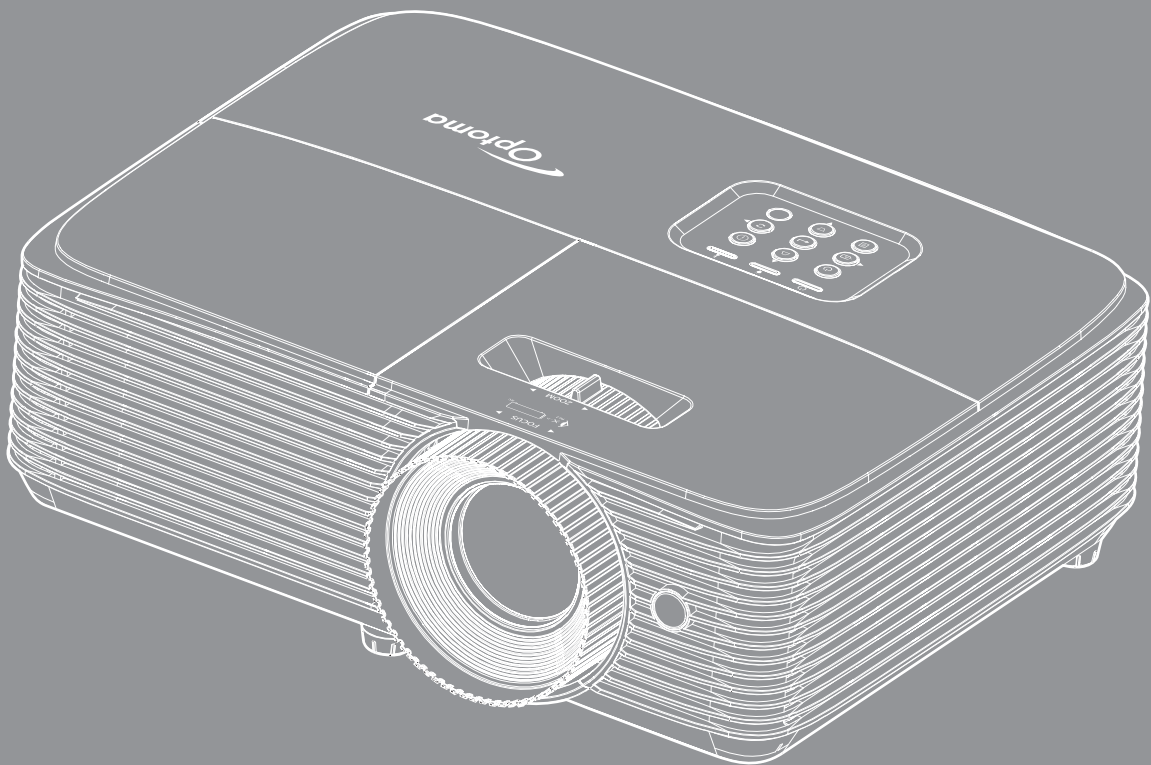




# DLP® Projector



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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 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. Follow instructions as described on pages 53-54.
- 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. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 53-54.*

- *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.

## Copyright

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## Disclaimer

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

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

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

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

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

DARBEE is a trademark by Darbee Products, Inc.

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 2014/30/EC (including amendments)
- Low Voltage Directive 2014/35/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.

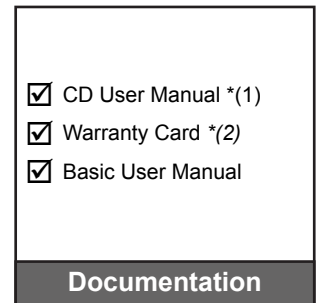
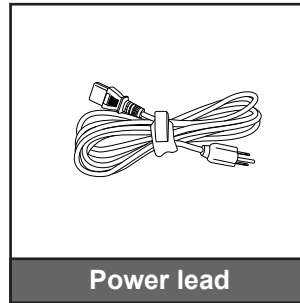
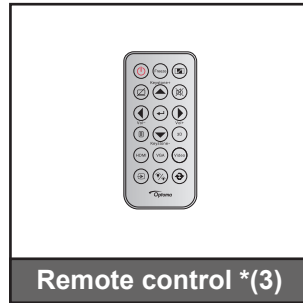
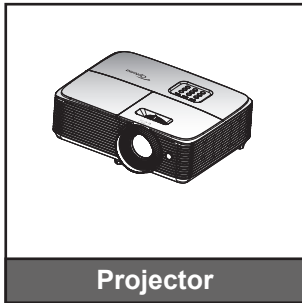
# INTRODUCTION

## 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.

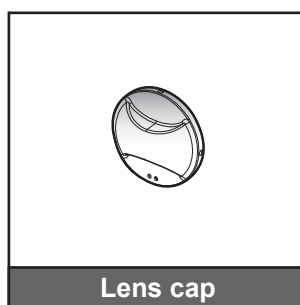
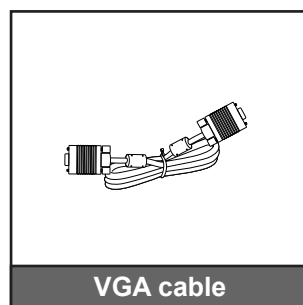
## Standard accessories



### Note:

- *The remote control is shipped with the battery.*
- *<sup>\*(1)</sup> For European User Manual please visit [www.optomaeurope.com](http://www.optomaeurope.com).*
- *<sup>\*(2)</sup> For European warranty information please visit [www.optomaeurope.com](http://www.optomaeurope.com).*
- *<sup>\*(3)</sup> The actual remote control may vary depending on the region.*

## Optional accessories

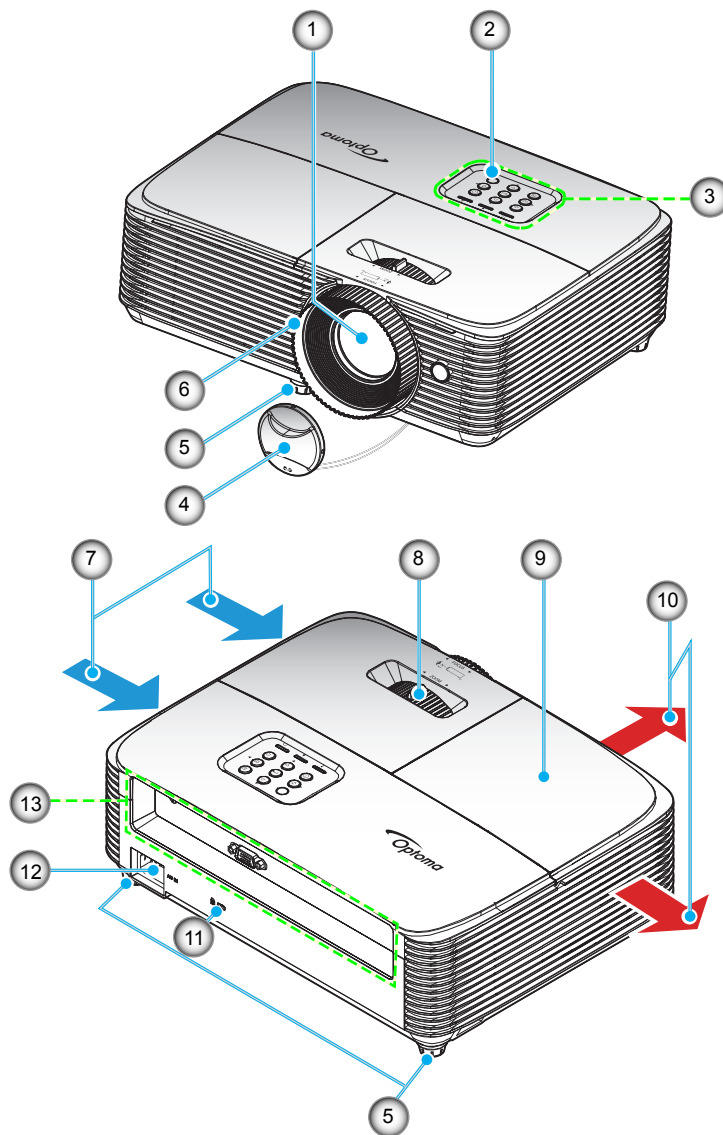


**Note:** *Optional accessories vary depending on model, specification and region.*



# INTRODUCTION

## Product Overview



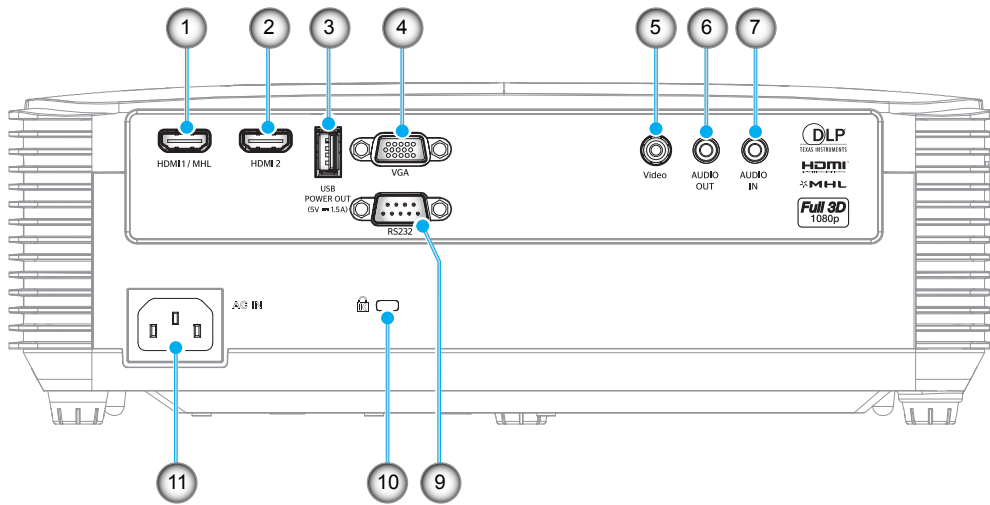
**Note:** Keep a minimum distance of 20 cm between the “inlet” and “outlet” labels.

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

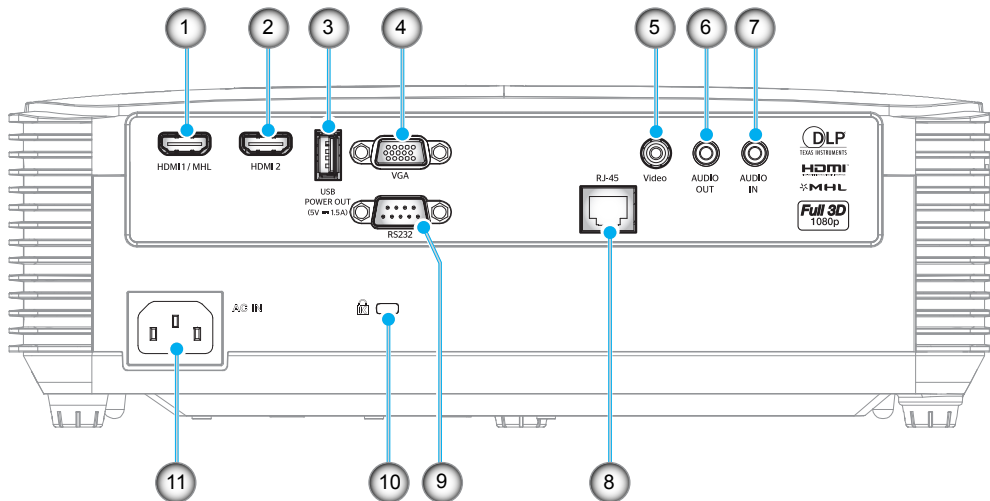
# INTRODUCTION

## Connections

### Type 1 (8 IO)



### Type 2 (9 IO)



No	Item	Type 1 (8 IO)	Type 2 (9 IO)
1.	HDMI 1 / MHL Connector	√	√
2.	HDMI 2 Connector	√	√
3.	USB Power Out (5V=1A) Connector / MOUSE / SERVICE Connector	√	√
4.	VGA Connector	√	√
5.	Video Connector	√	√
6.	AUDIO OUT Connector	√	√
7.	AUDIO IN Connector	√	√
8.	RJ-45 Connector	N/A	√
9.	RS-232 Connector	√	√
10.	Kensington™ Lock Port	√	√
11.	Power Socket	√	√

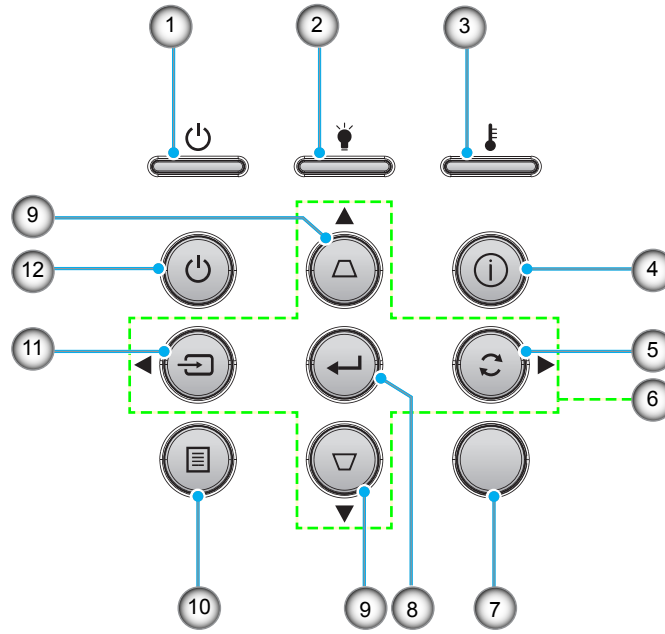
**Note:** “√” means the item is supported, “N/A” means the item is not available.

# INTRODUCTION

**Note:**

- Remote mouse requires special remote control.
- The I/Os depend on the projector you purchased, please check the physical product for reference.

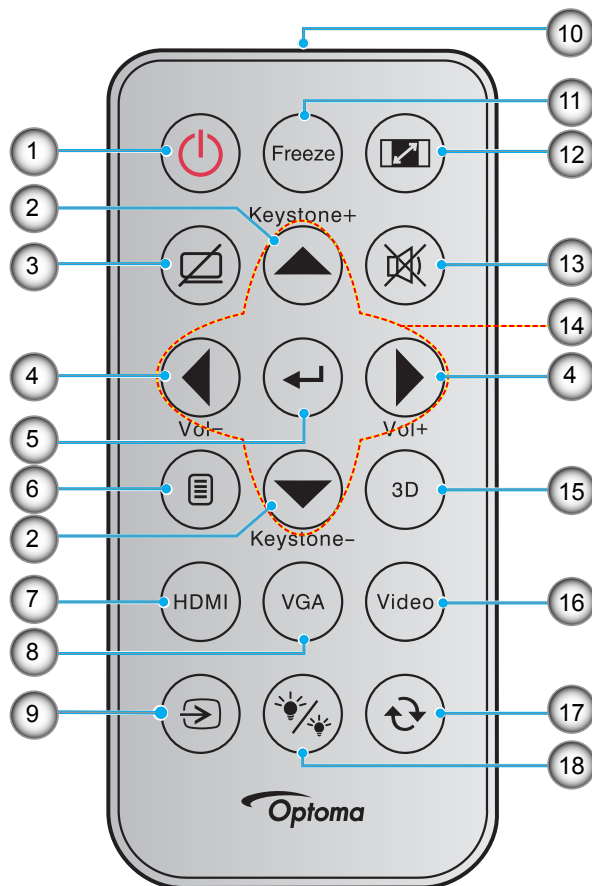
## Keypad



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

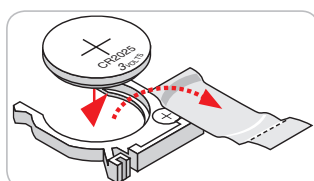
## Remote control 1



No	Item	No	Item
1.	Power On / 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.	Brightness Mode

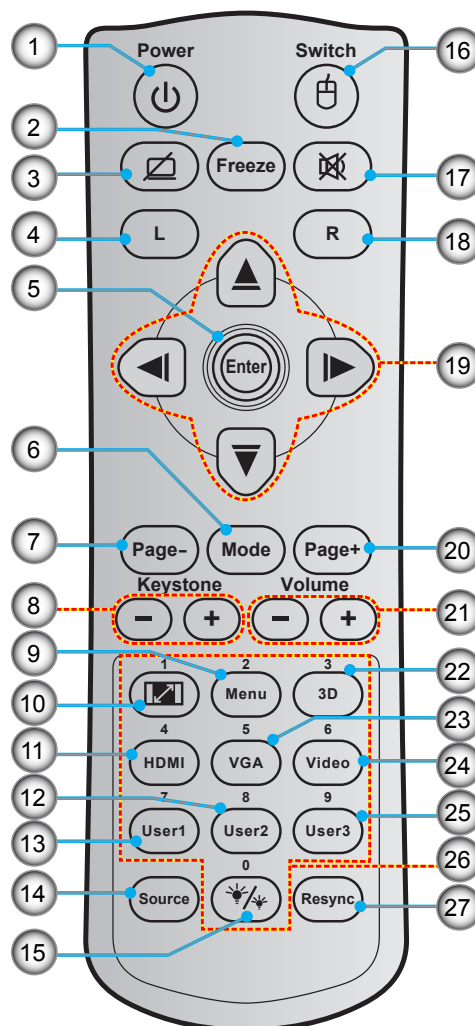
### Note:

- 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.



# INTRODUCTION

## Remote control 2



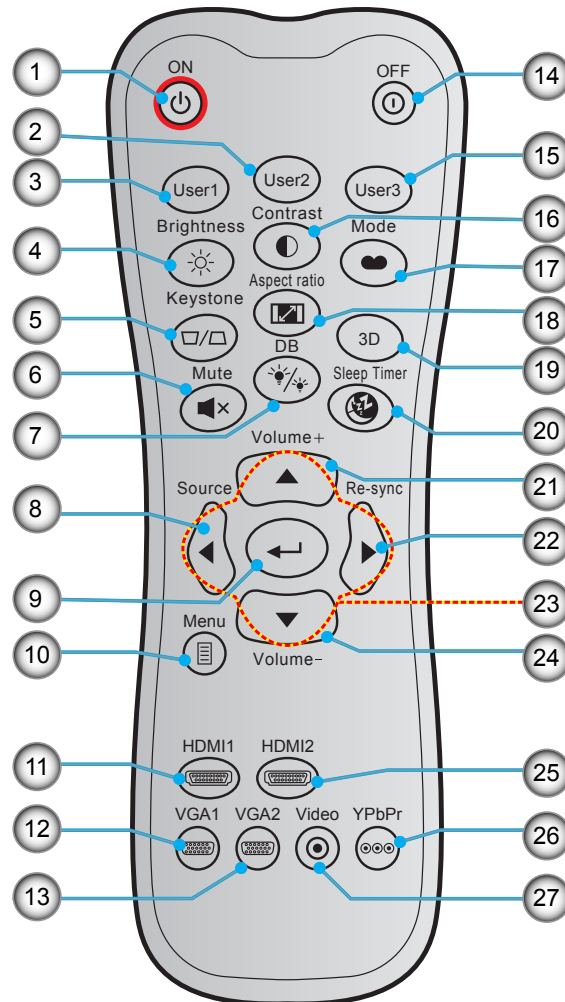
No	Item	No	Item
1.	Power On / Off	15.	Brightness Mode
2.	Freeze	16.	Mouse On / Off
3.	Display Blank / Audio Mute	17.	Mute
4.	Mouse Left Click	18.	Mouse Right Click
5.	Enter	19.	Four Directional Select Keys
6.	Mode	20.	Page +
7.	Page -	21.	Volume - / +
8.	Keystone - / +	22.	3D Menu On / Off
9.	Menu	23.	VGA
10.	Aspect Ratio	24.	Video
11.	HDMI	25.	User 3
12.	User 2	26.	Numeric Keypad (0-9)
13.	User 1	27.	Resync
14.	Source		

**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



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
12.	VGA1 (not supported)	26.	YPbPr (not supported)
13.	VGA2 (not supported)	27.	Video (not supported)
14.	Power Off		

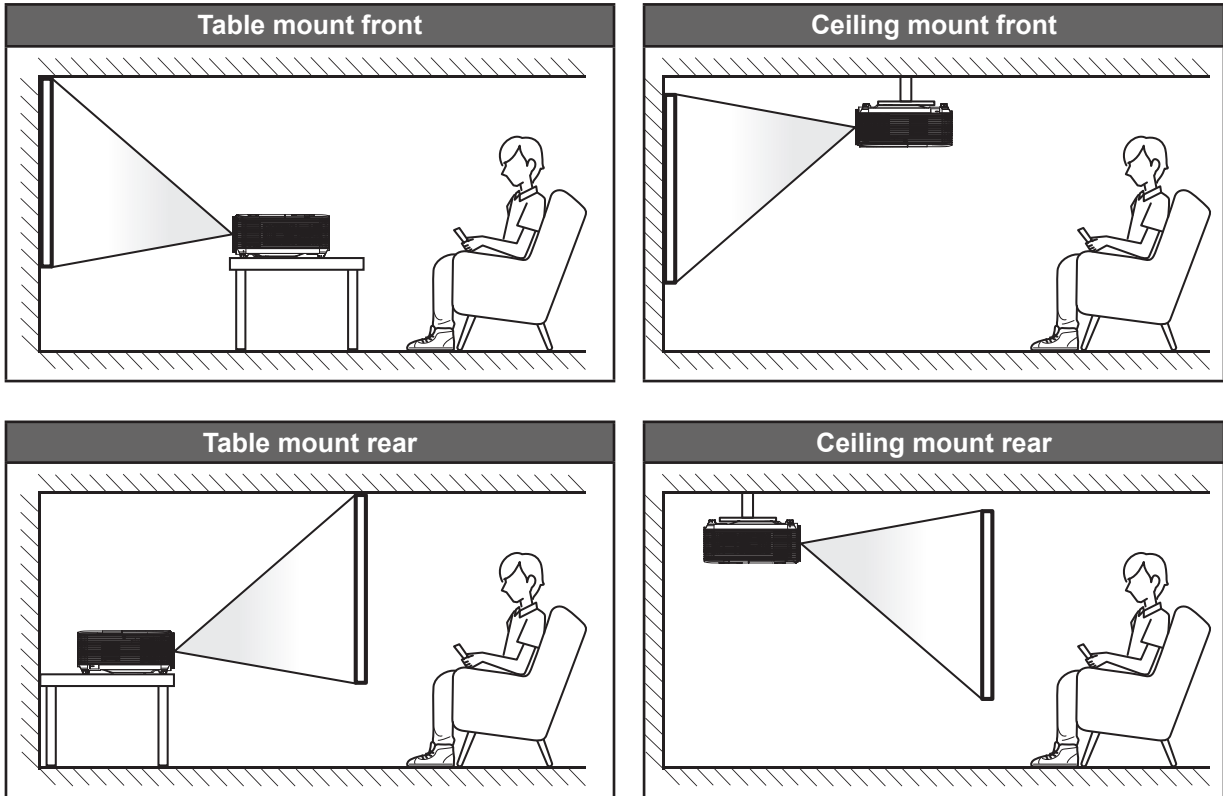
**Note:** Some keys may have no function for models that do not support these features.

# SETUP AND INSTALLATION

## Installing the projector

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

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



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

- How to determine projector location for a given screen size, please refer to distance table on pages 58-59.
- How to determine screen size for a given distance, please refer to distance table on pages 58-59.

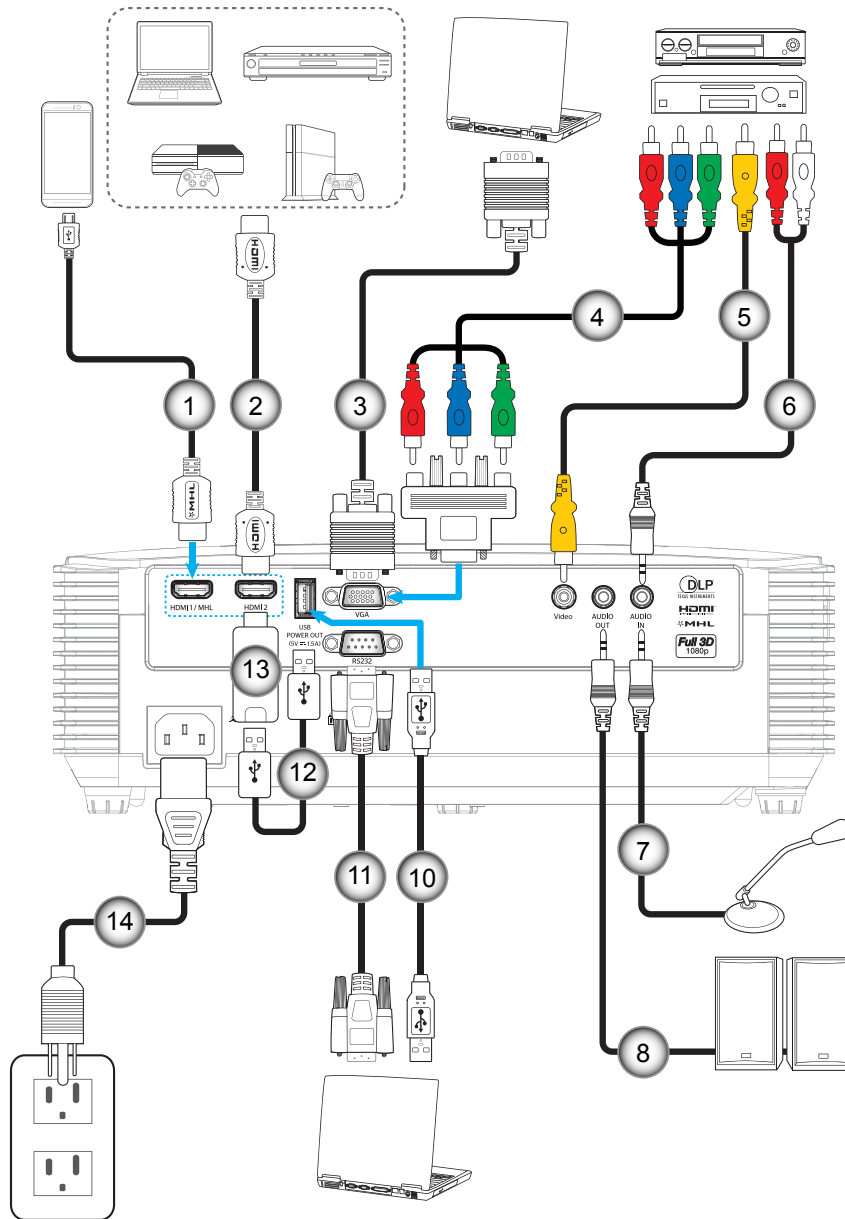
**Note:** The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.

### 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

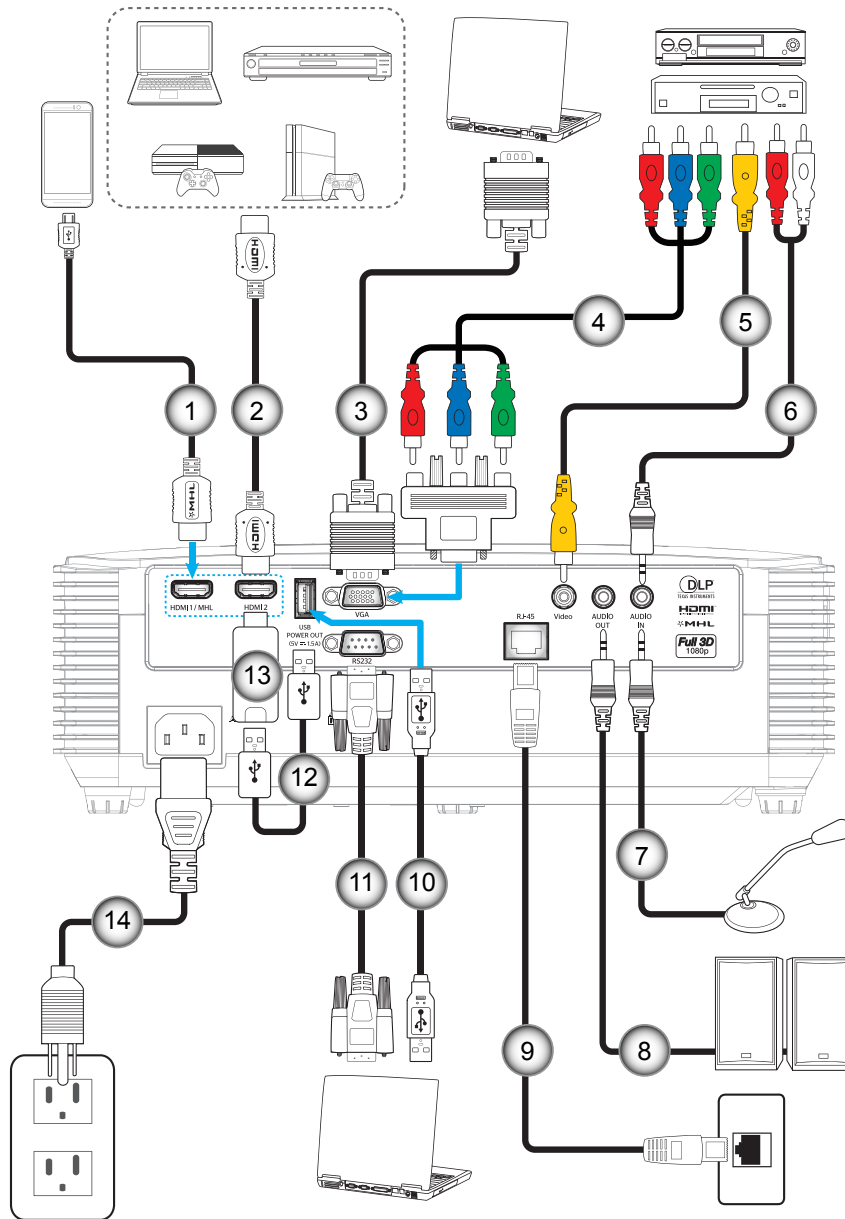
## Type 1 (8 IO)





# SETUP AND INSTALLATION

## Type 2 (9 IO)



# SETUP AND INSTALLATION

No	Item	Type 1 (8 IO)	Type 2 (9 IO)
1.	MHL Cable	√	√
2.	HDMI Cable	√	√
3.	VGA In Cable	√	√
4.	RCA Component Cable	√	√
5.	Video Cable	√	√
6.	Audio In Cable	√	√
7.	Microphone In Cable	√	√
8.	Audio Out Cable	√	√
9.	RJ-45 Cable	N/A	√
10.	USB Cable (mouse control)	√	√
11.	RS232 Cable	√	√
12.	USB Power Cable	√	√
13.	HDMI Stick	√	√
14.	Power Cord	√	√
<b>Note:</b> “√” means the item is supported, “N/A” means the item is not available.			

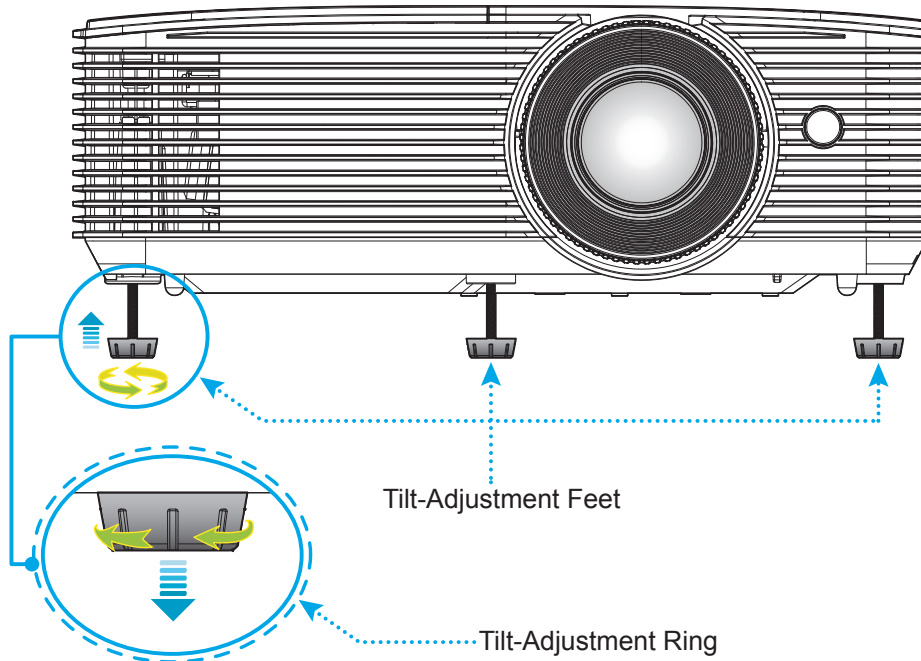
# SETUP AND INSTALLATION

## Adjusting the projector image

### Image height

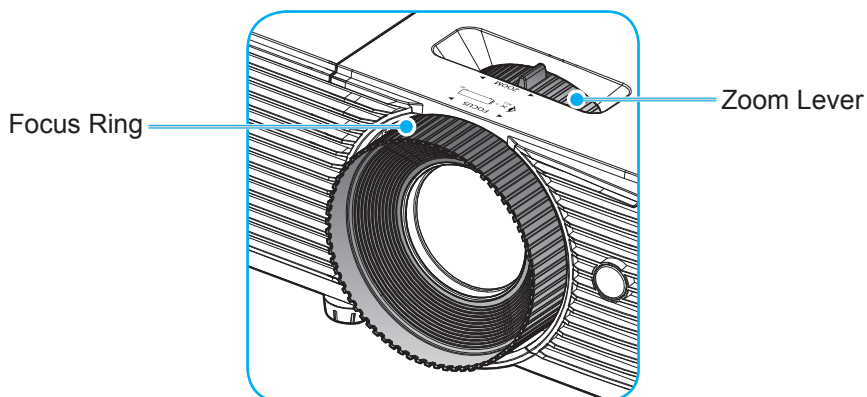
The projector is equipped with elevator feet for adjusting the image height.

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.

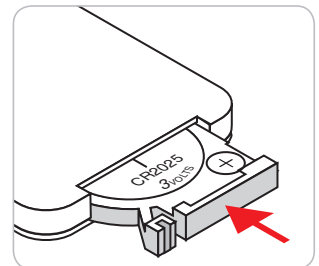
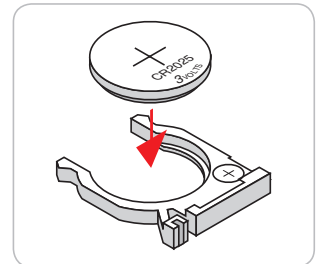
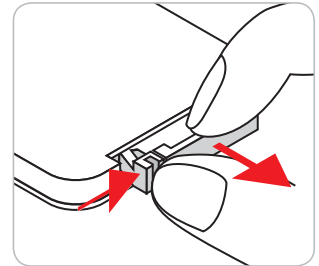


**Note:** The projector will focus at a distance of 1m to 10m.

# SETUP AND INSTALLATION

## 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.

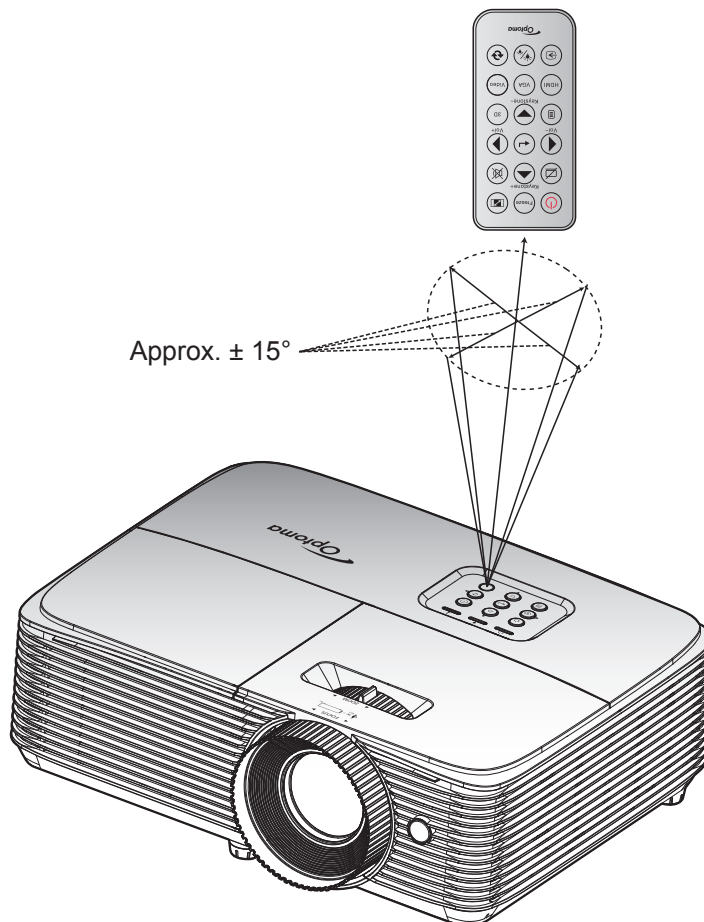
# SETUP AND INSTALLATION

## Effective range

Infra-Red (IR) remote control sensor is located on 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).

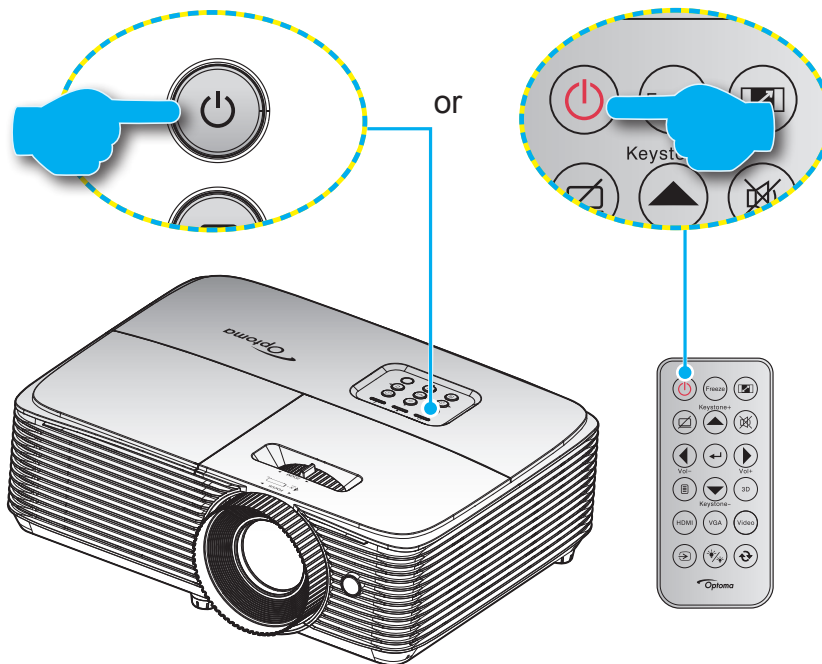
**Note:** When pointing the remote control directly (0 degrees angle) on the IR sensor, the distance between the remote control and the sensor should not be longer than 8 meters (~ 26 feet).

- 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



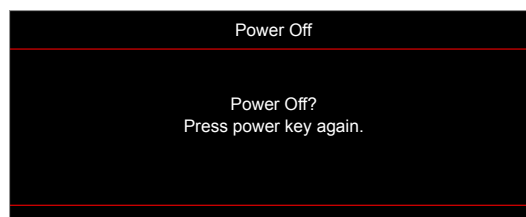
### Powering on

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 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:



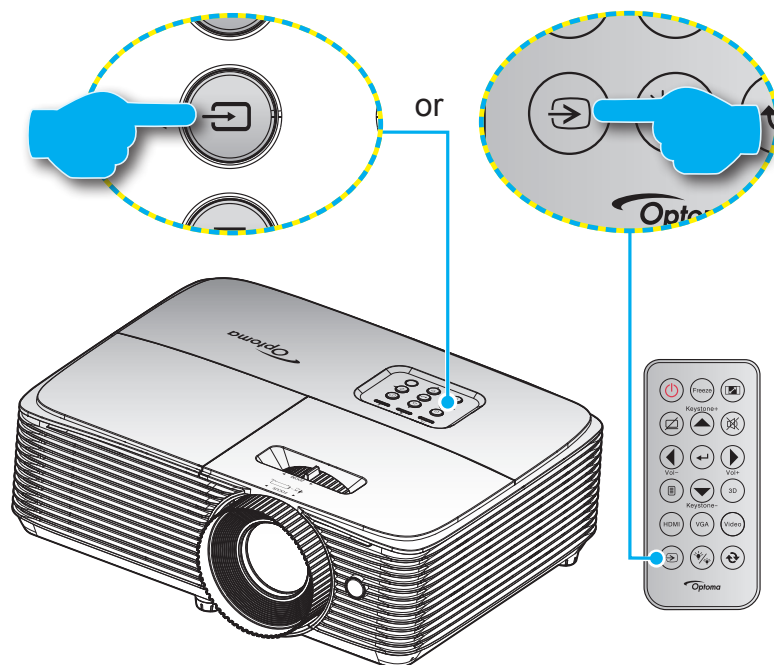
3. Press the "⏻" again to confirm, otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/Standby LED will flash green or 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.

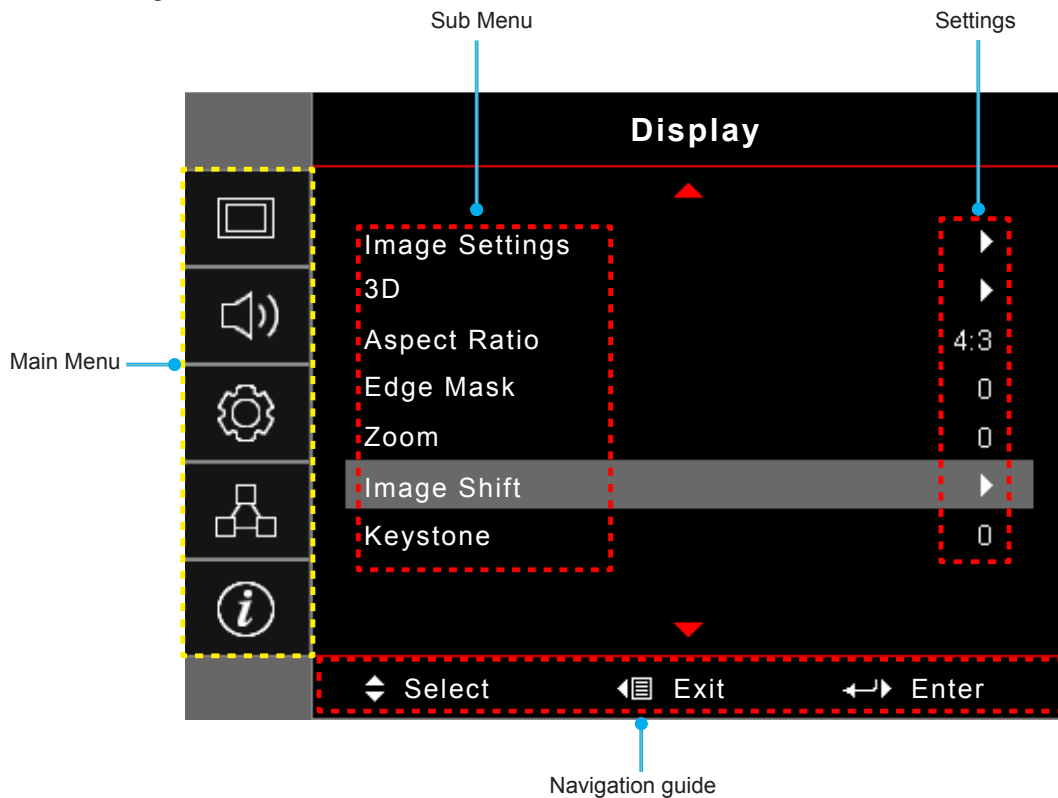


# USING THE PROJECTOR

## 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 SIM.	
					User	
					3D	
		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	[Data mode]
						Warm
			Medium			
			Cool			
Color Matching			R [Default]			
			G			
			B			
			C			
			Y			
			M			
			W			
			Hue			-50~50 [Default: 0]
Saturation			-50~50 [Default: 0]			
Gain			-50~50 [Default: 0]			

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Color Settings	Color Matching	Reset	Cancel [Default]
				Exit	Yes
			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]
			Exit	Yes	
			Color Space [Not HDMI Input]		Auto [Default]
					RGB
					YUV
			Color Space [HDMI Input]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
					YUV
			White Level	0~31 (depends on signal)	
			Black Level	-5~5 (depends on signal)	
			IRE		0
				7.5	
		Signal	Automatic		Off
					On [Default]
			Frequency	-10~10 (depends on signal) [Default: 0]	
			Phase	0~31 (depends on signal) [Default: 0]	
			H. Position	-5~5 (depends on signal) [Default: 0]	
			V. Position	-5~5 (depends on signal) [Default: 0]	
		Exit			
		Brightness Mode		[Lamp Base - Data]	Bright
					Eco.
					Dynamic
					Eco+
		Reset			

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Display	3D	3D Mode			Off	
					DLP-Link [Default]	
					IR	
		3D->2D			3D [Default]	
					L	
					R	
		3D Format			Auto [Default]	
					SBS	
					Top and Bottom	
		3D sync invert			Frame Sequential	
				On		
	Aspect Ratio				Off [Default]	
					4:3	
					16:9	
					16:10 [WUXGA model]	
					LBX	
					Native	
Edge Mask				Auto		
Zoom				0~10 [Default: 0]		
Image shift				-5~25 [Default: 0]		
	 H			-50~50 [Default: 0]		
	 V			-50~50 [Default: 0]		
Keystone				-40~40		
Audio	Mute				Off [Default]	
					On	
Volume					0-10 [Default: 5]	
Setup	Projection				Front  [Default]	
					Rear 	
					Ceiling-top 	
					Rear-top 	
	Screen Type	[WUXGA model]				16:9
						16:10 [Default]
	Lamp Settings	Lamp Reminder				Off
						On [Default]
		Lamp Reset				Cancel [Default]
						Yes

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values		
Setup	Filter Settings	Optional Filter Installed			Yes		
					No		
		Filter Usage Hours				(Read only)	
						Off	
		Filter Reminder				300hr	
						500hr [Default]	
						800hr	
						1000hr	
		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]	
						0~990 (30 min increments) [Default: 0]	
		Sleep Timer (min)	Always On			No [Default]	
						Yes	
		Quick Resume				Off [Default]	
						On	
		Power Mode (Standby)				Active	
						Eco [Default]	
	USB Power				Off		
					On		
	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		
Power Off Link					Device --> PJ		
					Off		
				On			






# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Setup	Test Pattern				Green Grid	
					Magenta Grid	
					White Grid	
					White	
					Off	
	Remote Settings [depends on remote]	IR Function				On
						Off
		User1				HDMI 2
						Test Pattern
						LAN (Type 2 (9 IO) only)
						Brightness
						Contrast
						Sleep Timer [Default]
						Color Matching
						Color Temp
						Gamma
						Projection
						Lamp Settings
						Zoom
						Freeze
					MHL	
		User2				HDMI 2
						Test Pattern
						LAN (Type 2 (9 IO) only)
						Brightness
						Contrast
						Sleep Timer
						Color Matching [Default]
						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	
					LAN (Type 2 (9 IO) only)	
					Brightness	
					Contrast	
					Sleep Timer	
					Color Matching	
					Color Temp [Default]	
					Gamma	
					Projection	
					Lamp Settings	
					Zoom	
					Freeze	
					MHL	
		Projector ID				0~99
		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
						한국어
						Русский
						Magyar
					Čeština	
			عربي			
			ไทย			
			Türkçe			
			فارسی			
			Tiếng Việt			
			Bahasa Indonesia			
			Română			
			Slovenčina			

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Setup	Options	Closed Captioning			CC1	
					CC2	
					Off [Default]	
		Menu Settings	Menu Location			Top left 
						Top right 
						Center  [Default]
						Bottom left 
						Bottom right 
			Menu Timer			Off
						5sec
					10sec [Default]	
		Auto Source			Off [Default]	
					On	
		Input Source			HDMI1/MHL	
					HDMI2	
					VGA	
					Video	
		Input Name	HDMI1/MHL		Default [Default]	
					Custom	
			HDMI2		Default [Default]	
					Custom	
			VGA		Default [Default]	
					Custom	
			Video		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			

# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Background Color			None [Default: for Video/Pro-AV]
					Blue [Default for Data model]
					Red
					Green
					Grey
					Logo
	Reset	Reset OSD			Cancel [Default]
		Reset to Default			Yes
Network (Type 2 (9 IO) only)	LAN	Network Status			(read only)
		MAC Address			(read only)
		DHCP			Off [Default]
					On
		IP Address			192.168.0.100 [Default]
		Subnet Mask			255.255.255.0 [Default]
		Gateway			192.168.0.254 [Default]
		DNS			192.168.0.51 [Default]
	Reset				
	Control	Crestron			Off
					On [Default] <b>Note:</b> Port 41794.
		Extron			Off
					On [Default] <b>Note:</b> Port 2023.
		PJ Link			Off
					On [Default] <b>Note:</b> Port 4352
AMX Device Discovery				Off	
			On [Default] <b>Note:</b> Port 9131		
Telnet			Off		
			On [Default] <b>Note:</b> Port 23		
HTTP			Off		
			On [Default] <b>Note:</b> Port 80		



# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Information	Regulatory					
	Serial Number					
	Source					
	Resolution				00x00	
	Refresh Rate				0.00Hz	
	Display Mode					
	Power mode (Standby)					
	Lamp Hours	Bright				0 hr
		Eco.				0 hr
		Dynamic				0 hr
		Eco+				0 hr
		Total				
	Network Status					
	IP Address					
	Projector ID				00~99	
	Filter Usage Hours					
	Brightness Mode					
	FW Version	System				
LAN						
MCU						

**Note:**

- The “Lamp Reset” in OSD will only reset both Lamp Hours in OSD and Lamp Hours in service mode. The Projection Hours in service mode will not be reset.
- 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

### Display image settings menu

#### Display Mode (Data mode)

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

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

# USING THE PROJECTOR

- **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

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 (Data mode):** Select a color temperature from Warm, Medium, or Cool.
- **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: Adjust the color balance of red and green.
  - Saturation: Adjust a video image from black and white to fully saturated color.
  - 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.

# USING THE PROJECTOR



- **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.
- **White Level:** Allow user to adjust White Level when inputting Video signals.  
**Note:** *White level can only be adjusted for Video/S-Video input sources.*
- **Black Level:** Allow user to adjust Black Level when inputting Video signals.  
**Note:** *Black level can only be adjusted for Video/S-Video input sources.*
- **IRE:** Allow user to adjust IRE value when inputting Video signals.  
**Note:**
  - *IRE is only available with NTSC video format.*
  - *IRE can only be adjusted for Video input sources.*

## 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.

**Note:** *Signal can only be adjusted for RGB/Component input sources.*

## Brightness Mode (Lamp base data)

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.
- **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.

# USING THE PROJECTOR

## 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.

## Display aspect ratio menu

### Aspect Ratio

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

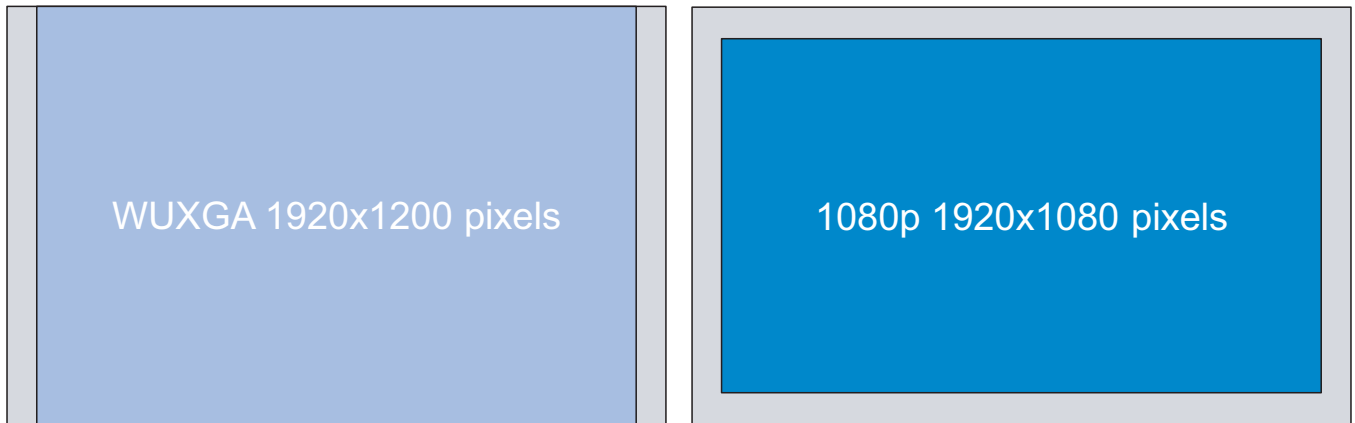
- **4:3:** This format is for 4:3 input sources.
- **16:9:** This format is for 16:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- **16:10 (WUXGA model only):** This format is for 16:10 input sources, like widescreen laptops.
- **LBX:** This format is for non-16x9, letterbox source 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.

# USING THE PROJECTOR

**Note:**

- It is considered normal that black bars appear on the right side and left side of the image with the resolution of WUXGA; and around the image with a resolution of 1080p in each aspect mode.
- The black bars and boarder will change in size depending on the aspect ratio.

- Black bars
- WUXGA active area
- 1080p active area



For projectors with a resolution of WUXGA (1920 × 1200)

Format	Aspect ratio		
	16:10	16:9	4:3
Native			
16:9			
Full			
Zoom			
Auto			

# USING THE PROJECTOR

**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.*

**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.				
Auto	-If this format is selected, screen type will auto become 16:9 (1920x1080). -If source is 4:3, auto resize to 1440 x1080. -If source is 16:9 auto resize to 1920x1080. -If source is 16:10 auto resize to 1920x1200 and cut 1920x1080 area to display.				

**1080P auto mapping rule:**

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

# USING THE PROJECTOR

## WUXGA scaling table (screen type 16:10):

### Note:

- Supported screen type 16:10 (1920 x 1200), 16:9 (1920x1080).
- When screen type is 16:9 there is no 16x10 format in this condition.
- When screen type is 16:10 there is no 16x9 format in this condition.
- If user change to auto, will auto change the display mode at same time.

16 : 10 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1600x1200.				
16x9	Scale to 1920x1080.				
16x10	Scale to 1920x1200.				
LBX	Scale to 1920x1440, then get the central 1920x1200 image to display.				
Native mode	-1:1 mapping centered. -No scaling will be made; the resolution is dependent on which input source and is then displayed.				
Auto	-If this format is select, screen type will auto become 16:10 (1920x1200). -If source is 4:3, auto resize to 1600x1200. -If source is 16:9 auto resize to 1920x1080. -If source is 16:10 auto resize to 1920x1200.				

## WUXGA auto mapping rule (screen type 16:10):

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1920	1200
4:3	640	480	1600	1200
	800	600	1600	1200
	1024	768	1600	1200
	1280	1024	1600	1200
	1400	1050	1600	1200
	1600	1200	1600	1200
Wide Laptop	1280	720	1920	1080
	1280	768	1920	1152
	1280	800	1920	1200
SDTV	720	576	1350	1080
	720	480	1620	1080
HDTV	1280	720	1920	1080
	1920	1080	1920	1080

# USING THE PROJECTOR

## WUXGA scaling table (screen type 16:9):

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 resolution is dependent on which input source and is then displayed.				
Auto	-If this format is select, Screen type will auto become 16:9 (1920x1080). -If source is 4:3, auto resize to 1440x1080. -If source is 16:9 auto resize to 1920x1080. -If source is 16:10 auto resize to 1920x1200 and cut 1920x1080 area to display.				

## WUXGA auto mapping rule (screen type 16:9):

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

## 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).



# USING THE PROJECTOR

## Display keystone menu

### Keystone

Adjust the image distortion caused by tilting 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 screen type menu

#### Screen Type (for WUXGA model 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.

# USING THE PROJECTOR

## 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.

### 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

**Note:** The fans will still run in active standby if “Signal Power On” is enabled.

## 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.

## 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.

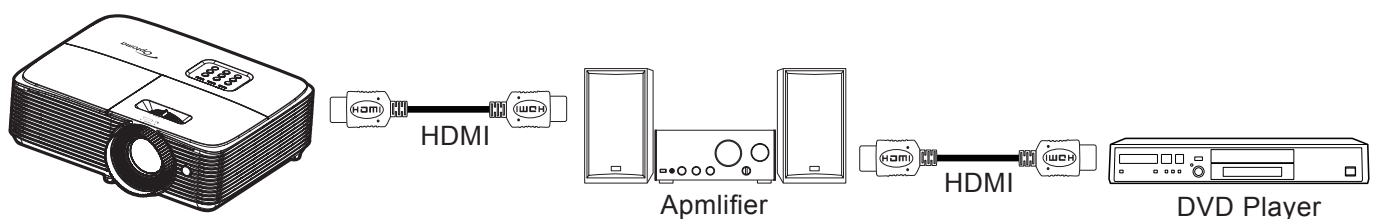
### Change Password

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.

# USING THE PROJECTOR

## Power Off Link

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

## 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 (Type 1)

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.

### User1/ User2/ User3 (Type 2)

Assign the default function for User1, User2, or User3 between HDMI 2, test pattern, LAN, 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".



**Note:** *Closed Captioning is only available for Video NTSC.*

### Menu Settings

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

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

### Auto Source

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

# USING THE PROJECTOR

## Input Source

Select the input source between HDMI1/MHL, HDMI2, VGA, and Video.

## Input Name

Use to rename the input function for easier identification. The available options include HDMI1/MHL, HDMI2, VGA, and Video.

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

## Logo

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

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

## Background Color

Use this function to display a blue, red, green, grey color, 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.

## ***Network menu (Type 2)***

## Network LAN menu

### Network Status

Display the network connection status (read-only).

### MAC Address

Display the MAC address (read-only).

# USING THE PROJECTOR

## DHCP

Use this option to enable or disable the DHCP function.

- **On:** Projector will obtain an IP address automatically from your network.
- **Off:** To assign IP, subnet mask, gateway, and DNS configuration manually.

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

## IP Address

Display the IP address.

## Subnet Mask

Display subnet mask number.

## Gateway

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

## DNS

Display the DNS number.

## How to use web browser to control your projector

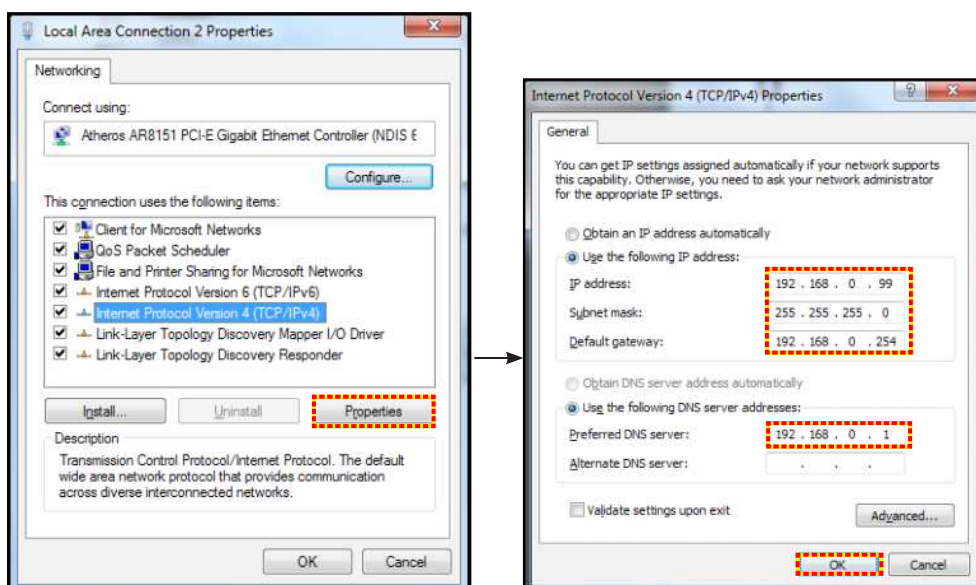
1. Turn “On” the DHCP option on projector to allow a DHCP server to automatically assign an IP address.
2. Open the web browser in your PC and type in the projector’s IP address (“Network > LAN > IP Address”).
3. Enter the user name and password, and click “Login”.  
The projector’s configuration web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

### **Note:**

- *The default user name and password is “admin”.*
- *The steps in this section is based on Windows 7 operating system.*

## Making a direct connection from your computer to the projector\*

1. Turn “Off” the DHCP option on the projector.
2. Configure the IP address, Subnet Mask, Gateway, and DNS on projector (“Network > LAN”).
3. Open **Network and Sharing Center** page on your PC, and assign the identical network parameters to your PC as set on projector. Click “OK” to save the parameters.



4. Open the web browser on your PC and type in to the URL field the IP address, assigned in step 3. Then press “Enter” key.

# USING THE PROJECTOR

## Reset

Reset all values for LAN parameters.

## Network control menu

### Crestron

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

For more information, please visit <http://www.crestron.com> and [www.crestron.com/getroomview](http://www.crestron.com/getroomview).

### Extron

Use this function to select the network function (port: 2023).

### PJ Link

Use this function to select the network function (port: 4352).

### AMX Device Discovery

Use this function to select the network function (port: 9131).

### Telnet

Use this function to select the network function (port: 23).

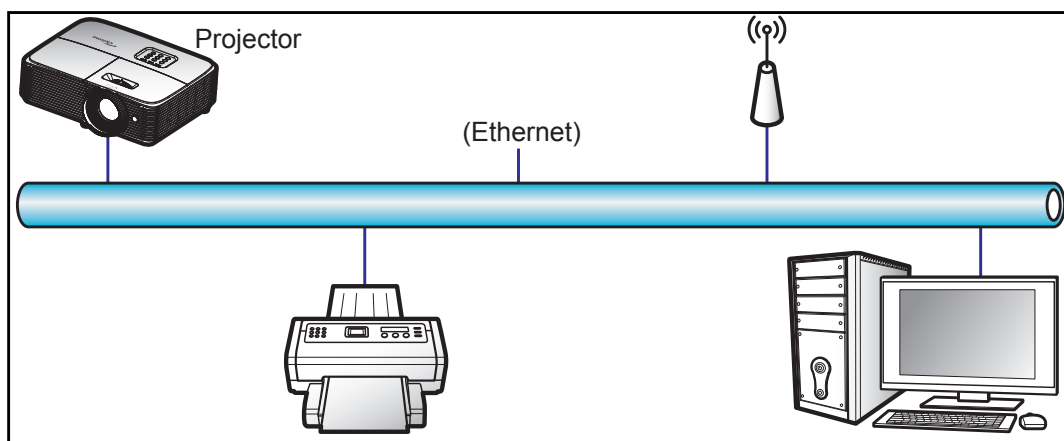
### HTTP

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

## Setup network control settings menu

### LAN\_RJ45 function

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



### Wired LAN terminal functionalities

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

- Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
- Extron is a registered trademark of Extron Electronics, Inc. of the United States.
- AMX is a registered trademark of AMX LLC of the United States.

# USING THE PROJECTOR

- PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA.

The projector is supported by the specified commands of the Crestron Electronics controller and related software, for example RoomView®.

<http://www.crestron.com/>

This projector is compliant to support Extron device(s) for reference.

<http://www.extron.com/>

This projector is supported by AMX ( Device Discovery ).

<http://www.amx.com/>

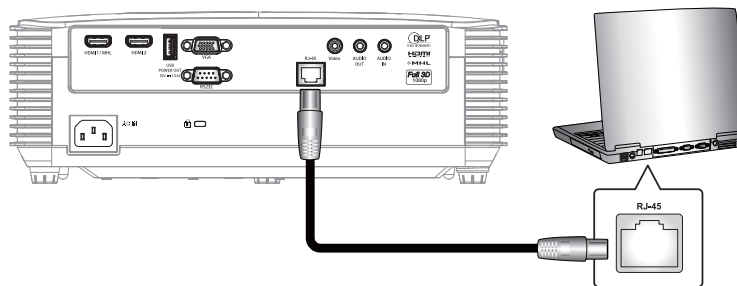
This projector supports all commands of PJLink Class1 (Version 1.00).

<http://pjlink.jbmia.or.jp/english/>

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

## LAN RJ45

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



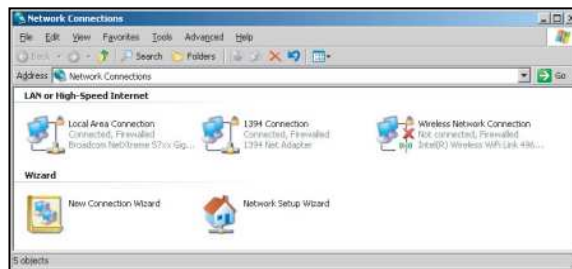
2. On the PC (Laptop), select **Start > Control Panel > Network Connections**.



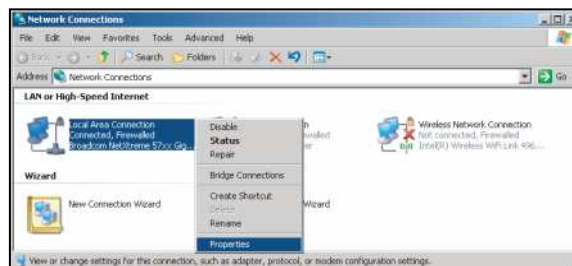


# USING THE PROJECTOR

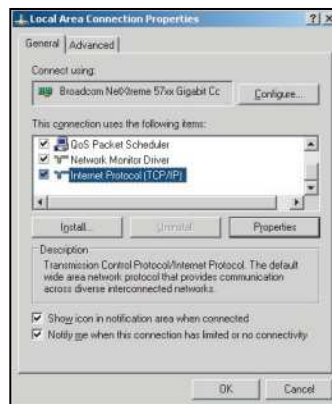
3. Right-click on the **Local Area Connection**, and select **Property**.



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



5. Click "Properties".



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



7. Press the "Menu" button on the projector.

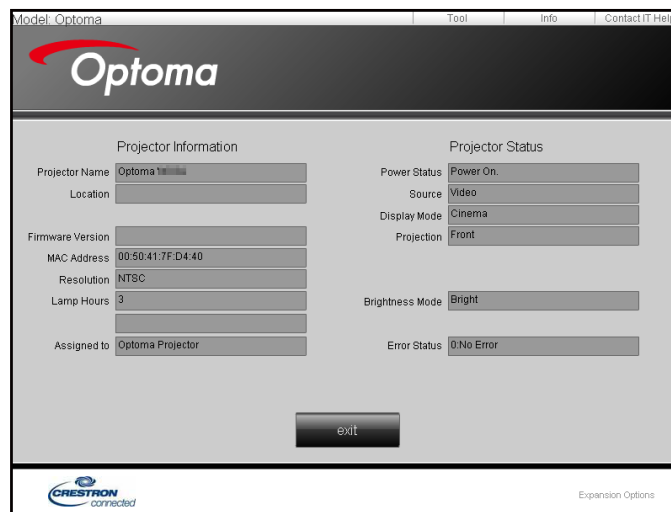
# USING THE PROJECTOR

8. Open on projector **Network > LAN**.
9. Enter the following connection parameters:
  - DHCP: Off
  - IP Address: 192.168.0.100
  - Subnet Mask: 255.255.255.0
  - Gateway: 192.168.0.254
  - DNS: 192.168.0.1
10. Press “Enter” to confirm settings.
11. Open a web browser, for example Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher installed.
12. In the Address bar, input the projector’s IP address: 192.168.0.100.



13. Press “Enter”.  
The projector is setup for remote management. The LAN / RJ45 function displays as follows:

## Information page

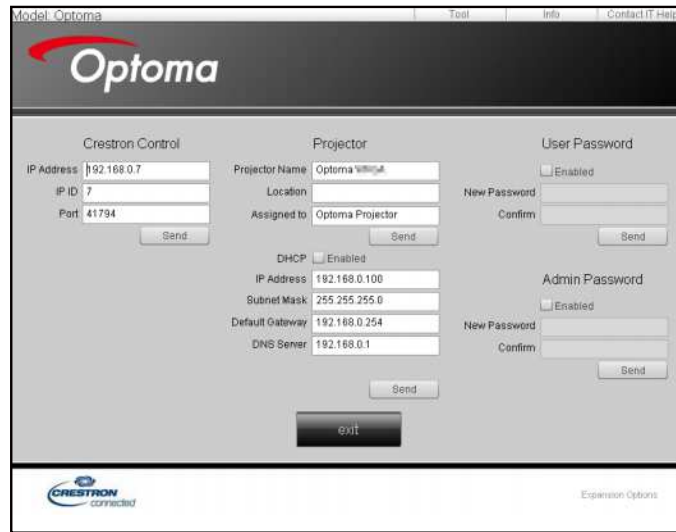


## Main page



# USING THE PROJECTOR

Tool page



Contact IT helpdesk



## RS232 by Telnet Function

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

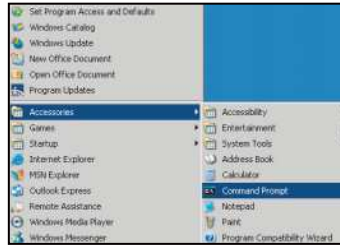
### Quick Start-Guide for “RS232 by Telnet”

- Check and get the IP address on OSD of the projector.
- Make sure that the PC / laptop can access the web-page of the projector.
- Make sure that “Windows Firewall” setting is set disabled in case of “TELNET” function filtering out by PC / laptop.



# USING THE PROJECTOR

1. Select **Start > All Programs.> Accessories > Command Prompt.**



2. Input the command format as follows:
  - telnet ttt.xxx.yyy.zzz 23 (“Enter” key pressed)
  - (ttt.xxx.yyy.zzz: IP-Address of the projector)
3. If Telnet-Connection ready, and user can have RS232 command input, then “Enter” key pressed, the RS232 command will be workable.

## Specification for “RS232 by TELNET”:

1. Telnet: TCP.
2. Telnet port: 23 (for more detail, kindly please get contact with the service agent or team).
3. Telnet utility: Windows “TELNET.exe” (console mode).
4. Disconnection for RS232-by-Telnet control normally: Close
5. Windows Telnet utility directly after TELNET connection ready.
  - Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.
  - Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.
  - Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

## *Info menu*

### **Info menu**

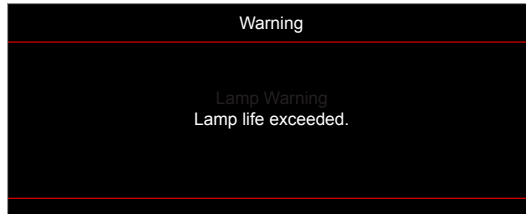
View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Power Mode (Standby)
- Lamp Hours
- Network Status (Type 2 only)
- IP Address
- Projector ID
- Filter Usage Hours
- Brightness Mode
- FW Version

# MAINTENANCE

## Replacing the lamp

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



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.



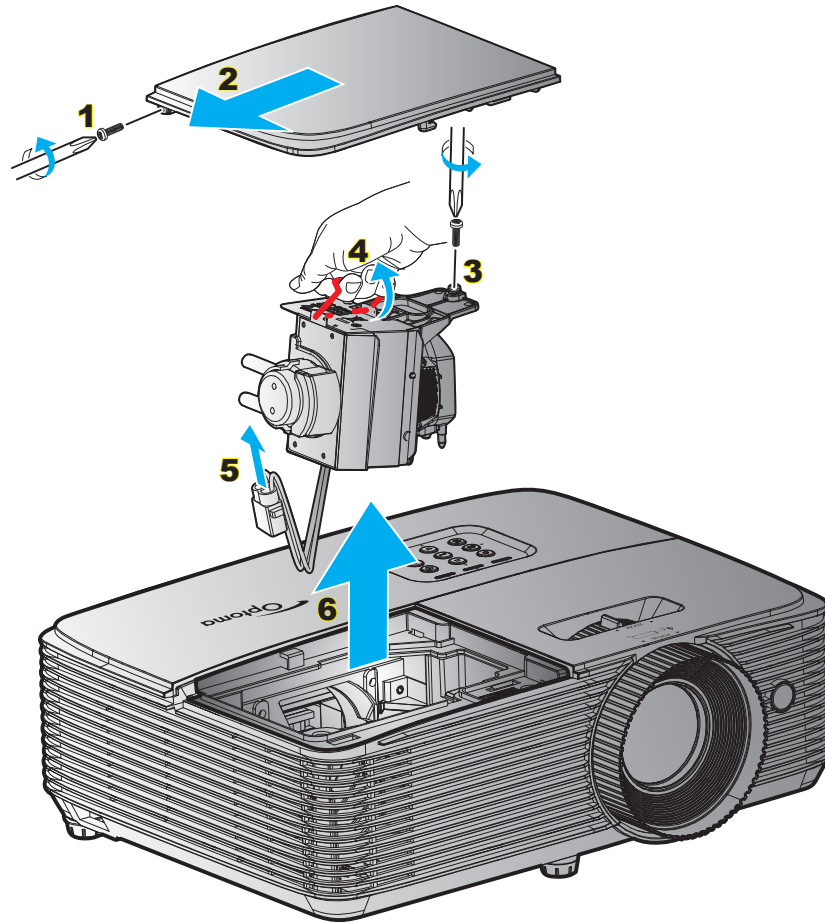
Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



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".

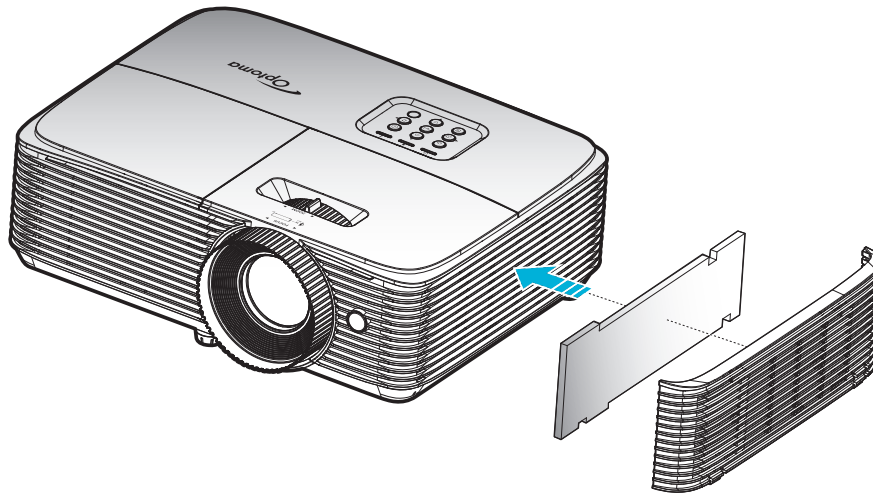
### Note:

- *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



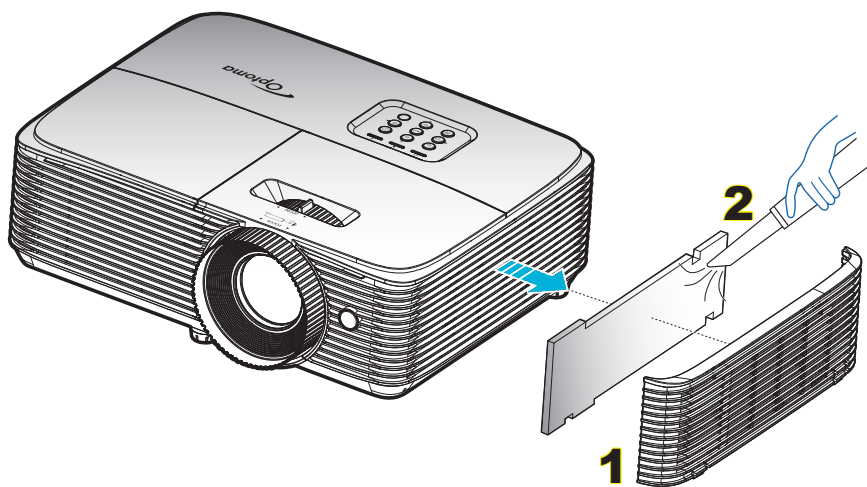
**Note:** Dust filters are only required/supplied in the selected regions with excessive dust.

### 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:	640x480p @ 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	WUXGA: 1920x1200 @ 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 and WUXGA:			
	1280x720 @ 60Hz			
	1280x800 @ 60Hz			
	1280x1024 @ 60Hz			
	1400x1050 @ 60Hz			
	1600x1200 @ 60Hz			
	1440x900 @ 60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

### 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	WUXGA: 1920x1200 @ 60Hz		
800x600 @ 56Hz	1680x1050 @ 60Hz			
800x600 @ 60Hz	1280x720 @ 60Hz			
800x600 @ 72Hz	1280x720 @ 120Hz			
800x600 @ 75Hz	1600x1200 @ 60Hz			



# ADDITIONAL INFORMATION

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
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 and WUXGA:			
	1280x720 @ 60Hz			
	1280x800 @ 60Hz			
	1280x1024 @ 60Hz			
	1400x1050 @ 60Hz			
	1600x1200 @ 60Hz			
	1440x900 @ 60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

## True 3D video compatibility

Input resolution	Input timing		
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	
	1920x1080i @ 50Hz	Side-by-Side(Half)	SBS mode is on
	1920x1080i @ 60Hz		
	1280x720P @ 50Hz		
	1280x720P @ 60Hz		
	800x600 @ 60Hz		
	1280x800 @ 60Hz	Top-and-Bottom	TAB mode is on
	1920x1080i @ 50Hz		
	1920x1080i @ 60Hz		
	1280x720P @ 50Hz		
	1280x720P @ 60Hz		
800x600 @ 60Hz			
1024x768 @ 60Hz	HQFS	3D format is Frame sequential	
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

WUXGA

Desired Distance (m)	Screen size		Top	Screen size		Top
	(Min zoom)			(Max zoom)		
	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)
1.2	27.06	58 x 36	40	35	76 x 47	52
2	45	97 x 61	67	59	126 x 79	87
2.5	56	121 x 76	83	73	158 x 99	109
3	68	146 x 91	100	88	190 x 118	130
3.5	79	170 x 106	117	103	221 x 138	152
4	90	194 x 121	134	117	253 x 158	174
5	113	243 x 152	167	147	316 x 197	217
6	135	291 x 182	200	176	379 x 237	261
7	158	340 x 212	234	205	442 x 276	304
8	180	389 x 243	267	235	505 x 316	347
9	203	437 x 273	301	264	569 x 355	391
10.2	230	495 x 310	341	299.15	644 x 403	443

**Note:** Zoom ratio is 1.3x.

Desired image size		Distance (m)		Top (cm)
Diagonal (inch)	W (cm) x H (cm)	Max zoom	Min zoom	From base to top of image
34	73 x 46	1.2	1.5	50
50	108 x 67	1.7	2.2	74
60	129 x 81	2.0	2.7	89
70	151 x 94	2.4	3.1	104
80	172 x 108	2.7	3.5	118
90	194 x 121	3.1	4.0	133
100	215 x 135	3.4	4.4	148
120	258 x 162	4.1	5.3	178
150	323 x 202	5.1	6.7	222
200	431 x 269	6.8	8.9	296
250	538 x 337	8.5	11.1	370
300	646 x 404	10.2	13.3	444

**Note:** Zoom ratio is 1.3x.

# ADDITIONAL INFORMATION

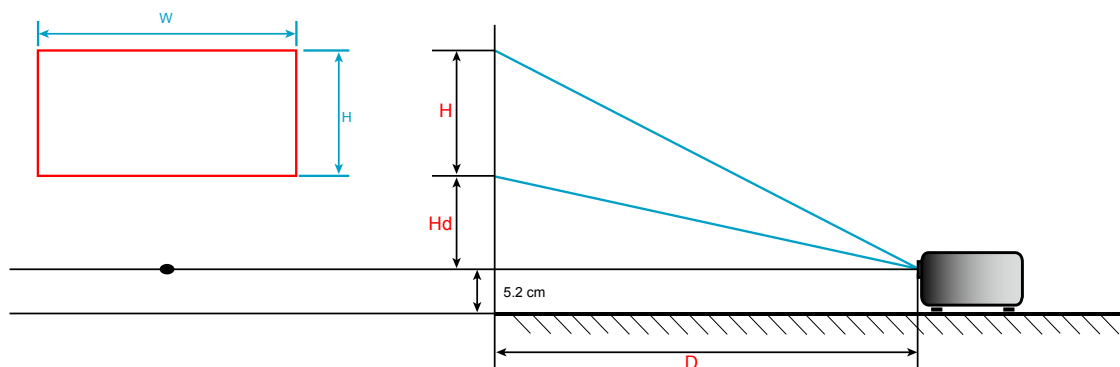
1080p

Desired Distance (m)	Screen size		Top	Screen size		Top
	(Min zoom)			(Max zoom)		
	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)
1.2	26.33	58 x 33	38	34	76 x 43	49
2	44	97 x 55	63	57	126 x 71	82
2.5	55	121 x 68	79	71	158 x 89	103
3	66	146 x 82	95	86	190 x 107	124
3.5	77	170 x 96	111	100	221 x 124	144
4	88	194 x 109	127	114	253 x 142	165
5	110	243 x 137	158	143	316 x 178	206
6	132	291 x 164	190	171	379 x 213	247
7	154	340 x 191	222	200	442 x 249	289
8	176	389 x 219	254	228	505 x 284	330
9	197	437 x 246	285	257	569 x 320	371
10.5	230	510 x 287	333	299.62	663 x 373	433

**Note:** Zoom ratio is 1.3x.

Desired image size		Distance (m)		Top (cm)
Diagonal (inch)	W (cm) x H (cm)	Max zoom	Min zoom	From base to top of image
34	75 x 42	1.2	1.5	49
50	111 x 62	1.8	2.3	72
60	133 x 75	2.1	2.7	87
70	155 x 87	2.5	3.2	101
80	177 x 100	2.8	3.6	116
90	199 x 112	3.2	4.1	130
100	221 x 125	3.5	4.6	144
120	266 x 149	4.2	5.5	173
150	332 x 187	5.3	6.8	217
200	443 x 249	7.0	9.1	289
250	553 x 311	8.8	11.4	361
300	664 x 374	10.5	13.7	433

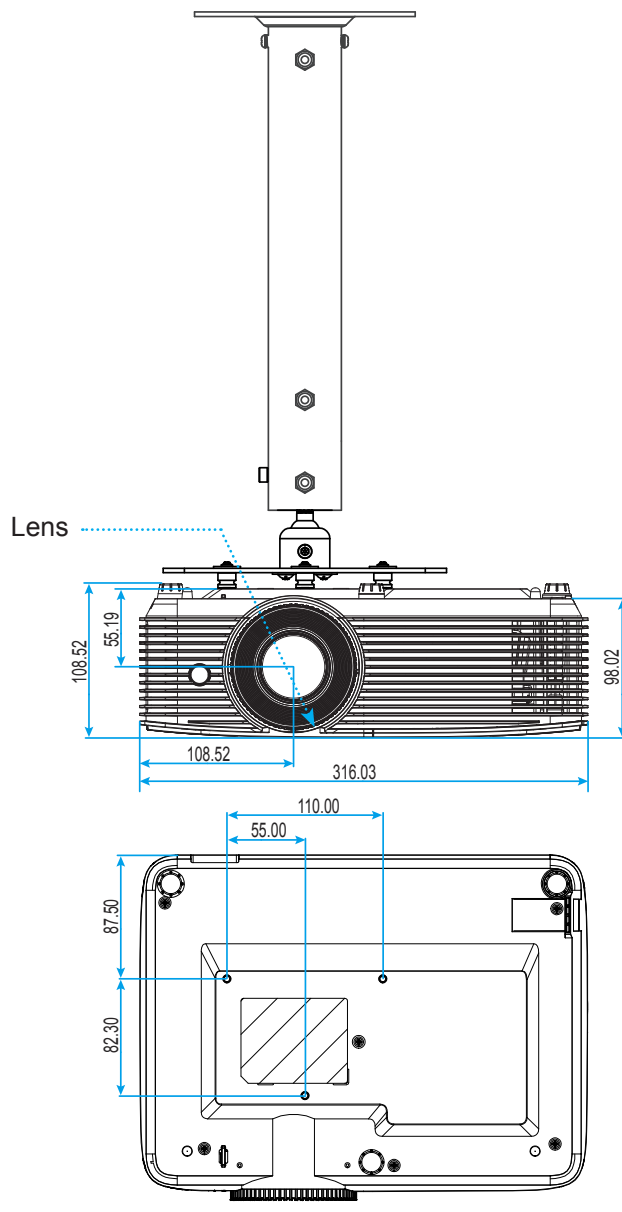
**Note:** Zoom ratio is 1.3x.



# 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.

## IR remote control 1 codes



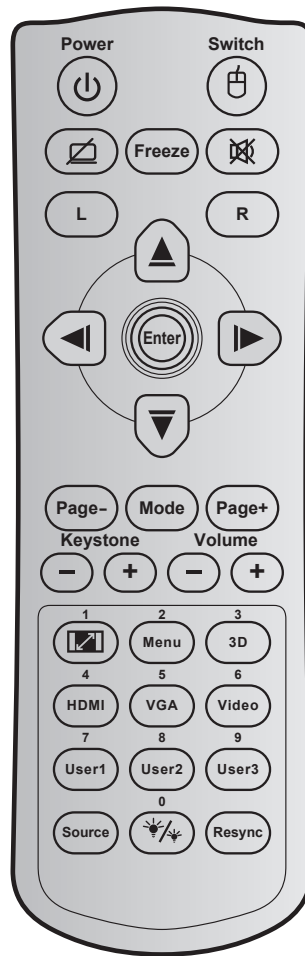
Key legend	Description	Key code
Power	Press to turn on / off the projector.	81
Freeze	Press to freeze the projector image.	8B
Aspect	Press to change aspect ratio of a displayed image.	98
AV mute	Press to turn off/ on projector built-in speaker	8A
Keystone+/up	<ul style="list-style-type: none"> <li>Press to adjust image distortion caused by tilting the projector.</li> <li>Press to navigate up.</li> </ul>	C6
Mute	Press to momentarily turn off / on the audio.	92
Left/Vol-	<ul style="list-style-type: none"> <li>Press to adjust to decrease the volume.</li> <li>Press to navigate left.</li> </ul>	C8
Enter	Confirm your item selection.	-C5 (for OSD) -CA (for emulation of USB mouse via USB)
Right/Vol+	<ul style="list-style-type: none"> <li>Press to adjust to increase the volume.</li> <li>Press to navigate right.</li> </ul>	C9
Menu	Press to display or exit the on-screen display menus for projector.	88
Down/Keystone-	<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>	C7
3D	Press to manually select a 3D mode that matches your 3D content.	93
HDMI	Press to choose HDMI source.	86
VGA	Press to choose VGA source.	8E
Video	Press to choose video source.	CE

# ADDITIONAL INFORMATION

Key legend		Description	Key code
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

## IR remote control 2 codes



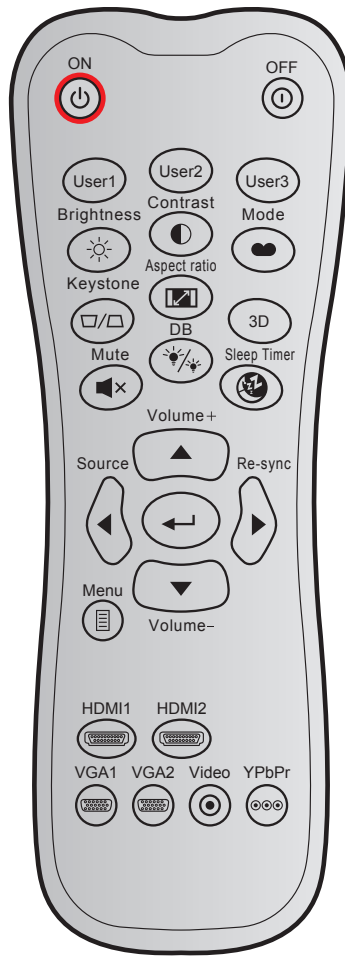
Key	Key code	Printing-key definition	Description
Power	81	Power on/off	Press to turn on / off the projector.
Switch	3E	Switch	Press to switch the USB mouse on / off.
Display blank / audio mute	8A		Press to hide / unhide the screen picture and turn off / on audio.
Freeze	8B	Freeze	Press to freeze the projector image.
Mute	92		Press to momentarily turn off / on the audio.
Mouse left click	CB	L	Use as mouse left click.
Mouse right click	CC	R	Use as mouse right click.
Four directional select keys	C6	Up arrow	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
	C8	Left arrow	
	C9	Right arrow	
	C7	Down arrow	
Enter	C5	Enter	Confirm your item selection.
	CA	Enter	
Page -	C2	Page-	Press to page down.

# ADDITIONAL INFORMATION

Key		Key code	Printing-key definition	Description
Mode		95	Mode	Press to switch Display mode on or off.
Page +		C1	Page+	Press to page up.
Keystone		85	Keystone+	Press to adjust image distortion caused by tilting the projector.
		84	Keystone-	
Volume		8C	Volume +	Press to adjust to increase / decrease the volume.
		8F	Volume -	
Aspect ratio / 1		98	/ 1	<ul style="list-style-type: none"> <li>Press to change aspect ratio of a displayed image.</li> <li>Use as numeric keypad number "1".</li> </ul>
Menu / 2		88	Menu/2	<ul style="list-style-type: none"> <li>Press to display or exit the on-screen display menus for projector.</li> <li>Use as numeric keypad number "2".</li> </ul>
3D / 3		93	3D/3	<ul style="list-style-type: none"> <li>Press to manually select a 3D mode that matches your 3D content.</li> <li>Use as numeric keypad number "3".</li> </ul>
HDMI / 4		86	HDMI/4	<ul style="list-style-type: none"> <li>Press to choose HDMI source.</li> <li>Use as numeric keypad number "4".</li> </ul>
VGA / 5		D0	VGA/5	<ul style="list-style-type: none"> <li>Press to choose VGA source.</li> <li>Use as numeric keypad number "5".</li> </ul>
Video / 6		D1	Video/6	<ul style="list-style-type: none"> <li>Press to choose composite video source.</li> <li>Use as numeric keypad number "6".</li> </ul>
User1 / 7; User2 / 8; User3 / 9		D2	User 1/7	<ul style="list-style-type: none"> <li>User defined keys. Please see page 44 to setup.</li> <li>Use as numeric keypad numbers "7", "8", and "9" accordingly.</li> </ul>
		D3	User 2/8	
		D4	User 3/9	
Source		C3	Source	Press to select an input signal.
Brightness mode / 0		96	/ 0	<ul style="list-style-type: none"> <li>Press to automatically adjust the picture brightness to give an optimum contrast performance.</li> <li>Use as numeric keypad number "0".</li> </ul>
Re-sync		C4	Re-Sync	Press to automatically synchronize the projector to the input source.

















## IR remote control 3 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 44 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 33.
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.
3D		32	CD	89	3D	Manually select a 3D mode that matches your 3D content.

# ADDITIONAL INFORMATION








Key		Custom code		Data code	Printing-key definition	Description
		Byte 1	Byte 2	Byte 3		
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 1 / MHL connector.
HDMI 2		32	CD	30	HDMI2	Press "HDMI2" to choose source from HDMI 2 connector.
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

## 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 pages 58-59).
-  *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 53-54.

## Remote control problems

### *If the remote control does not work*

- Check the operating angle of the remote control is pointed within  $\pm 15^\circ$  to the IR receiver on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 6 m (20 ft) of the projector.
- Make sure batteries are inserted correctly.
- Replace batteries if they are exhausted.

## Warning indicators





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

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

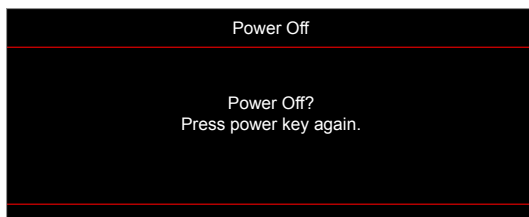
Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up or flash, please contact your nearest service center for assistance.

# ADDITIONAL INFORMATION

## LED lightning messages

Message	 Power LED	 Power LED	 Temp-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 & 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 on)		
Error (Lamp fail)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over Temp)	Flashing		Steady light	
Standby State (Burn in mode)	Flashing (0.5 sec off / 0.5 sec on)	Flashing (0.5 sec off / 0.5 sec on)	Flashing (0.5 sec off / 0.5 sec on)	Flashing (0.5 sec off / 0.5 sec on)
Burnin (Warming)		Flashing		
Burnin (Cooling)		Flashing		
Power On (Burn in Mode)		Flashing (0.5 sec off / 0.5 sec on)		

- Power off:

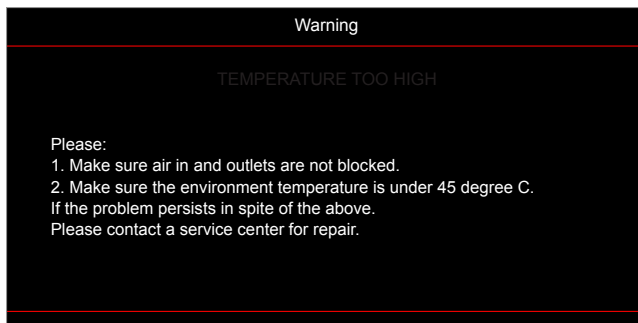


- Lamp warning:

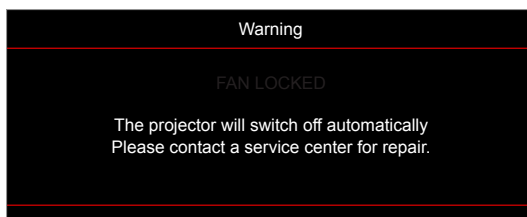


# ADDITIONAL INFORMATION

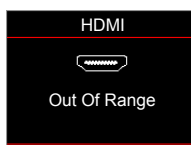
- Temperature warning:



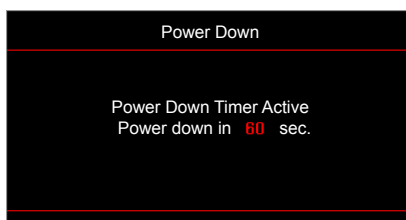
- Fan failed:



- Out of display range:



- Power down warning:



- Security timer alarm:



# ADDITIONAL INFORMATION

## Specifications

Optical	Description
Native resolution	1080p/WUXGA
Lens	Manual zoom and manual focus
Image size (diagonal)	1080p: - 26"~299" WUXGA: - 27"~299"
Projection distance	1m ~ 10m (focus range)

Electrical	Description
Color reproduction	1073.4 Million color
Scan rate	- Horizontal scan rate: 15.375~91.146 KHz - Vertical scan rate: 50~ 85 Hz (120Hz for 3D feature projector)
Built-in speaker	Yes, 10W
Power requirement	100 - 240V AC 50/60Hz
Input current	2.9-1.0 A

Mechanical	Description
Installation orientation	Front, Rear, Ceiling - Top, Rear - Top
Dimensions	- 316 mm (W) x 243 mm (D) x 106 mm (H) (without feet) - 316 mm (W) x 243 mm (D) x 108.5 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.




# ADDITIONAL INFORMATION

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For service or support, please contact your local office.




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