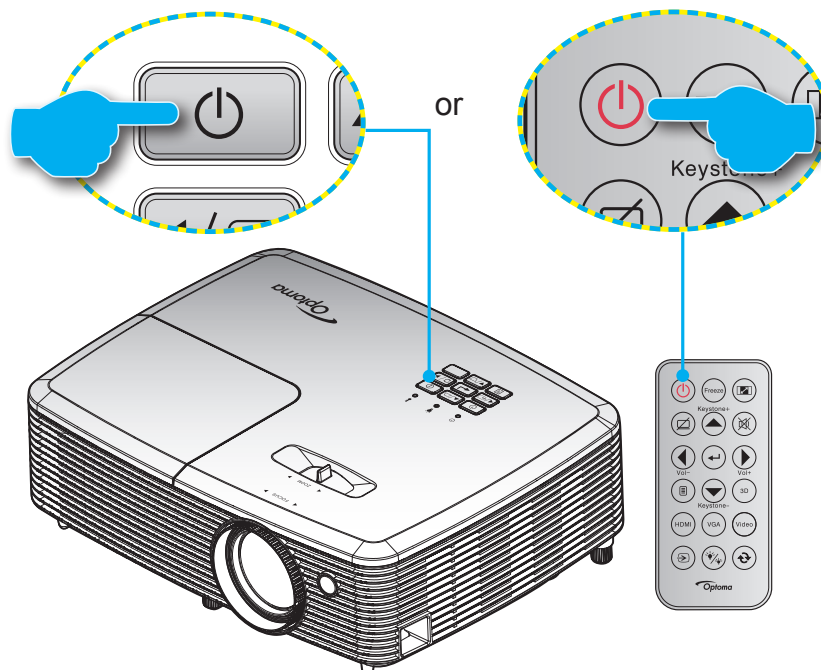
Infra-Red (IR) remote control sensor is located on the top side of the projector. Ensure to hold the remote control at an angle within 20 degrees perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer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

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.
- Please keep the remote controller away from fluorescent lamps for over 2 meters or the remote controller might become malfunction.
- If the remote control is closed to Inverter-Type fluorescent lamps, it might become ineffective from time to time.
- If the remote control and the projector are within a very short distance, the remote control might become ineffective.



# USING THE PROJECTOR

## Powering on / off the projector



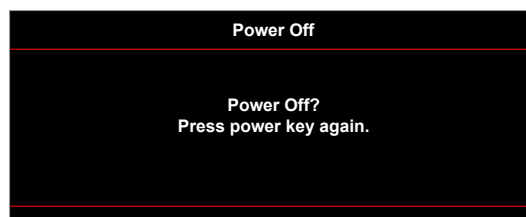
### Powering on

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 green or flashing blue.

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

### Powering off

1. Turn off the projector by pressing the "⏻" either on the projector keypad or the remote control.
2. The following message will be displayed:



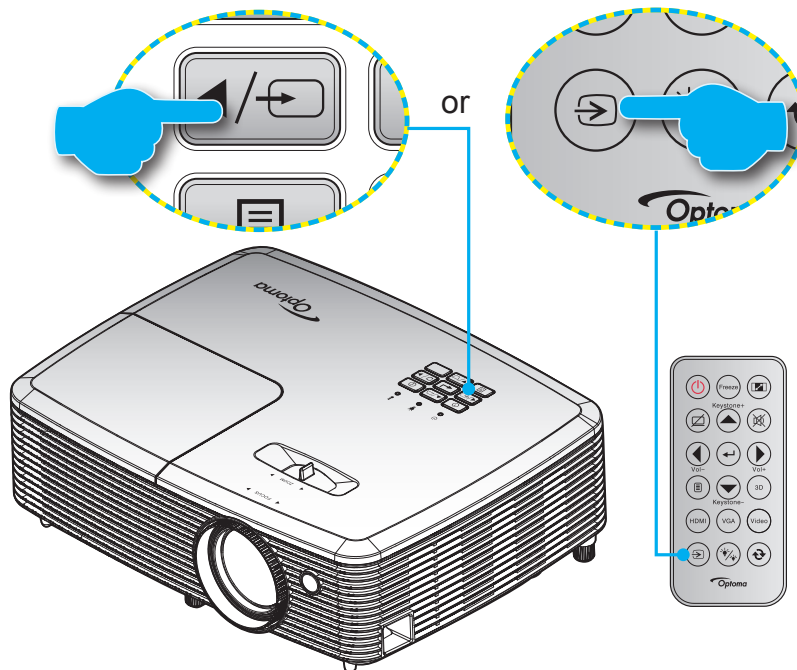
3. Press the "⏻" again to confirm, otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/Standby LED will flash green or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

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

# USING THE PROJECTOR

## Selecting an input source
















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

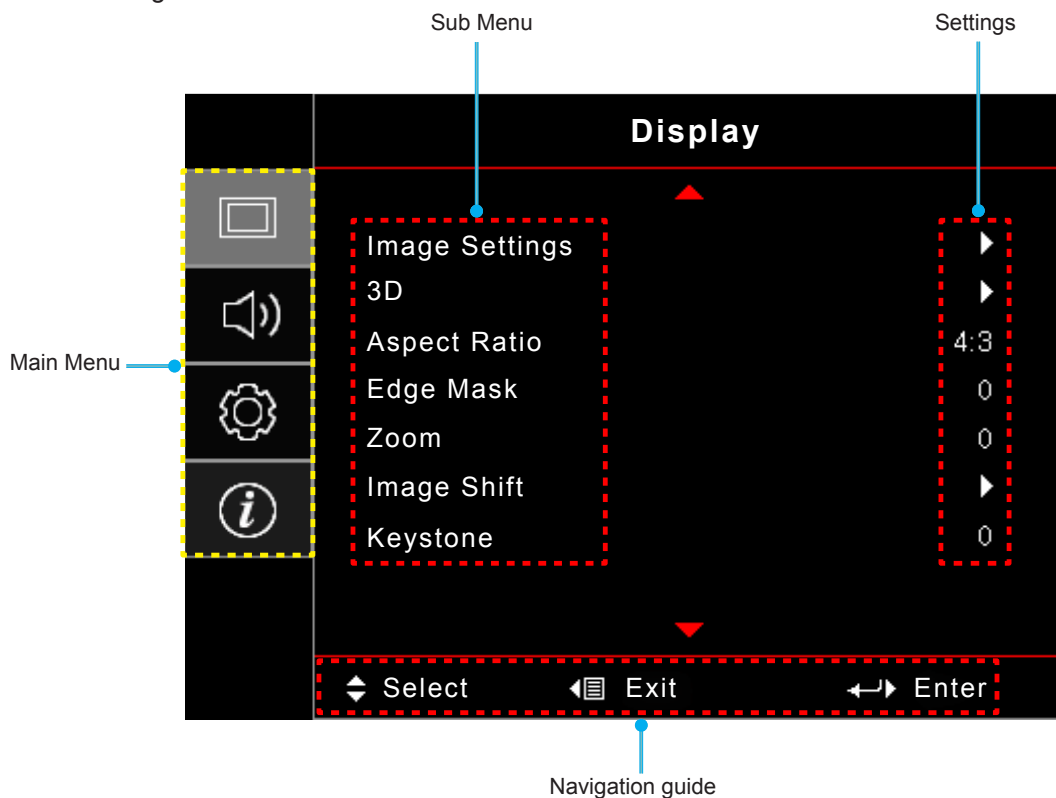


# USING THE PROJECTOR

## Menu navigation and features

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

1. To open the OSD menu, press  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 [Data]			Presentation		
					Bright		
					Cinema		
					Game		
					sRGB		
					DICOM		
					USER		
		Wall Color [Data]			3D		
					Off [Default]		
					BlackBoard		
					Light Yellow		
					Light Green		
					Light Blue		
					Pink		
		Brightness			Gray		
		Contrast			-50~50		
		Sharpness			-50~50		
		Color			1~15		
		Tint			-50~50		
		Gamma	Film				
		Color Settings	BrilliantColor™				
						1~10	
				Color Temperature [Data model]			Warm
							medium
					Cool		

# 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
				Saturation	-50~50 [Default:0]
				Hue	-50~50 [Default:0]
				Gain	-50~50 [Default:0]
			Reset	Cancel [Default]	
				Yes	
			Exit		
			RGB Gain/Bias	Red Gain	-50~50
				Green Gain	-50~50
				Blue Gain	-50~50
				Red Bias	-50~50
				Green Bias	-50~50
				Blue Bias	-50~50
				Reset	Cancel [Default]
			Yes		
			Exit		
			Color Space [Not HDMI Input]		Auto [Default]
					RGB
					YUV
			Color Space [HDMI Input]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
					YUV
			RGB Channel		Normal [Default]
					Red
					Green
					Blue
			White Level		-50~50
			Black Level		-50~50
			Saturation		-50~50
			Hue		-50~50
IRE		0			
		7.5			
Exit					

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Signal	Automatic		Off
					On [Default]
			Frequency		0~100 [Default: 0]
			Phase		-50~50 [Default: 0]
			H. Position		-50~50 [Default: 0]
			V. Position		-50~50 [Default: 0]
		Exit			
		Brightness Mode [Lamp Base - Data]			Bright [Default]
					Eco
					Dynamic
					Eco+
		Reset			
		3D	3D Mode		
					DLP-Link [Default]
					IR
	3D->2D				3D [Default]
					L
					R
					Auto [Default]
	3D Format				SBS
					Top and Bottom
					Frame Sequential
	3D sync invert				On
					Off [Default]
	Aspect Ratio			4:3	
				16:9	
				16:10 [WXGA WUXGA models]	
				LBX [except SVGA XGA models]	
				Native	
				Auto	
	Edge Mask			0~10 [Default: 0]	
	Zoom			-5~25 [Default: 0]	
	Image shift	H: 0; V: -100			[Default:0]
		H: -100; V: 0			
		H: 100; V: 0			
		H: 0; V: 100			
		H: -100; V: 0			
		H: 0; V: -100			
		H: 100; V: 0			
		H: 0; V: 100			
Keystone			-40~40 [Default:0]		



# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values		
Audio	Mute				Off [Default]		
					On		
	Volume				0-10 [Default: 5]		
Setup	Projection				Front  [Default]		
					Rear 		
					Ceiling-top 		
					Rear-top 		
	Screen Type	[WXGA WUXGA models]				16:9	
						16:10 [Default]	
	Lamp Settings	Lamp Reminder				Off	
		Lamp Reset				On [Default]	
	Filter Settings	Optional Filter Installed				Cancel [Default]	
						Yes	
		Filter Usage Hours					Yes
							No
							(Read only)
							Off
		Filter Reminder					300hr
							500hr [Default]
						800hr	
						1000hr	
	Filter Reset					Cancel [Default]	
						Yes	
	Power Settings	Direct Power On				Off [Default]	
						On	
		Auto Power Off (min)					0~180 (5 min increments) [Default: 0]
							0~990 (30 min increments) [Default: 0]
		Sleep Timer	Sleep Timer (min)				Yes
			Always On				No [Default]
		Quick Resume					Off
					On [Default]		
Power Mode (Standby)					Active		
					Eco [Default]		
Security	Security						
	Security Timer	Month					
		Day					
		Hour					
Change Password							



# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Setup	Test Pattern				Off	
					Grid	
					White	
	Remote Settings [depends on remote]	IR Function				On
						Off
		User1				HDMI 2
						Test Pattern
						Brightness
						Contrast
						Sleep Timer
						Color Matching
						Color Temp
						Gamma
						Projection
						Lamp Settings
						Zoom
						Freeze
		User2				MHL
						HDMI 2
						Test Pattern
						Brightness
						Contrast
						Sleep Timer
					Color Matching	
				Color Temp		
				Gamma		
				Projection		
			Lamp Settings			
			Zoom			
			Freeze			
			MHL			

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Setup	Remote Settings [depends on remote]	User3			HDMI 2	
					Test Pattern	
					Brightness	
					Contrast	
					Sleep Timer	
					Color Matching	
					Color Temp	
					Gamma	
					Projection	
					Lamp Settings	
					Zoom	
					Freeze	
					MHL	
		Projector ID				00~99
		Options	Language			English [Default]
						Deutsch
						Français
						Italiano
						Español
						Português
						Polski
						Nederlands
						Svenska
						Norsk
						Dansk
						Suomi
						ελληνικά
						繁體中文
						简体中文
						日本語
						<b>한국어</b>
						Русский
						Magyar
						Čeština
						عربي
						ไทย
					Türkçe	
			فارسی			
			Tiếng Việt			
			Bahasa Indonesia			
			Română			
			Slovenčina			
	Closed Captioning				CC1	
					CC2	
					Off [Default]	

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Menu Settings	Menu Location		Top left 
					Top right 
					Center  [Default]
					Bottom left 
					Bottom right 
			Menu Timer		Off
					5sec
					10sec [Default]
			Input Source		HDMI (Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 7 1080p)
					HDMI1 (Type 2 SVGA/ Type 6 WXGA)
				HDMI2/MHL (Type 2 SVGA/ Type 6 WXGA)	
				VGA (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p)	
				Video (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p)	
		Input Name	HDMI		Default (Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 7 1080p) [Default]
					Custom (Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 7 1080p)
			HDMI1		Default (Type 2 SVGA/ Type 6 WXGA) [Default]
					Custom (Type 2 SVGA/ Type 6 WXGA)
			HDMI2/MHL		Default (Type 2 SVGA/ Type 6 WXGA) [Default]
					Custom (Type 2 SVGA/ Type 6 WXGA)
			VGA		Default (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p) [Default]
					Custom (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p)
			Video		Default (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p) [Default]
					Custom (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p)

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Setup	Options	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			
Reset	Reset OSD			Cancel [Default]		
				Yes		
Reset to Default			Cancel [Default]			
			Yes			
Information	Regulatory					
	Serial Number					
	Current Input Source					
	Resolution				00x00	
	Refresh Rate				0.00Hz	
	Projector ID				00~99	
	Display Mode					
	Power mode(standby)					
	Brightness Mode					
	Filter Hours					
	Lamp Hours	Bright mode				0H
		Eco mode				0H
		Dynamic mode				0H
		Eco+ mode				0H
		Total hours				
	FW Version	System				
MCU						

**Note:**

- If the Signal setting is set to Automatic, the Phase, frequency items are grayed out. If the “Signal” setting is set to a specific input source, the phase, frequency items will appear for user to manually tune and saved in settings.
- The “LAMP RESET” in OSD will only reset both Lamp Hours in OSD and Lamp Hours in service

# USING THE PROJECTOR

*mode. The Projection Hours in service mode will not be reset.*

- *When you made the changes on the “IR Function”, “Projection”, or “Keypad Lock” function, a confirmation message will appear on the screen. Select “Yes” to save the settings.*
- *Each display mode can be adjusted and saved the value.*
- *In 3D timing mode, the zoom/edge mask will be disabled to prevent from image break.*

## ***Display menu***

# USING THE PROJECTOR

## Display image settings menu

### Display Mode

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

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

### Wall Color (Data mode)

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.

# USING THE PROJECTOR

- **BrilliantColor™:** This adjustable item utilizes a new color-processing algorithm and enhancements to enable higher brightness while providing true, more vibrant colors in picture.
- **Color Temperature (data-mode only):** Select a color temperature from Warm, Medium, or Cool.
- **Color Temperature:** Select a color temperature from D50, D65, D75, D83, D93, and Native.
- **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.
  - Saturation: Adjust a video image from black and white to fully saturated color.
  - Hue: Adjust the color balance of red and green.
  - Gain: Adjust the image brightness.
  - 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 (non-HDMI input only):** Select an appropriate color matrix type from the following: AUTO, RGB, or YUV.
- **Color Space (HDMI input only):** select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.
- **RGB Channel:** Select from normal, red, green, or blue channels.
- **White Level:** Allow user to adjust White Level when inputting Video signals.
- **Black Level:** Allow user to adjust Black Level when inputting Video signals.
- **Saturation:** Adjust a video image from black and white to fully saturated color.
- **Hue:** Adjust the color balance of red and green.
- **IRE:** Allow user to adjust IRE value when inputting Video signals.  
**Note:** *IRE is only available with NTSC video format.*
- **Exit:** Exit the “Color Settings” menu.

## **Signal**

Adjust the signal options.

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

## **Brightness Mode (Lamp base data)**

Adjust the brightness mode settings for lamp-based projectors.



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- **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.
- **Dynamic:** Choose “Dynamic” to dim the lamp power which will be based on brightness level of the content and adjust lamp power consumption between 100% and 30% dynamically. The lamp life will be extended.
- **Eco+:** When Eco+ mode is activated, the brightness level of the content is automatically detected to significantly reduced lamp power consumption (up to 70%) during periods of inactivity.

## Reset

Return the factory default settings for color settings.

## Display 3D menu

### 3D Mode

Use this option to disable the 3D function or select the appropriate the 3D function.

- **Off:** Select “Off” to turn off 3D mode.
- **DLP-Link:** Select to use optimized settings for DLP 3D Glasses.
- **IR:** Select “IR” to use optimized setting for IR 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.

# 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.
- **16:10 (for WXGA and WUXGA models only):** This format is for 16:10 input sources, like widescreen laptops.
- **LBX (except SVGA and XGA models):** 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:

- *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:*
  - Set the screen aspect ratio to 2.0:1.*
  - Select "Superwide" format.*
  - Align the projector image correctly on the screen.*

### SVGA/XGA scaling table:

Source	480i/p	576i/p	1080i/p	720p
<b>4x3</b>	Scale to 1024x768.			
<b>16x9</b>	Scale to 1024x576.			
<b>Native</b>	No scaling will be made; the image is displayed with the resolution based on input source.			
<b>Auto</b>	-If source is 4:3, the screen type will be scaled to 1024x768. -If source is 16:9, the screen type will be scaled to 1024x576. -If source is 15:9, the screen type will be scaled to 1024x614. -If source is 16:10, the screen type will be scaled to 1024x640.			

# USING THE PROJECTOR

## SVGA/XGA auto mapping rule:

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1024	768
4:3	640	480	1024	768
	800	600	1024	768
	1024	768	1024	768
	1600	1200	1024	768
Wide Laptop	1280	720	1024	576
	1280	768	1024	614
	1280	800	1024	640
SDTV	720	576	1024	576
	720	480	1024	576
HDTV	1280	720	1024	576
	1920	1080	1024	576

## WXGA scaling table (screen type 16x10):

### Note:

- Supported screen type 16:9 (1280x720), 16:10 (1280x800).
- When screen type is 16:9, the 16x10 format becomes unavailable.
- When screen type is 16:10, the 16x9 format becomes unavailable.
- If you select auto option then the display mode will be also automatically changed.

16 : 10 screen	480i/p	576i/p	1080i/p	720p	PC
<b>4x3</b>	Scale to 1066x800.				
<b>16x10</b>	Scale to 1280x800.				
<b>LBX</b>	Scale to 1280x960, then get the central 1280x800 image to display.				
<b>Native mode</b>	1:1 mapping centered.		1:1 mapping display 1280x800.	1280x720 centered.	1:1 mapping centered.
<b>Auto</b>	-Input source will be fit into 1280x800 display area and be kept its original aspect ratio. -If source is 4:3, the screen type will be scaled to 1066x800. -If source is 16:9, the screen type will be scaled to 1280x720. -If source is 15:9, the screen type will be scaled to 1280x768. -If source is 16:10, the screen type will be scaled to 1280x800.				

# USING THE PROJECTOR

## WXGA auto mapping rule (screen type 16x10):

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1280	800
4:3	640	480	1066	800
	800	600	1066	800
	1024	768	1066	800
	1280	1024	1066	800
	1400	1050	1066	800
	1600	1200	1066	800
Wide Laptop	1280	720	1280	720
	1280	768	1280	768
	1280	800	1280	800
SDTV	720	576	1280	720
	720	480	1280	720
HDTV	1280	720	1280	720
	1920	1080	1280	720

## WXGA scaling table (screen type 16x9):

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC
<b>4x3</b>	Scale to 960x720.				
<b>16x9</b>	Scale to 1280x720.				
<b>LBX</b>	Scale to 1280x960, then get the central 1280x720 image to display.				
<b>Native mode</b>	1:1 mapping centered.		1:1 mapping display 1280x720.	1280x720 centered.	1:1 mapping centred.
<b>Auto</b>	-If this format is select, screen type will automatically become 16:9 (1280x720). -If source is 4:3, the screen type will be scaled to 960x720. -If source is 16:9, the screen type will be scaled to 1280x720. -If source is 15:9, the screen type will be scaled to 1200x720. -If source is 16:10, the screen type will be scaled to 1152x720.				

# USING THE PROJECTOR

WXGA auto mapping rule (screen type 16x9):

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1280	720
4:3	640	480	960	720
	800	600	960	720
	1024	768	960	720
	1280	1024	960	720
	1400	1050	960	720
	1600	1200	960	720
Wide Laptop	1280	720	1280	720
	1280	768	1200	720
	1280	800	1152	720
SDTV	720	576	1280	720
	720	480	1280	720
HDTV	1280	720	1280	720
	1920	1080	1280	720

## 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.

### Audio volume menu

#### Volume

Adjust the volume level.

## *Setup menu*

### Setup projection menu

#### Projection

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

### Setup screen type menu

#### Screen Type (for WXGA and WUXGA models only)

Choose the screen type from 16:9 and 16:10.

### 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.

# USING THE PROJECTOR

## Filter Reminder

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

## Filter Reset

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

## Setup power settings menu

### Direct Power On

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

### Auto Power Off (min)

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

### Sleep Timer

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.

### Power Mode (Standby)

Set the power mode setting.

- **Active:** Choose “Active” to return to normal standby.
- **Eco.:** Choose “Eco.” to save power dissipation further < 0.5W.

# 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.



# USING THE PROJECTOR

## Setup test pattern menu

### Test Pattern

Select the test pattern from 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 front or top IR receiver.
- **Off:** Choose “Off”, the projector can't be operated by the remote control from front or top IR receiver. By selecting “Off”, you will be able to use the Keypad keys.

### Remote Code

Set remote custom code.

### User1/ User2/ User3

Assign the default function for User1, User2, or User3 between HDMI 2, test pattern, brightness, contrast, sleep timer, color matching, color temp, gamma, projection, lamp settings, zoom, freeze, and MHL.

## Setup projector ID menu

### Projector ID

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

## Setup 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.

### Closed Captioning

Closed Captioning is a text version of the program sound or other information displayed on the screen. If the input signal contains closed captions, you can turn on the feature and watch the channels. The available options include “Off”, “CC1”, and “CC2”.

### 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 Source

Select the input source between HDMI (Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 7 1080p), HDMI1 (Type 2 SVGA/ Type 6 WXGA), HDMI2/MHL (Type 2 SVGA/ Type 6 WXGA), VGA (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p), video (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p).

### Input Name

Use to rename the input function for easier identification. The available options include HDMI (Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 7 1080p), HDMI1 (Type 2 SVGA/ Type 6 WXGA), HDMI2/MHL (Type 2 SVGA/ Type 6 WXGA), VGA (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p), video (Type 1 SVGA/ Type 3 SVGA/ Type 4 XGA/ Type 5 WXGA/ Type 6 WXGA/ Type 7 1080p).

# USING THE PROJECTOR

## 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.

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

## Logo

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

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

## Background Color

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

## Setup reset all menu

### Reset

Return the factory default settings for Setup menu settings.

## *Info menu*

### Info menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Current Input Source
- Resolution
- Refresh Rate
- Projector ID
- Display Mode
- Power mode(standby)
- Brightness Mode
- Filter Hours
- Lamp Hours
- FW Version

# MAINTENANCE

## Replacing the lamp

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



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



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



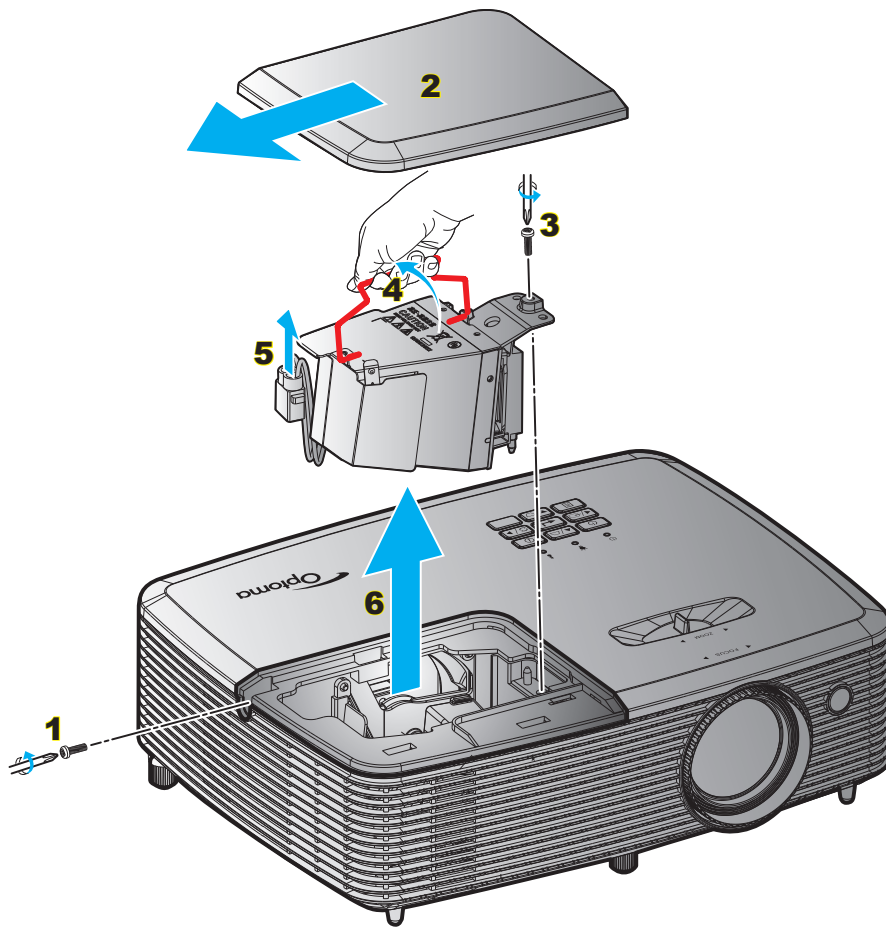
Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



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

# MAINTENANCE

## Replacing the lamp (continued)



### Procedure:

1. Switch off the power to the projector by pressing the "⏻" button on the remote control or the projector keypad.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Unscrew the screw on the cover. **1**
5. Remove the cover. **2**
6. Unscrew the screw on the lamp module. **3**
7. Lift up the lamp handle. **4**
8. Remove the lamp cord. **5**
9. Remove the lamp module carefully. **6**
10. To replace the lamp module, reverse the previous steps.
11. Turn on the projector and reset the lamp timer.
12. Lamp Reset: (i) Press "Menu" → (ii) Select "Setup" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

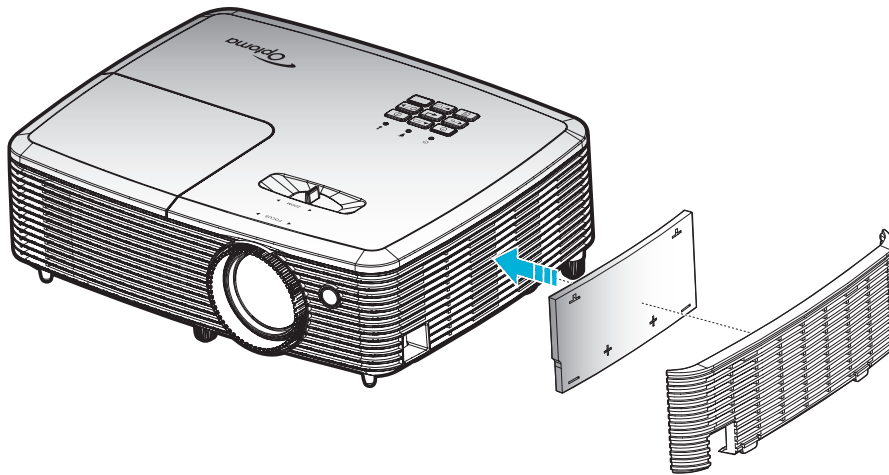
### Note:

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

# MAINTENANCE

## Installing and cleaning the dust filter

### Installing the dust filter



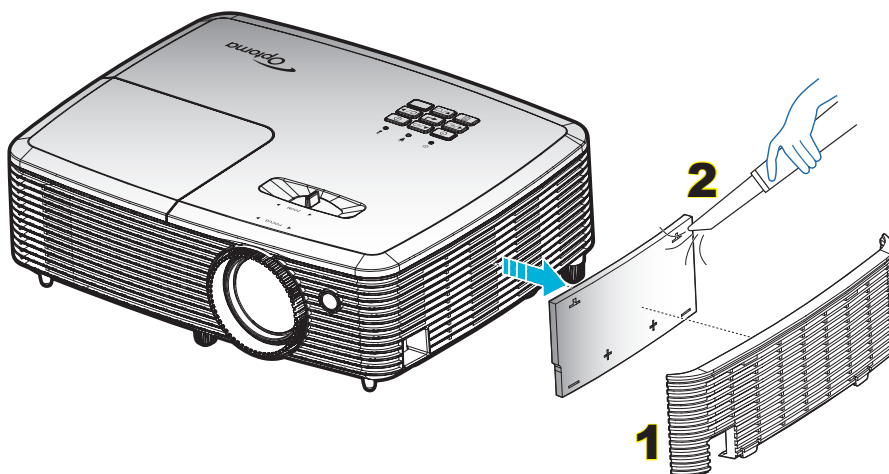
**Note:** Dust filters are only required/supplied in the selected regions with excessive dust.

### Cleaning the dust filter

We recommend you to clean the dust filter every three months. Clean it more often if the projector is used in a dusty environment.

Procedure:

1. Switch off the power to the projector by pressing the "⏻" button on the remote control or the projector keypad.
2. Disconnect the power cord.
3. Remove the dust filter carefully. **1**
4. Clean or replace the dust filter. **2**
5. To install the dust filter, reverse the previous steps.



# ADDITIONAL INFORMATION

## Compatible resolutions

### Digital compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720x400 @ 70Hz	SVGA:	Native timing:	640x80p @ 60Hz	720x480p @ 60Hz
640x480 @ 60Hz	800x600 @ 120Hz	XGA: 1024x768 @ 60Hz	720x480p @ 60Hz	1280x720p @ 60Hz
640x480 @ 67Hz	1024x768 @ 120Hz	WXGA: 1280x800 @ 60Hz; 1280x720 @ 60Hz	1280x720p @ 60Hz	1366x768 @ 60Hz
640x480 @ 72Hz	1280x800 @ 60Hz	1080P: 1920x1080 @ 60Hz	1920x1080i @ 60Hz	1920x1080i @ 50Hz
640x480 @ 75Hz	1280x1024 @ 60Hz		720(1440)x480i @ 60Hz	1920x1080p @ 60Hz
800x600 @ 56Hz	1680x1050 @ 60Hz		1920x1080p @ 60Hz	
800x600 @ 60Hz	1280x720 @ 60Hz		720x576p @ 50Hz	
800x600 @ 72Hz	1280x720 @ 120Hz		1280x720p @ 50Hz	
800x600 @ 75Hz	1600x1200 @ 60Hz		1920x1080i @ 50Hz	
832x624 @ 75Hz	XGA/WXGA:		720(1440)x576i @ 50Hz	
1024x768 @ 60Hz	1440x900 @ 60Hz		1920x1080p @ 50Hz	
1024x768 @ 70Hz	1024x768 @ 120Hz		1920x1080p @ 24Hz	
1024x768 @ 75Hz	1280x800 @ 60Hz		1920x1080p @ 30Hz	
1280x1024 @ 75Hz	1280x1024 @ 60Hz			
1152x870 @ 75Hz	1680x1050 @ 60Hz			
	1280x720 @ 60Hz			
	1280x720 @ 120Hz			
	1600x1200 @ 60Hz			
	1080P:			
	1280x720 @ 60Hz			
	1280x800 @ 60Hz			
	1280x1024 @ 60Hz			
	1400x1050 @ 60Hz			
	1600x1200 @ 60Hz			
	1440x900 @ 60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

# ADDITIONAL INFORMATION

## Analog compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720x400 @ 70Hz	SVGA:	Native timing:		1366x768 @ 60Hz
640x480 @ 60Hz	800x600 @ 120Hz	XGA: 1024x768 @ 60Hz		
640x480 @ 67Hz	1024x768 @ 120Hz	WXGA: 1280x800 @ 60Hz; 1280x720 @ 60Hz		
640x480 @ 72Hz	1280x800 @ 60Hz	1080P: 1920x1080 @ 60Hz		
640x480 @ 75Hz	1280x1024 @ 60Hz			
800x600 @ 56Hz	1680x1050 @ 60Hz			
800x600 @ 60Hz	1280x720 @ 60Hz			
800x600 @ 72Hz	1280x720 @ 120Hz			
800x600 @ 75Hz	1600x1200 @ 60Hz			
832x624 @ 75Hz	XGA/WXGA:			
1024x768 @ 60Hz	1440x900 @ 60Hz			
1024x768 @ 70Hz	1024x768 @ 120Hz			
1024x768 @ 75Hz	1280x800 @ 60Hz			
1280x1024 @ 75Hz	1280x1024 @ 60Hz			
1152x870 @ 75Hz	1680x1050 @ 60Hz			
	1280x720 @ 60Hz			
	1280x720 @ 120Hz			
	1600x1200 @ 60Hz			
	1080P:			
	1280x720 @ 60Hz			
	1280x800 @ 60Hz			
	1280x1024 @ 60Hz			
	1400x1050 @ 60Hz			
	1600x1200 @ 60Hz			
	1440x900 @ 60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

# ADDITIONAL INFORMATION

## True 3D video compatibility

		Input timing				
<b>Input resolution</b>	HDMI 1.4a 3D Input	1280x720P @ 50Hz	Top - and - Bottom			
		1280x720P @ 60Hz	Top - and - Bottom			
		1280x720P @ 50Hz	Frame packing			
		1280x720P @ 60Hz	Frame packing			
		1920x1080i @ 50 Hz	Side- by-Side (Half)			
		1920x1080i @ 60 Hz	Side- by-Side (Half)			
		1920x1080P @ 24 Hz	Top - and- Bottom			
		1920x1080P @ 24 Hz	Frame packing			
		HDMI 1.3	1920x1080i @ 50Hz	Side-by-Side(Half)	SBS mode is on	
			1920x1080i @ 60Hz			
	1280x720P @ 50Hz					
	1280x720P @ 60Hz					
	800 x 600 @ 60Hz					
	1024 x 768 @ 60Hz					
	1280 x 800 @ 60Hz		Top-and-Bottom	TAB mode is on		
	1920x1080i @ 50Hz					
	1920x1080i @ 60Hz					
	1280x720P @ 50Hz					
	1280x720P @ 60Hz					
	800x600 @ 60Hz	HQFS	3D format is Frame sequential			
1024x768 @ 60Hz						
1280x800 @ 60Hz						
480i						

### 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 100 hz; other 3D timing will run in 120hz.
- 1080p@24hz will run in 144Hz.



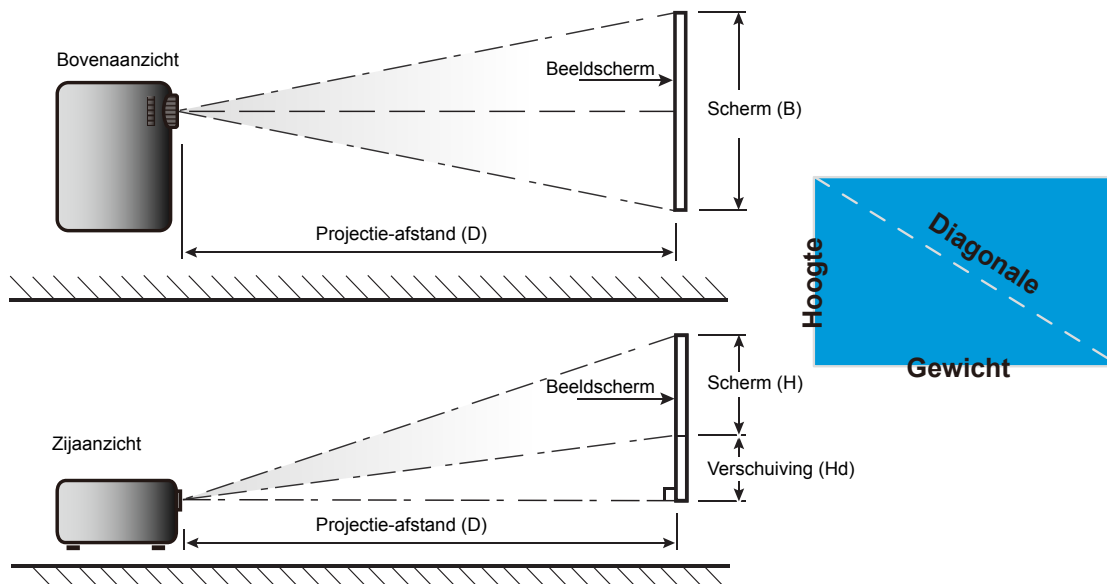
# ADDITIONAL INFORMATION

## Image size and projection distance

(1080P)

Diagonal Length Size of (16:9) Screen	Screen Size W x H				Projection Distance (D)				Offset	
	(m)		(inch)		(m)		(inch)			
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)
36	0.80	0.45	31.38	17.65	1.2	1.3	3.94	4.27	0.07	2.76
40	0.89	0.5	34.86	19.6	1.3	1.4	4.27	4.59	0.08	3.15
50	1.11	0.62	43.58	24.5	1.6	1.8	5.25	5.91	0.10	3.94
60	1.33	0.75	52.29	29.4	2.0	2.2	6.56	7.22	0.12	4.72
70	1.55	0.87	61.01	34.3	2.3	2.5	7.55	8.20	0.14	5.51
80	1.77	1	69.73	39.2	2.6	2.9	8.53	9.51	0.16	6.30
90	1.99	1.12	78.44	44.1	2.9	3.2	9.51	10.50	0.18	7.09
100	2.21	1.25	87.16	49	3.3	3.6	10.83	11.81	0.19	7.48
120	2.66	1.49	104.59	58.8	3.9	4.3	12.80	14.11	0.24	9.45
150	3.32	1.87	130.74	73.5	4.9	5.4	16.08	17.72	0.30	11.81
180	3.98	2.24	156.88	88.2	5.9	6.5	19.36	21.33	0.36	14.17
200	4.43	2.49	174.32	98.1	6.6	7.2	21.65	23.62	0.40	15.75
250	5.53	3.11	217.89	122.6	8.2	9.0	26.90	29.53	0.50	19.69
300	6.64	3.74	261.47	147.1	9.8	10.8	32.15	35.43	0.59	23.23

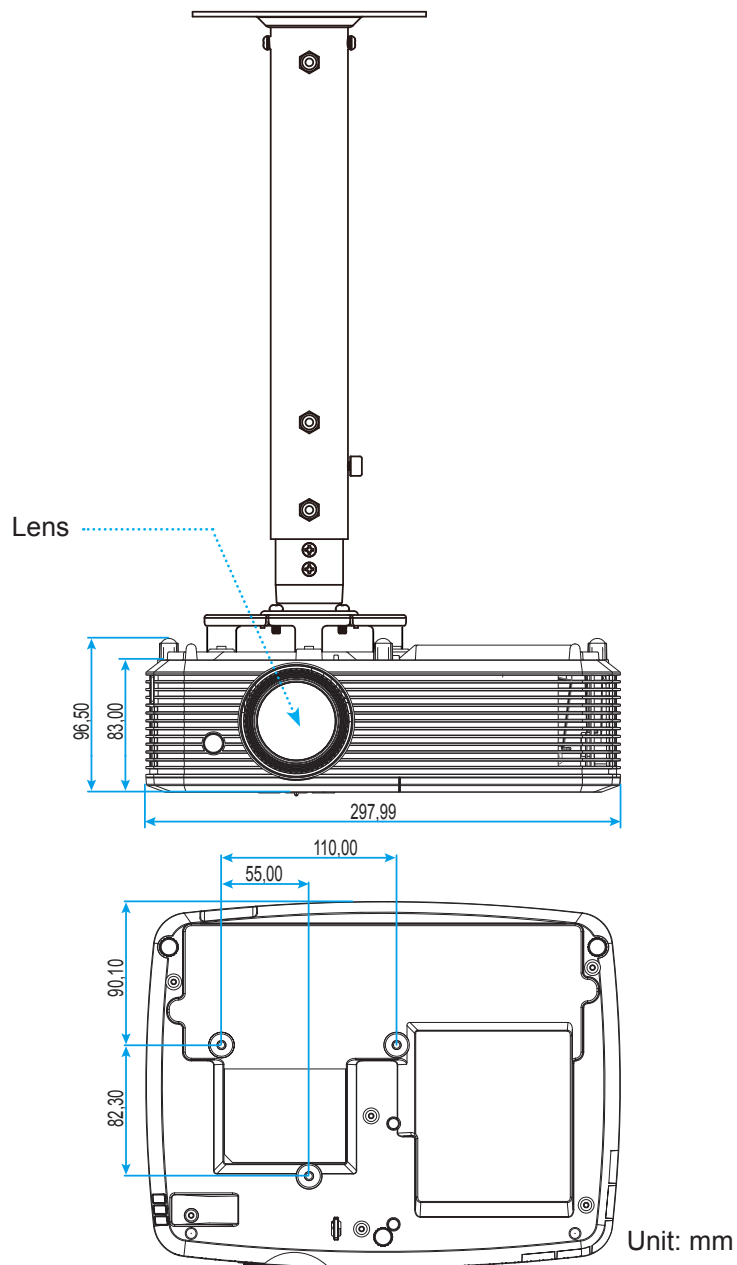
**Note:** Zoom ratio is 1.1x.



# 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 codes



Key legend	Description	Repeat format	Address		Data	
			byte 1	byte 2	byte 3	byte 4
Power	Press to turn on / off the projector.	F1	32	CD	81	7E
Freeze	Press to freeze the projector image.	F1	32	CD	87	78
Aspect	Press to change aspect ratio of a displayed image.	F1	32	CD	98	67
AV mute	Press to turn off/ on projector built-in speaker	F1	32	CD	8A	75
Keystone+/up	<ul style="list-style-type: none"> <li>Press to adjust image distortion caused by tilting the projector.</li> <li>Press to navigate up.</li> </ul>	F2	32	CD	85	7A
Mute	Press to momentarily turn off / on the audio.	F1	32	CD	92	6D
Left/Vol-	<ul style="list-style-type: none"> <li>Press to adjust to decrease the volume.</li> <li>Press to navigate left.</li> </ul>	F2	32	CD	8F	70
Enter	Confirm your item selection.	F1	32	CD	C5	3A
Right/Vol+	<ul style="list-style-type: none"> <li>Press to adjust to increase the volume.</li> <li>Press to navigate right.</li> </ul>	F2	32	CD	8C	73
Menu	Press to display or exit the on-screen display menus for projector.	F1	32	CD	88	77

# ADDITIONAL INFORMATION








Key legend		Description	Repeat format	Address		Data	
				byte 1	byte 2	byte 3	byte 4
Down/Key-stone-		<ul style="list-style-type: none"> <li>Press to adjust image distortion caused by tilting the projector.</li> <li>Press to navigate down.</li> </ul>	F2	32	CD	84	7B
3D		Press to manually select a 3D mode that matches your 3D content.	F1	32	CD	93	6C
HDMI		Press to choose HDMI source.	F1	32	CD	86	79
VGA		Press to choose VGA source.	F1	32	CD	8E	71
Video		Press to choose video source.	F1	32	CD	CE	72
Source		Press to select an input signal.	F1	32	CD	C3	3C
Lamp mode		Press to choose lamp mode.	F1	32	CD	C0	3F
ReSync		Automatically synchronize the projector to the input source.	F1	32	CD	C4	3B

# ADDITIONAL INFORMATION



## Troubleshooting

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



### Image problems

-  *No image appears on-screen*
- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
  - Ensure the pins of connectors are not crooked or broken.
  - Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section.
  - Ensure that the "AV Mute" feature is not turned on.
-  *Image is out of focus*
- 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 49).
-  *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 "Off" 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. To replace the lamp, follow the procedures in the "Replacing the Lamp" section on pages 43-44.

## Remote control problems

-  *If the remote control does not work*
- Check the operating angle of the remote control is pointed within  $\pm 10^\circ$  to the IR receiver on the projector.
  - Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (23 ft) of the projector.
  - Make sure batteries are inserted correctly.
  - Replace batteries if they are exhausted.

# ADDITIONAL INFORMATION


















## Warning indicators

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

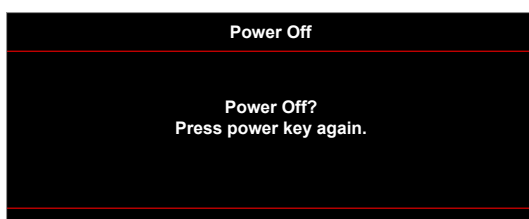
- "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes amber.
- "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes amber. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- "TEMP" LED indicator flashes red and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

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	 Power LED	 Temp-LED	 Lamp-LED
	(Red)	(Green or Blue)	(Red)	(Red)
Standby state (Input power cord)	Steady light			
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Power on and Lamp lighting		Steady light		
Power off (Cooling)		Flashing (0.5 sec off / 0.5 sec light). Back to red steady light when cooling fan turns off.		
Quick Resume (100 secs)		Flashing (0.25 sec off / 0.25 sec light)		
Error (Over temp.)	Flashing			
Error (Fan failure)	Flashing		Flashing	
Error (Lamp failure)	Flashing			

- Power off:

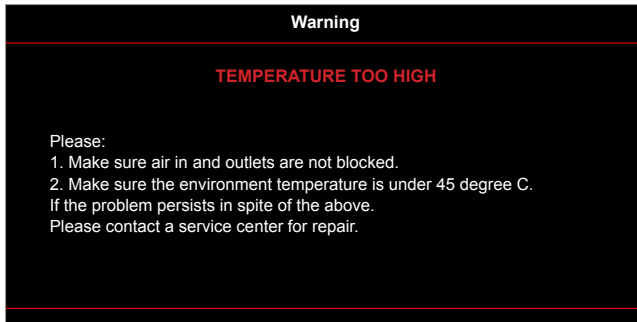


- Lamp warning:

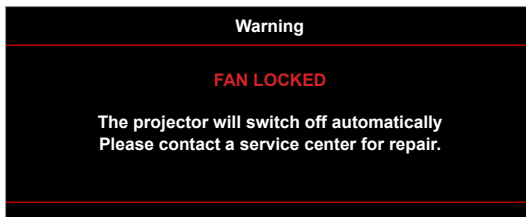


# ADDITIONAL INFORMATION

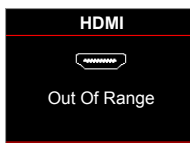
- Temperature warning:



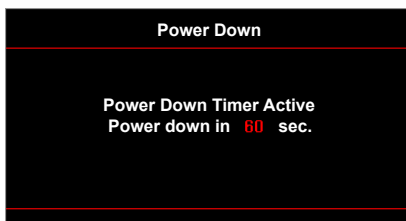
- Fan failed:



- Out of display range:



- Power down warning:



- Security timer alarm:





# USING THE PROJECTOR

## Specifications

Optical	Description
Maximum resolution	UXGA, 1600x1200, 60Hz WUXGA for WXGA 16:10
Native resolution	SVGA/XGA/WXGA/1080p
Lens	- Manual zoom and manual focus
Lamp life	- Bright Mode (Normal Mode) 5000 Hours Standard @190W, 50% Survival Rate - STD Mode (ECO Mode) 6000 Hours Typical @160W, 50% Survival Rate - Dynamic mode 6500 Hours - DE Mode in education cycle 10000 Hours
Image size (diagonal)	22.9" ~ 252" (overdrive to 300")
Projection distance	1m ~ 10m (focus range) (overdrive to 12m)

Electrical	Description
Inputs	- HDMI 1.4a - HDMI 1.4a + MHL (v2.2) - VGA-IN (YPbPr / RGB) - Audio 3.5mm
Outputs	- VGA - Audio 3.5mm - USB-A power
Control	- RS232 - USB mouse / service
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, 10W
Power requirement	100 - 240V AC 50/60Hz
Input current	2.5-1.0 A

Mechanical	Description
Installation orientation	Front, Rear, Ceiling - Front, Rear - top
Dimensions	- 298 mm (W) x 230 mm (D) x 83 mm (H) (without feet) - 298 mm (W) x 230 mm (D) x 96.5 mm (H) (with feet)
Weight	2.5 kg
Environmental conditions	Operating in 5 ~ 40°C , 10% to 85% humidity (non-condensing)

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




# USING THE PROJECTOR

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