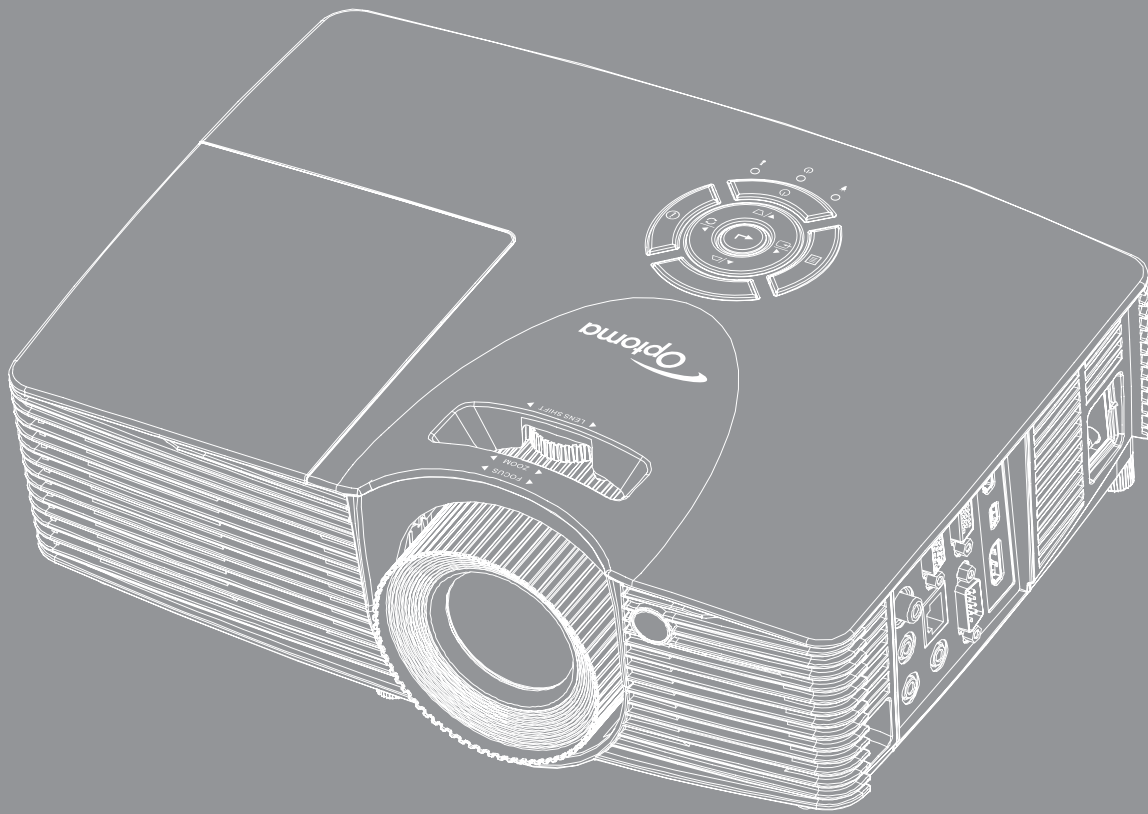




## DLP® Projector



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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 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 (refer to page 38).
- 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.

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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.

## 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.

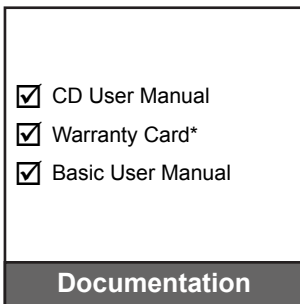
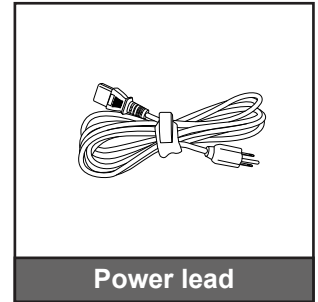
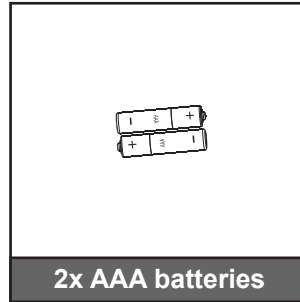
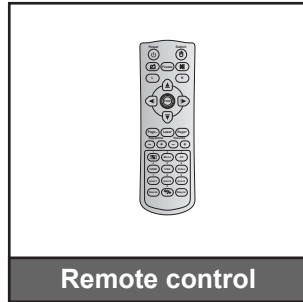
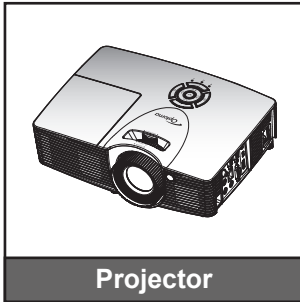
# INTRODUCTION

## Package Overview

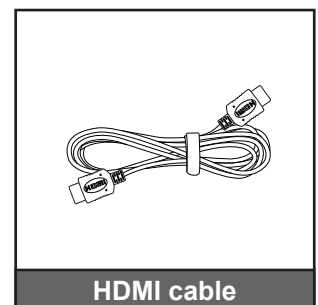
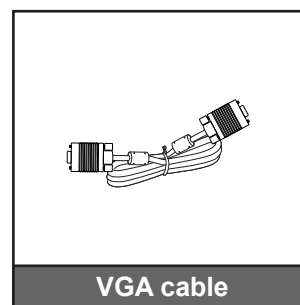
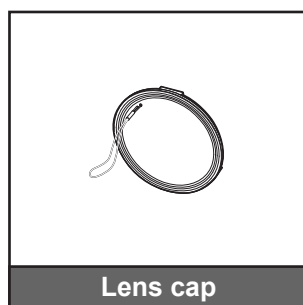
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

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

## Standard accessories



## Optional accessories



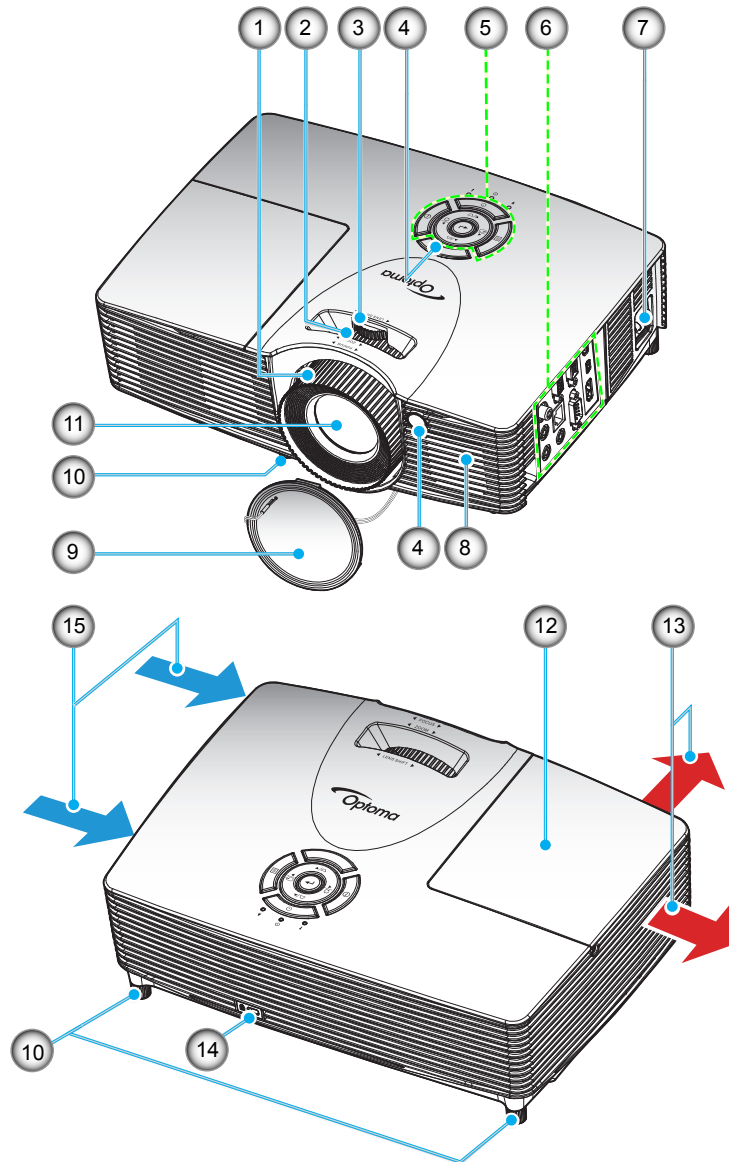
### Note:

- *Optional accessories vary depending on model, specification and region.*
- *\* For European warranty information please visit [www.optomaeurope.com](http://www.optomaeurope.com).*



# INTRODUCTION

## Product Overview

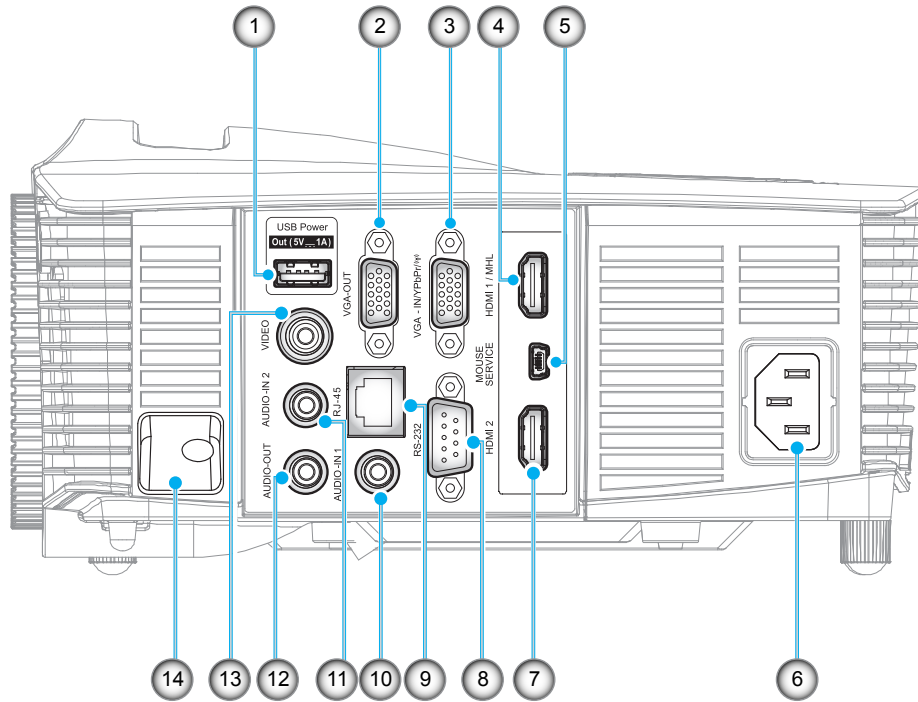


**Note:** Do not block projector inlet or outlet air vents.

No	Item	No	Item
1.	Focus Ring	9	Lens Cap
2.	Zoom Ring	10.	Tilt-Adjustment Feet
3.	Lens Shift Ring	11.	Lens
4.	IR Receiver	12.	Lamp Cover
5.	Keypad	13.	Ventilation (outlet)
6.	Input / Output	14.	Kensington™ Lock Port
7.	Power Socket	15.	Ventilation (inlet)
8.	Speaker		

# INTRODUCTION

## Connections

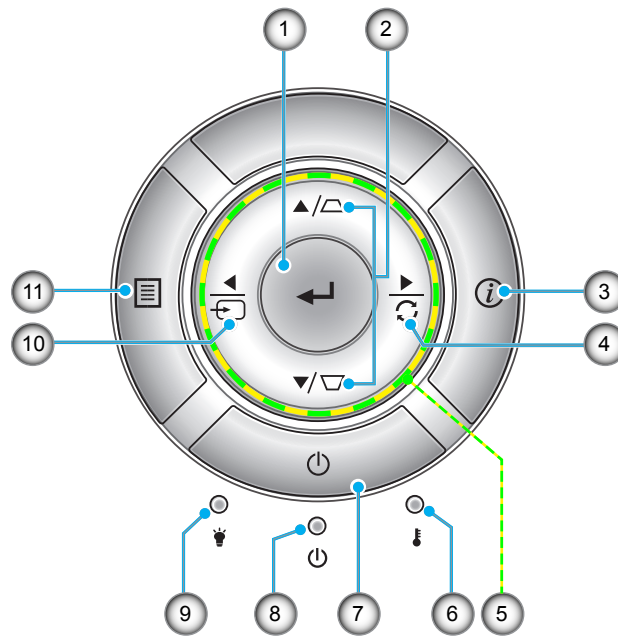


**Note:** Remote mouse requires special remote control.

No	Item	No	Item
1.	USB Power Out (5V---1A) Connector	8.	RS-232 Connector
2.	VGA-OUT Connector	9.	RJ-45 Connector
3.	VGA2 In/YPbPr / (Y) Connector	10.	AUDIO-IN 1 Connector
4.	HDMI 1 / MHL Connector	11.	AUDIO-IN 2 Connector
5.	MOUSE / SERVICE Connector	12.	AUDIO-OUT Connector
6.	Power Socket	13.	VIDEO Connector
7.	HDMI 2 Connector	14.	Security Bar

# INTRODUCTION

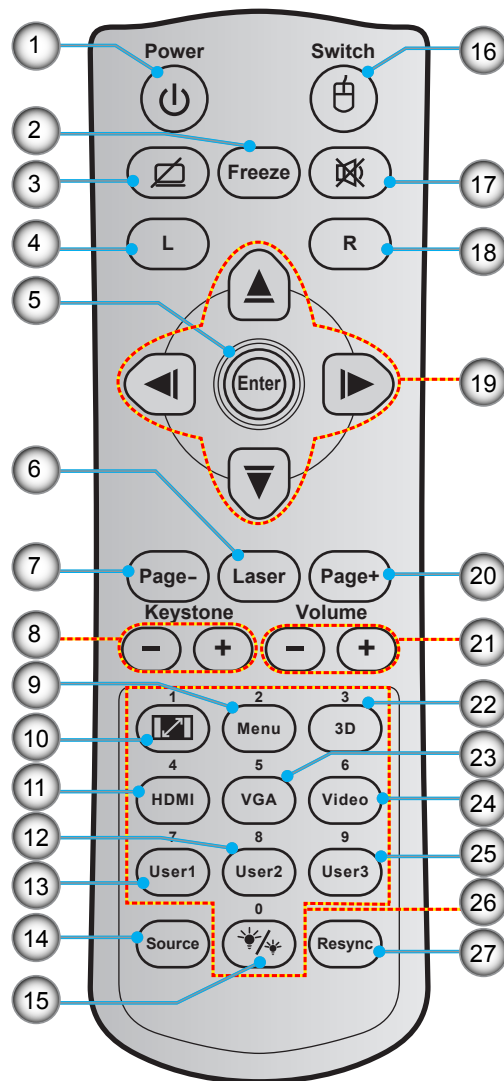
## Keypad



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

# INTRODUCTION

## Remote control



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.	Laser	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		

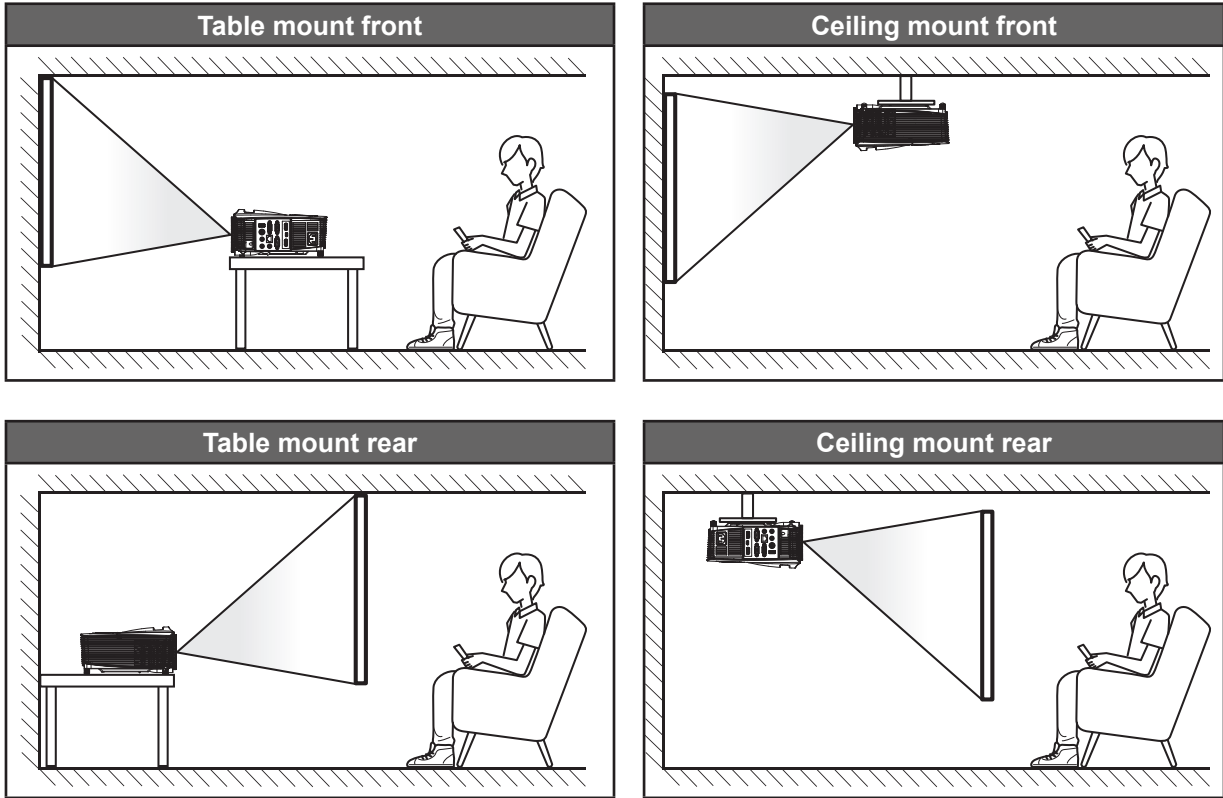
**Note:** Some keys may have no function for models that do not support these features.

# 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 to the screen.

- How to determine projector location for a given screen size, please refer to distance table on pages 56-60.
- How to determine screen size for a given distance, please refer to distance table on pages 56-60.

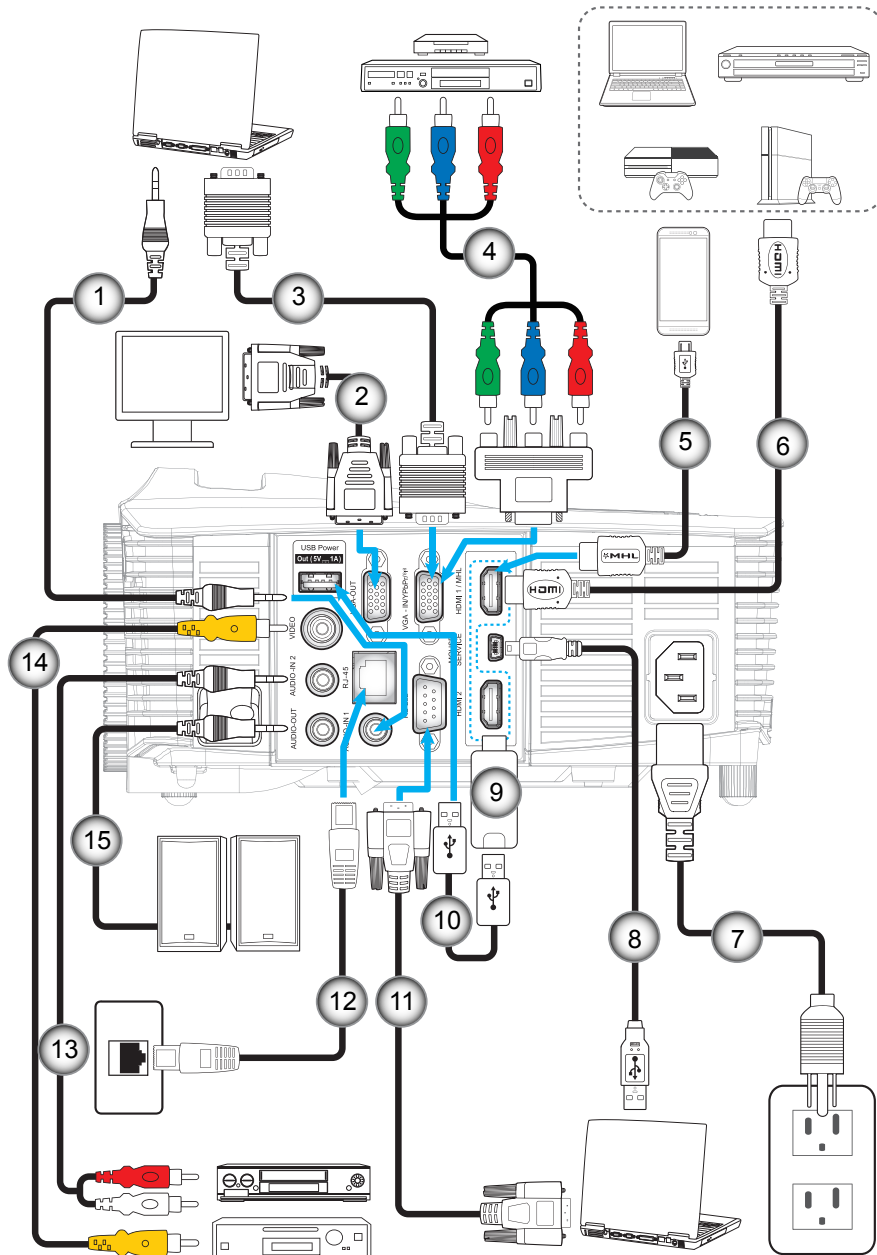
**Note:** *The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.*

### **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	No	Item
1.	Audio In Cable	9.	HDMI Dongle
2.	VGA Out Cable	10.	USB Power Cable
3.	VGA Cable	11.	RS232 Cable
4.	RCA Component Cable	12.	RJ-45 Cable
5.	MHL Cable	13.	Audio In Cable
6.	HDMI Cable	14.	Video Cable
7.	Power Cord	15.	Audio Out Cable
8.	USB Cable (mouse control)		

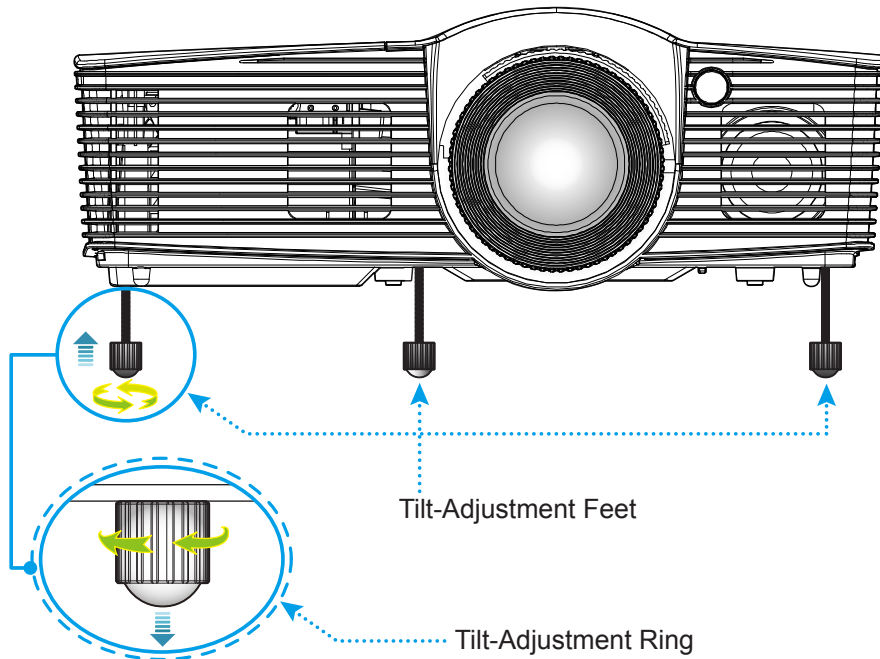
# SETUP AND INSTALLATION

## Adjusting the projector image

### Image height

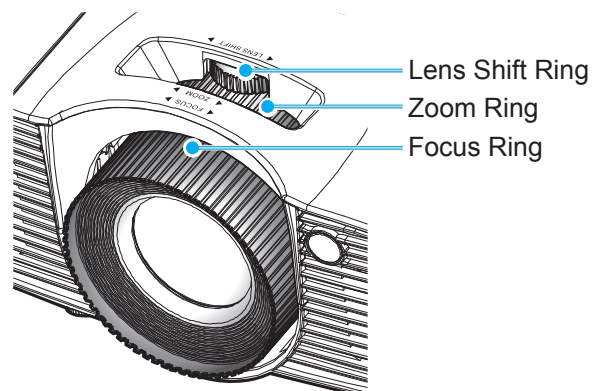
The projector is equipped with elevator feet for adjusting the image height.

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, focus, and lens shift

- 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.
- To adjust the lens, turn the lens shift ring to the left or to the right to adjust lens to the left, or right.



**Note:** The projector will focus at a distance of 1.3m to 7.1m.

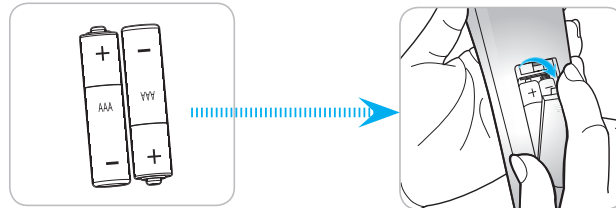
# SETUP AND INSTALLATION

## Remote setup

### Installing / replacing the batteries

Two AAA size batteries are supplied for the remote control.

1. Remove the battery cover on the back of the remote control.
2. Insert AAA batteries in the battery compartment as illustrated.
3. Replace back cover on remote control.



**Note:** Replace only with the same or equivalent type batteries.

### CAUTION

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

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control for an extended period of time, remove the batteries.
- When you dispose of the batteries, you must obey the law in the relative area or country.

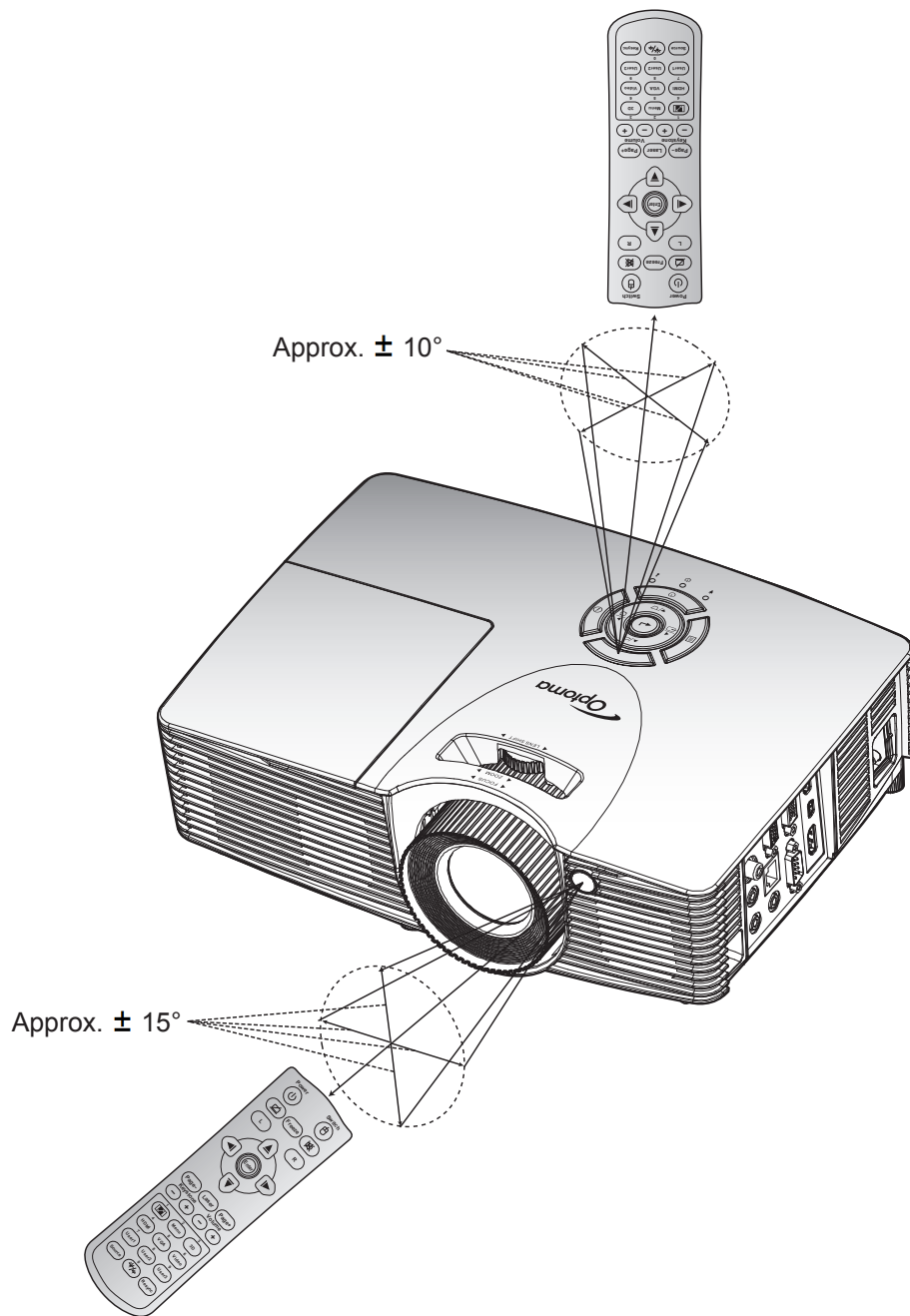
### Effective range

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

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.
- Please keep the remote controller away from fluorescent lamps for over 2 meters or the remote controller might become malfunction.
- If the remote control is closed to Inverter-Type fluorescent lamps, it might become ineffective from time to time.
- If the remote control and the projector are within a very short distance, the remote control might become ineffective.
- When you aim at the screen, the effective distance is less than 5 m from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.

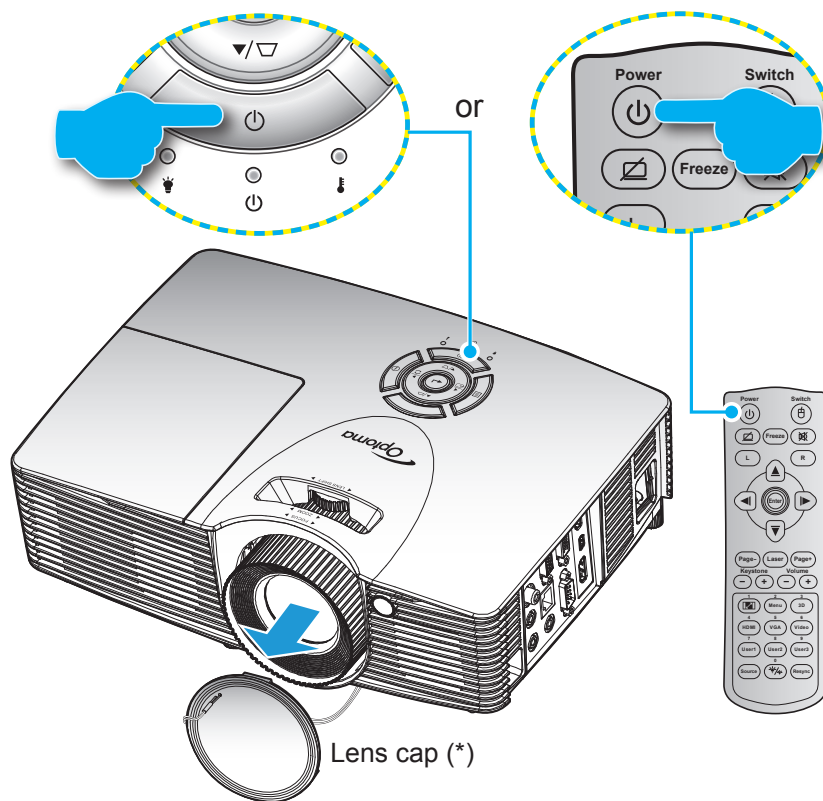


# SETUP AND INSTALLATION



# USING THE PROJECTOR

## Powering on / off the projector



### Powering on

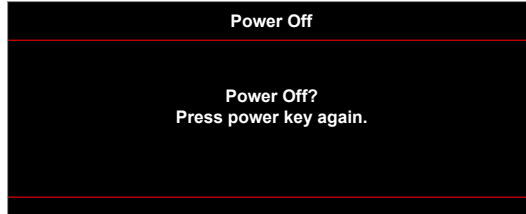
1. Remove the lens cap(\*).
2. Securely connect the power lead and signal/source cable. When connected, the On/Standby LED will turn red.
3. Turn on the projector by pressing the "⏻" either on the projector keypad or the remote control.
4. A start up screen will display in approximately 10 seconds and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

# USING THE PROJECTOR

## 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:

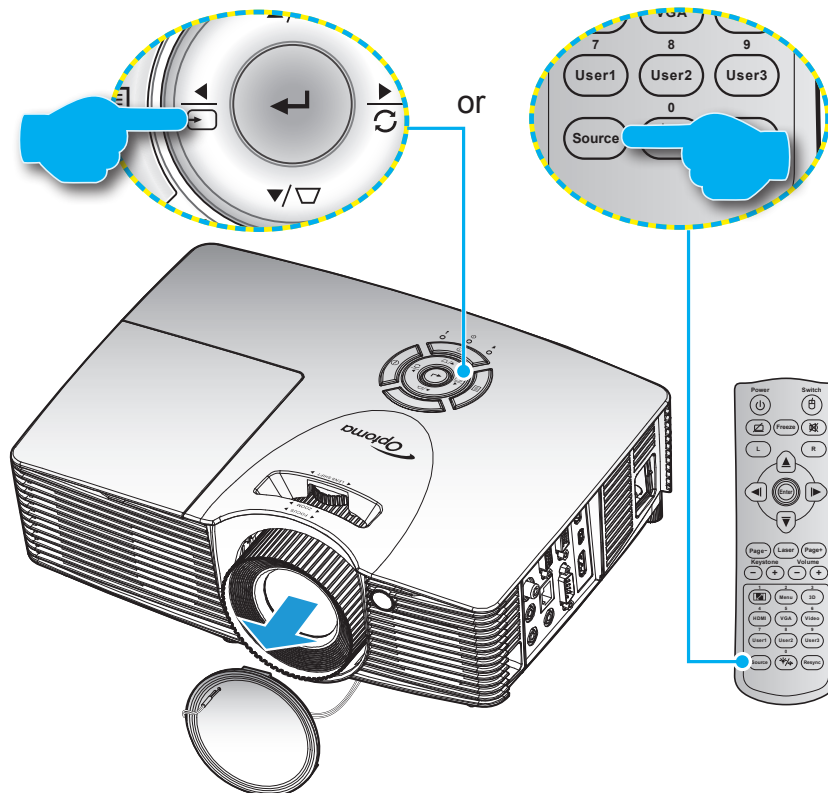


3. Press the "⏻" again to confirm, otherwise the message will disappear after a period of time (by default after 10 seconds). When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the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

## 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.

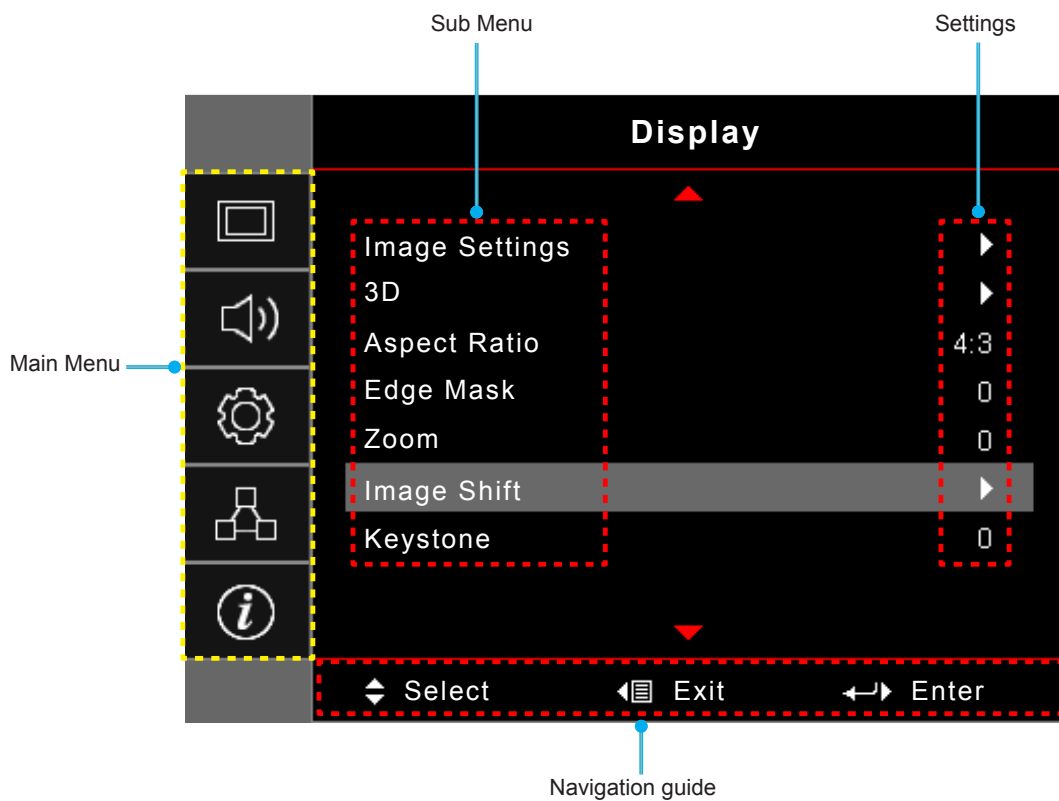


# USING THE PROJECTOR

## 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 the  key on the projector keypad or the “Menu” key on the remote control.
2. When OSD is displayed, use the ▲ or ▼ keys to select any item in the main menu. While making a selection on a particular page, press the ← / ► key on the projector keypad or the “Enter” key on the remote control to enter sub menu.
3. Use the ▲ or ▼ keys to select the desired item in the sub menu and then press the ← / ► key on the projector keypad or the “Enter” key on the remote control to view further settings. Adjust the settings by using the ◀ or ▶ keys.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press the ← / ► key on the projector keypad or the “Enter” key on the remote control to confirm, and the screen will return to the main menu.
6. To exit, press the  key on the projector keypad or the “Menu” key on the remote control. The OSD menu will close and the projector will automatically save the new settings.



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











## 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			
		Wall Color [Data]				3D		
						Off [Default]		
						Blackboard		
						Light Yellow		
						Light Green		
						Light Blue		
						Pink		
		Brightness				Gray		
		Brightness				-50~50		
		Contrast				-50~50		
		Sharpness				1~15		
		Color				-50~50		
		Tint				-50~50		
		Gamma	Gamma	Film				
				Video				
				Graphics				
				Standard(2.2)				
				1.8				
				2.0				
				2.4				
		Color Settings	BrilliantColor™				1~10	
				Color Temperature [Data model]				Warm
								Standard
								Cool
							Cold	
			Color Matching	Color Matching	Color			R [Default]
								G
								B
								C
								Y
							M	
							W	
					Hue		-50~50 [Default: 0]	
					Saturation		-50~50 [Default: 0]	
		Gain			-50~50 [Default: 0]			

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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 [Default: 0]	
			V. Position	-5~5 (depends on signal) [Default: 0]	
		Brightness Mode [Lamp Base - Data]		Bright	
			Eco.		
			Dynamic		
			Eco+		
	Reset				
	3D	3D Mode		Off	
				DLP-Link [Default]	
				IR	

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Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Display	3D	3D - 2D			3D [Default]	
					L	
					R	
		3D Format				Auto [Default]
						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: -50			[Default: H: 0; V: 0]	
		H: -50; V: 0				
		H: 50; V: 0				
		H: 0; V: 50				
H: -50; V: 0						
H: 0; V: -50						
H: 50; V: 0						
H: 0; V: 50						
Keystone				-40~40 [Default: 0]		
Audio	Mute				Off [Default]	
					On	
	Volume					0-10 [Default: 5]
		Audio Input	HDMI1 / MHL			Audio 1 / Audio 2 / Default [Default]
			HDMI2			Audio 1 / Audio 2 / Default [Default]
			VGA			Audio 1 / Audio 2 [Default depednds by connector]
	Video				Audio 1 / Audio 2 [Default depednds by connector]	
	Audio Out (Standby)					Off [Default]
					On (X416/W416/EH416/WU416)	
Setup	Projection				Front  [Default]	
					Rear 	
					Ceiling-top 	
					Rear-top 	

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Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values		
Setup	Screen Type	[WXGA/ WUXGA models]			16:9		
					16:10 [Default]		
	Lamp Settings	Lamp Reminder			Off		
					On [Default]		
		Lamp Reset			Cancel [Default]		
					Yes		
	Filter Settings	Filter Usage Hours				(read only)	
		Optional Filter Installed				Yes	
						No	
		Filter Reminder				Off	
						300hr	
						500hr [Default]	
						800hr	
		Filter Reset				1000hr	
					Cancel [Default]		
					Yes		
	Power Settings	Direct Power On				Off [Default]	
						On	
		Signal Power On*					Off [Default]
							On
		Auto Power Off (min)				0~180 (5 min increments) [Default: 20]	
		Sleep Timer (min)					0~990 (30 min increments) [Default: 0]
			Always On				Yes
		Quick Resume					No [Default]
							Off [Default]
		Power Mode (Standby)*					On
							Active
		USB Power					Eco. [Default]
							Off [Default]
							On
	Wireless					Auto	
						Off [Default]	
						On	
	Security	Security				Off [Default]	
						On	
		Security Timer	Month				0~12 [Default: 0]
			Day				0~30 [Default: 0]
			Hour				0~24 [Default: 0]
			Exit				
	Change Password						



# USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	HDMI Link Settings	HDMI Link			Off [Default]
					On
		Inclusive of TV			No [Default]
					Yes
		Power On Link*			Mutual
					PJ --> Device [Default]
				Device --> PJ	
		Power Off Link			Off [Default]
					On
		Test Pattern	Test Pattern		
					Magenta Grid
					White Grid
					White
					Off [Default]
	Remote Settings [depends on remote]	IR Function			On [Default]
					Off
		User1			HDMI 2 [Default]
					Test Pattern
					LAN
					Brightness
					Contrast
					Sleep Timer
					Color Matching
					Color Temperature
					Gamma
					Projection
					Lamp Settings
					Zoom
					Freeze
					MHL
		User2			HDMI 2
					Test Pattern
					LAN
				Brightness	
				Contrast	
				Sleep Timer	
				Color Matching	
				Color Temperature	
				Gamma	
				Projection	
		Lamp Settings			
		Zoom			
		Freeze			
		MHL [Default]			

# 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	
					Brightness	
					Contrast	
					Sleep Timer [Default]	
					Color Matching	
					Color Temperature	
					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
						簡體中文
						日本語
						한국어
						Русский
					Magyar	
					Čeština	
			عربي			
			ไทย			
			Türkçe			
			فارسی			
			Tiếng Việt			
			Bahasa Indonesia			
			Română			
			Slovakian			

# 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]
		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	
					User	
		Logo Capture			Cancel [Default]	
					Yes	
		Background Color			None [Default]	
					Blue	
					Red	
					Green	
					Grey	
					Logo	

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Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Reset	Reset OSD			Cancel [Default]
					Yes
		Reset to Default			Cancel [Default]
					Yes
Network	LAN	Network Status			(read only)
		MAC Address			(read only)
		DHCP			Off [Default]
					On
		IP Address			192.168.0.100 [Default]
		Subnet Mask			255.255.255.0 [Default]
		Gateway			192.168.0.254 [Default]
		DNS			192.168.0.51 [Default]
	Reset				
	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		

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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:**

- *If the Signal setting is set to Automatic, the Phase, frequency items are hidden. 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.*
- *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.*
- *\*Optional feature depends on model and region.*

## Display image settings menu

### Display Mode (data mode only)

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.
- **User:** Memorize user’s settings.

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- **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 only)

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 only):** Select a color temperature from warm, standard, cool, or cold.
- **Color Matching:** Select the following options:
  - Color: Adjust the red (R), green (G), blue (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.
- **Color Space (non-HDMI input only):** Select an appropriate color matrix type from the following: auto,

# USING THE PROJECTOR

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.
- **Black Level:** Allow user to adjust Black Level when inputting Video signals.
- **IRE:** Allow user to adjust IRE value when inputting Video signals.  
**Note:** IRE is only available with NTSC video format.

## 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.

## Brightness Mode (for 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.

## 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.

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## 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 (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.*



# USING THE PROJECTOR

## 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.			

## XGA auto mapping rule:

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1024	768
<b>4:3</b>	640	480	1024	768
	800	600	1024	768
	1024	768	1024	768
	1600	1200	1024	768
<b>Wide Laptop</b>	1280	720	1024	576
	1280	768	1024	614
	1280	800	1024	640
<b>SDTV</b>	720	576	1024	576
	720	480	1024	576
<b>HDTV</b>	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 centred.
<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.				

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## 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
4x3	Scale to 960x720.				
16x9	Scale to 1280x720.				
LBX	Scale to 1280x960, then get the central 1280x720 image to display.				
Native mode	1:1 mapping centered.		1:1 mapping display 1280x720.	1280x720 centered.	1:1 mapping centred.
Auto	-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

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 select, screen type will automatically become 16:9 (1920x1080). -If source is 4:3, the screen type will be scaled to to 1440x1080. -If source is 16:9, the screen type will be scaled to 1920x1080. -If source is 16:10, the screen type will be scaled to 1920x1200 and cut 1920x1080 area to display.				

1080P auto mapping rule:

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

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## WUXGA scaling table for 1920x1200 DMD (screen type 16x10):

**Note:**

- Supported screen type 16:10 (1920x1200), 16:9 (1920x1080).
- 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 1600x1200.				
<b>16x9</b>	Scale to 1920x1080.				
<b>16x10</b>	Scale to 1920x1200.				
<b>LBX</b>	Scale to 1920x1440, then get the central 1920x1200 image to display.				
<b>Native mode</b>	1:1 mapping centered. No scaling will be made; the image is displayed with the resolution based on input source.				
<b>Auto</b>	-If this format is selected, screen type will automatically become 16:10 (1920x1200). -If source is 4:3, the screen type will be scaled to 1600x1200. -If source is 16:9, the screen type will be scaled to 1920x1080. -If source is 16:10, the screen type will be scaled to 1920x1200.				

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

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

# USING THE PROJECTOR

WUXGA scaling table for 1920x1200 DMD (screen type 16x9):

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC
<b>4x3</b>	Scale to 1440x1080.				
<b>16x9</b>	Scale to 1920x1080.				
<b>LBX</b>	Scale to 1920x1440, then get the central 1920x1080 image to display.				
<b>Native mode</b>	1:1 mapping centered. No scaling will be made; the image is displayed with the resolution based on input source.				
<b>Auto</b>	-If this format is selected, screen type will automatically become 16:9 (1920x1080). -If source is 4:3, the screen type will be scaled to 1440x1080. -If source is 16:9, the screen type will be scaled to 1920x1080. -If source is 16:10, the screen type will be scaled to 1920x1200 and cut 1920x1080 area to display.				

WUXGA auto mapping rule (screen type 16x9):

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

## Audio input menu

### Audio Input

The default audio settings are on the side panel of the projector. Use this option to reassign the available Audio Input to the selected image source.

## Audio out (Standby) menu

### Audio Out (Standby)

Choose the “On” or “Off” to turn on or off the audio out while the lamp is turned off.

## 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.

# USING THE PROJECTOR

## Setup filter settings menu

### Filter Usage Hours

Display the filter time.

### Optional Filter Installed

Set the warning message setting.

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

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

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

### Filter Reminder

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

### Filter Reset

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

## Setup 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.*
- *\*Optional feature depends on model and region.*

### 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:** Choose to set the sleep timer always on feature on or off.

### 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.

# USING 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.

### Note:

- *If the “Signal Power On\*\*” option is turned “On” or the “Audio Out (Standby)” option is turned “On”, the power consumption of the projector in standby mode will be over 3W.*
- *The fans will still run in active standby if “Signal Power On” is enabled.*
- *\*Optional feature depends on model and region.*

## USB Power

Set the USB power mode setting.

- **Off:** Choose “Off” to turn off USB power mode.
- **On:** Choose “On” to turn off USB power mode.
- **Auto:** Choose “Auto” to set USB power mode automatically.

## Wireless

Set the wireless mode setting.

- **Off:** Choose “Off” to disable wireless mode.
- **On:** Choose “On” to enable wireless mode.

## Setup security menu

### Security

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

### 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.

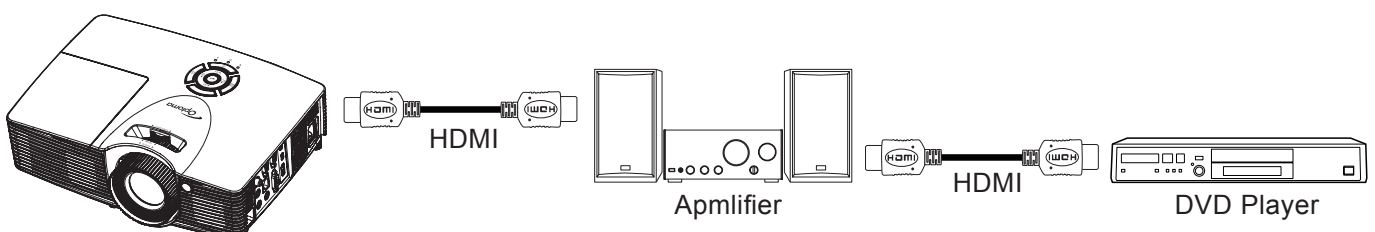
### Change Password

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.*





# USING THE PROJECTOR

## HDMI Link

Enable/disable the HDMI Link function. The inclusive TV, power on link, and power off link options will only be 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 from being turned off at the same time, set the setting to "No".

## Power On Link\*

CEC power on command. Select between the following options:

- **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.

**Note:** \*Optional feature depends on model and region.

## 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 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.

### User1/ User2/ User3

Assign the default function for User1, User2, or User3 between HDMI 2, test pattern, LAN, brightness, contrast, sleep timer, color matching, color temperature, 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, 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".

# USING THE PROJECTOR

## 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 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" or pressing the ← key on the Keypad for 7 seconds, 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.
- **User:** Use stored picture from "Logo Capture" function.

## Logo Capture

Use to capture an image of the picture currently displayed on the screen.

### **Note:**

- *For a successful logo capture, ensure that the image does not exceed the projectors native resolution. If logo capture is still unsuccessful please try using a less detailed image.*
- *This feature is exclusively for capturing logos and not for capturing large-scale images.*

## 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

- **Reset OSD:** Return the factory default settings for OSD.
- **Reset to Default:** Return the factory default settings for Setup menu settings.

# USING THE PROJECTOR

## Network LAN menu

### Network Status

Display the network connection status (read-only).

### MAC Address

Display the MAC address (read-only).

### DHCP

Use this option to enable or disable the DHCP function.

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

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

### IP Address

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.

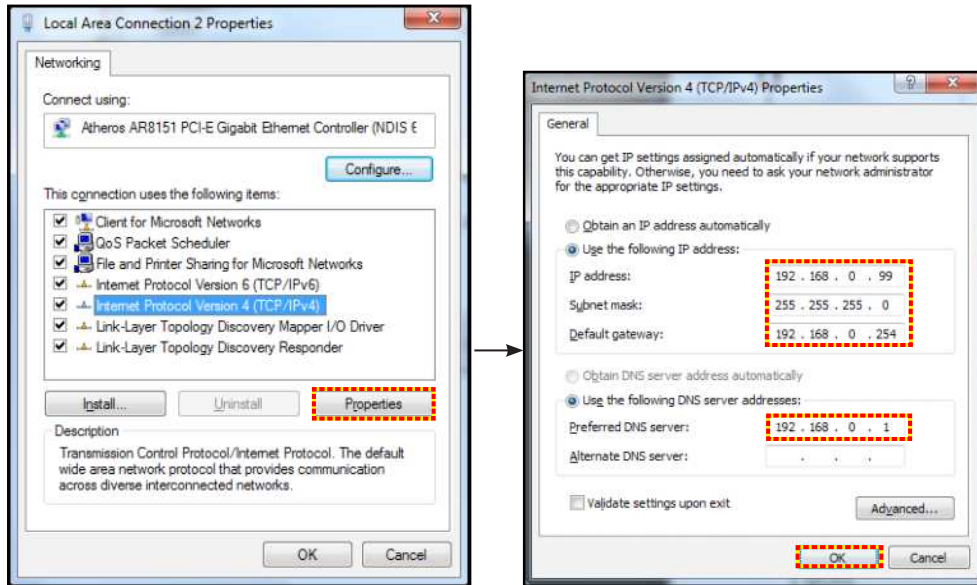
#### **Note:**

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

# USING THE PROJECTOR

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

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



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

## Reset

Reset all values for LAN parameters.

## Network control menu

### Crestron

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

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

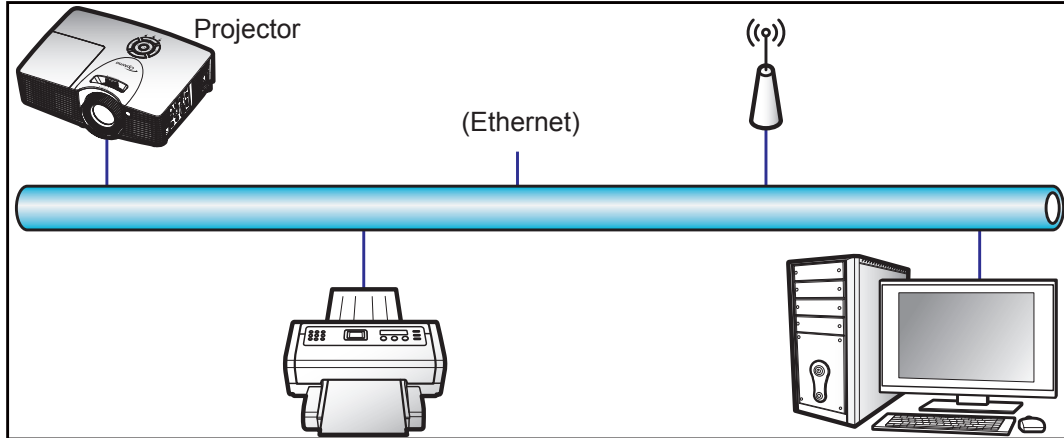
Use this function to select the network function (port: 80).

# USING THE PROJECTOR

## 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.
- 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).

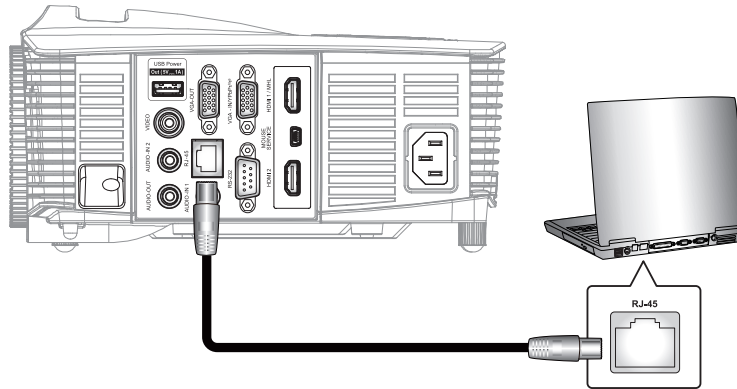
<http://pjlink.jbmia.or.jp/english/>

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.

# USING THE PROJECTOR

## LAN RJ45

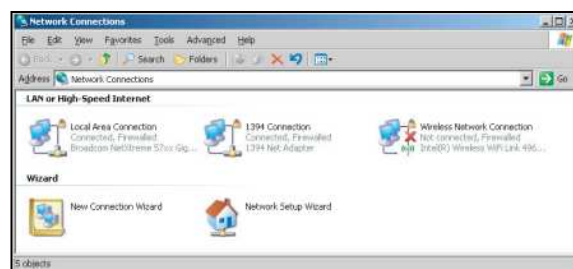
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (laptop).



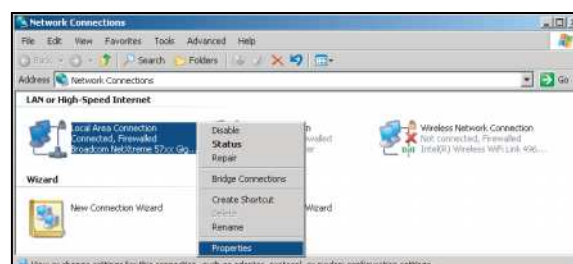
2. On the PC (Laptop), select **Start > Control Panel > Network Connections**.



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

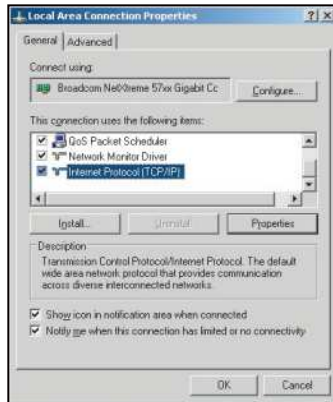


4. In the **Properties** window, select the **General** tab, and select **Internet Protocol (TCP / IP)**.



# USING THE PROJECTOR

5. Click “Properties”.



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



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



# USING THE PROJECTOR

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

Information page

The screenshot shows the 'Information' page of the Optoma projector's remote control interface. At the top, there is a navigation bar with 'Model: Optoma', 'Tool', 'Info', and 'Contact IT Help'. The main area is divided into two columns: 'Projector Information' and 'Projector Status'. The 'Projector Information' column includes fields for Projector Name (Optoma WGA), Location, Firmware Version, MAC Address (00:50:41:7F:D4:40), Resolution (NTSC), Lamp Hours (0), and Assigned to (Optoma Projector). The 'Projector Status' column includes Power Status (Power On), Source (Video), Display Mode (Cinema), Projection (Front), Brightness Mode (Bright), and Error Status (0: No Error). An 'exit' button is located at the bottom center. The bottom of the screen features the 'CRESTRON connected' logo and 'Expansion Options'.

Main page

The screenshot shows the 'Main' page of the Optoma projector's remote control interface. At the top, there is a navigation bar with 'Model: Optoma', 'Tool', 'Info', and 'Contact IT Help'. Below the navigation bar is a control bar with buttons for 'Power', 'Vol -', 'Mute', and 'Vol +'. The main area is titled 'Sources List' and features a list of sources: 'VGA', 'Video', 'HDMI 1/MHL', and 'HDMI 2'. To the right of the list are navigation buttons: 'Menu', 'Re-Sync', 'Enter', and 'Source'. At the bottom of the main area are buttons for 'Freeze', 'Contrast', 'Brightness', and 'Sharpness'. The bottom of the screen features the 'CRESTRON connected' logo and 'Expansion Options'.

Tool page

The screenshot shows the 'Tool' page of the Optoma projector's remote control interface. At the top, there is a navigation bar with 'Model: Optoma', 'Tool', 'Info', and 'Contact IT Help'. The main area is divided into three columns: 'Crestron Control', 'Projector', and 'User Password'. The 'Crestron Control' column includes fields for IP Address (192.168.0.7), IP ID (7), and Port (41794), with a 'Send' button. The 'Projector' column includes fields for Projector Name (Optoma WGA), Location, Assigned to (Optoma Projector), DHCP (Enabled), IP Address (192.168.0.100), Subnet Mask (255.255.255.0), Default Gateway (192.168.0.254), and DNS Server (192.168.0.1), with a 'Send' button. The 'User Password' column includes fields for New Password and Confirm, with a 'Send' button. An 'exit' button is located at the bottom center. The bottom of the screen features the 'CRESTRON connected' logo and 'Expansion Options'.



# USING THE PROJECTOR

Contact IT helpdesk



## RS232 by Telnet Function

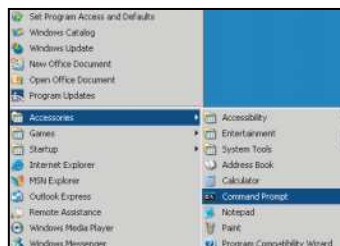
There is alternative RS232 command control way, in projector so called “RS232 by TELNET” for LAN / RJ45 interface.

### 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.



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.

# USING THE PROJECTOR

## 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

View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Power Mode (Standby)
- Lamp Hours in total and in a set mode as listed below:
  - Bright
  - Eco.
  - Dynamic
  - Eco+
  - Total
- Network status
- IP Address
- Projector ID
- Filter Usage Hours
- Brightness Mode
- FW Version (system, LAN, MCU)

# USING THE PROJECTOR

## 3D Setup

1. Turn on your projector.
2. Connect your 3D source. For example, 3D Blu ray, Games console, PC, Set top box, etc.
3. Ensure you have inserted 3D content or selected the 3D channel.
4. Turn on your 3D glasses. Please refer to the 3D glasses user manual on how to operate the 3D glasses.
5. Your projector will automatically display 3D from a 3D Blu ray. For 3D via a set top box or PC, you will be required to adjust the settings in the 3D menu.

### For 3D via Blu ray

3D will automatically be displayed.

- Menu > "Display" > "3D" > "3D Mode" > "DLP"

### For 3D via a PC or Set top box

3D will not be displayed automatically. Depending on the 3D content the image will either be displayed side by side or top and bottom. Please refer to the following table.

<b>SBS</b>	<b>SBS</b>	<b>Top and bottom</b>
		<b>Top and bottom</b>

- For side by side images, select "SBS" in the menu. Menu > "Display" > "3D" > "3D Format" > "SBS".
  - For top and bottom images, select "top and bottom" in the menu. Menu > "Display" > "3D" > "3D Format" > "Top and bottom".
- If the 3D image does not look correct, you may also be required to adjust the 3D sync invert. Turn this on if the image looks odd. Menu > "Display" > "3D" > "3D Sync Invert" > "On".

**Note:** *If input video is normal 2D, please press "3D" and switch to "Auto". If "SBS" mode is active, 2D video content will not be displayed correctly. Please change back to "Auto" when 3D via a PC only works with certain resolutions. Please check the compatibility on page 56.*

# 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.



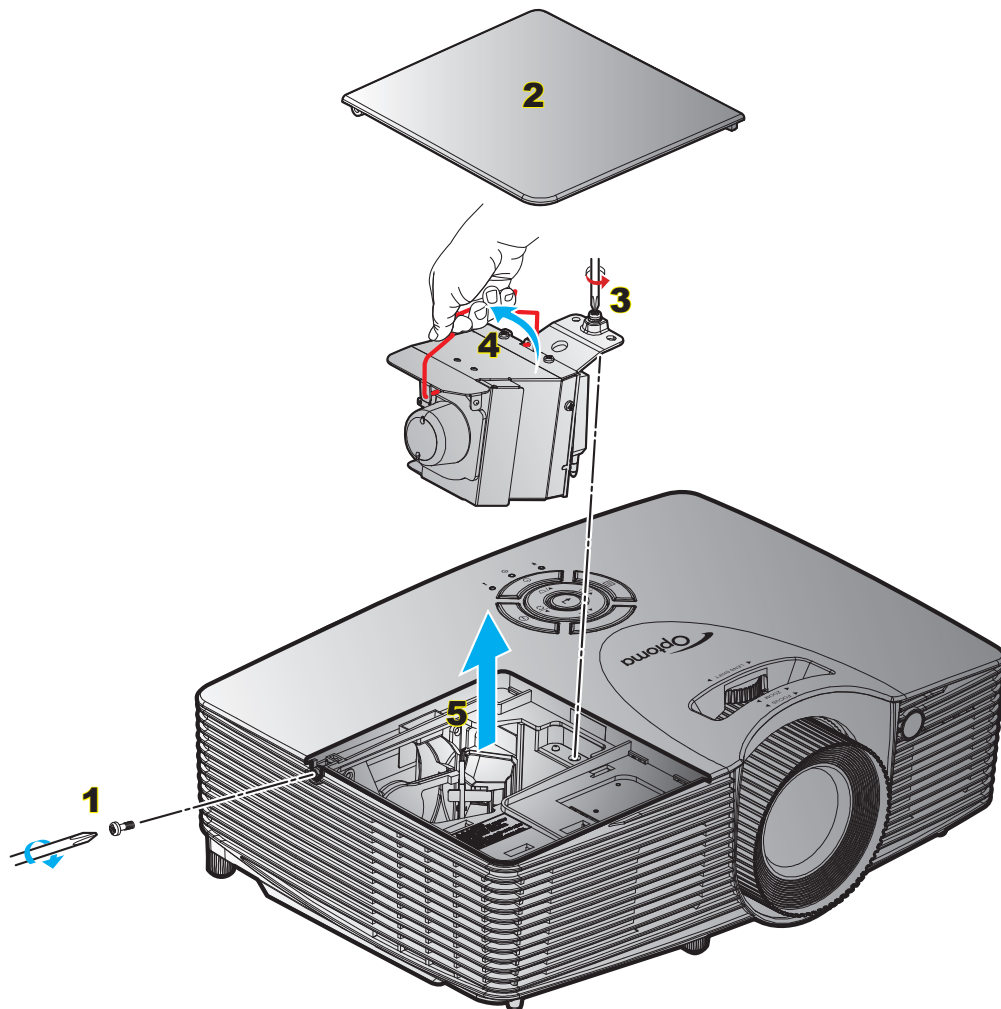
Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



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. Open the cover. **2**
6. Unscrew the screw on the lamp module. **3**
7. Lift up the lamp handle. **4**
8. Remove the lamp module carefully. **5**
9. To replace the lamp module, reverse the previous steps.
10. Turn on the projector and reset the lamp timer.  
Lamp Reset: (i) Press "Menu" > (ii) Select "Setup" > (iii) Select "Lamp Settings" > (iv) Select "Lamp Reset" > (v) Select "Yes".

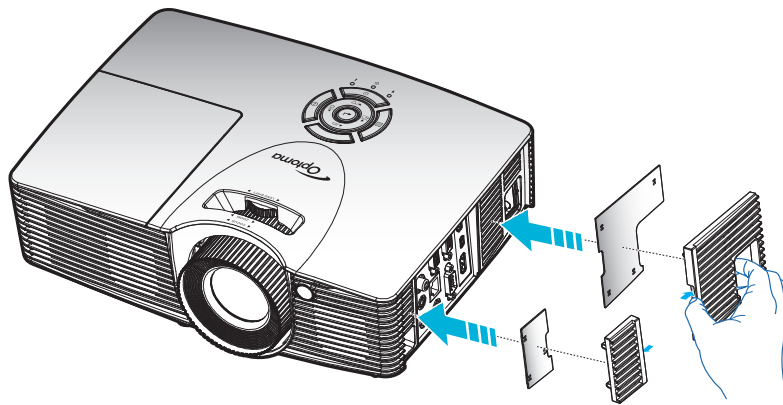
# MAINTENANCE

## 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.

## Installing and cleaning the dust filter

### Installing the dust filter



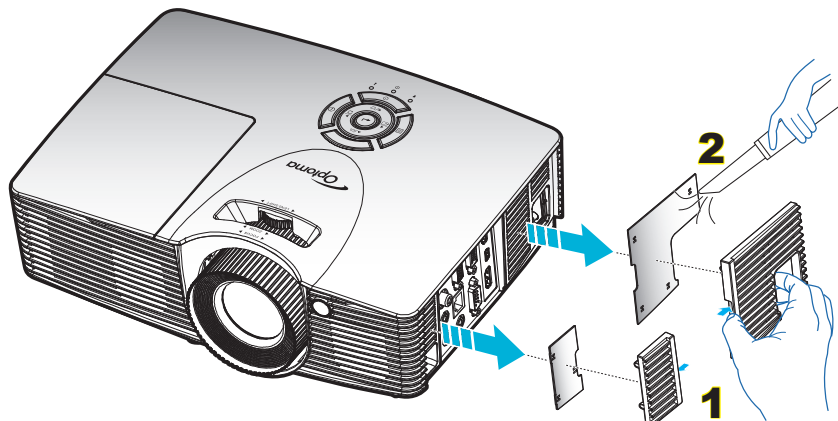
**Note:** Dust filters are only required/supplied in the selected regions with excessive dust.

### 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	XGA/WXGA:	Native timing:	640x480p @ 60Hz	1280x720p @ 60Hz
640x480 @ 60Hz	1440x900 @ 60Hz	XGA:	720x480p @ 60Hz	1366x768 @ 60Hz
640x480 @ 67Hz	1024x768 @ 120Hz	1024x768 @ 60Hz	1280x720p @ 60Hz	1920x1080i @ 50Hz
640x480 @ 72Hz	1280x800 @ 60Hz	WXGA:	1920x1080i @ 60Hz	1920x1080p @ 60Hz
640x480 @ 75Hz	1280x1024 @ 60Hz	1280x800 @ 60Hz	720(1440)x480i @ 60Hz	1920x1200 @ 60Hz(RB)
800x600 @ 56Hz	1680x1050 @ 60Hz	1280x720 @ 60Hz	1920x1080p @ 60Hz	
800x600 @ 60Hz	1280x720 @ 60Hz	1080P:	720x576p @ 50Hz	
800x600 @ 72Hz	1280x720 @ 120Hz	1920x1080 @ 60Hz	1280x720p @ 50Hz	
800x600 @ 75Hz	1600x1200 @ 60Hz	WUXGA:	1920x1080i @ 50Hz	
832x624 @ 75Hz	1080P/WUXGA:	1920x1200 @ 60Hz(RB)	720(1440)x576i @ 50Hz	
1024x768 @ 60Hz	1280 x 720 @ 60Hz		1920x1080p @ 50Hz	
1024x768 @ 70Hz	1280 x 800 @ 60Hz		1920x1080p @ 24Hz	
1024x768 @ 75Hz	1280 x 1024 @ 60Hz		1920x1080p @ 30Hz	
1280x1024 @ 75Hz	1400 x 1050 @ 60Hz			
1152x870 @ 75Hz	1600 x 1200 @ 60Hz			
	1280 X 768 @ 60Hz			
	1440 x 900 @ 60Hz			
	1280 x 720 @ 120Hz			
	1024 x 768 @ 120Hz			

### Analog compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720x400 @ 70Hz	XGA/WXGA:	Native timing:		1366x768 @ 60Hz
640x480 @ 60Hz	1440 x 900 @60Hz	XGA:		1920x1080 @ 60Hz
640x480 @ 67Hz	1024 x 768 @120Hz	1024x768 @ 60Hz		1920x1200 @ 60Hz (RB)
640x480 @ 72Hz	1280 x 800 @60Hz	WXGA:		
640x480 @ 75Hz	1280 x 1024 @60Hz	1280x800 @ 60Hz;		
800x600 @ 56Hz	1680 x 1050 @60Hz	1280x720 @ 60Hz		
800x600 @ 60Hz	1280 x 720 @60Hz	1080P:		
800x600 @ 72Hz	1280 x 720 @120Hz	1920x1080 @ 60Hz		
800x600 @ 75Hz	1600 x 1200 @60Hz	WUXGA:		
832x624 @ 75Hz	1080P/ WUXGA:	1920x1200 @ 60Hz(RB)		
1024x768 @ 60Hz	1280x720 @ 60Hz			
1024x768 @ 70Hz	1280x800 @ 60Hz			
1024x768 @ 75Hz	1280x1024 @ 60Hz			
1280x1024 @ 75Hz	1400x1050 @ 60Hz			
1152x870 @ 75Hz	1600x1200 @ 60Hz			
	1280x768 @ 60Hz			
	1440x900 @60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

True 3D video compatibility

<b>Input resolution</b>	HDMI 1.4b 3D Input	Input timing			
		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 1.4b	1920x1080i @ 50Hz	Side-by-Side(Half)	SBS mode is on	
		1920x1080i @ 60Hz			
		1280x720P @ 50Hz			
		1280x720P @ 60Hz			
		800x600 @ 60Hz			
		1024x768 @ 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 field 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.
- 1080i@25hz and 720p@50hz will run in 100hz; other 3D timing will run in 120hz.

**Image size and projection distance**

(X416\_C11\_XGA)

Desired Image Size						Projection Distance (C)			
Diagonal		Width		Height		Wide		Tele	
m	inch	m	inch	m	inch	m	feet	m	feet
0.76	30	0.61	24	0.46	18	/	/	1.2	3.94
1.02	40	0.81	32	0.61	24	1.1	3.61	1.5	4.92
1.27	50	1.02	40	0.76	30	1.4	4.59	1.9	6.23
1.52	60	1.22	48	0.91	36	1.7	5.58	2.3	7.55
1.78	70	1.42	56	1.07	42	2.0	6.56	2.7	8.86
2.03	80	1.63	64	1.22	48	2.3	7.55	3.1	10.17
2.29	90	1.83	72	1.37	54	2.5	8.20	3.5	11.48
2.54	100	2.03	80	1.52	60	2.8	9.19	3.8	12.47
3.05	120	2.44	96	1.83	72	3.4	11.15	4.6	15.09
3.81	150	3.05	120	2.29	90	4.2	13.78	5.8	19.03
4.57	180	3.66	144	2.74	108	5.1	16.73	6.9	22.64
5.08	200	4.06	160	3.05	120	5.7	18.70	7.7	25.26
6.35	250	5.08	200	3.81	150	7.1	23.29	9.6	31.50
7.62	300	6.10	240	4.57	180	8.5	27.89	11.5	37.73



Lens Shift Range					
PJ lens Center to top of image				Image Shift Range	
Vertical + (Max) (A)	Vertical - (Min) (B)	(D) = (A) - (B)	Vertical range at any Horizontal position	Horizontal + (Right)	Horizontal - (Left)
cm	cm	cm	cm	cm	cm
52.6	44.9	7.7	N/A	0.0	0.0
70.1	59.8	10.3	N/A	0.0	0.0
87.6	74.8	12.9	N/A	0.0	0.0
105.2	89.7	15.5	N/A	0.0	0.0
122.7	104.7	18.0	N/A	0.0	0.0
140.2	119.6	20.6	N/A	0.0	0.0
157.7	134.6	23.2	N/A	0.0	0.0
175.3	149.5	25.8	N/A	0.0	0.0
210.3	179.4	30.9	N/A	0.0	0.0
262.9	224.3	38.6	N/A	0.0	0.0
315.5	269.1	46.4	N/A	0.0	0.0
350.5	299.0	51.5	N/A	0.0	0.0
438.2	373.8	64.4	N/A	0.0	0.0
525.8	448.5	77.3	N/A	0.0	0.0

**Note:**

- Vertical Lens Shift values are always calculated from the Center of Projection Lens. Therefore the distance 5.4 cm (2.13 inch) from the Base to the Center of Projection Lens needs to be added to each Vertical Lens Shift value.
- Zoom ratio is 1.4x.

(EH416\_C16\_1080P)

Desired Image Size						Projection Distance (C)			
Diagonal		Width		Height		Wide		Tele	
m	inch	m	inch	m	inch	m	feet	m	feet
0.91	36	0.80	31.38	0.45	17.65	1.1	3.61	1.8	5.91
1.02	40	0.89	34.86	0.5	19.6	1.2	3.94	2.0	6.56
1.27	50	1.11	43.58	0.62	24.5	1.5	4.92	2.5	8.20
1.52	60	1.33	52.29	0.75	29.4	1.9	6.23	3.0	9.84
1.78	70	1.55	61.01	0.87	34.3	2.2	7.22	3.5	11.48
2.03	80	1.77	69.73	1	39.2	2.5	8.20	4.0	13.12
2.29	90	1.99	78.44	1.12	44.1	2.8	9.19	4.5	14.76
2.54	100	2.21	87.16	1.25	49	3.1	10.17	5.0	16.40
3.05	120	2.66	104.59	1.49	58.8	3.7	12.14	6.0	19.69
3.81	150	3.32	130.74	1.87	73.5	4.6	15.09	7.4	24.28
4.57	180	3.98	156.88	2.24	88.2	5.6	18.37	8.9	29.20
5.08	200	4.43	174.32	2.49	98.1	6.2	20.34	9.9	32.48
6.35	250	5.53	217.89	3.11	122.6	7.7	25.26	/	/
7.62	300	6.64	261.47	3.74	147.1	9.3	30.51	/	/

# ADDITIONAL INFORMATION

Lens Shift Range					
PJ lens Center to top of image				Image Shift Range	
Vertical + (Max) (A)	Vertical - (Min) (B)	Vertical Shift Range	Vertical range at any Horizontal position	Horizontal + (Right)	Horizontal - (Left)
cm	cm	cm	cm	cm	cm
52.0	44.3	7.7	N/A	0.0	0.0
57.8	49.3	8.5	N/A	0.0	0.0
72.2	61.6	10.7	N/A	0.0	0.0
86.7	73.9	12.8	N/A	0.0	0.0
101.1	86.2	14.9	N/A	0.0	0.0
115.6	98.5	17.0	N/A	0.0	0.0
130.0	110.8	19.2	N/A	0.0	0.0
144.5	123.2	21.3	N/A	0.0	0.0
173.3	147.8	25.6	N/A	0.0	0.0
216.7	184.7	32.0	N/A	0.0	0.0
260.0	221.7	38.3	N/A	0.0	0.0
288.9	246.3	42.6	N/A	0.0	0.0
361.1	307.9	53.2	N/A	0.0	0.0
433.4	369.5	63.9	N/A	0.0	0.0

**Note:**

- Vertical Lens Shift values are always calculated from the Center of Projection Lens. Therefore the distance 5.4 cm (2.13 inch) from the Base to the Center of Projection Lens needs to be added to each Vertical Lens Shift value.
- Zoom ratio is 1.6x.

(W416\_C16\_WXGA)

Desired Image Size						Projection Distance (C)			
Diagonal		Width		Height		Wide		Tele	
m	inch	m	inch	m	inch	m	feet	m	feet
0.91	36	0.78	30.53	0.48	19.08	1.1	3.61	1.8	5.91
1.02	40	0.86	33.92	0.54	21.2	1.2	3.94	2.0	6.56
1.27	50	1.08	42.4	0.67	26.5	1.6	5.25	2.5	8.20
1.52	60	1.29	50.88	0.81	31.8	1.9	6.23	3.0	9.84
1.78	70	1.51	59.36	0.94	37.1	2.2	7.22	3.5	11.48
2.03	80	1.72	67.84	1.08	42.4	2.5	8.20	4.0	13.12
2.29	90	1.94	76.32	1.21	47.7	2.8	9.19	4.5	14.76
2.54	100	2.15	84.8	1.35	53	3.1	10.17	5.0	16.40
3.05	120	2.58	101.76	1.62	63.6	3.7	12.14	6.0	19.69
3.81	150	3.23	127.2	2.02	79.5	4.7	15.42	7.4	24.28
4.57	180	3.88	152.64	2.42	95.4	5.6	18.37	8.9	29.20
5.08	200	4.31	169.6	2.69	106	6.2	20.34	9.9	32.48
6.35	250	5.38	212	3.37	132.5	7.8	25.59	/	/
7.62	300	6.46	254.4	4.04	159	9.3	30.51	/	/

# ADDITIONAL INFORMATION

Lens Shift Range					
PJ lens Center to top of image				Image Shift Range	
Vertical + (Max) (A)	Vertical - (Min) (B)	Vertical Shift Range	Vertical range at any Horizontal position	Horizontal + (Right)	Horizontal - (Left)
cm	cm	cm	cm	cm	cm
54.5	46.6	7.9	N/A	0.0	0.0
60.5	51.8	8.7	N/A	0.0	0.0
75.7	64.8	10.9	N/A	0.0	0.0
90.8	77.7	13.1	N/A	0.0	0.0
105.9	90.7	15.3	N/A	0.0	0.0
121.1	103.6	17.5	N/A	0.0	0.0
136.2	116.6	19.6	N/A	0.0	0.0
151.3	129.5	21.8	N/A	0.0	0.0
181.6	155.4	26.2	N/A	0.0	0.0
227.0	194.3	32.7	N/A	0.0	0.0
272.4	233.1	39.3	N/A	0.0	0.0
302.6	259.0	43.6	N/A	0.0	0.0
378.3	323.8	54.5	N/A	0.0	0.0
453.9	388.5	65.4	N/A	0.0	0.0

**Note:**

- Vertical Lens Shift values are always calculated from the Center of Projection Lens. Therefore the distance 5.4 cm (2.13 inch) from the Base to the Center of Projection Lens needs to be added to each Vertical Lens Shift value.
- Zoom ratio is 1.6x.

(WU416\_C16)

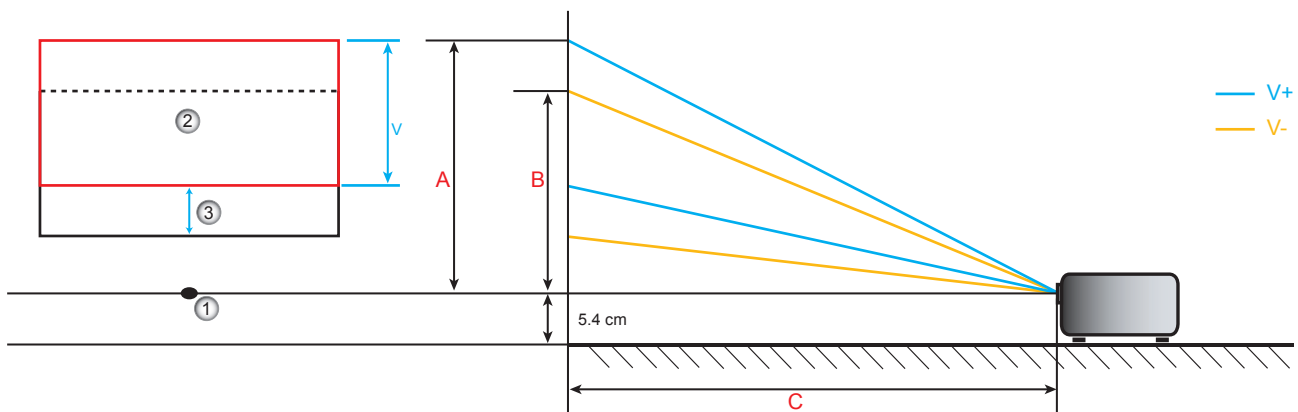
Desired Image Size						Projection Distance (C)			
Diagonal		Width		Height		Wide		Tele	
m	inch	m	inch	m	inch	m	feet	m	feet
0.91	36	0.78	30.53	0.48	19.08	1.1	3.61	1.7	5.58
1.02	40	0.86	33.92	0.54	21.2	1.2	3.94	1.9	6.23
1.27	50	1.08	42.4	0.67	26.5	1.5	4.92	2.4	7.87
1.52	60	1.29	50.88	0.81	31.8	1.8	5.91	2.9	9.51
1.78	70	1.51	59.36	0.94	37.1	2.1	6.89	3.4	11.15
2.03	80	1.72	67.84	1.08	42.4	2.4	7.87	3.8	12.47
2.29	90	1.94	76.32	1.21	47.7	2.7	8.86	4.3	14.11
2.54	100	2.15	84.8	1.35	53	3.0	9.84	4.8	15.75
3.05	120	2.58	101.76	1.62	63.6	3.6	11.81	5.7	18.70
3.81	150	3.23	127.2	2.02	79.5	4.5	14.76	7.2	23.62
4.57	180	3.88	152.64	2.42	95.4	5.4	17.72	8.6	28.22
5.08	200	4.31	169.6	2.69	106	6.0	19.69	9.6	31.50
6.35	250	5.38	212	3.37	132.5	7.5	24.61	/	/
7.62	300	6.46	254.4	4.04	159	9.0	29.53	/	/

# ADDITIONAL INFORMATION

Lens Shift Range					
PJ lens Center to top of image				Image Shift Range	
Vertical + (Max) (A)	Vertical - (Min) (B)	Vertical Shift Range	Vertical range at any Horizontal position	Horizontal + (Right)	Horizontal - (Left)
cm	cm	cm	cm	cm	cm
53.0	45.6	7.5	N/A	0.0	0.0
58.9	50.6	8.3	N/A	0.0	0.0
73.6	63.3	10.4	N/A	0.0	0.0
88.4	75.9	12.4	N/A	0.0	0.0
103.1	88.6	14.5	N/A	0.0	0.0
117.8	101.2	16.6	N/A	0.0	0.0
132.6	113.9	18.7	N/A	0.0	0.0
147.3	126.5	20.7	N/A	0.0	0.0
176.7	151.9	24.9	N/A	0.0	0.0
220.9	189.8	31.1	N/A	0.0	0.0
265.1	227.8	37.3	N/A	0.0	0.0
294.6	253.1	41.5	N/A	0.0	0.0
368.2	316.4	51.8	N/A	0.0	0.0
441.8	379.6	62.2	N/A	0.0	0.0

**Note:**

- Vertical Lens Shift values are always calculated from the Center of Projection Lens. Therefore the distance 5.4 cm (2.13 inch) from the Base to the Center of Projection Lens needs to be added to each Vertical Lens Shift value.
- Zoom ratio is 1.6x.

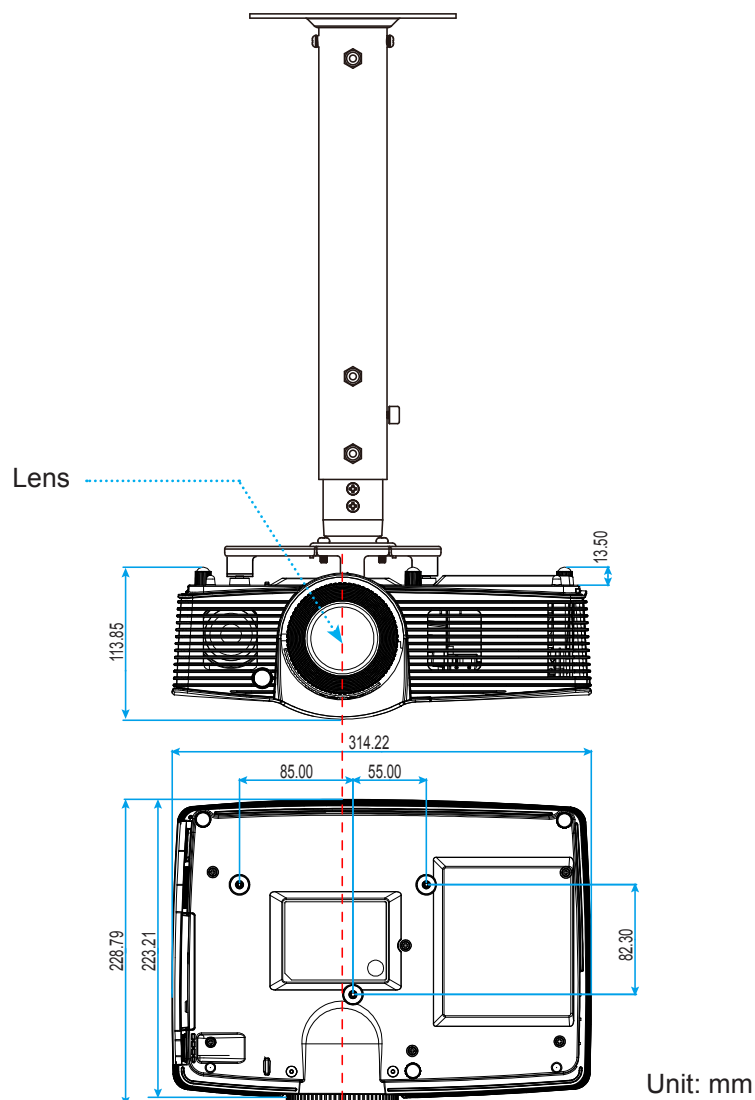


1. Center of projector lens.
2. Projection image while lens shift at the highest position
3. Vertical shift range : 10% V

# 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.

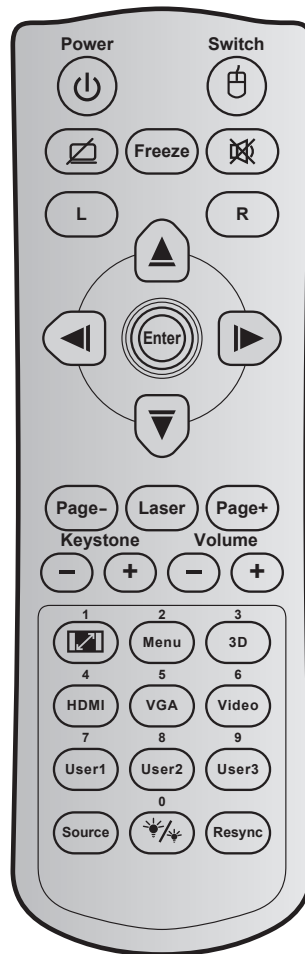


Warning:

- 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	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.
Laser	N/A	Laser	Use as laser pointer.

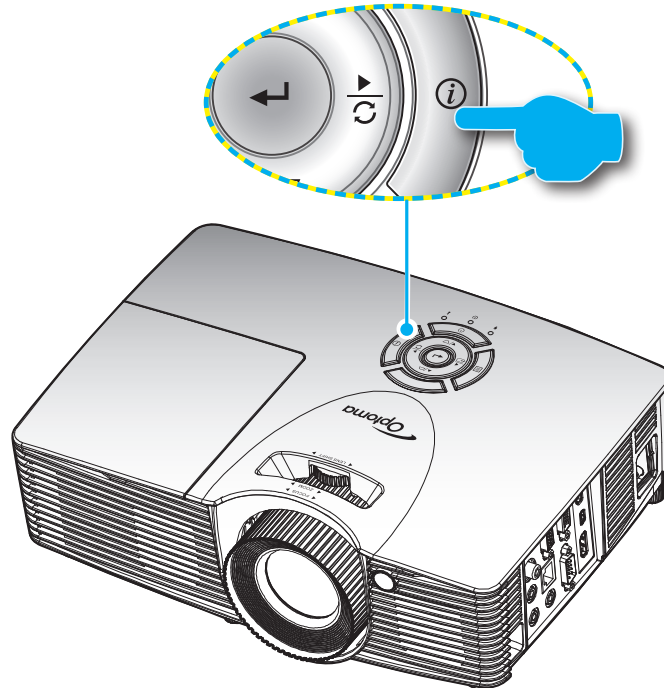
# ADDITIONAL INFORMATION

Key		Key code	Printing-key definition	Description
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 41 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.

# ADDITIONAL INFORMATION

## Using the Information button

The Information function ensures easy setup and operation. Press the **i** button on the keypad to open the Information menu.



## 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 pages 56-60).



# ADDITIONAL INFORMATION

## *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 ring 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--> Geometric Correction --> V Keystone" and "Display--> Geometric Correction --> H 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.

## *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.

# ADDITIONAL INFORMATION

## Remote control problems

-  *If the remote control does not work*
- Check the operating angle of the remote control is pointed within  $\pm 15^\circ$  horizontally and  $\pm 10^\circ$  vertically to the IR receivers on the projector.
  - Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (23 ft) of the projector.
  - Make sure batteries are inserted correctly.
  - Replace batteries if they are exhausted.


















## Warning indicators

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

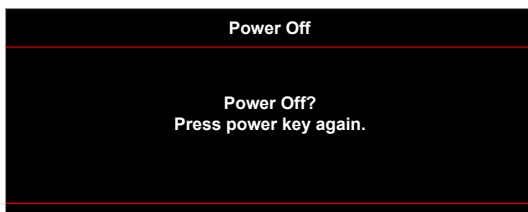
- "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes amber.
- "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes amber. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- "TEMP" LED indicator flashes red and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

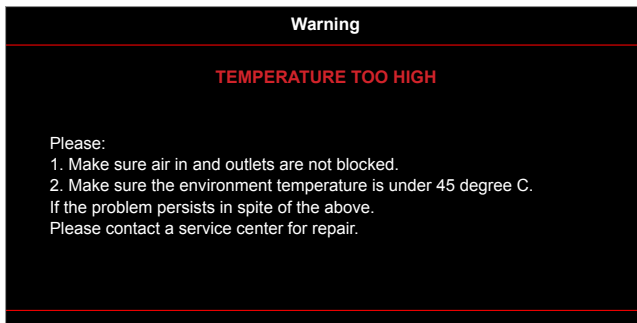


# ADDITIONAL INFORMATION

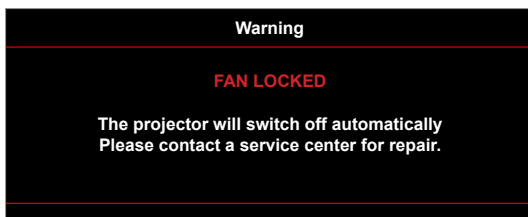
- Lamp warning:



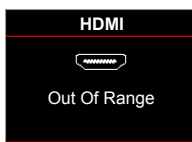
- Temperature warning:



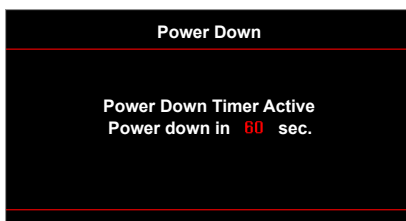
- Fan failed:



- Out of display range:



- Power down warning:



- Security timer alarm:



# ADDITIONAL INFORMATION

## Specifications

Optical	Description
Maximum resolution	- Up to UXGA, 1600 x1200, 60Hz WUXGA for WXGA 16:10 - 1920x1200 @60hz only supported for RB (Reduced Blanking)
Lens	- Manual zoom and manual focus
Lamp	- In Bright mode (Normal mode) 3000 hours standard @260W, 50% survival rate - In STD mode (Eco mode) 5000 hours typical @220W, 50% survival rate - In ImageCare (Normal mode) 5500 hours typical @260W, 50% survival rate - In ImageCare (Eco mode) 7000 hours typical @220W, 50% survival rate
Image size (diagonal)	XGA format: - 40.47"~300.3" (focus range with optimized @60" image size) WXGA format: - 25.66"~301.15" 1080p format: - 26.2"~301.1" WUXGA format: - 26.94"~302.9" (focus range with optimized @60" image size)
Projection distance	XGA format: - 1.3m~7.1m (focus range with optimized @1.42m throw distance) WXGA format: - 1.3m~9.6m (focus range with optimized @1.913m) 1080p format: - 1.3m~9.4m (focus range with optimized @1.873m) WUXGA format: - 1.30m~9.2m (focus range with optimized @1.822m throw distance)

Electrical	Description
Inputs	- HDMI 1.4a - HDMI 1.4a + MHL (v2.2) - VGA (YPbPr/RGB/wireless) - Audio 3.5mm *2 - Composite video
Outputs	- VGA - Audio 3.5mm - USB-A Power
Control	- RS232 - USB mouse/Service - RJ-45
Color reproduction	1073.4 Million color

# ADDITIONAL INFORMATION

Electrical	Description
Scan rate	- Horizontal scan rate: 15.375~91.146 KHz - Vertical scan rate: 24~ 85 Hz (120Hz for 3D featured projector)
Built-in speaker	Yes, 10W
Power requirement	100 - 240V ±10 50/60Hz
Input current	2.5-1.0 A

Mechanical	Description
Installation orientation	Desktop/Front, Desktop/Rear, Ceiling/Front, Ceiling/Rear
Dimensions	- 314 mm (W) x 223.8 mm (D) x 100.35 mm (H) (without feet) - 314 mm (W) x 223.8 mm (D) x 113.85 mm (H) (with feet)
Weight	<3.1 kg
Environmental conditions	Operating: 5 ~ 40°C, 10% to 85% humidity (non-condensing)

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




# ADDITIONAL INFORMATION

## Optoma global offices

For service or support, please contact your local office.




### USA

3178 Laurelview Ct.  
Fremont, CA 94538, USA  
www.optomausa.com

 888-289-6786  
 510-897-8601  
 [services@optoma.com](mailto:services@optoma.com)




### Canada

3178 Laurelview Ct.  
Fremont, CA 94538, USA  
www.optomausa.com

 888-289-6786  
 510-897-8601  
 [services@optoma.com](mailto:services@optoma.com)

### Latin America

3178 Laurelview Ct.  
Fremont, CA 94538, USA  
www.optomausa.com

 888-289-6786  
 510-897-8601  
 [services@optoma.com](mailto:services@optoma.com)



### Europe

42 Caxton Way, The Watford Business Park  
Watford, Hertfordshire,  
WD18 8QZ, UK  
www.optoma.eu  
Service Tel : +44 (0)1923 691865

 +44 (0) 1923 691 800  
 +44 (0) 1923 691 888  
 [service@tsc-europe.com](mailto:service@tsc-europe.com)




### Benelux BV

Randstad 22-123  
1316 BW Almere  
The Netherlands  
www.optoma.nl

 +31 (0) 36 820 0252  
 +31 (0) 36 548 9052



### France

Bâtiment E  
81-83 avenue Edouard Vaillant  
92100 Boulogne Billancourt, France

 +33 1 41 46 12 20  
 +33 1 41 46 94 35  
 [savoptoma@optoma.fr](mailto:savoptoma@optoma.fr)




### Spain

C/ José Hierro,36 Of. 1C  
28522 Rivas VaciaMadrid,  
Spain

 +34 91 499 06 06  
 +34 91 670 08 32




### Deutschland

Wiesenstrasse 21 W  
D40549 Düsseldorf,  
Germany

 +49 (0) 211 506 6670  
 +49 (0) 211 506 66799  
 [info@optoma.de](mailto:info@optoma.de)

### Scandinavia



Lerpeveien 25  
3040 Drammen  
Norway

 +47 32 98 89 90  
 +47 32 98 89 99  
 [info@optoma.no](mailto:info@optoma.no)

PO.BOX 9515  
3038 Drammen  
Norway


### Korea

WOOMI TECH.CO.,LTD.  
4F, Minu Bldg.33-14, Kangnam-Ku,  
Seoul,135-815, KOREA  
korea.optoma.com

 +82+2+34430004  
 +82+2+34430005




### Japan

東京都足立区綾瀬3-25-18  
株式会社オーエス  
コンタクトセンター:0120-380-495

 [info@os-worldwide.com](mailto:info@os-worldwide.com)  
[www.os-worldwide.com](http://www.os-worldwide.com)



### Taiwan

12F., No.213, Sec. 3, Beixin Rd.,  
Xindian Dist., New Taipei City 231,  
Taiwan, R.O.C.  
www.optoma.com.tw

 +886-2-8911-8600  
 +886-2-8911-6550  
 [services@optoma.com.tw](mailto:services@optoma.com.tw)  
[asia.optoma.com](http://asia.optoma.com)



### Hong Kong

Unit A, 27/F Dragon Centre,  
79 Wing Hong Street,  
Cheung Sha Wan,  
Kowloon, Hong Kong

 +852-2396-8968  
 +852-2370-1222  
[www.optoma.com.hk](http://www.optoma.com.hk)

### China

5F, No. 1205, Kaixuan Rd.,  
Changning District  
Shanghai, 200052, China

 +86-21-62947376  
 +86-21-62947375  
[www.optoma.com.cn](http://www.optoma.com.cn)

