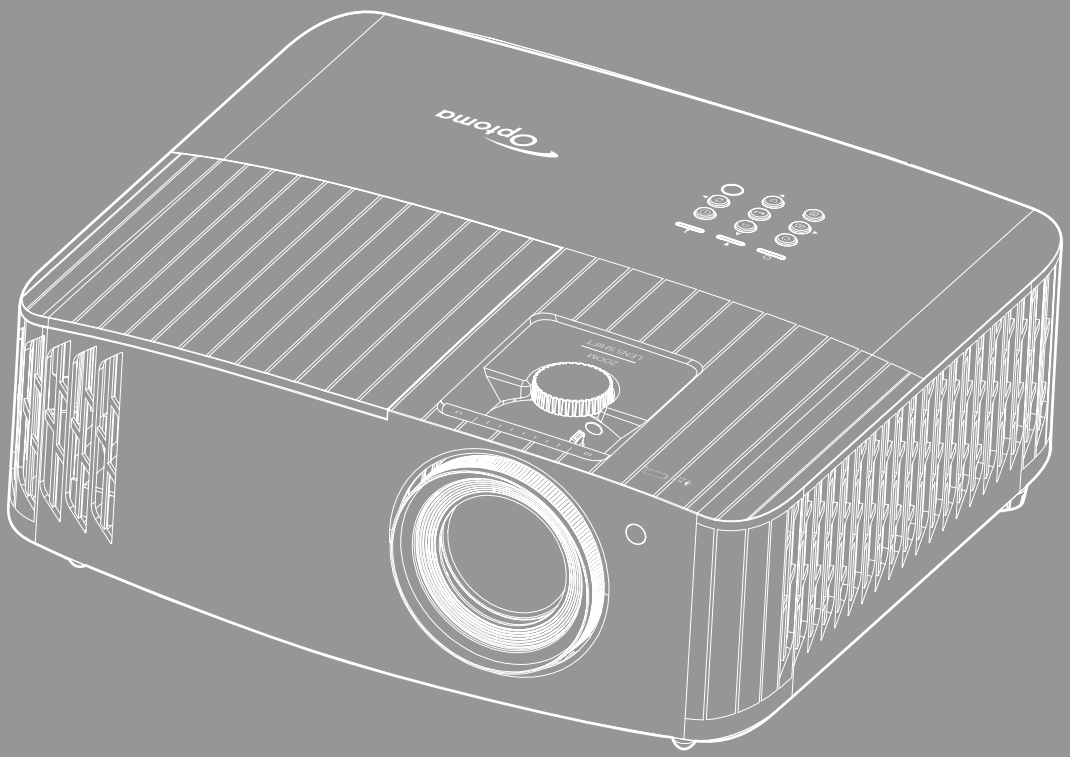
DLP® Projector



User manual

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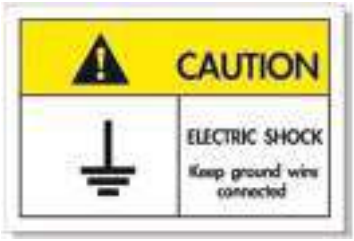
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SAFETY

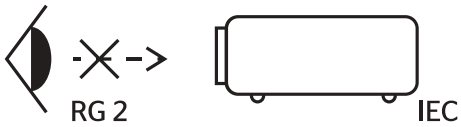
	The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral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

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



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

Important Safety Instruction

- To prolong the effective life of the lamp, make sure to keep the lamp on for at least 60 seconds and avoid performing force shutdown.
- 

Do not stare into the beam, RG2.
As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
  - ± In extremely hot, cold or humid environments.
    (i) Ensure that the ambient room temperature is within 5°C ~ 40°C
    (ii) Relative humidity is 10% ~ 85%
  - ± In areas susceptible to excessive dust and dirt.
  - ± Near any appliance generating a strong magnetic field.
  - ± In direct sunlight.
- Do not use the projector in places where flammable gases or explosives gases may be present in the atmosphere. The lamp inside the projector becomes very hot during operation and the gases may ignite and result in a fire.
- Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
  - ± Unit has been dropped.
  - ± Power supply cord or plug has been damaged.

± Liquid has been spilled on to the projector.

± Projector has been exposed to rain or moisture.

± Something has fallen in the projector or something is loose inside.

- Do not place the projector on an unstable surface. The projector may fall over resulting in injury or the projector may become damaged.
- Do not block the light coming out of the projector lens when in operation. The light will heat the object and could melt, cause burns or start a fire.
- Please do not open or disassemble the projector as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- See projector enclosure for safety related markings.
- The unit should only be repaired by appropriate service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look into straight into the projector lens during operation. The bright light may harm your eyes.
- When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages *59-60*.
- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Reset the "Lamp Reset" function from the on-screen display "Lamp Settings" menu after replacing the lamp module.
- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- When the lamp is approaching to the end of its life time, the message "Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the unit.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Note: *When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under “Replacing the Lamp” section on pages 59-60.*

- *Do not setup the projector in places where it might be subjected to vibration or shock.*
- *Do not touch the lens with bare hands.*
- *Remove battery/batteries from remote control before storage. If the battery/batteries are left in the remote for long periods, they may leak.*
- *Do not use or store the projector in places where smoke from oil or cigarettes may be present, as it can adversely affect the quality of the projector performance.*
- *Please follow the correct projector orientation installation as non standard installation may affect the projector performance.*
- *Use a power strip and or surge protector. As power outages and brown-outs can KILL devices*.

Cleaning the Lens

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



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



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



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

3D Safety Information

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

Warning

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

Photosensitive Seizure Warning and Other Health Risks

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

Copyright

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

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Disclaimer

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

Trademark Recognition

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

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

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

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

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

FCC

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

Operation Conditions

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

1. This device may not cause harmful interference and

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

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU countries

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

WEEE



Disposal instructions

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

INTRODUCTION

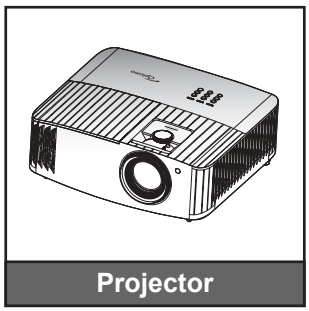
Thank you for purchasing an Optoma 4K UHD projector. For full list of features please visit the product page on our website, where you will also find additional information and documentation such as voice control setup and FAQs.

Package Overview

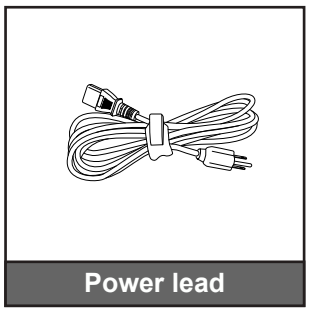
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

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

Standard accessories


Projector


IR remote control


Power lead

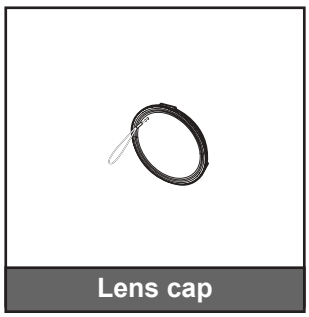


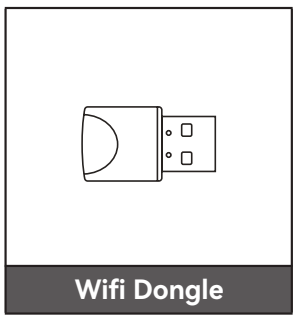
Documentation

Note:

- *The actual remote control may vary depending on the region.*
- *The remote control is shipped with battery*.
- ** For warranty Information, please visit https://www.optoma.com/support/download.*

Optional accessories

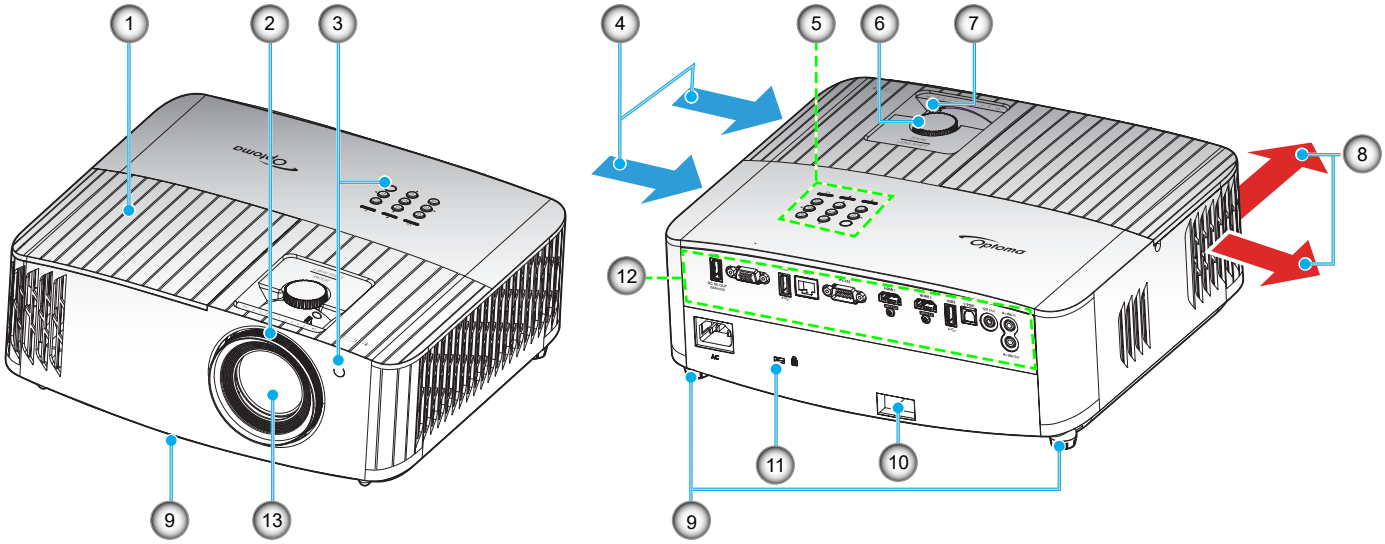

Lens cap

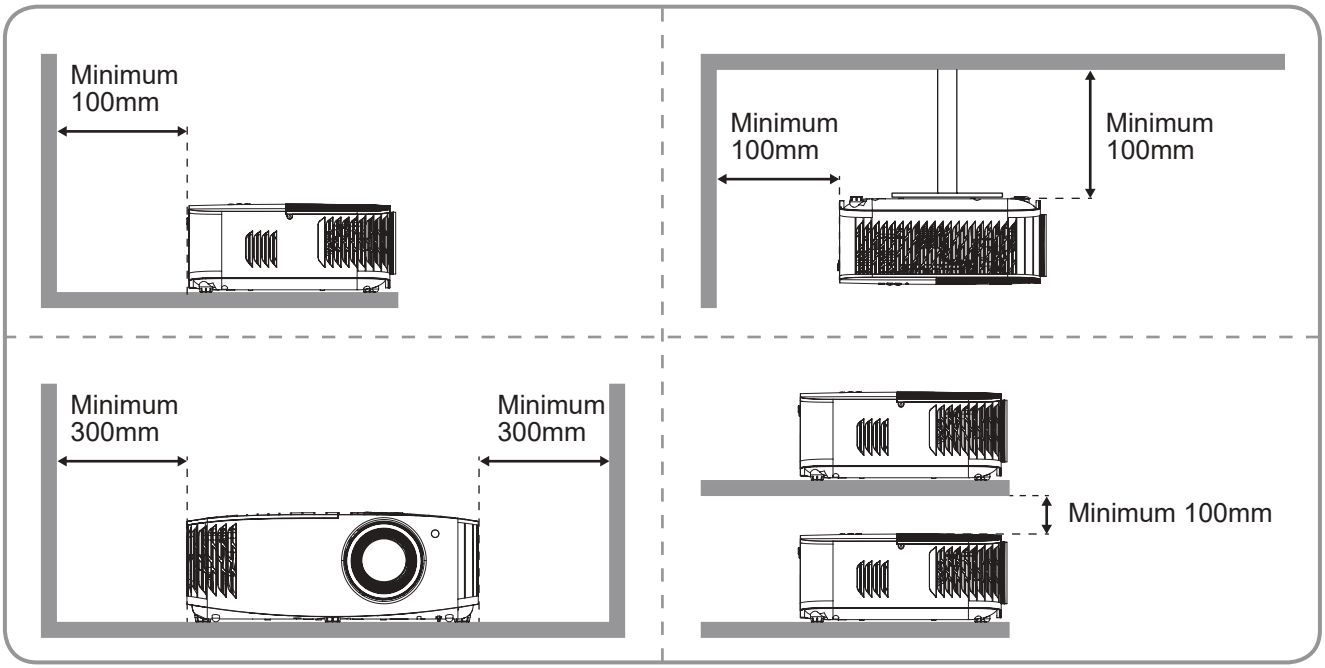

Wifi Dongle

Note: *Accessories vary depending on model, specification and region. Some optional accessories may be available to purchase in select regions. Please visit our website to see more details regarding the accessories included.*

INTRODUCTION

Product Overview





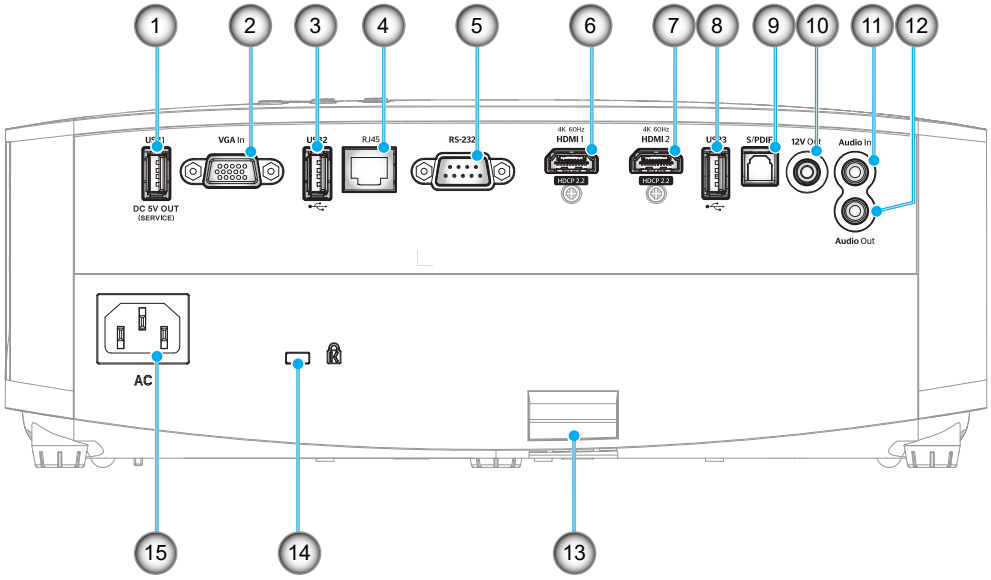
Note:

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

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

INTRODUCTION

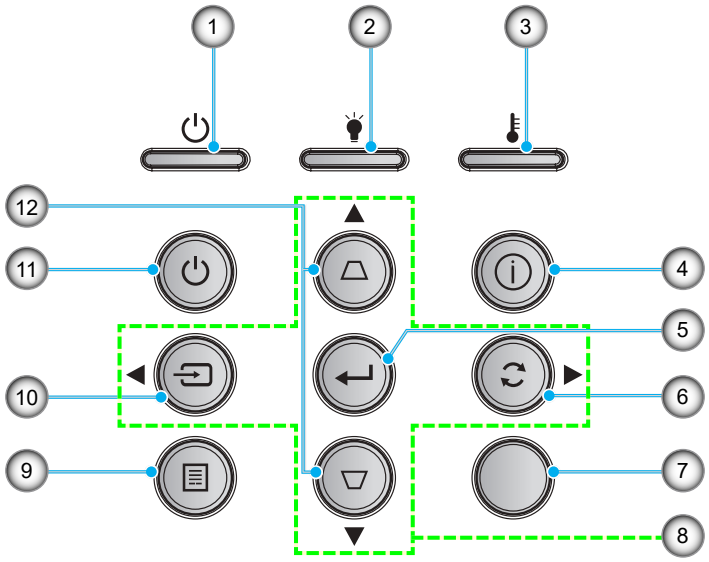
Connections



No	Item	No	Item
1.	USB Power OUT (5V⎓1.5A) Connector	9.	S/PDIF Connector (only 2ch PCM supported)
2.	VGA In Connector	10.	12V Out Connector
3.	USB Port (WiFi dongle/Media Player)	11.	Audio In Connector
4.	RJ-45 Connector	12.	Audio Out Connector
5.	RS-232 Connector	13.	Security Bar
6.	HDMI 1 Connector (4K 60Hz; for low latency gaming)	14.	Kensington™ Lock Port
7.	HDMI 2 Connector (4K 60Hz; for PureMotion)	15.	Power Socket
8.	USB Port (WiFi dongle/Media Player)		

INTRODUCTION

Keypad

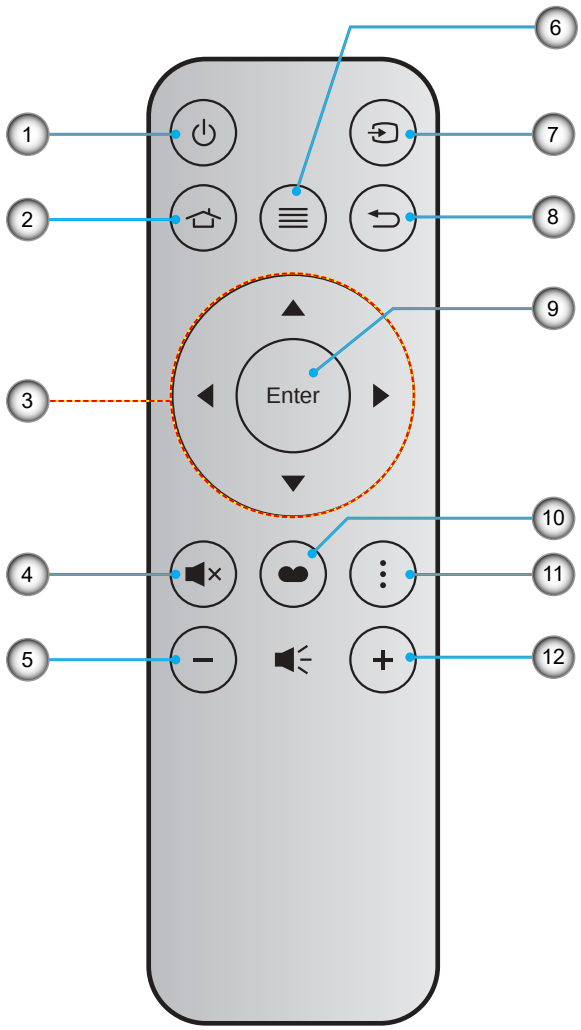


No	Item	No	Item
1.	On/Standby LED	7.	IR Receiver
2.	Lamp LED	8.	Four Directional Select Keys
3.	Temp LED	9.	Menu
4.	Information	10.	Source
5.	Enter	11.	Power
6.	Re-Sync	12.	Keystone Correction

Note: *The keypad does not control the home screen. Please use the remote control to navigate.*

INTRODUCTION

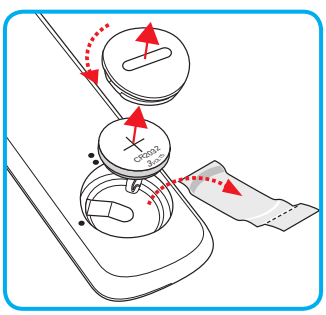
Remote control



No	Item	No	Item
1.	Power On / Off	7.	Source
2.	Home	8.	Return
3.	Four Directional Select Keys	9.	Enter
4.	Mute	10.	Display Mode
5.	Volume -	11.	Option
6.	Menu	12.	Volume +

Note:

- *Some keys may have no function for models that do not support these features.*
- *Before using the remote control for the first time, remove the transparent insulation tape. See page 17 for battery installation.*

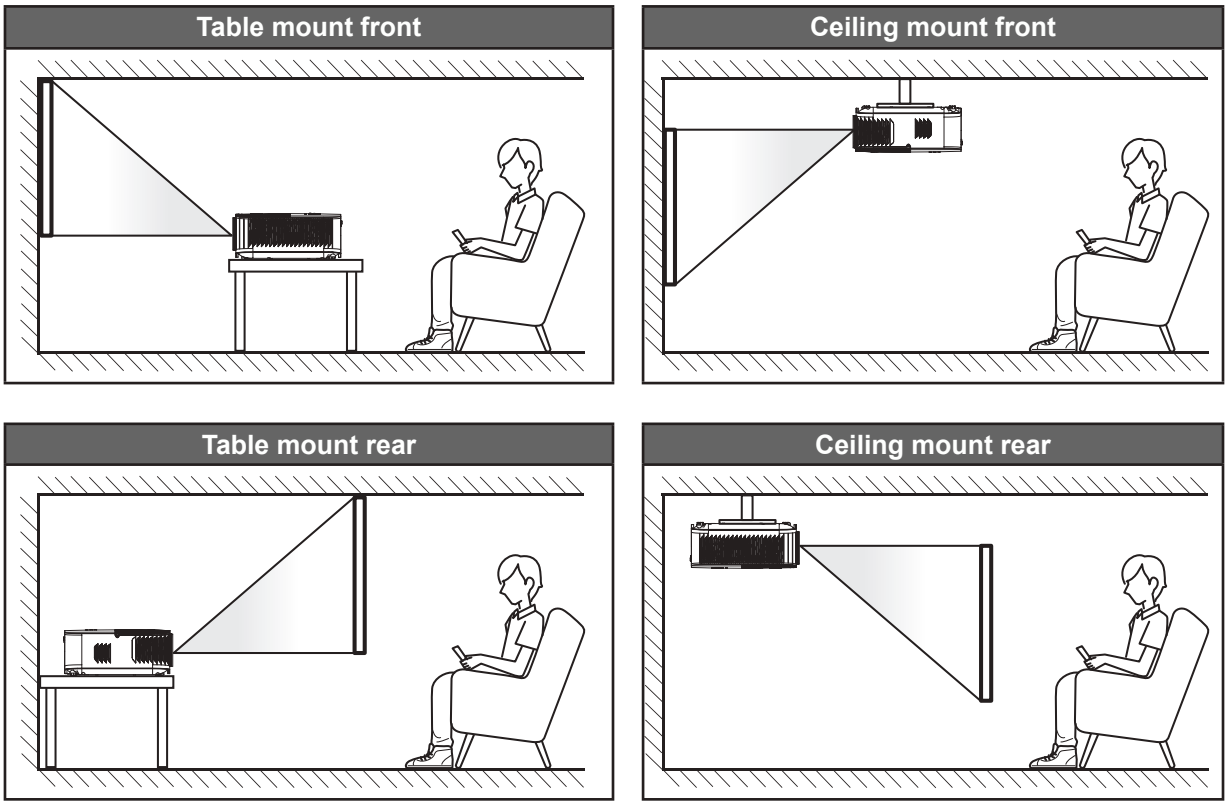


SETUP AND INSTALLATION

Installing the projector

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

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



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

- How to determine projector location for a given screen size, please refer to distance table on page *67*.
- How to determine screen size for a given distance, please refer to distance table on page *67*.

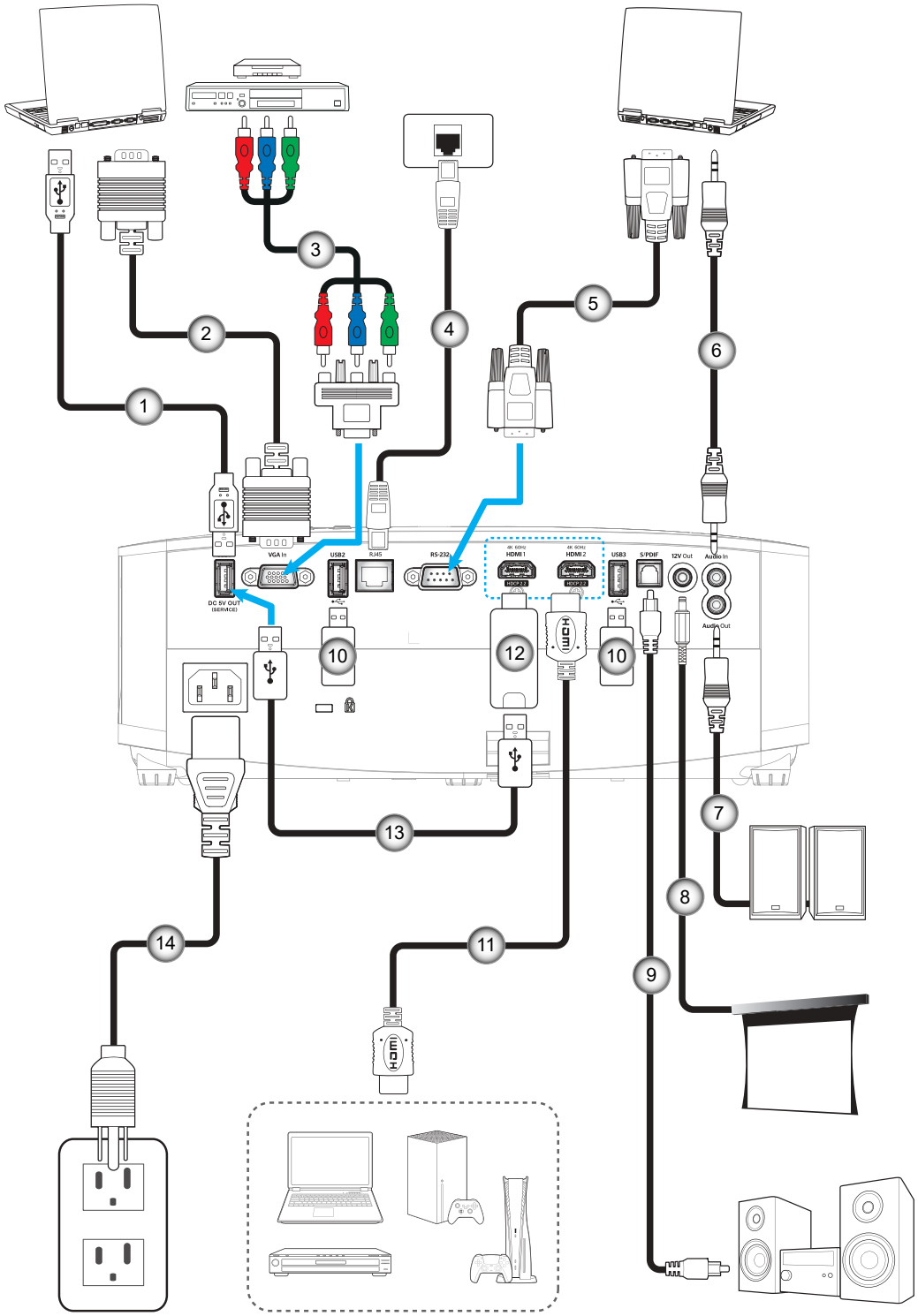
Note: *The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.*

IMPORTANT!

Do not operate the projector in any orientation other that table top or ceiling mount. The projector should be horizontal and not tilted either forwards/backwards or left/right. Any other orientation will invalidate the warranty and may shorten the lifetime of the projector lamp or the projector itself. For none standard installation advise please contact Optoma.

SETUP AND INSTALLATION

Connecting sources to the projector



No	Item
1.	USB Cable
2.	VGA In Cable
3.	RCA Component Cable
4.	RJ-45 Cable
5.	RS-232 Cable

No	Item
6.	Audio In Cable
7.	Audio Out Cable
8.	12V DC Jack
9.	S/PDIF Out Cable
10.	USB Disk Drive

No	Item
11.	HDMI Cable
12.	HDMI Dongle
13.	USB Power Cable
14.	Power Cord

Note: *To ensure the best image quality and avoid connection errors, we recommend the use of Premium HDMI cables. For the cable lengths longer than 20-25 feet, we strongly recommend using Active Fiber HDMI cables.*

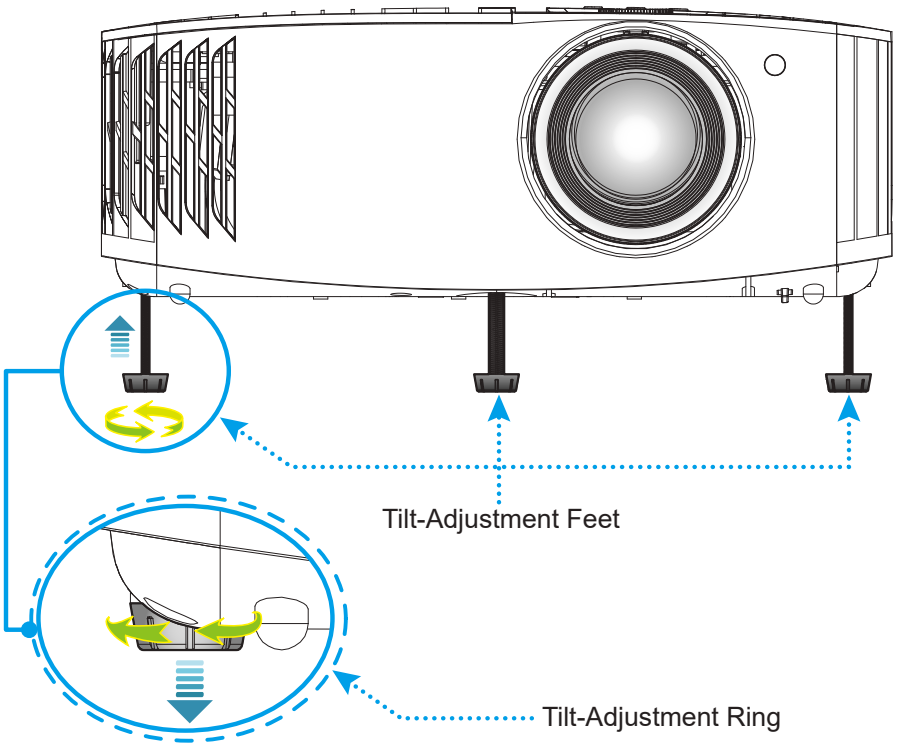
SETUP AND INSTALLATION

Adjusting the projector image

Image height

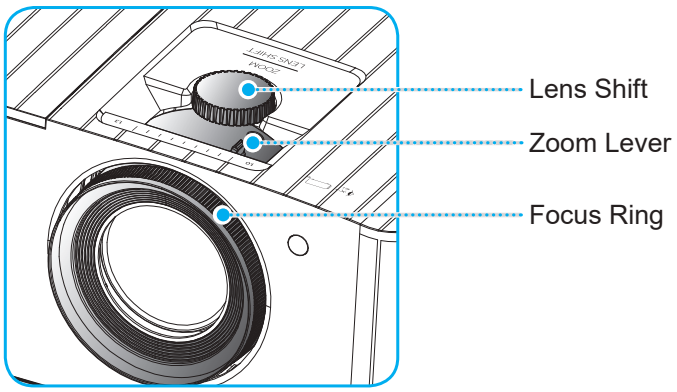
The projector is equipped with elevator feet for adjusting the image height.

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, lens shift, and focus

- To adjust the image size and position, do the following:
  a. To adjust the image size, turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size.
  b. To adjust the image position, turn the lens shift dial clockwise or counterclockwise to adjust the position of the projected image vertically.
- To adjust the focus, turn the focus ring clockwise or counterclockwise until the image is sharp and legible.



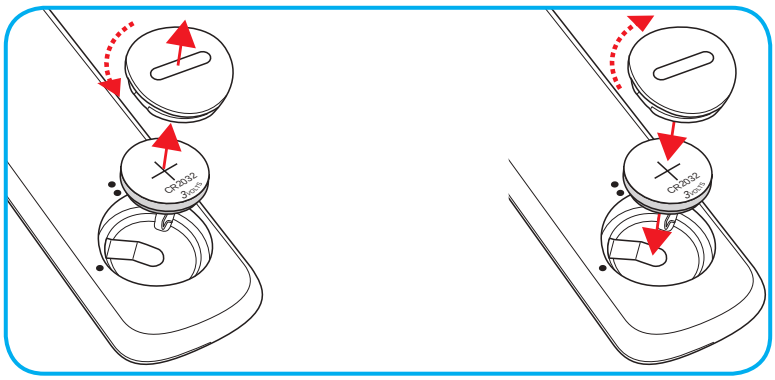
Note: *The projector will focus at a distance of 1.2m to 8.1m.*

SETUP AND INSTALLATION

Remote setup

Installing / replacing the battery

1. Use a coin to turn the battery cover counterclockwise until the cover opens.
2. Install new battery into the compartment.
   Remove the old battery and install new one (CR2032). Ensure that the side with a “+” is facing up.
3. Put the cover back. Then use a coin to turn the battery cover clockwise to lock it in place.



CAUTION:

To ensure safe operation, please observe the following precautions:

- Use CR2032 type battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used battery according to the instructions.

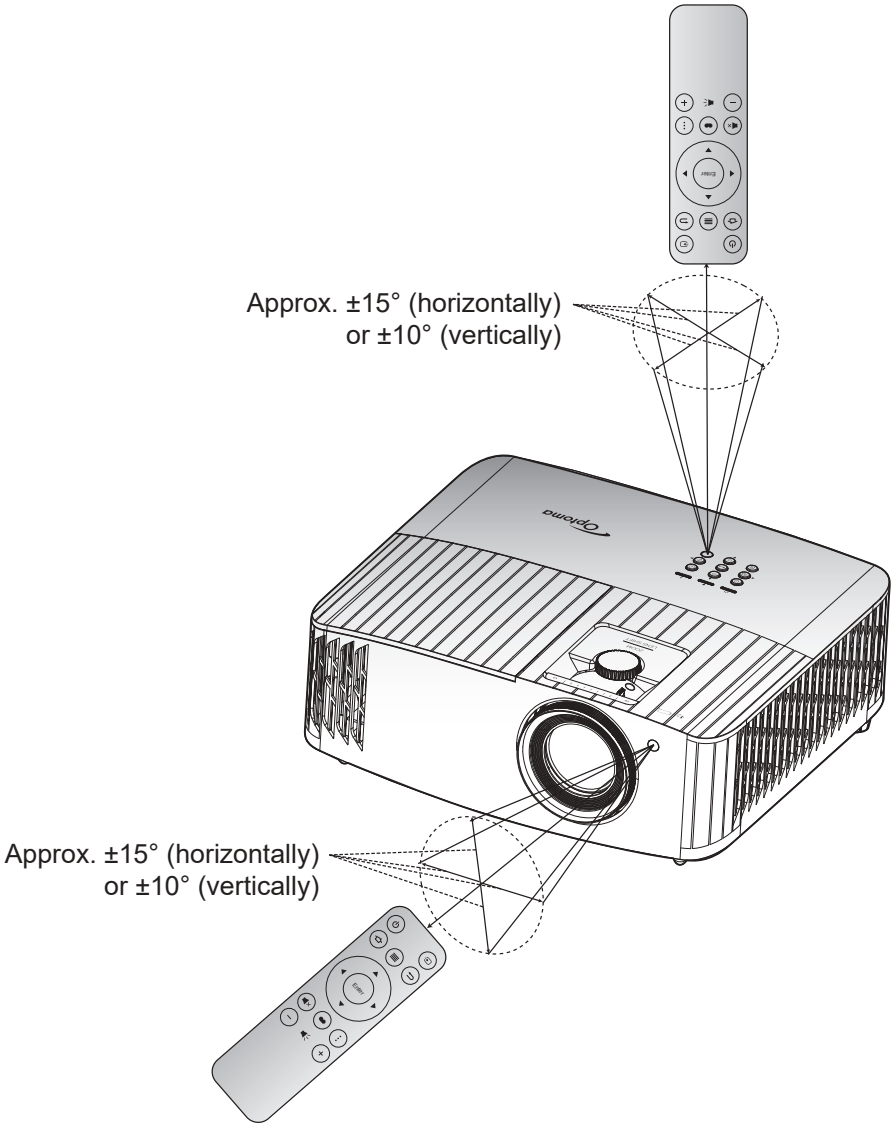
SETUP AND INSTALLATION

Effective range

Infra-Red (IR) remote control sensor is located on top of the projector. Ensure to hold the remote control at an angle within 30° (horizontally) or 20° (vertically) perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer than 7 meters (~22 feet).

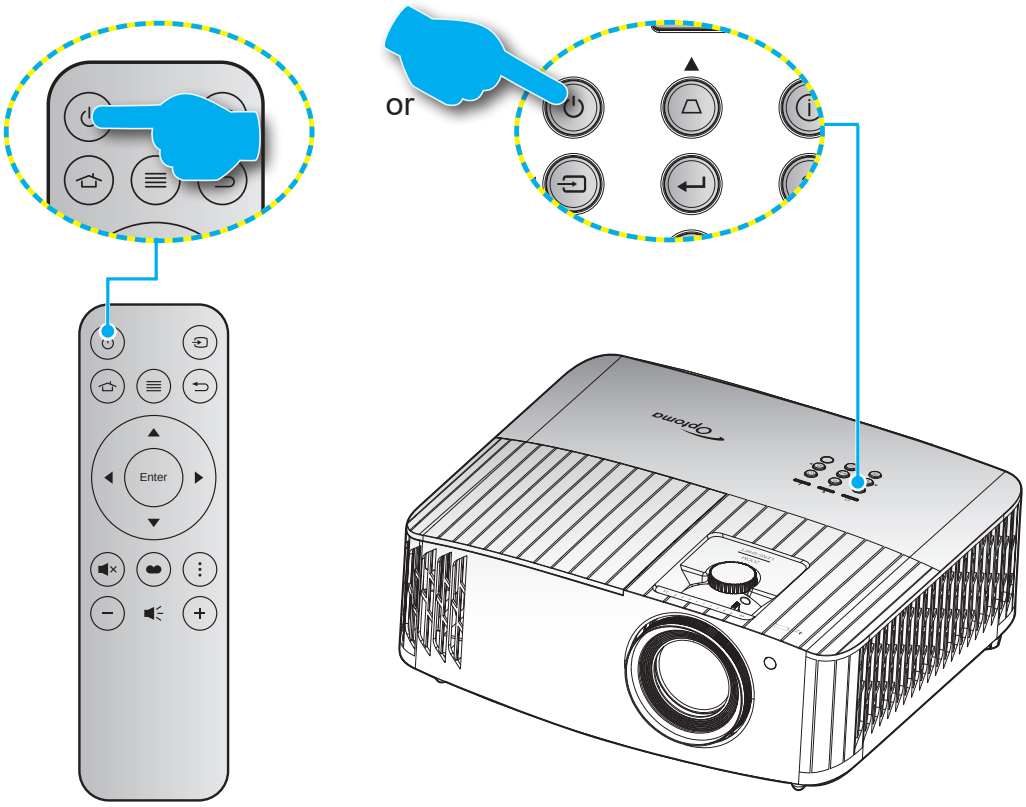
Note: *When pointing the remote control directly (0 degrees angle) on the IR sensor, the distance between the remote control and the sensor should not be longer than 10 meters (~32 feet).*

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.
- Please keep the remote controller away from fluorescent lamps for over 2 meters or the remote controller might become malfunction.
- If the remote control is close to Inverter-Type fluorescent lamps, it might become ineffective from time to time.
- If the remote control and the projector are within a very short distance, the remote control might become ineffective.
- When you aim at the screen, the effective distance is less than 7 meters from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.



USING THE PROJECTOR

Powering on / off the projector



Powering on

1. Securely connect the power lead and signal/source cable. When connected, the On/Standby LED will turn red.
2. Turn on the projector by pressing the "⏻" button on the projector keypad or the remote control.
3. A start up screen will display in approximately 10 seconds and the On/Standby LED will be flashing blue.

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

The first time the projector is turned on, you will be prompted to do the initial setup including selecting the projection orientation, preferred language, configuring network settings, and more. Once the ***Setup Complete!*** screen appears, it indicates the projector is ready to use.



[Projection screen]



[Language screen]



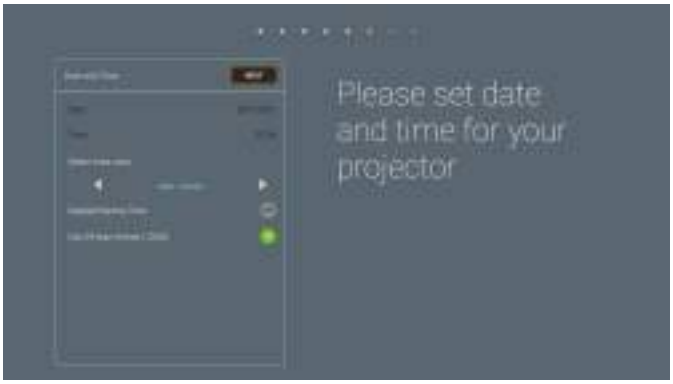
[Focus adjustment screen]



[Wi-Fi dongle installation screen]



[Network screen]



[Date and time screen]



[Regulation screen]

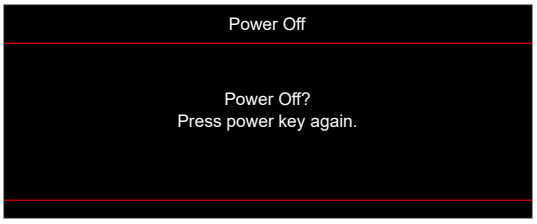


[Optoma Connect screen]

USING THE PROJECTOR

Powering off

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



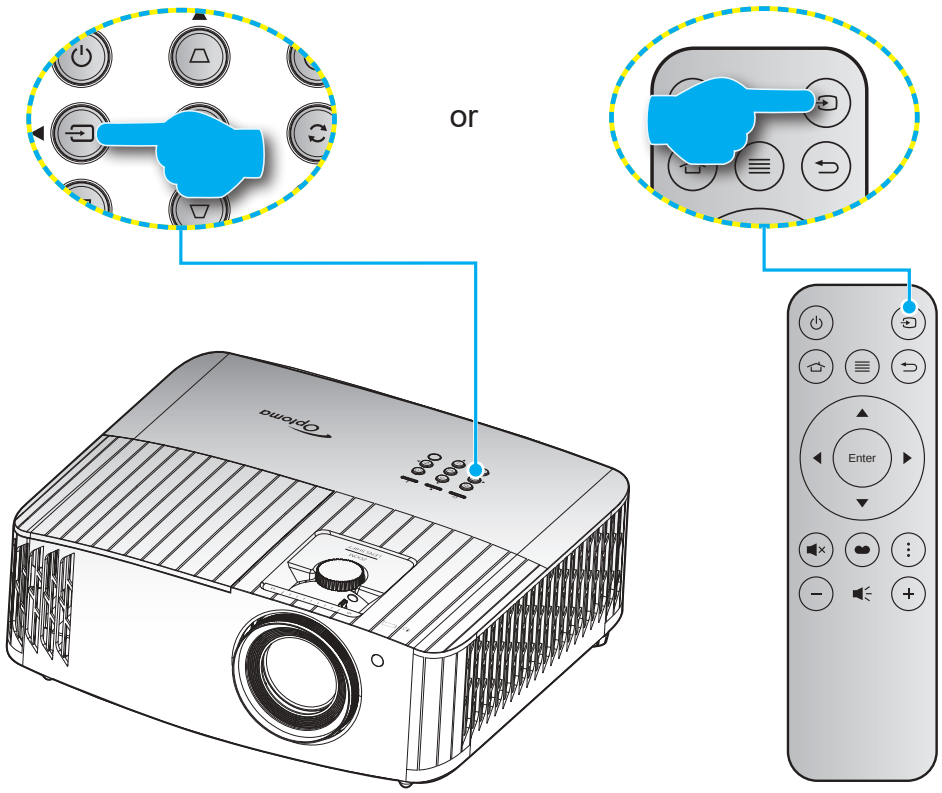
3. Press the "⏻" button again to confirm, otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/Standby LED will flash blue.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

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

USING THE PROJECTOR

Selecting an input source

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



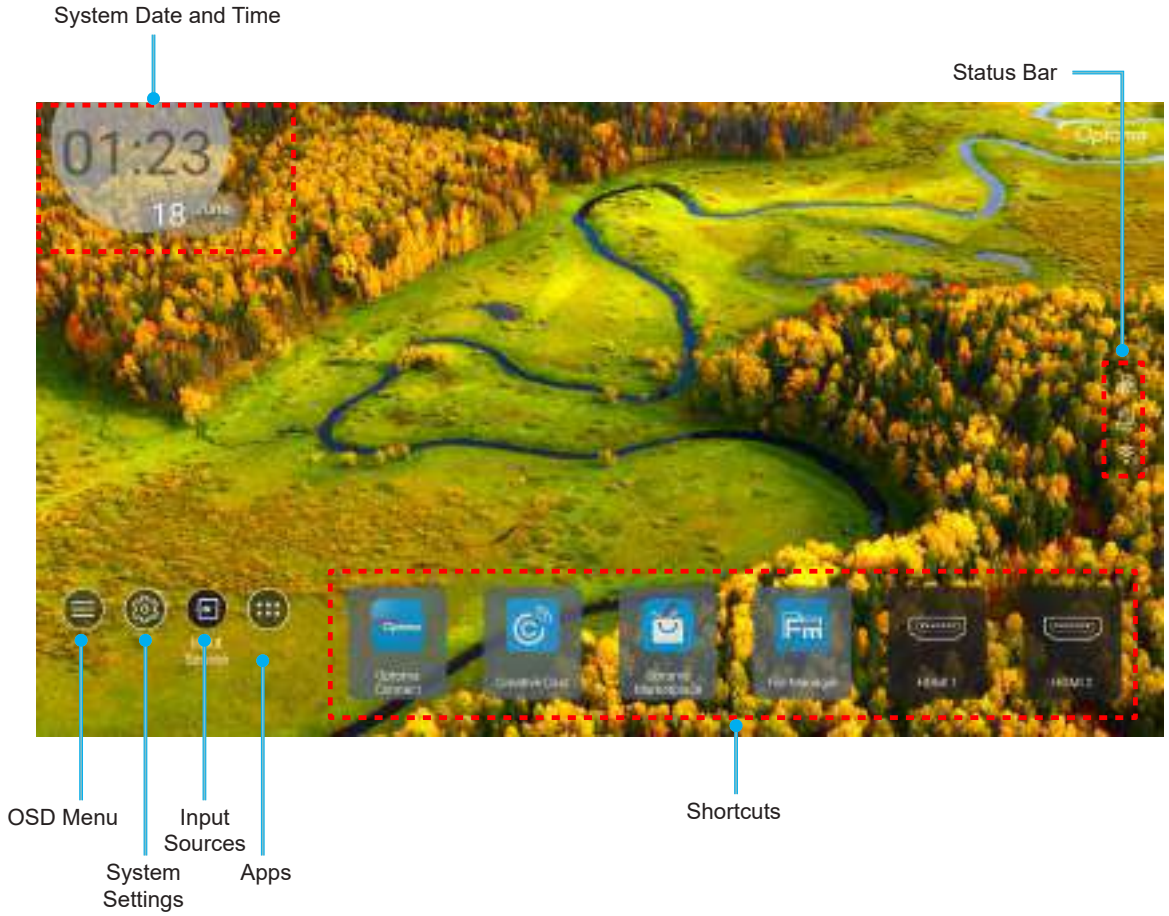
USING THE PROJECTOR

Home screen overview

The Home screen is displayed every time you start the projector. It contains system date and time, system status, icons to access OSD menu, projector settings menu, apps, input sources, and more.

To navigate the Home screen, simply use the buttons on the remote control.

You can return to the Home screen at any time by pressing " " on the remote control, regardless of your position in the user interface.



Note: *The selected menu or item is highlighted in orange color, for example "Apps" on the image above.*

System date and time

Date and time is displayed on the Home screen if the projector is connected to the network.The default setting is 10:00am, 2019/01/01. AM/PM will appear only if the 24-hour format is off.

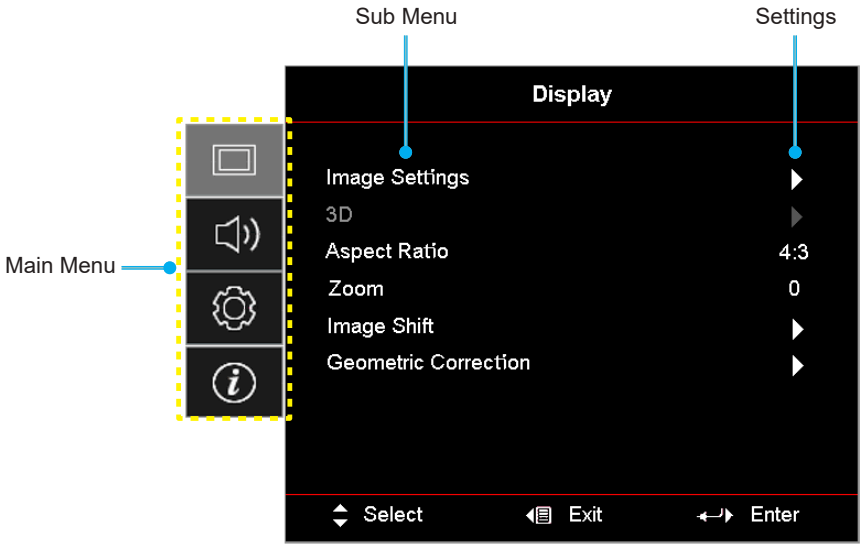
To modify date and time parameters, select the respective field on the screen. The Date and Time settings page opens automatically. Then perform the modifications.

USING THE PROJECTOR

Projector settings menu (OSD)

Press "☰" on the remote control or on the Home screen, select the OSD menu "⚙" to review projector information or manage various settings related to the image, display, 3D, audio, and setup.

General menu navigation



1. When OSD is displayed, use the up and down navigation buttons to select any item in the main menu. While making a selection on a particular page, press "**OK**" to enter submenu.
2. Press the "**Left**" and "**Right**" button to select the desired menu item. Then press "**OK**" to open its sub menu.
3. Press the "**Up**" and "**Down**" button to select the desired item in the sub menu.
4. Press the "**OK**" button to enable or disable a setting or press the "**Left**" and "**Right**" button to adjust a value.
5. Select the next item to be adjusted in the sub menu and modify as described above.
6. To exit, press "⮌" (repeatedly if necessary). The OSD menu will close and the projector will automatically save the new settings.

USING THE PROJECTOR

OSD Menu tree

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

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Display Mode			Cinema
					HDR
					HLG
					HDR SIM.
					Game
					Reference
					Bright
					3D
					WCG_SDR
					WCG_HDR
					WCG_HLG
					ISF Day
					ISF Night
					ISF 3D
		Wall Color			Off [Default]
					Blackboard
					Light Yellow
					Light Green
					Light Blue
					Pink
					Gray
		Dynamic Range	HDR/HLG		Off
					Auto [Default]
			HDR Picture Mode		Bright
					Standard [Default]
					Film
					Detail
			HLG Picture Mode		Bright
					Standard [Default]
					Film
					Detail
			HDR Brightness		0 ~ 10
		Brightness			-50 ~ 50
		Contrast			-50 ~ 50
		Sharpness			1 ~ 15
		Color			-50 ~ 50
		Tint			-50 ~ 50

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Gamma			Film
					Video
					Graphics
					Standard(2.2)
					1.8
					2.0
					2.4
					2.6
					3D
		Color Settings	BrilliantColor™		1 ~ 10
			Color Temperature		D55
					D65
					D75
					D83
					D93
					Native
			Color Temperature [WCG_SDR WCG_HDR WCG_HLG]		D65
					D90
			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]
				Reset	Cancel [Default]
					Yes
				Exit	
			RGB Gain/Bias	Red Gain	-50 ~ 50
				Green Gain	-50 ~ 50
				Blue Gain	-50 ~ 50
				Red Bias	-50 ~ 50
				Green Bias	-50 ~ 50
				Blue Bias	-50 ~ 50
				Reset	Cancel [Default]
					Yes
				Exit	

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Color Settings	Color Space [HDMI Input 1]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
					YUV
			Color Space [HDMI2/ VGA/Home/ Component]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
		Signal	Automatic		Off
					On [Default]
			Frequency		0 ~ 100 (depends on signal) [Default: 50]
			Phase		0 ~ 100 (depends on signal) [Default: 50]
			H. Position		0 ~ 100 (depends on signal) [Default: 50]
			V. Position		0 ~ 100 (depends on signal) [Default: 50]
			Exit		
		Brightness Mode			Bright [Default]
					Eco.
					Dynamic
					Eco+
		Reset			
	Enhanced Gaming	Off [Default]			
		On			
	3D	3D Mode			Off [Default]
					On
		3D Sync Invert			Off [Default]
					On
		3D Format			Auto [Default]
					SBS
					Top and Bottom
					Frame Sequential
	Aspect Ratio				4:3
					16:9
					21:9
					32:9
					LBX
					Auto [Default]
	Zoom				-5 ~ 25 [Default: 0]
	Image Shift	H			-100 ~ 100 [Default: 0]
		V			-100 ~ 100 [Default: 0]
	Geometric Correction	Four Corners			
		H Keystone			-40 ~ 40 [Default: 0]
		V Keystone			-40 ~ 40 [Default: 0]
		3x3 Warp			
		Reset			

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	PureMotion	PureMotion			Off
					1
					2
					3 [Default]
Audio	Internal Speaker				Off
					On [Default]
	Mute				Off [Default]
					On
	Volume				0 ~ 10 [Default: 5]
Setup	Projection				Front  [Default]
					Rear 
					Ceiling-top 
					Rear-top 
	Lamp Settings	Lamp Reminder			Off
					On [Default]
		Lamp Reset			Cancel [Default]
					Yes
	Filter Settings	Filter Usage Hours			(read only)
		Optional Filter Installed			Yes
					No
		Filter Reminder			Off
					300hr
					500hr [Default]
					800hr
					1000hr
		Filter Reset			Cancel [Default]
					Yes
	Power Settings	Direct Power On			Off [Default]
					On
		Auto Power Off (min.)			0 ~ 180 (5 min increments) [Default: 20]
		Sleep Timer (min.)			0 ~ 990 (30 min increments) [Default: 0]
			Always On		No [Default]
					Yes
	Security	Security			Off [Default]
					On
		Security Timer	Month		
			Day		
			Hour		
		Change Password			

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	HDMI Link Settings	HDMI Link			Off [Default]
					On
		Power On Link			Mutual [Default]
					PJ --> Device
					Device --> PJ
		Power Off Link			Off [Default]
					On
	Test Pattern				Green Grid
					Magenta Grid
					White Grid
					White
					Off
	Remote Settings [depends on remote]	IR Function			On [Default]
					Off
	Projector ID				00 ~ 99
	12V Trigger	12V Trigger			On
					Off [Default]
	Options	Language			English [Default]
					Deutsch
					Français
					Italiano
					Español
					Português
					簡体中文
					繁體中文
					日本語
					한국어
					Русский
		Menu Settings	Menu Location		Top Left
					Top Right
					Center [Default]
					Bottom Left
					Bottom Right
			Menu Timer		Off
					5sec
					10sec [Default]
		Auto Source			Off [Default]
					On
		Input Source			HDMI 1
					HDMI 2
					VGA
		High Altitude			Off [Default]
					On

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Display Mode Lock			Off [Default]
					On
		Keypad Lock			Off [Default]
					On
		Information Hide			Off [Default]
					On
		Logo			Default [Default]
					Neutral
		Background Color			None [Default]
					Blue
					Red
					Green
					Gray
	Reset	Reset OSD			Cancel [Default]
					Yes
		Reset to Default			Cancel [Default]
					Yes
Info	Regulatory				
	Serial Number				
	MAC Address				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
	Lamp Hours	Bright			
		Eco.			
		Dynamic			
		Eco+			
		Total			
	Projector ID				00 ~ 99
	Filter Usage Hours				
	Brightness Mode				
	FW Version	System			
		Android			
		MCU			

USING THE PROJECTOR

Display menu

Image settings menu

Display Mode

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

- **Cinema**: Provides the best balance of detail and colors for watching movies.
- **HDR**: Delivers color that is highly accurate, exceeding the color performance of the other display modes. This mode decodes and displays High Dynamic Range (HDR) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut.

  Note: *This mode will be automatically enabled if HDR is set to On (and HDR content is sent to projector – 4K UHD Blu-ray, 1080p/4K UHD HDR games, 4K UHD streaming video). While HDR mode is active, all other display modes will be greyed out except for WCG_HDR@HDMI2.*
- **HLG**: Delivers color that is highly accurate, exceeding the color performance of the other display modes. This mode decodes and displays Hybrid Log content (HLG) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut.

  Note: *This mode will be automatically enabled if HDR is set to On (and HLG content is sent to projector). While HLG mode is active, all other display modes will be greyed out except for WCG_HLG@HDMI2.*
- **HDR SIM.**: Enhances non-HDR content with simulated High Dynamic Range (HDR). Choose this mode to enhance gamma, contrast, and color saturation for non-HDR content (720p and 1080p Broadcast/Cable TV, 1080p Blu-ray, non-HDR Games, etc).

  Note: *This mode can ONLY be used with non-HDR content.*
- **Game**: Optimises your projector for maximum contrast and vivid colours allowing you to see shadow detail when playing video game.

  Note: *This display mode cannot be used when viewing HDR video content or playing HDR games. To enable low input lag, please ensure the PC or console is connected to HDMI1 and enable Enhanced Game Mode.*
- **Reference**: This mode reproduces colours as close as possible the image the way the movie director intended. Color, color temperature, brightness, contrast and gamma settings are all configured to Rec.709 color gamut. Select this mode for the most accurate colour reproduction when watching movies.
- **Bright**: This mode is suitable for environments where extra-high brightness is required, such as using the projector in well-lit rooms.
- **3D**: Optimized settings for watching 3D content.

  Note: *To experience the 3D effect, you will need to have compatible DLP Link 3D glasses. See 3D section for more information.*
- **WCG_SDR**: This mode reproduces colours to wide color gamut providing more accurate and true to life color performance.

  Note: *When enabled, this mode will activate the shutter which will reduce the brightness. This mode is not available when viewing content with HDR or HLG metadata. And it is not available when input source @ HDMI1.*
- **WCG_HDR**: This mode enables the wide colour gamut for HDR content providing more accurate and true to life color performance.

  Note: *When enabled, this mode will activate the shutter which will reduce the brightness. This mode is only available when viewing content with HDR metadata. And it is not available when input source @ HDMI1.*

- **WCG_HLG**: This mode enables the wide colour gamut for HLG content providing more accurate and true to life color performance.

  Note: *When enabled, this mode will activate the shutter which will reduce the brightness. This mode is only available when viewing content with HLG metadata. And it is not available when input source @ HDMI1.*

- **ISF Day**: Save professionally calibrated picture settings optimized for day time viewing.
- **ISF Night**: Save professionally calibrated picture settings optimized for night time viewing.
- **ISF 3D**: Save professionally calibrated picture settings optimized for 3D viewing.

Note: *ISF modes need to be professionally calibrated. To unlock and access ISF modes, you will need to enter the following code using the remote or keypad: Power > Up > Down > Up > Up.*

Wall Color

Designed to adjust the colors of the projected image when projecting on to a wall without a screen. Each mode has been fine-tuned by our expert colour team to ensure superior color performance. There are several predefined modes that you can choose from to suit the colour of your wall. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

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

Dynamic Range

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

Note: *VGA does not support Dynamic Range.*

➤ **HDR/HLG**

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

➤ **HDR Picture Mode**

- **Bright:** Choose this mode for brighter more saturated colors.
- **Standard:** Choose this mode for natural looking colors with a balance of warm and cool tones.
- **Film:** Choose this mode for improved detail and image sharpness.
- **Detail:** The signal comes from OETF conversion to achieve the best color matching.

➤ **HLG Picture Mode**

- **Bright:** Choose this mode for brighter more saturated colors.
- **Standard:** Choose this mode for natural looking colors with a balance of warm and cool tones.
- **Film:** Choose this mode for improved detail and image sharpness.
- **Detail:** The signal comes from OETF conversion to achieve the best color matching.

➤ **HDR Brightness**

- Adjust the brightness level of HDR.

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.

USING THE PROJECTOR

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 / 2.6**: For specific PC / Photo source. 2.4 and 2.6 can also be used for video content and games to enable deeper contrast.
- **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.

Note: *These options are only available if the 3D mode function is disabled. In 3D mode, user can only select "3D" for Gamma setting.*

Color Settings

Configure the color settings.

- **BrilliantColor™**: This adjustable item utilizes a new color-processing algorithm and enhancements to enable higher brightness while providing true, more vibrant colors in picture.
- **Color Temperature**: Select a color temperature from D55, D65, D75, D83, D93, or Native.
- **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 (HDMI Input 1 only)**: Select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.
- **Color Space (HDMI2/VGA/Home/Component only)**: Select an appropriate color matrix type from the following: Auto, RGB(0-255), and RGB(16-235).

Signal

Adjust the signal options.

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

Note: *This menu is only available if the input source is RGB/Component.*

Brightness Mode

Adjust the brightness mode settings.

- **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.

Enhanced Gaming menu

Enable this feature to reduce response times (input latency) during gaming to 4.5ms*.

Note:

- *Only support to HDMI1.*
- **Only for 1080p 240Hz signals.*
- *The input lag by signals is described in the following table:*
- *The values in the table can vary slightly.*

Source Timing	Enhanced Gaming	Output	Output Resolution	Input Lag
1080p60	On	1080p60	1080p	17ms
1080p120	On	1080p120	1080p	8.6ms
1080p240	On	1080p240	1080p	4.4ms
4K60	On	4K60	4K	16.9ms
1080p60	Off	1080p60	1080p	33.8ms
1080p120	Off	1080p120	1080p	17ms
1080p240	Off	1080p240	1080p	8.6ms
4K60	Off	4K60	4K	33.7ms

- *Please note that if "Enhanced Gaming" mode is enabled, the 3D, Aspect Ratio, Zoom, Image Shift, and Geometric Correction functions are disabled auotomatically. These functions will be enabled again if you disable "Enhanced Gaming" mode.*

USING THE PROJECTOR

3D menu

3D Mode

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

3D Sync Invert

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

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.

Note: *This menu is only available if the input source is HDMI2/VGA.*

Aspect Ratio menu

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

- **4:3**: This format is for 4:3 input sources.
- **16:9/21:9/32:9**: These formats are for 16:9/21:9/32:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- **LBX**: This format is for non-16x9, letterbox source and if you use external 16x9 lens to display 2.35:1 aspect ratio in full resolution.
- **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.*

USING THE PROJECTOR

4K UHD scaling table:

16 : 9 screen	480i/p	576i/p	720p	1080i/p	2160p
4x3	Scale to 2880 x 2160.				
16x9	Scale to 3840 x 2160.				
LBX	Get the central 3840 x 1620 image, and then scale to 3840 x 2160 for display.				
Native mode	1:1 mapping centered. No scaling will be made; the displayed resolution depends on the input source.				
Auto	-If source is 4:3, the screen type will be scaled to 2880 x 2160. -If source is 16:9, the screen type will be scaled to 3840 x 2160. -If source is 15:9, the screen type will be scaled to 3600 x 2160. -If source is 16:10, the screen type will be scaled to 3456 x 2160.				

Auto mapping rule:

	Input resolution		Auto/Scale	
	H-resolution	V-resolution	3840	2160
4:3	800	600	2880	2160
	1024	768	2880	2160
	1280	1024	2880	2160
	1400	1050	2880	2160
	1600	1200	2880	2160
Wide Laptop	1280	720	3840	2160
	1280	768	3600	2160
	1280	800	3456	2160
SDTV	720	576	2700	2160
	720	480	3240	2160
HDTV	1280	720	3840	2160
	1920	1080	3840	2160

Zoom menu

Use to reduce or magnify an image on the projection screen.

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

Image Shift menu

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

Note: *The image size will reduce slightly when adjusting the horizontal and vertical keystone.*

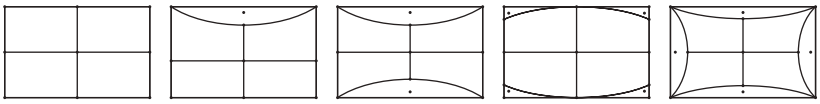
USING THE PROJECTOR

Geometric Correction menu

- **Four Corners:** This setting allows the projected image to be adjusted from each corner to make a square image when the projection surface is not level.

  Note: *While adjusting the Four Corners, the Zoom, Aspect Ratio, and Image Shift menus are disabled. To enable Zoom, Aspect Ratio, and Image Shift, reset the Four Corners settings to the factory defaults.*

- **H Keystone:** Adjust image distortion horizontally and make a squarer image. Horizontal keystone is used to correct a keystoned image shape in which the left and right borders of the image are unequal in length. This is intended for use with horizontally on-axis applications.
- **V Keystone:** Adjust image distortion vertically and make a squarer image. Vertical keystone is used to correct a keystoned image shape in which the top and bottom are slanted to one of the sides. This is intended when for use with vertically on-axis applications.
- **3x3 Warp:** Adjust the image distortion by 9 points correction.



- **Reset:** Return the factory default settings for geometric connection.

Note: *When using Enhanced Game Mode, 4 Corner, Horizontal Keystone, Vertical Keystone, and 3x3 warping will be disabled as the settings impact input lag. If you plan to use Enhanced Game Mode for low input lag, we strongly recommend setting up the projector without the use for 4 Corner, Horizontal Keystone, Vertical Keystone, and 3x3 warping.*

PureMotion menu

Using sophisticated frame-interpolation technology, PureMotion eliminates motion blurring or image judder, even in high-speed action sequences. Select between Off, 1, 2, 3 for the varying levels on motion smoothing.

Audio menu

Internal Speaker

Use this option to turn on or off the internal speaker.

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

Mute

Use this option to temporarily turn off the sound.

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

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

Volume

Adjust the volume level.

USING THE PROJECTOR

Setup menu

Projection

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

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.

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.

Power Settings menu

Direct Power On

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

Auto Power Off (min.)

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

Sleep Timer (min.)

Configure the sleep timer.

- **Sleep Timer (min.):** Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

  Note: *The Sleep Timer is reset every time when the projector is powered off.*

- **Always On:** Check to set the sleep timer always on.

USING THE PROJECTOR

Security menu

Security

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

- **Off:** Choose “Off” to be able to switch on the projector without password verification.
- **On:** Choose “On” to use security verification when the turning on the projector.

Note: *The default password is 1234.*

Security Timer

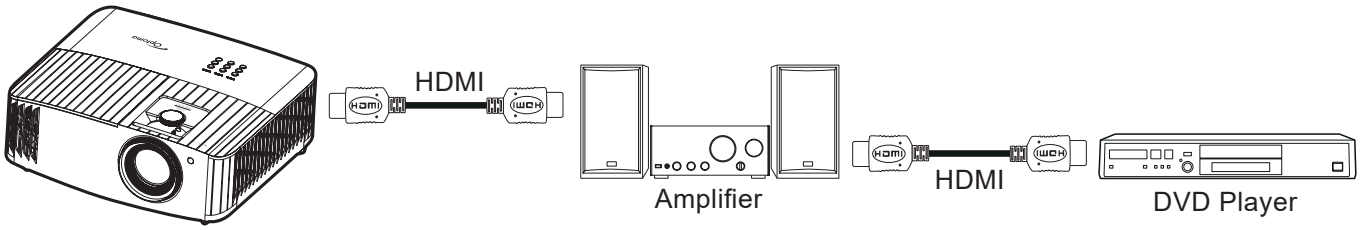
Can be select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.

Change Password

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

HDMI Link Settings menu

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



HDMI Link

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

Power On Link

CEC power on command.

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

Power Off Link

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

Test Pattern menu

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

USING THE PROJECTOR

Remote Settings menu

IR Function

Set the IR function setting.

- **On:** Choose “On”, the projector can be operated by the remote control from top and front IR receivers.
- **Off:** Choose “Off”, the projector can’t be operated by the remote control. By selecting “Off”, you will be able to use the Keypad keys.

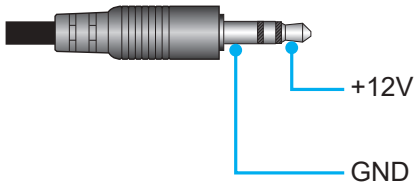
Projector ID menu

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

12V Trigger menu

Use this function to enable or disable the trigger.

Note: *3.5mm mini jack that outputs 12V 500mA (max.) for relay system control.*



- **On**: Choose “On” to enable the trigger.
- **Off**: Choose “Off” to disable the trigger.

Options menu

Language

Select the multilingual OSD menu between English, German, French, Italian, Spanish, Portuguese, Simplified Chinese, Traditional Chinese, Japanese, Korean, and Russian.

Menu Settings

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

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

Auto Source

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

Input Source

Select the input source between HDMI 1, HDMI 2, and VGA.

High Altitude

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

Display Mode Lock

Choose “On” or “Off” to lock or unlock adjusting display mode settings.

Keypad Lock

When the keypad lock function is “On”, the Keypad will be locked. However, the projector can be operated by the remote control. By selecting “Off”, you will be able to reuse the Keypad.

Information Hide

Enable this function to hide the information message.

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

Logo

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

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

Background Color

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

Reset menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for all settings.

Info menu

View the projector information as listed below:

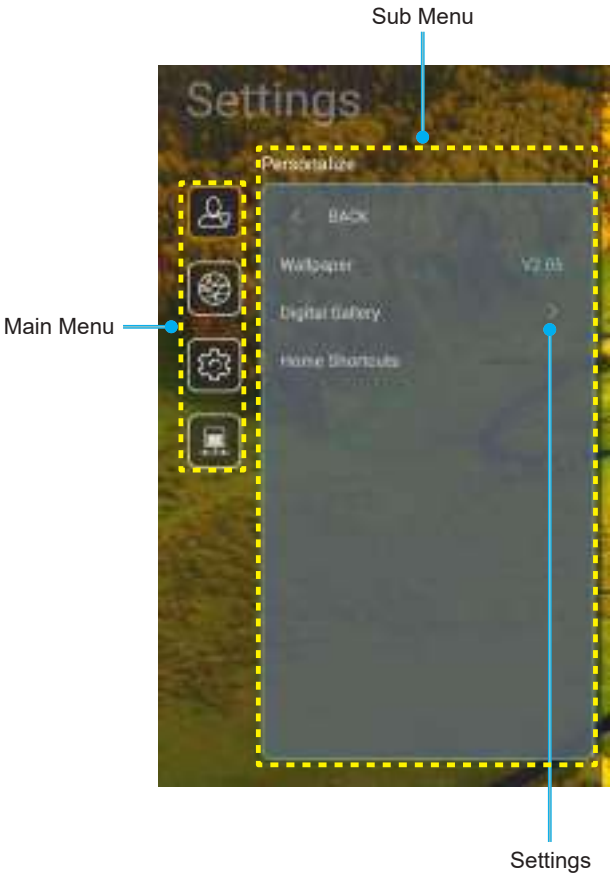
- Regulatory
- Serial Number
- MAC Address
- Source
- Resolution
- Refresh Rate
- Display Mode
- Lamp Hours
- Projector ID
- Filter Usage Hours
- Brightness Mode
- FW Version

USING THE PROJECTOR

System settings menu

On the Home screen, select the system settings menu “” to configure various system settings.

General menu navigation



1. When system settings menu is displayed, use the up and down navigation buttons to select any item in the main menu. While making a selection on a particular page, press the “**OK**” or the “**Right**” button on the remote control to enter the submenu.
2. Press the “**Left**” and “**Right**” button to select the desired menu item. Then press “**OK**” to open its sub menu.
3. Press the “**Up**” and “**Down**” button to select the desired item in the sub menu.
4. Press the “**OK**” or “**Right**” button to access the selected sub menu item settings.
5. Press the “**Up**”, “**Down**”, “**Left**”, or “**Right**” button to select the setting or press the “**Left**” and “**Right**” button to adjust the value (if necessary).
6. Press “**OK**” to confirm the setting.
7. Select the next item to be adjusted in the sub menu and modify as described above.
8. To exit, press “⮌” (repeatedly if necessary). The settings menu will close and the projector will automatically save the new settings.

USING THE PROJECTOR

System settings menu tree

Level 1	Level 2	Level 3	Level 4	Value
Personalize	Wallpaper	Optoma style…		
	Home Shortcut	Short cut 1		APP/ Input Source
		Short cut 2		APP/ Input Source
		Short cut 3		APP/ Input Source
		Short cut 4		APP/ Input Source
		Short cut 5		APP/ Input Source
		Short cut 6		APP/ Input Source
	Digital Gallery	Digital Gallery		Off
				On
		Start after		3mins
				5mins
				10mins
				15mins
Network	Wireless	Wi-Fi		Off
				On [Default]
		Available Networks (When WiFi On)	Enter password for [Wi-Fi name] (When entering password)	[Pop up dialog] - Title: Enter password for [Wi-Fi name] - Subtitle: Password - Input: (Input text) - Checkbox: Show password - Button: “**Cancel**”/ “**OK**”
			Internet Connection	
			IP Address	
			MAC Address	
			Signal Strength	
			Proxy Settings	None
				Manual [Pop up dialog] Title: Enter a valid hostname. Subtitle: Proxy hostname Input hint: proxy.example@com Button: “**Cancel**”/ “**OK**”
			IP Settings	DHCP
				Static [Pop up dialog] Title: Enter a valid IP address. Subtitle: IP address Input hint: 192.168.1.128 Button: “**Cancel**”/ “**OK**”
			Cancel	
			Forget	[Pop up dialog] Hint: [Wi-Fi name] Title: Forget network Content: Your device will no longer join this Wi-Fi network. Button: “**Cancel**”/ “**OK**”

USING THE PROJECTOR

Level 1	Level 2	Level 3	Level 4	Value	
Network	Wireless	Other Options	Connect via WPS		
			Connect via WPS (Enter PIN)		
			Add New Network	[Pop up dialog] Title: Enter the name for Wi-Fi network Input: (Input text) Button: “**Cancel**”/ “**OK**”	
				[Pop up dialog] Content: Type of security Button: None, WEP, WPA/WPA2 PSK, 802.1xEAP	
			Portable Hotspot	Portable Wi-Fi Hotspot	Off
					On
				Network name	[Pop up dialog] Title: Rename network Input: (Input text) Button: “**Cancel**”/”**OK**”
				Security	[Pop up dialog] Title: Type of security Button: None, WPA2 PSK
				Password	[Pop up dialog] Title: Change password Input: (Input text) Description: The password must have at least 8 characters. Checkbox: Show password Button: “**Cancel**”/”**OK**”
	Ethernet	Status			(read only)
		MAC Address			(read only)
		Proxy Settings	None		
			Manual	Proxy hostname	
				Port	
				bypass proxy domains	
		IP Settings	DHCP		
			Static	IP address	
				Gateway	
				Network Prefix Length	
				DNS1	
				DNS2	
		Reset			

USING THE PROJECTOR

Level 1	Level 2	Level 3	Level 4	Value
System	Keyboard			
	Date and Time Settings	Select time zone		-12:00, -11:00, -10:00, -09:30, -09:00, -08:00, -07:00, -06:00, -05:00, -04:00, -03:30, -03:00, -02:00, -01:00, 00:00, +01:00, +02:00, +03:00, +03:30, +04:00, +04:30, +05:00, +05:30, +05:45, +06:00, +06:30, +07:00, +08:00, +08:30, +8:45, +09:00, +09:30, +10:00, +10:30, +11:00, +12:00, +12:45, +13:00, +14:00
		Daylight Saving Time		On
				Off [Default]
		Use 24-hour format		On
				Off [Default]
	System Update			
	Internal Storage			
	Legal	Terms and Conditions of Use		
		Privacy Policy		
		Cookies Policy		
Control	LAN Control	Smart Home		Off [Default]
				On

Note:

- *Functions vary depending on model definition.*
- *Disabling Smart Home will disable the ability to power on the projector using Alexa Smart Home or Google Action “power on” command (Example: Alexa, turn on projector).*

USING THE PROJECTOR

Personalize menu



Home Shortcut

Review Home screen shortcuts of all opened apps in each input source. The items cannot repeat except for “Automatic” option which means the system will remember up to six latest apps that have been opened and then will replace app shortcuts so that the latest app will be the first app in the apps list while other apps in the list are shifted by one position.

Digital Gallery

Blanks the screen when the projector has been idle for a long time.

- **Digital Gallery:** Choose “On” to enable the Digital Gallery function.
- **Start after:** Set the wait time before activating the Digital Gallery function.

USING THE PROJECTOR

Network menu



Wireless

Configure wireless network settings.

- **Wi-Fi:** Set the Wi-Fi option to “On” to enable wireless network feature.
- **Available Network SSID:** Select your desired wireless access point and enter or configure the necessary connection parameters (if required), for example password, proxy settings, and IP address. For information, you can review the signal strength.

  Choose “Cancel” to return to the Network menu without saving settings. Choose “Forget” to delete the wireless network profile.

  Note: *Whenever you need to input symbols, the system will automatically pop-up an onscreen keyboard.*
- **Other Options:** Configure advanced wireless network settings, such as “Connect via WPS”, “Connect via WPS (Enter PIN)”, “Add New Network” (manually enter network name), and “Portable Hotspot” (configure the projector to behave as a wireless access point for other devices).

Ethernet

Configure wired network settings.

Note: *Make sure you have connected the projector to local area network (LAN). Please refer to page 15.*

- **Network Status:** Display the network connection status (read-only).
- **MAC Address:** Display the MAC address (read-only).
- **Proxy Settings:** Provide proxy hostname, connection port and bypass proxy domains information manually if requested.
- **IP Settings:** Enable DHCP if you want the projector to obtain IP address and other connection parameters automatically from your network. Disable DHCP if you want to assign IP address, gateway, network prefix length, and DNS parameters manually.
- **Reset:** Return the factory default settings for network settings.

USING THE PROJECTOR

System menu



Keyboard

Select the keyboard language.

Date and Time

Configure date and time settings.

- **Select time zone:** Select the time zone in your location.
- **Use 24-hour format:** Set to “On” to display time in 24-hour format. Set to “Off” to display time in 12-hour format (AM/PM).
- **Choose date format:** Choose your preferred date format.

System Update

System will look for updates automatically every time the projector is connected to the Internet (OTA).

Internal Storage

View the internal storage usage.

Legal

Review legal documents including “Terms and Conditions of Use”, “Privacy Policy”, and “Cookies Policy”.

Note: *You can review legal documents online as well. Please refer to the following web addresses:*

- *Terms and Conditions of Use: https://www.optoma.com/terms-conditions/ .*
- *Cookies Policy: https://www.optoma.com/cookies-policy/ .*
- *Privacy Policy: https://www.optoma.com/software-privacy-policy/ .*

Control menu

LAN Control

- **SmartHome:** Set to “Off” to turn off all control via “IoT”, including “InfoWall”.

USING THE PROJECTOR

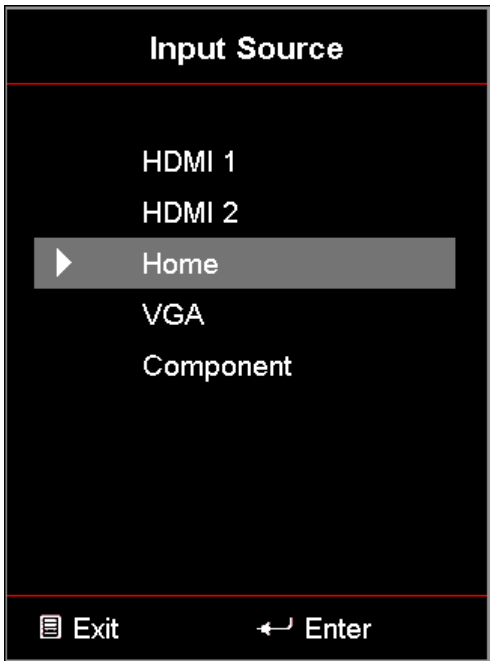
Selecting an input source

You can select any input source directly on the Home screen using an input shortcut.

Note: *You can personalize shortcut settings in “System Settings menu → Personalize → Home Shortcut”. You can also modify the shortcut order on the Home screen.*



If the desired input source is not visible on the Home screen, select “” to view all input options. Then select your input source or select “HOME” to return to the Home screen.



USING THE PROJECTOR

Selecting an app

You can select any app directly on the Home screen using an app shortcut.

Note: *You can personalize shortcut settings in “System Settings menu → Personalize → Home Shortcut”.*



If the desired app is not visible on the Home screen, select “” to view all installed apps. Then select your desired app.



USING THE PROJECTOR

Creative Cast

To get the App, you can do either of the following:

- if you are using the mobile device, scan the QR code on the screen.
- if you are using the computer, simply go to the link.

Then install the Creative Cast app in your computer or mobile device.

Before you get started, make sure to connect your computer or mobile device to the same Wi-Fi as the projector. Then follow the on-screen instructions to operate the App.



Note: *For initial activation of the iOS screen mirroring function, please ensure the projector is connected to the internet, then launch the Creative Cast app. You are only required to perform this initial step once and after the initial connection is established, the Creative Cast app does not need to be open for future use of the iOS screen mirroring function.*

USING THE PROJECTOR

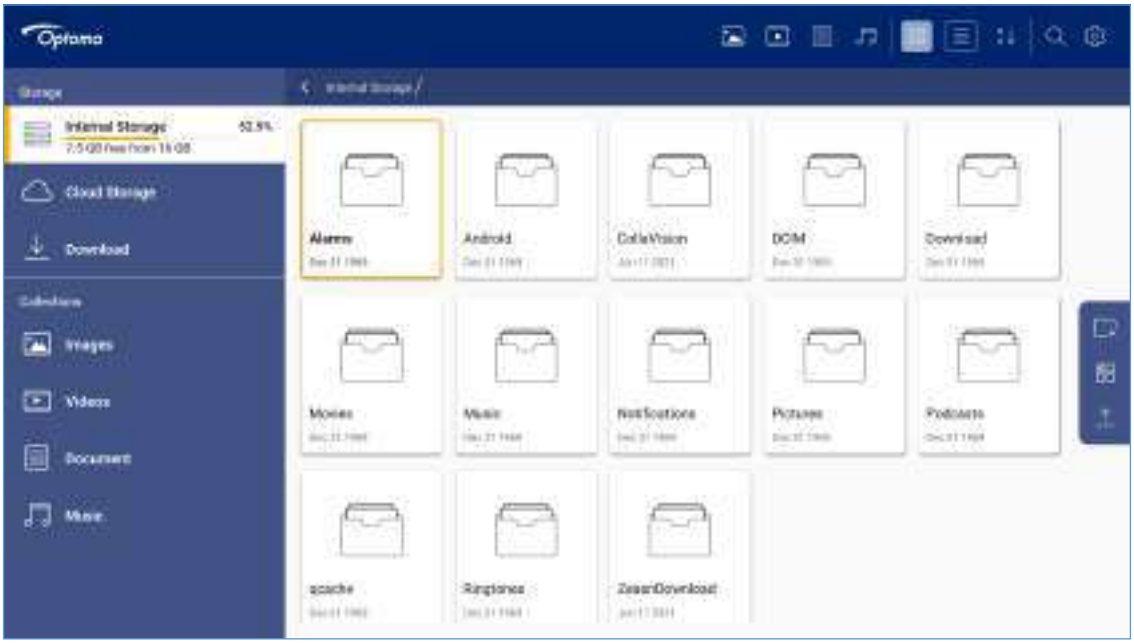
Optoma Marketplace

With the Optoma Marketplace app, you can search and install any App.



File Manager

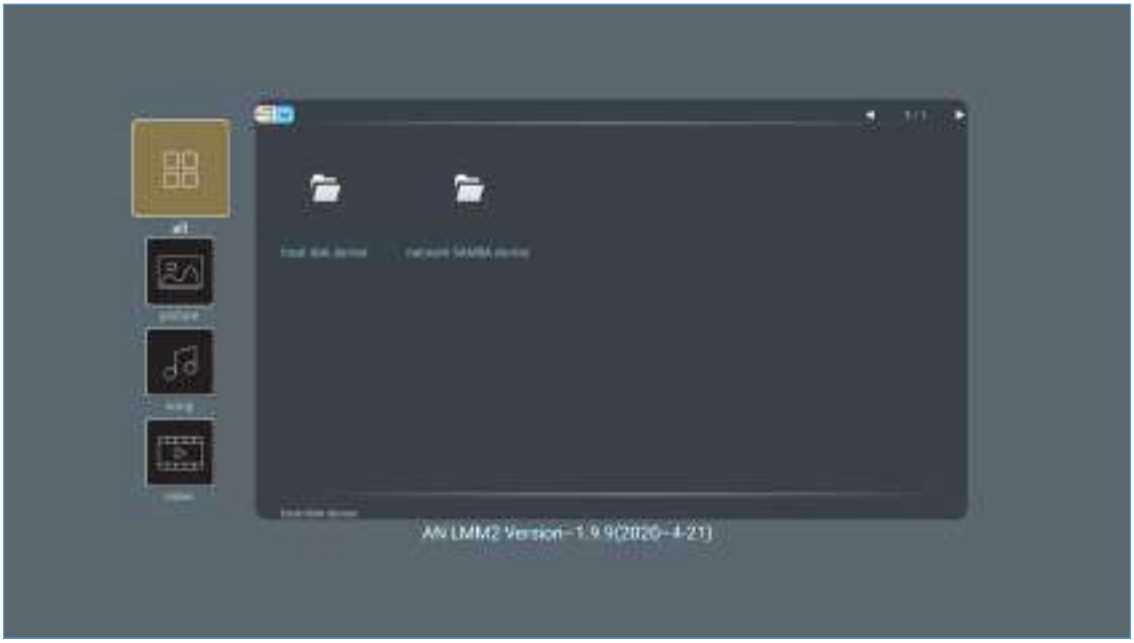
With the File Manager app, you can manage the files stored in the internal storage, external storage, and cloud storage.



USING THE PROJECTOR

Media

With the Media app, you can play the multimedia files by connecting a USB storage with multimedia content to the projector. Then open the multimedia player app and select the desired files to play.



USING THE PROJECTOR

Supported multimedia formats

If you want to play multimedia files, connect a USB storage with multimedia content to the projector. Then open the multimedia player app and select the desired files to play.

The projector supports the following multimedia formats:

Media Category	Decoder	Supported File Formats
Video	H.263	MOV
		3GP
		AVI
		MKV
	H.264	FLV
		MP4
		MOV
		3GP
		MPEG transport stream (.ts / .trp /.tp)
		ASF
		WMV
		AVI
		MKV
	HEVC/H.265	MP4
		MOV
		MPEG transport stream (.ts / .trp /.tp)
		MKV
	MPEG1/2	MPEG program stream (.DAT /.VOB / .MPG / .MPEG)
		MPEG transport stream (.ts / .trp /.tp)
		MP4
		AVI
		MKV
	MPEG4	MP4
		MOV
		3GP
		AVI
		MKV
	Motion JPEG	AVI
		MP4
		MOV
	AVS	MP4
	VC1	WMV

Media Category	Decoder	Supported File Formats
Audio	MPEG1/2 Layer2	AVI
		Matroska (MKV, MKA)
		MP4
		MOV
		MPEG transport stream (.ts / .trp /.tp)
		MPEG program stream (.DAT /.VOB / .MPG / .MPEG)
	MPEG1/2/2.5 Layer3	MP3
		Matroska (MKV, MKA)
		MP4
	MPEG1/2/2.5 Layer3	MOV
		MPEG transport stream (.ts / .trp /.tp)
		MPEG program stream (.DAT /.VOB / .MPG / .MPEG)
	AC3	AC3
		Matroska (MKV, MKA)
		MOV
		MPEG transport stream (.ts / .trp /.tp)
		MPEG program stream (.DAT /.VOB / .MPG / .MPEG)
	EAC3	MP4
	AAC, HEAAC	AAC
		MP4
		MOV
		M4A
		MPEG transport stream (.ts / .trp /.tp)
	LPCM	WAV
		AVI
		Matroska (MKV, MKA)
	IMA-ADPCM MS-ADPM	WAV
		AVI
		Matroska (MKV, MKA)
		MP4
	FLAC	Matroska (MKV, MKA)
Photo	BMP	15360 X 8640 (The limitaion of max resolution depends on DRAM size)

Note:

- *All multimedia files listed above.*
- *This system no support Dolby, it means there is no sound output when audio format included the Dolby streaming.*

Picture

Image Type (Ext name)	Sub Type	Maximum Pixels
Jpeg / Jpg	Baseline	8000 x 8000
	Progressive	6000 x 4000
PNG	Non-interlace	6000 x 4000
	Interlace	6000 x 4000
BMP		6000 x 4000

Doc

Document Format	Support Version and Format	Pages/Lines Limitation	Size Limitation
PDF	PDF 1.0 ~ 1.7 and above	Up to 1500 pages (One File)	Up to 100MB
Word	Kingsoft Writer Document (*.wps)	Since WPS Projector does not load the MS/Word files all at one time, there is no obvious limitation on the number of pages and rows of files.	Up to 150MB
	Kingsoft Writer Template (*.wpt)		
	Microsoft Word 97/2000/XP/2003 Document (*.doc)		
	Microsoft Word 97/2000/XP/2003 Template (*.dot)		
	RTF Files (*.rtf)		
	Text Files (*.txt, *.log, *.lrc, *.c, *.cpp, *.h, *.asm, *.s, *.java, *.asp, *.prg, *.bat, *.bas, *.cmd)		
	Web Page Files (*.html, *.htm)		
	Single Web Page Files (*.mht, *.mhtml)		
	Microsoft Word 2007/2010 Document (*.docx)		
	Microsoft Word 2007/2010 Template (*.dotx)		
	Microsoft Word 2007/2010 Macro-Enabled Document (*.docm)		
	Microsoft Word 2007/2010 Macro-Enabled Template (*.dotm)		
	XML Files (*.xml)		
	OpenDocument Text		
	Works 6-9Document (*.wtf)		
	Works 6.0&7.0 (*.wps)		
Excel	Kingsoft Spreadsheets Files (*.et)	Row Limit: up to 65,535 Column Limit: up to 256 Sheet: up to 200	Up to 30MB
	Kingsoft Spreadsheets Template (*.ett)		
	Microsoft Excel 97/2000/XP/2003 Workbook (*.xls)		
	Microsoft Excel 97/2000/XP/2003 Template (*.xlt)		
	Text Files (*.csv)		
	Web Pages (*.htm, *.html)		
	XML Files (*.xml)		
	Microsoft Excel 2007/2010 Files (*.xlsx, *.xlsm)		
	Microsoft Excel 2007/2010 Template (*.xltx)		
	Microsoft Excel 2007/2010 Binary Workbook (*.xlsb)		
PowerPoint	Kingsoft Presentation Files (*.dps)	Up to 1500 pages (One File)	Up to 30MB
	Kingsoft Presentation Templates (*.dpt)		
	Microsoft PowerPoint 97/2000/XP/2003 Presentations (*.ppt, *.pps)		
	Microsoft PowerPoint 97/2000/XP/2003 Presentation Templates (*.pot)		
	Microsoft PowerPoint 2007/2010 Presentations (*.pptx, *.ppsx)		
	Microsoft PowerPoint 2007/2010 Presentations Template (*.potx)		

Note:

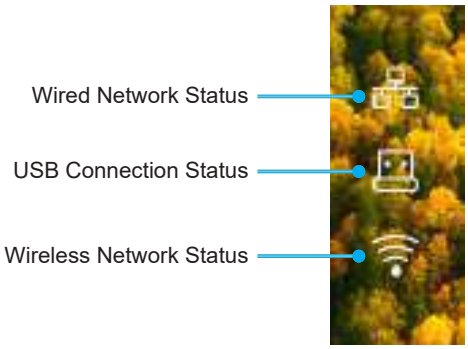
- *Decoding may take a while for large files with complex contents.*
- *Objects embedded in files cannot be activated or viewed.*

- *For Microsoft Word*
  - *– No support for advanced settings, such as drawing plug-in or table background settings.*
  - *– Contents outside the defined borders in Microsoft Word will not be displayed.*
  - *– Not support Bold Text in Simplified Chinese font.*
- *For Microsoft PowerPoint*
  - *– Slide effects not supported.*
  - *– Password-protected sheets are not protected.*
  - *– Powerpoint animation is not supported.*
- *For Microsoft Excel*
  - *– Worksheets are displayed individually and sequentially when the workbook has multiple worksheets.*
  - *– Page layout and numbering may be changed during decoding.*

USING THE PROJECTOR

Viewing the status bar

By default, the Status Bar on the Home screen contains icons indicating connection status regarding wired network, USB, and wireless network. You can select any of the icons to open the associated menu. Selecting wired or wireless status icon results in opening the network configuration menu, while selecting the USB status icon results in opening the browser and displaying the content of the connected USB device.



Alexa / Google Assistant

This projector supports the Voice control feature such as Alexa / Google Assistant.

User can search keyword by “Optoma connect & alexa” & “Optoma connect & google assistant” to get Alexa and Google setup guide on the website by clicking the following link:

- *Optoma Connect app - Alexa setup tutorial*
- *Optoma Connect app - Google setup tutorial*

MAINTENANCE

Replacing the lamp (Maintenance personnel only)

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



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



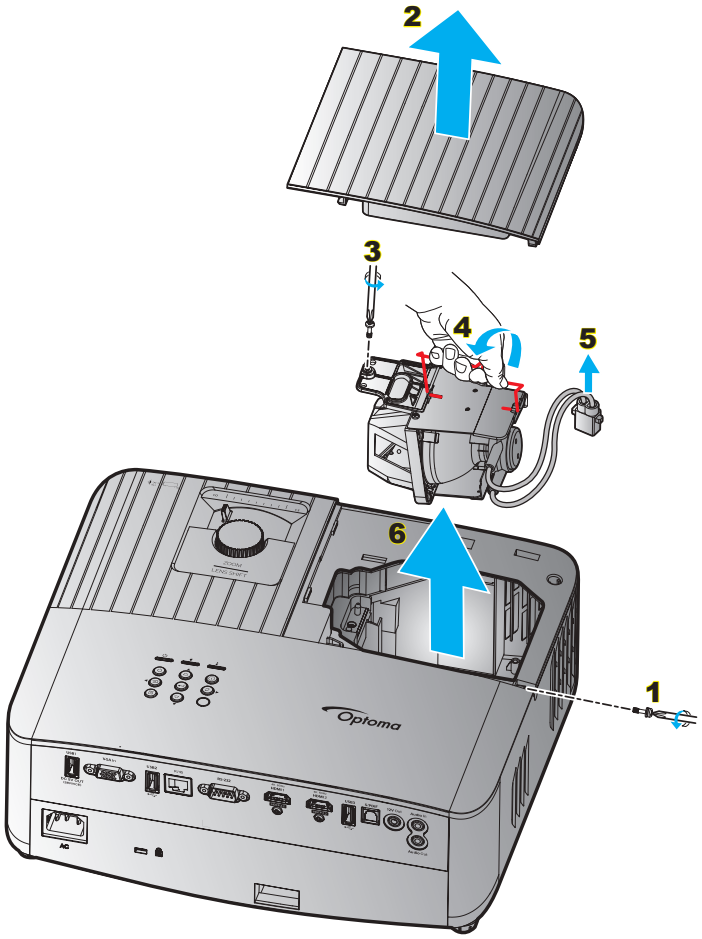
Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. Caution must be used to prevent any loose parts from falling out of projector.

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

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

MAINTENANCE

Replacing the lamp (continued)



Procedure:

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

Note:

- *The 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.*

ADDITIONAL INFORMATION

Compatible resolutions

Video compatibility

Signal	Resolution
SDTV	480i/p, 576i/p
HDTV	720p (50/60Hz), 1080i (50/60Hz), 1080p (24/50/60Hz)
UHD	2160p (24/50/60Hz)

Video timing in details:

Signal	Resolution	Refresh Rate (Hz)	Notes
SDTV (480i)	640 x 480	60	For Component
SDTV (480p)	640 x 480	60	
SDTV (576i)	720 x 576	50	
SDTV (576p)	720 x 576	50	
HDTV (720p)	1280 x 720	50/60	
HDTV (1080i)	1920 x 1080	50/60	
HDTV (1080p)	1920 x 1080	24/50/60	
UHD (2160p)	3840 x 2160	24/50/60	For 4K UHD

Computer compatibility

VESA standards (Computer Signal (Analog RGB compatibility)):

Signal	Resolution	Refresh Rate (Hz)	Notes for Mac
SVGA	800 x 600	56/60/72	Mac 60/72
XGA	1024 x 768	60/70/75	Mac 60/70/75
HDTV(720p)	1280 x 720	50/60	Mac 60
WXGA	1280 x 768	60/75	Mac 60/75
WXGA	1280 x 800	60	Mac 60
WXGA	1366 x 768	60	Mac 60
WXGA+	1440 x 900	60	Mac 60
SXGA	1280 x 1024	60/75	Mac 60/75
UXGA	1600 x 1200	60	
HDTV(1080p)	1920 x 1080	24/50/60	Mac 60
WUXGA	1920 x 1200 (*)	60	Mac 60

Note: *(*)1920 x 1200 @60Hz only supports RB(reduced blanking).*

ADDITIONAL INFORMATION

Timing table for PC:

Signal	Resolution	Frequency H. (KHz)	Refresh Rate (Hz)	Video	Digital	Analog	Note
SVGA	800 x 600	35.2	56	N/A	√	√	56Hz
SVGA	800 x 600	37.9	60	N/A	√	√	60Hz
SVGA	800 x 600	46.9	75	N/A	√	√	N/A
SVGA	800 x 600	48.1	72	N/A	√	√	72Hz
SVGA	800 x 600	53.7	85	N/A	√	√	85Hz
SVGA	832 x 624	49.72	75	N/A	√	√	N/A
XGA	1024 x 768	48.4	60	N/A	√	√	N/A
XGA	1024 x 768	56.5	70	N/A	√	√	70Hz
XGA	1024 x 768	60	75	N/A	√	√	N/A
XGA	1024 x 768	68.7	85	N/A	√	√	N/A
XGA	1024 x 768	97.551	120	N/A	N/A	√	N/A
SXGA	1152 x 864	67.5	75	N/A	√	√	N/A
HD720	1280 x 720	37.5	50	N/A	√	√	N/A
HD720	1280 x 720	45	60	N/A	√	√	N/A
HD720	1280 x 720	92.62	120	N/A	N/A	√	N/A
WXGA-800	1280 x 800	49.702	60	N/A	√	√	N/A
SXGA	1280 x 1024	64	60	N/A	√	√	N/A
SXGA	1280 x 1024	80	75	N/A	√	√	N/A
SXGA+	1400 x 1050	65.317	60	N/A	N/A	√	N/A
UXGA	1600 x1200	75	60	N/A	√	√	N/A
HD1080	1920 x 1080	27	24	N/A	√	√	N/A
HD1080	1920 x 1080	56.25	50	N/A	√	√	N/A
HD1080	1920 x 1080	67.5	60	N/A	√	√	N/A
WUXGA	1920 x 1200	74.038	60	N/A	√	√	RB
HDTV	1920 x 1080i	28.1	50	√	√	√	N/A
HDTV	1920 x 1080i	33.75	60	√	√	√	N/A
HDTV	1920 x 1080p	27	24	√	√	√	N/A
HDTV	1920 x 1080p	56.25	50	√	√	√	N/A
HDTV	1920 x 1080p	67.5	60	√	√	√	N/A
HDTV	1280 x 720	45	60	√	√	N/A	N/A
HDTV	1280 x 720p	67.5	50	√	√	√	N/A
HDTV	1280 x 720p	45	60	√	√	√	N/A
SDTV	720 x 576	31.3	50	√	√	N/A	N/A
SDTV	720 x 576i	15.6	50	√	√	√	N/A
SDTV	720 x 576p	31.3	50	√	√	√	N/A
SDTV	720 x 480	31.5	60	√	√	N/A	N/A
SDTV	720 x 480i	15.7	60	√	√	√	N/A
SDTV	720 x 480p	31.5	60	√	√	√	N/A

Note: *"√" means the resolution is supportred, "N/A" means the resolution is not supported.*

ADDITIONAL INFORMATION

Input signal for HDMI

Signal	Resolution	Refresh Rate (Hz)	Notes for Mac
SVGA	800 x 600	60/75	Mac 60/75
XGA	1024 x 768	60/70/75/120	Mac 60/70/75
SDTV(480i)	640 x 480	60	
SDTV(480p)	640 x 480	60	
SDTV(576i)	720 x 576	50	
SDTV(576p)	720 x 576	50	
HDTV(720p)	1280 x 720	50(*2)/60	Mac 60
WXGA	1280 x 768	60/75/85	Mac 75
WXGA	1280 x 800	60/120	Mac 60
WXGA(*2)	1366 x 768	60	
WXGA+	1440 x 900	60/120(RB)	Mac 60
SXGA	1280 x1024	60/75/85	Mac 60/75
SXGA+	1400 x1050	60/85	
UXGA	1600 x 1200	60/65/70/75/85	
HDTV(1080i)	1920 x1080	50/60	
HDTV(1080p)	1920 x1080	24/30/50/60/120	Mac 60
WUXGA	1920 x 1200(*1)	60	Mac 60RB
WQHD	2560 x 1440	60RB	
UHD(2160p)	3840 x 2160	24/30/50/60	Mac 24/30
UHD(2160p)	4096 X 2160	24/30/50/60	Mac 24

Note:

- *(*1) 1920 x 1200 @ 60Hz only supports RB(reduced blanking).*
- *(*2) Windows 10 standard timing.*

ADDITIONAL INFORMATION

Extended Display Identification Data (EDID) tables

Analog signal

Analog Native resolution: 1920 x 1080 @ 60Hz

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
800 x 600 @ 56Hz	1280 x 720 @ 60Hz	1920 x 1080 @ 60Hz (Native)		1366x768 @ 60Hz
800 x 600 @ 60Hz	1280 x 800 @ 60Hz			
800 x 600 @ 72Hz	1280 x 1024 @ 60Hz			
800 x 600 @ 75Hz	1920 x 1200 @ 60Hz			
832 x 624 @ 75Hz	800 x 600 @ 120Hz			
1024 x 768 @ 70Hz	1280 x 800 @ 120Hz			
1024 x 768 @ 75Hz				
1280 x 1024 @ 75Hz				
1152 x 870 @ 75Hz				

Digital signal (HDMI 2.0) - HDMI1

Digital Native resolution: 3840 x 2160 @ 60Hz

B0/Established Timing	B0/Standard Timing	B0/Standard Timing	B1/Video Mode	B1/Detail Timing
800 x 600 @ 56Hz	1280 x 720 @ 60Hz	3840 x 2160 @ 60Hz (default)	1920 x 1080 @ 120Hz	1366 x 768 @ 60Hz
800 x 600 @ 60Hz	1280 x 800 @ 60Hz		720 x 480p @ 60Hz 4:3	1920 x 1080 @ 240Hz
800 x 600 @ 72Hz	1280 x 1024 @ 60Hz		720 x 576p @ 50Hz 4:3	
800 x 600 @ 75Hz	1920 x 1200 @ 60Hz		1920 x 1080i @ 60Hz 16:9	
832 x 624 @ 75Hz	800 x 600 @ 120Hz		1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 60Hz	1024 x 768 @ 120Hz		1920 x 1080p @ 60Hz 16:9	
024 x 768 @ 70Hz	1280 x 800 @ 120Hz		1920 x 1080p @ 50Hz 16:9	
1024 x 768 @ 75Hz			1920 x 1080p @ 24Hz 16:9	
1280 x 1024 @ 75Hz			3840 x 2160 @ 24Hz	
1152 x 870@ 75Hz			3840 x 2160 @ 25Hz	
			3840 x 2160 @ 30Hz	
			3840 x 2160 @ 50Hz	
			3840 x 2160 @ 60Hz	
			4096 x 2160 @ 24Hz	
			4096 x 2160 @ 25Hz	
			4096 x 2160 @ 30Hz	
			4096 x 2160 @ 50Hz	
			4096 x 2160 @ 60Hz	
			720 x 480p @ 60Hz 16:9	
			1280 x 720p @ 60Hz 16:9	
			720 x 576p @ 60Hz 16:9	
			1280x 720p @ 60Hz 16:9	

Note: *Support 1920 x 1080 @ 50Hz*

ADDITIONAL INFORMATION

Digital signal (HDMI 2.0) - HDMI2

Digital Native resolution: 3840 x 2160 @ 60Hz

B0/Established Timing	B0/Standard Timing	B0/Standard Timing	B1/Video Mode	B1/Detail Timing
800 x 600 @ 56Hz	1280 x 720 @ 60Hz	3840 x 2160 @ 60Hz (default)	1920 x 1080 @ 120Hz	1920 x 1080 @ 240Hz
800 x 600 @ 72Hz	1280 x 800 @ 60Hz		720 x 480p @ 60Hz 4:3	
800 x 600 @ 75Hz	1280 x 1024 @ 60Hz		720 x 576p @ 50Hz 4:3	
832 x 624 @ 75Hz	1920 x 1200 @ 60Hz		1920 x 1080i @ 60Hz 16:9	
1024 x 768 @ 60Hz	800 x 600 @ 120Hz		1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 70Hz	1024 x 768 @ 120Hz		1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 75Hz	1280 x 800 @ 120Hz		1920 x 1080p @ 50Hz 16:9	
1280 x 1024 @ 75Hz			1920 x 1080p @ 24Hz 16:9	
1152 x 870@ 75Hz			3840 x 2160 @ 24Hz	
			3840 x 2160 @ 25Hz	
			3840 x 2160 @ 30Hz	
			3840 x 2160 @ 50Hz	
			3840 x 2160 @ 60Hz	
			4096 x 2160 @ 24Hz	
			4096 x 2160 @ 25Hz	
			4096 x 2160 @ 30Hz	
			4096 x 2160 @ 50Hz	
			4096 x 2160 @ 60Hz	
			720 x 480p @ 60Hz 16:9	
			1280 x 720p @ 60Hz 16:9	
			720 x 576p @ 60Hz 16:9	
			1280x 720p @ 60Hz 16:9	

Note: *Chrome subsampling supports:*

- *4K@60/50Hz YUV 4:2:0 10bit / RGB 4:4:4 8bit*
- *4K@30Hz YUV/RGB 4:4:4 12bit*

ADDITIONAL INFORMATION

3D Timing

For Blu-ray 3D (HDMI 1.4a):

2D Support Frame Rate	Timing	Format
59/60 Hz option:	1920 x 1080p @ 23.98 / 24Hz	Frame packing (HDMI1/HDMI2)
	1280 x 720p @ 59.94 / 60Hz	Frame packing (HDMI1/HDMI2)
	1920 x 1080p @ 23.98 / 24Hz	Top-and-Bottom (HDMI2/VGA)
	1280 x 720p @ 59.94 / 60Hz	Top-and-Bottom (HDMI2/VGA)
	1920 x 1080p @ 23.98 / 24Hz	Side-by-Side (HDMI2/VGA)
	1280 x 720p @ 59.94 / 60Hz	Side-by-Side (HDMI2/VGA)
50 Hz option:	1920 x 1080p @ 23.98 / 24Hz	Frame packing (HDMI1/HDMI2)
	1280 x 720p @ 50Hz	Frame packing (HDMI1/HDMI2)
	1920 x 1080p @ 23.98 / 24Hz	Top-and-Bottom (HDMI2/VGA)
	1280 x 720p @ 50Hz	Top-and-Bottom (HDMI2/VGA)
	1920 x 1080p @ 23.98 / 24Hz	Side-by-Side (HDMI2/VGA)
	1280 x 720p @ 50Hz	Side-by-Side (HDMI2/VGA)

For PC:

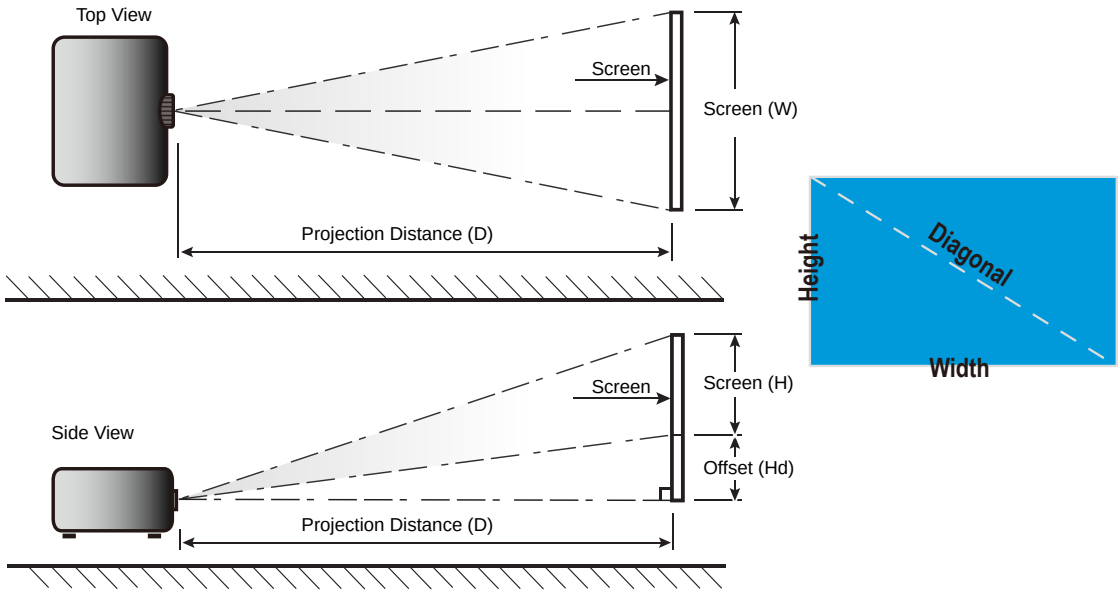
Input	Timing	Format
HDMI1	1920 x 1080 @ 120Hz	Frame Sequential
	1280 x 800 @ 120Hz	Frame Sequential
	1024 x 768 @ 120Hz	Frame Sequential
	800 x 600 @ 120Hz	Frame Sequential
HDMI2	1920 x 1080 @ 60Hz	Frame Sequential
	1280 x 800 @ 120Hz	Frame Sequential
	1280 x 720 @ 120Hz	Frame Sequential
	1024 x 768 @ 120Hz	Frame Sequential
VGA	1920 x 1080 @ 60Hz	Frame Sequential
	1280 x 800 @ 120Hz	Frame Sequential
	1280 x 720 @ 120Hz	Frame Sequential
	1024 x 768 @ 120Hz	Frame Sequential

ADDITIONAL INFORMATION

Image size and projection distance

Diagonal length (inch) size of 16:9 Screen	Screen Size W x H				Projection Distance (D)				Offset (HD)	
	(m)		(inch)		(m)		(feet)			
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(feet)
30	0.66	0.37	26.15	14.71	-	1.06	-	3.46	0.02	0.07
40	0.89	0.50	34.86	19.61	1.07	1.41	3.51	4.62	0.03	0.09
60	1.33	0.75	52.29	29.42	1.61	2.11	5.27	6.93	0.04	0.13
70	1.55	0.87	61.01	34.32	1.88	2.46	6.15	8.08	0.05	0.16
80	1.77	1.00	69.73	39.22	2.14	2.82	7.03	9.23	0.05	0.18
90	1.99	1.12	78.44	44.12	2.41	3.17	7.91	10.39	0.06	0.20
100	2.21	1.25	87.16	49.03	2.68	3.52	8.78	11.54	0.07	0.22
120	2.66	1.49	104.59	58.83	3.21	4.22	10.54	13.85	0.08	0.27
150	3.32	1.87	130.74	73.54	4.02	5.28	13.18	17.31	0.10	0.34
180	3.98	2.24	156.88	88.25	4.82	6.34	15.81	20.78	0.12	0.40
200	4.43	2.49	174.32	98.05	5.36	7.04	17.57	23.08	0.14	0.45
250	5.53	3.11	217.89	122.57	6.70	8.80	21.96	28.85	0.17	0.56
301	6.65	3.74	262.00	147.37	8.05	-	26.40	-	0.21	0.68

Note: *These values are not exact and can vary slightly.*

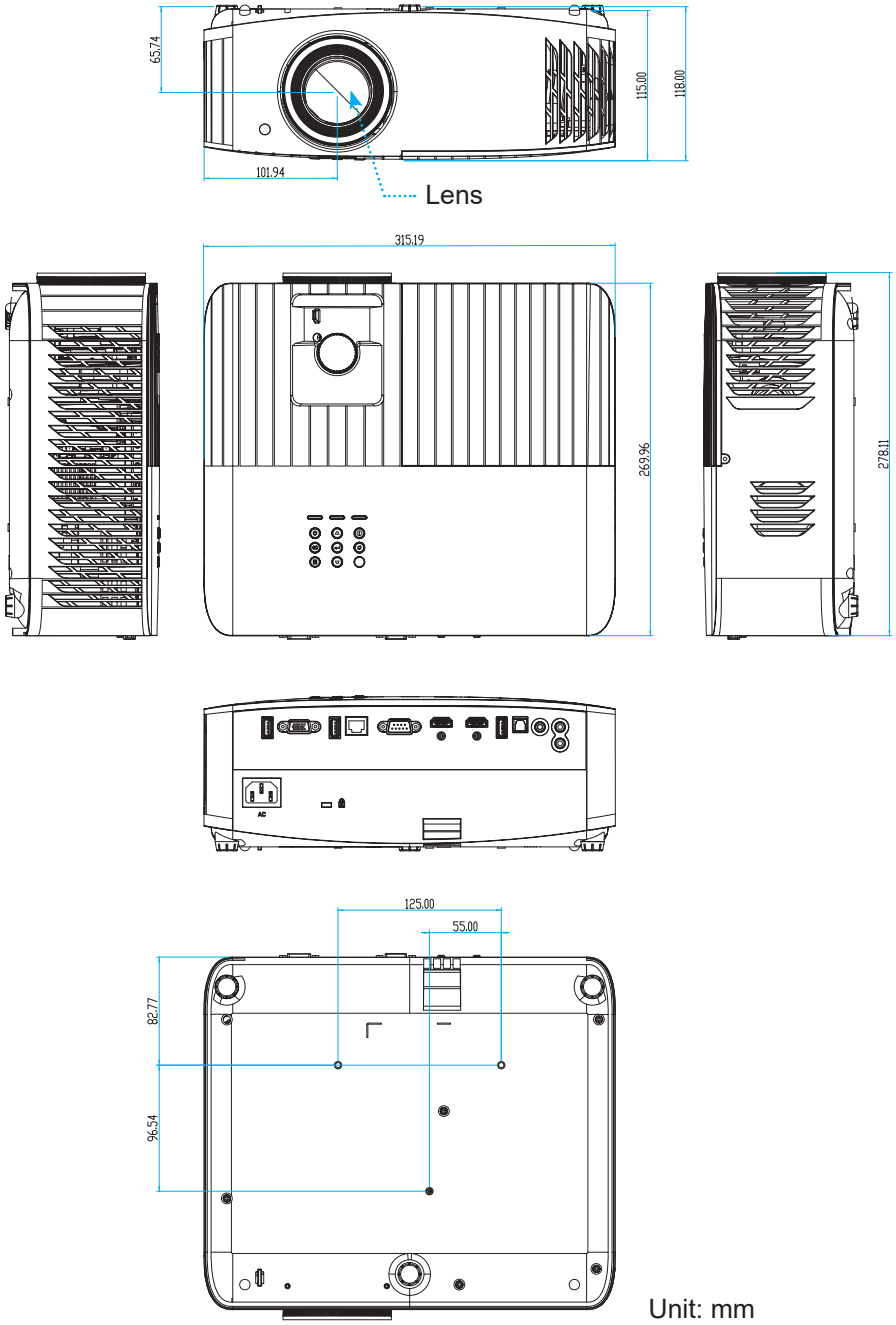


ADDITIONAL INFORMATION

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 for two point mounting or M6 for one point mounting
- Minimum screw length: 10mm



Unit: mm

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 num	MTX.	Format	Data0	Data1	Data2	Data3	Description
Power on / off	⏻	K12	04	F1	32	CD	71	8E	Refer to the “Powering on / off the projector” on page 19.
Source	⏎	K3	11	F1	32	CD	18	E7	Press ⏎ to select an input signal.
Home	⌂	K13	03	F1	32	CD	92	6D	Press ⌂ to return to the Home screen.
Menu	≡	K8	17	F1	32	CD	0E	F1	Press ≡ to launch the on-screen display (OSD) menu. To exit OSD, press ≡ again.
Return	⮌	K4	10	F1	32	CD	86	79	Press ⮌ to return to the previous page.
Up	▲	K7	18	F2	32	CD	11	EE	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
Left	◀	K14	02	F2	32	CD	10	EF	
Right	▶	K5	09	F2	32	CD	12	ED	
Down	▼	K2	19	F2	32	CD	14	EB	
Enter	Enter	K9	16	F1	32	CD	0F	F0	Confirm your item selection.
Mute	🔇	K15	01	F1	32	CD	52	AD	Press 🔇 to turn off/on the projector built-in speaker.
Display Mode	⬬	K10	15	F1	32	CD	91	6E	Press ⬬ to display the Display Mode menu. To exit the Display Mode menu, press ⬬ again.
Option	⋮	K6	08	F1	32	CD	25	DA	Press ⋮ to configure the Smart TV settings.
Volume -	−	K11	12	F2	32	CD	0C	F3	Press − to decrease the volume.
Volume +	+	K1	05	F2	32	CD	09	F6	Press + to increase the volume.

ADDITIONAL INFORMATION

Troubleshooting

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

Image problems

No image appears on-screen

- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- Ensure the pins of connectors are not crooked or broken.
- Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section on pages *59-60*.
- Ensure that the "Mute" feature is not turned on.

Image is out of focus

- Adjust the Focus Ring on the projector lens. Please see page *16*.
- Make sure the projection screen is between the required distance from the projector. (Please refer to page *67*).

The image is stretched when displaying 16:9 DVD title

- When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16: 9 format on projector side.
- If you play the LBX format DVD title, please change the format as LBX in projector OSD.
- If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.
- Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

Image is too small or too large

- Adjust the zoom lever on the top of the projector.
- Move the projector closer to or further from the screen.
- Press "Menu" on the projector panel, go to "Display-->Aspect Ratio". Try the different settings.

Image has slanted sides:

- If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.

Image is reversed

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

Blurry double image

- Make sure “Display Mode” is not 3D to avoid normal 2D image appear blurry double image.

ADDITIONAL INFORMATION

Other problems

The projector stops responding to all controls

- If possible, turn off the projector, then unplug the power cord and wait at least 20 seconds before reconnecting power.

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 *59-60*.

Remote control problems

If the remote control does not work

- Check the operating angle of the remote control is pointed within ±15° (horizontally) or ±10° (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 (~22 ft) of the projector.
- Make sure batteries are inserted correctly.
- Replace batteries if they are exhausted.

Warning indicators

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

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

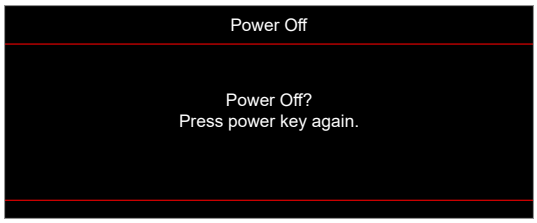
Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up or flash, please contact your nearest service center for assistance.

ADDITIONAL INFORMATION

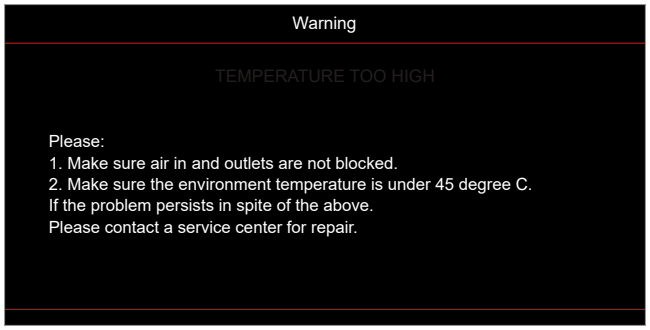
LED lightning messages

Message	On/Standby LED		Temp LED	Lamp LED
	(Red)	(Blue)	(Red)	(Red)
Standby state (Input power cord)	Steady light			
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Power on and Lamp lighting		Steady light		
Power off (Cooling)		Flashing (0.5 sec off / 0.5 sec on). Back to red steady light when cooling fan turns off.		
Error (Lamp failure)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over temp.)	Flashing		Steady light	
Standby State (Burn in mode)		Flashing		
Burn in (Warming)		Flashing		
Burn in (Cooling)		Flashing		
Burn in (Lamp lighting)		Flashing (3 sec on / 1 sec off)		
Burn in (Lamp off)		Flashing (1 sec on / 3 sec off)		

- Power off:

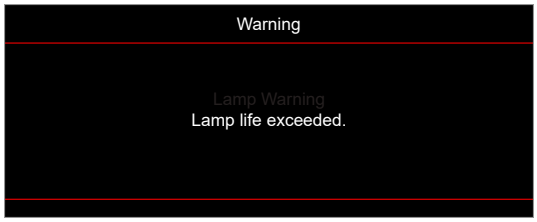


- Temperature warning:

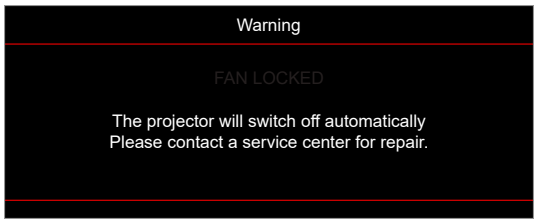


ADDITIONAL INFORMATION

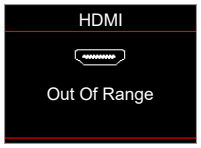
- Lamp warning:



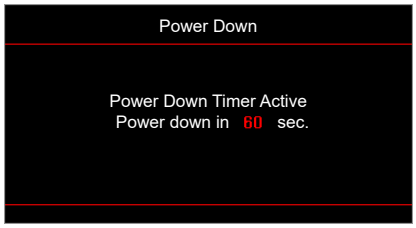
- Fan failed:



- Out of display range:



- Power down warning:



ADDITIONAL INFORMATION

Specifications

Optical	Description
Technology	Texas Instrument DMD, 0.47”(dimension)/ 4K UHD HSSI DMD X1, S451 (Packing typing), with 4-Way XPR actuator
Output resolution	4K UHD 3840 x 2160
Maximum input resolution	4096 x 2160 @ 60Hz
Lens	• Throw ratio: 1.21~1.59, tolerance ± 3% • F-stop: 1.94~2.23 • Focal length: 12.81~16.74mm • Zoom range: 1.3x
Offset	105%~115%, tolerance± 5%
Image size	34.1”~302.4”, optimized wide 80”
Projection distance	1.2m ~ 8.1m (optimized @2.2m)
I/Os	• HDMI V2.0 / HDCP2.2 (x2) • VGA In • Audio In 3.5mm • USB2.0 (For FW upgrade) USB-A for 5V PWR 1.5A • Audio Out 3.5mm • USB2.0 USB-A for USB disk driver and WiFi dongle (x2) • RS-232 male (9-pin D-SUB) • RJ-45 • SPDIF Out (only 2-channel stereo PCM support) • 12V Trigger (3.5mm jack)
Colour	1073.4 Million color
Scan rate	• Horizontal scan rate: 31.0~135.0 KHz • Vertical scan rate: 24~120 Hz
Speaker	Yes, 10W

Power consumption	• Minimum:
	  • 210W (typical), 231W (max.) @ 110VAC
	  • 200W (typical), 220W (max.) @ 220VAC
	• Maximum:
	  • 300W (typical), 330W (max.) @ 110VAC
	  • 290W (typical), 320W (max.) @ 220VAC

Power requirement	100 - 240V ±10%, AC 50/60Hz
Input current	3.5A
Installation orientations	Front, Rear, Ceiling-top, Rear-top
Dimensions (W x D x H)	• Without feet: 315 x 270 x 115 mm (12.40 x 10.63 x 4.53 inches) • With feet: 315 x 270 x 118 mm (12.40 x 10.63 x 4.65 inches)
Weight	< 4.0 kg (8.81 lbs)
Environmental	Operating in 5~40°C , 10% to 85% humidity (non-condensing)

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

ADDITIONAL INFORMATION

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