

DLP[®] Projector

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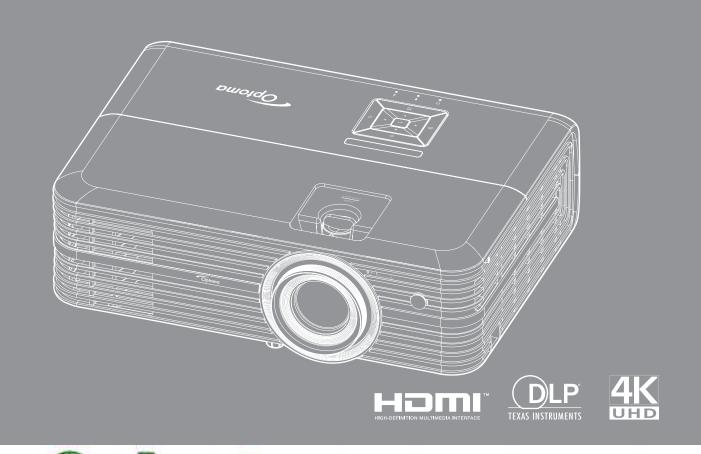


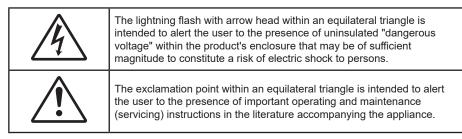
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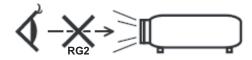
SAFETY



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

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 $5^{\circ}C \sim 40^{\circ}C$
 - (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 *39-41*.
- 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 39-41.
- 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

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Disclaimer

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

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
- R & TTE Directive 1999/5/EC (if product has RF function)

WEEE



Disposal instructions

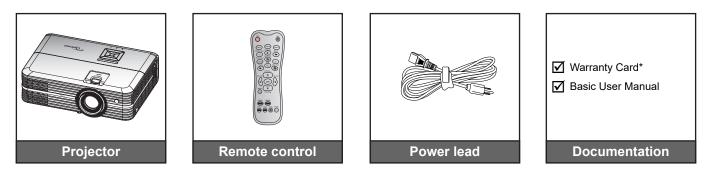
Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

Package Overview

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

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

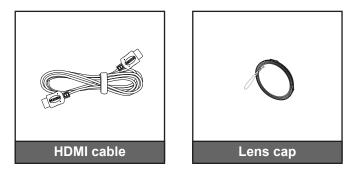
Standard accessories



Note:

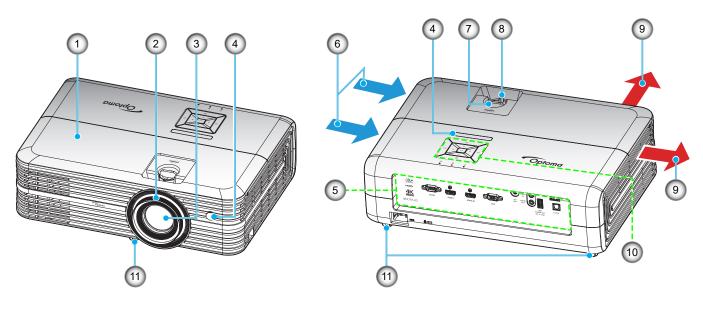
- The actual remote control may vary depending on the region.
- The remote control is shipped with the batteries.
- * For European warranty Information, please visit www.optoma.com.

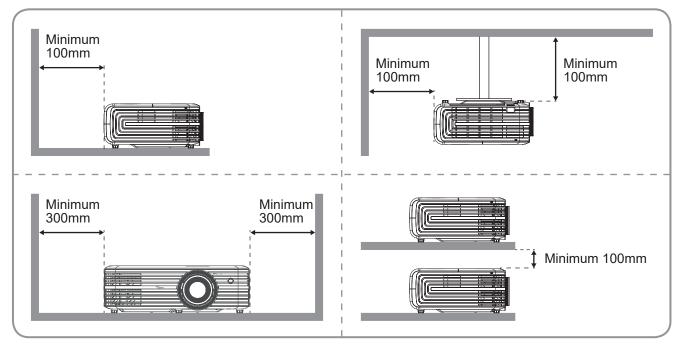
Optional accessories



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

Product Overview





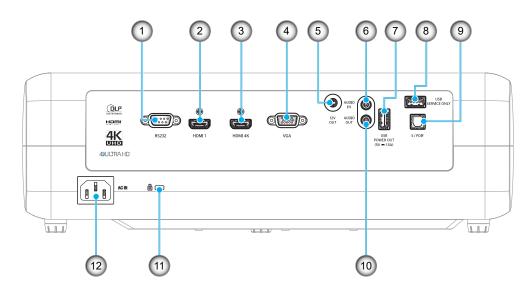
Note:

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- 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.

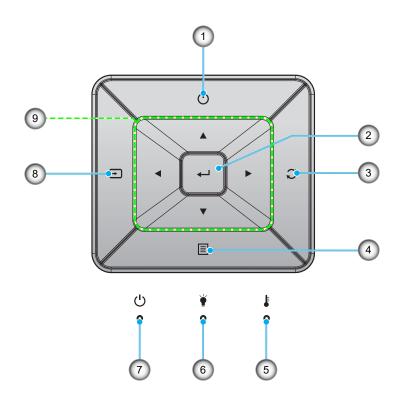
No	ltem	No	Item
1	Top Cover	7.	Lens Shift Dial
2	Focus Ring	8.	Zoom Lever
3	Lens	9.	Ventilation (outlet)
4	IR Receiver	10.	Keypad
5	Input / Output	11.	Tilt-Adjustment Foot
6	Ventilation (inlet)		

Connections



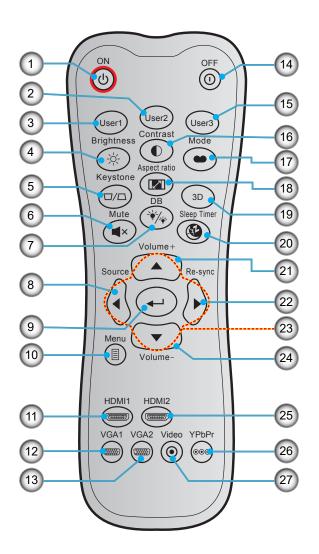
No	Item	No	Item
1.	RS232 Connector	7.	USB Power Out (5V-1.5A)
2.	HDMI 1 Connector	8.	Service Connector
3.	HDMI 2 / MHL Connector	9.	S/PDIF Connector
4.	VGA Connector	10.	AUDIO OUT Connector
5.	12V OUT Connector	11.	Kensington [™] Lock Port
6.	AUDIO IN Connector	12.	Power Socket

Keypad



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

Remote control



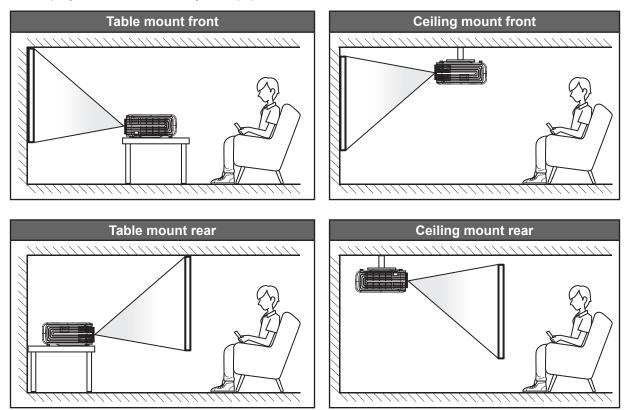
No	Item	No	Item
1.	Power On	15.	User 3
2.	User 2	16.	Contrast
3.	User 1	17.	Display Mode
4.	Brightness	18.	Aspect Ratio
5.	Keystone	19.	3D Mode
6.	Mute	20.	Sleep Timer
7.	DB (Dynamic Black)	21.	Volume +
8.	Source	22.	Re-Sync
9.	Enter	23.	Four Directional Select Keys
10.	Menu	24.	Volume -
11.	HDMI1	25.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

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

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.



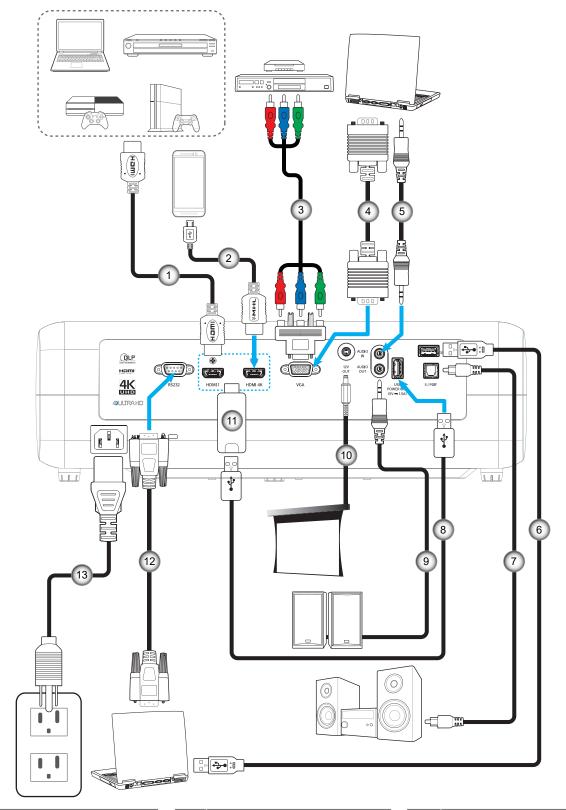
Projector should be placed flat on a surface and 90 degrees / perpendicular to the screen.

- How to determine projector location for a given screen size, please refer to distance table on page *45*.
- How to determine screen size for a given distance, please refer to distance table on page 45.
- **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.

Connecting sources to the projector



NoItem1.HDMI Cable2.MHL Cable

- 3. RCA Component Cable
- 4. VGA In Cable
- 5. Audio In Cable

lo		Item
3	LISB Cable	

N

- USB Cable
 S/PDIF Out Cable
- 8. USB Power Cable
- 9. Audio Out Cable
- 10. 12V DC Jack

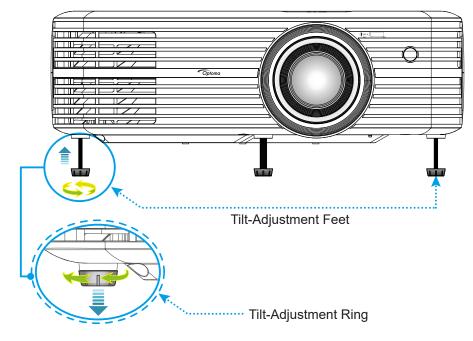
- NoItem11.HDMI Dongle12.RS232 Cable
- 13. Power Cord

Adjusting the projector image

Image height

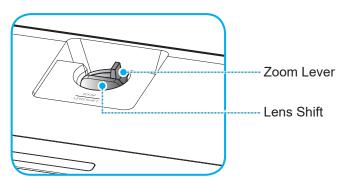
The projector is equipped with elevator feet for adjusting the image height.

- 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.

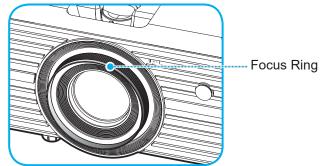


Zoom, lens shift, and focus

- 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.



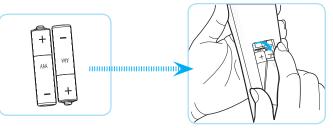
Note: The projector will focus at a distance of 1.2m to 8.1m.

Remote setup

Installing / replacing the batteries

Two AAA size batteries are supplied for the remote control.

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



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

CAUTION

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

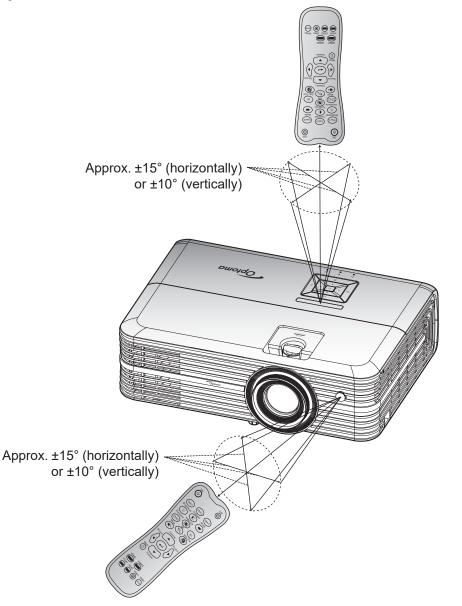
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as the are depleted. Chemicals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

Effective range

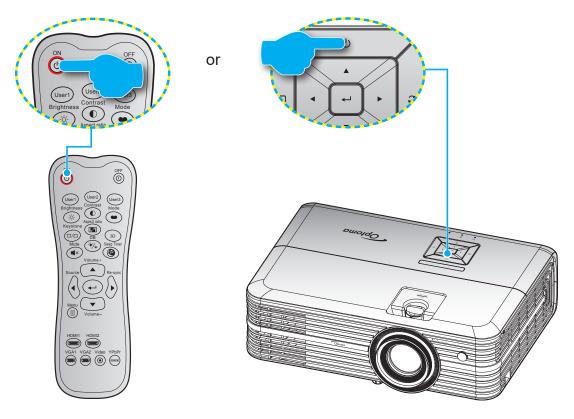
Infra-Red (IR) remote control sensor is located on top of the projector. Ensure to hold the remote control at an angle within 30° (horizontally) or 20° (vertically) perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor 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.



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 " \bigcirc " 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.

Powering off

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

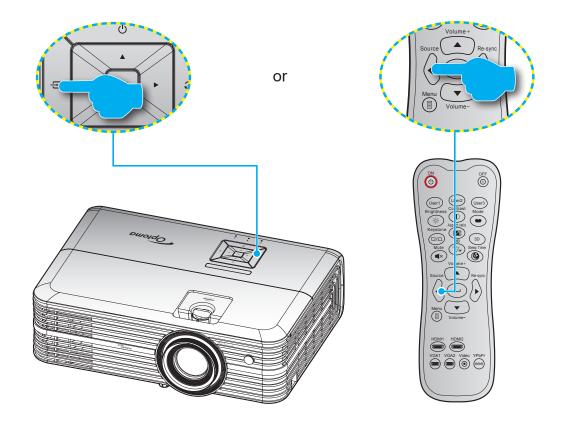


- 3. Press the "'''"/"'''" button again to confirm, otherwise the message will disappear after 15 seconds. When you press the "'''"/"''" button for the second time, the projector will shut down.
- 4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/ Standby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

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

Selecting an input source

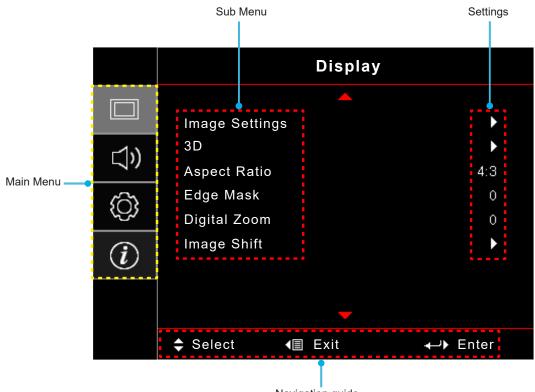
Turn on the connected source that you want to display on the screen, such as computer, notebook, video player, etc. The projector will automatically detect the source. If multiple sources are connected, press the "三" button on the projector keypad or the **Source** button on the remote control to select the desired input.



Menu navigation and features

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

- 1. To open the OSD menu, press in the remote control or the projector keypad.
- 2. When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection on a particular page, press ← on the remote control or the projector keypad to enter sub menu.
- 3. Use ▲▼ keys to select the desired item in the sub menu and then press ← to view further settings. Adjust the settings by using ◀▶ keys.
- 4. Select the next item to be adjusted in the sub menu and adjust as described above.
- 5. Press \leftarrow to confirm, and the screen will return to the main menu.



Navigation guide

OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Cinema
					HDR
					HDR SIM.
					Game
					Reference
		Display Mode			Bright
					User
					3D
					ISF Day
					ISF Night
					ISF 3D
					Off [Default]
					Blackboard
					Light Yellow
		Wall Color			Light Green
					Light Blue
					Pink
					Gray
					Off
Display	Image Settings		HDR		Auto [Default]
Diopidy					Bright
			HDR Picture		Standard [Default]
		Dynamic Range	Mode		Film
					Details
			HDR Demo		Off [Default]
			Mode		On
		Brightness			-50 ~ 50
		Contrast			-50 ~ 50
		Sharpness			1 ~ 15
		Color			-50 ~ 50
		Tint			-50 ~ 50
					Film
					Video
					Graphics
		Gamma [Not 3D Mode]			Standard(2.2)
					1.8
					2.0
					2.4
		Gamma [3D Mode]			3D

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
			BrilliantColor™		1 ~ 10
					D55
					D65
			Color		D75
			Temperature		D83
					D93
					Native
					Native
					HDTV
			Color Gamut		Presentation
					Cinema
					Game
					R [Default]
					G
					В
				Color	С
		Color Settings			Υ
			CMS		М
					W
				x offset	-50 ~ 50 [Default: 0]
Display	Image Settings			y offset	-50 ~ 50 [Default: 0]
				Brightness	-50 ~ 50 [Default: 0]
				Reset	Cancel [Default]
					Yes
				Exit	
				Red Gain	-50 ~ 50
				Green Gain	-50 ~ 50
				Blue Gain	-50 ~ 50
				Red Bias	0 ~ 100
			RGB Gain/Bias	Green Bias	0 ~ 100
				Blue Bias	0 ~ 100
				Reset	Cancel [Default]
					Yes
				Exit	
			Color Space		Auto [Default]
			[Not HDMI Input]		RGB
					YUV
					Auto [Default]
			Color Space [HDMI Input]		RGB(0~255)
			נהטואוו וווputj		RGB(16~235)
					YUV

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Off
			Automatic		On [Default]
			Frequency		-50 ~ 50 (depends on signal) [Default: 0]
		Signal	Phase		0 ~ 31 (depends on signal) [Default: 0]
			H. Position		-50 ~ 50 (depends on signal) [Default: 0]
			V. Position		-50 ~ 50 (depends on signal) [Default: 0]
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		3D Mode			Off [Default]
	3D				On
	30	3D Sync Invert			Off [Default]
					On
					4:3
					16:9
					LBX
	Aspect Ratio				Superwide
					Native
					Auto
	Edge Mask				0 ~ 10 [Default: 0]
	Digital Zoom				-5 ~ 25 [Default: 0]
	-	н			-100 ~ 100 [Default: 0]
	Image Shift				-100 ~ 100 [Default: 0]
					Auto [Default]
	Internal				Off
	Speaker				On
Audio					Off [Default]
	Mute				On
	Volume				0 ~ 10 [Default: 5]
					Front • [Default]
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					Ceiling-top
					Rear-top a 7

Image and set in the	Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
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Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
		User1			Test Pattern
					CMS
					Color Temp
					Gamma
					Auto Source
					Projection
					Lamp Settings
					Digital Zoom
					MHL
					Dynamic Range [Default]
					Dynamic Black
					Test Pattern
					CMS
		User2			Color Temp
					Gamma
	Remote Settings [depends on remote]				Auto Source
					Projection
Setup					Lamp Settings
					Digital Zoom
					MHL [Default]
					Dynamic Range
					Dynamic Black
		User3			Test Pattern
					CMS
					Color Temp
					Gamma
					Auto Source
					Projection
					Lamp Settings
					Digital Zoom
					MHL
					Dynamic Range
					Dynamic Black [Default]
	Projector ID				00 ~ 99
	12V Trigger				On
					Off

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values		
					English [Default]		
					Deutsch		
					Français		
					Italiano		
					Español		
		Language			Português		
					簡体中文		
					日本語		
					한국어		
					Русский		
					Top Left		
					Top Right		
			Menu Location		Center 📕 [Default]		
		Menu Settings			Bottom Left		
					Bottom Right		
					Off		
			Menu Timer		5sec		
					10sec [Default]		
		Auto Source			Off [Default]		
Setup	Options				On		
					HDMI1		
		Input Source			Français Italiano Español Português 簡体中文 日本語 한국어 Pусский Top Left Top Right IDefault] Bottom Left Off 5sec 10sec [Default] Off [Default] On		
		High Altitude			Off [Default]		
		Display Mode					
		Lock					
		Keypad Lock					
		Information Hide			Off [Default]		
					Top Right Center Default] Bottom Left Bottom Right Diff Default] Dn Dff [Default] Dn Dff [Default] Dn Dff [Default] Dn Dff [Default] Dn Diff [Default] Dn Diff [Default] Dn Diff [Default] Diff [Default] Diff [Default] Diff [Default] Diff [Default]		
		Logo			Default [Default]		
					None [Default]		
		Rockground			Blue		
		Background Color			Red		
					Green		
					Gray		
		HDMI 1 EQ			1 ~ 7 [Default: 4]		
		HDMI 2 EQ			1 ~ 7 [Default: 4]		

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup		Reset OSD			Cancel [Default]
	Reset				Yes
		Reset to Default			Cancel [Default]
					Yes
	Regulatory				
	Serial Number				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
	Power Mode (Standby)				
Info	Light Source Hours				
	Projector ID				00 ~ 99
	Color Depth				
	Color Format				
	Filter Usage Hours				
	Brightness Mode				
	FW Version	System			
		MCU			

Display menu

Image settings menu

Display Mode

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

- **Cinema**: Provides the best colors for watching movies.
- **HDR**: Decodes and displays High Dynamic Range (HDR) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut. 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, other display modes (Cinema, Reference, etc.) cannot be selected as HDR delivers color that is highly accurate, exceeding the color performance of the other display modes.
- **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). This mode can ONLY be used with non-HDR content.
- **Game**: Select this mode to increase the brightness and response time level for enjoying video games.
- **Reference**: This mode is intended to reproduce as close as possible the image the way the movie director intended. Color, color temperature, brightness, contrast and gamma settings are all configured to standard reference levels. Select this mode to watch a video.
- **Bright**: Maximum brightness from PC input.
- **User**: Memorize user's settings.
- **3D**: To experience the 3D effect, you need to have 3D glasses. Make sure a Blu-ray 3D DVD player is installed.
- **ISF Day**: Optimize the image with the ISF Day mode to be perfectly calibrated and high picture quality.
- **ISF Night**: Optimize the image with the ISF Night mode to be perfectly calibrated and high picture quality.
- **ISF 3D**: Optimize the image with the ISF 3D mode to be perfectly calibrated and high picture quality.

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

Wall Color

Use this function to obtain an optimized screen image according to the wall color. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

Dynamic Range

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

Note: HDMI1 and VGA do not support Dynamic Range.

> HDR

- Off: Turn off HDR Processing. When set to Off, the projector will NOT decode HDR 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.
- Details: Choose this mode for improved detail and image sharpness in dark scenes.

> HDR Demo Mode

• This feature enables you to see the difference in the image quality between the raw unprocessed image and the image processed as processed by the HDR.

Brightness

Adjust the brightness of the image.

<u>Contrast</u>

The contrast controls the degree of difference between the lightest and darkest parts of the picture.

Sharpness

Adjust the sharpness of the image.

<u>Color</u>

Adjust a video image from black and white to fully saturated color.

<u>Tint</u>

Adjust the color balance of red and green.

<u>Gamma</u>

Set up gamma curve type. After the initial setup and fine tuning is completed, utilize the Gamma Adjustment steps to optimize your image output.

- **Film**: For home theater.
- Video: For video or TV source.
- Graphics: For PC / Photo source.
- Standard(2.2): For standardized setting.
- 1.8 / 2.0 / 2.4: For specific PC / Photo source.

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 Gamut: Select an appropriate color gamut from Native, HDTV, Presentation, Cinema, or Game.
- CMS (Color Management System): Select one of the colors (R/G/B/C/M/Y) to adjust its x/y offset and brightness.
 - Color: Select between red (R), green (G), blue (B), cyan (C), yellow (Y), magenta (M), and white (W) color.
 - x offset: Adjust the x offset value of the selected color.
 - y offset: Adjust the y offset value of the selected color.
 - Brightness: Adjust the brightness value of the selected color.
 - Reset: Return the factory default settings for color adjustments.
 - Exit: Exit the "CMS" menu.
- **RGB Gain/Bias:** This settings allows to configure the brightness (gain) and contrast (bias) of an image.
 - Reset: Return the factory default settings for RGB gain/bias.
 - Exit: Exit the "RGB Gain/Bias" menu.

- **Color Space (non-HDMI input only)**: Select an appropriate color matrix type from the following: AUTO, RGB, or YUV.
- **Color Space (HDMI input only)**: select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.

<u>Signal</u>

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.

<u>UltraDetail</u>

Adjust the edges of the projected image in order to provide more perceived details.

Dynamic Black

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

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.

<u>Reset</u>

Return the factory default settings for color settings.

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.

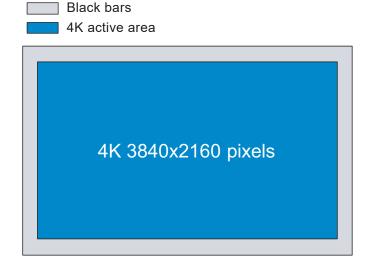
Aspect ratio menu

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

- **4:3**: This format is for 4:3 input sources.
- 16:9: This format is for 16:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- **LBX**: This format is for non-16x9, letterbox source and if you use external 16x9 lens to display 2.35:1 aspect ratio in full resolution.
- **Superwide**: Use this special 2.0:1 aspect ratio to display both 16:9 and 2.35:1 aspect ratio movies without black bars at the top and bottom of the screen.
- **Native**: This format displays the original image without any scaling.
- Auto: Automatically selects the appropriate display format.

Note:

- It is considered normal that black bars appear around the image with a resolution of 4K in each aspect mode.
- The black bars and border will change in size depending on the aspect ratio.



Note:

- Detailed informations about LBX mode:
 - Some Letter-Box Format DVDs are not enhanced for 16x9 TVs. In this situation, the image will not look right when displaying image in 16:9 mode. In this situation, please try to use the 4:3 mode to view the DVD. If the content is not 4:3, there will be black bars around the image in 16:9 display. For this type of content, you can use LBX mode to fill the image on the 16:9 display.
 - If you use an external anamorphic lens, this LBX mode also allows you to watch a 2.35:1 content (include Anamorphic DVD and HDTV film source) that supports anamorphic wide is enhanced for 16x9 Display in a wide 2.35:1 image. In this case, there are no black bars. Lamp power and vertical resolution are fully utilized.
- To use the superwide format, do the following:
 - a) Set the screen aspect ratio to 2.0:1.
 - b) Select "Superwide" format.
 - c) Align the projector image correctly on the screen.

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 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 re	solution	Auto/Scale		
	H-resolution	V-resolution	3840	2160	
	640	480	2880	2160	
	800	600	2880	2160	
4:3	1024	768	2880	2160	
4.3	1280	1024	2880	2160	
	1400	1050	2880	2160	
	1600	1200	2880	2160	
	1280	720	3840	2160	
Wide Laptop	1280	768	3600	2160	
	1280	800	3456	2160	
SDTV	720	576	2700	2160	
3010	720	480	3240	2160	
HDTV	1280	720	3840	2160	
יוטח	1920	1080	3840	2160	

Edge mask menu

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

Digital zoom menu

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

Image shift menu

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

Audio menu

Internal Speaker

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

- **Auto:** Choose "Auto" to automatically turn off the internal speaker when an external speaker is connected to the projector.
- Off: Choose "Off" to turn off the internal speaker.
- **On:** Choose "On" to turn on the internal speaker.

<u>Mute</u>

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.

<u>Volume</u>

Adjust the volume level.

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.

Power Mode (Standby)

Set the power mode setting.

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

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.

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.

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.
- **Front:** Choose "Front", the projector can be operated by the remote control from the front IR receiver.
- **Back:** Choose "Back", the projector can be operated by the remote control from the rear IR receiver.
- **Off:** Choose "Off", the projector can't be operated by the remote control. By selecting "Off", you will be able to use the Keypad keys.

User1/ User2/ User3

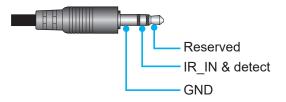
Assign the default function for User1, User2, or User3 between Test Pattern, CMS, Color Temp, Gamma, Auto Source, Projection, Lamp Settings, Digital Zoom, MHL, Dynamic Range, or Dynamic Black.

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.



- **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, 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 HDMI1, HDMI2/MHL, 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

USING THE PROJECTOR

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.

<u>Logo</u>

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.

HDMI 1 EQ

Set the HDMI port EQ value for HDMI1.

HDMI 2 EQ

Set the HDMI port EQ value for HDMI2/MHL.

Note:

- HDMI EQ analyses the signal data and eliminates distortion due to signal loss when using long HDMI cables. The HDMI receiver also includes a timing adjustment circuit that removes timing jitter, restoring the HDMI signal to optimal transmission levels.
- 3840x2160@60Hz suggests using the HDMI cable under 5 meters.
- 3840x2160@30Hz/25Hz/24Hz suggests using the HDMI cable under 15 meters.

Reset menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for all settings.

USING THE PROJECTOR

Info menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Power Mode (Standby)
- Light Source Hours
- Projector ID
- Color Depth
- Color Format
- Filter Usage Hours
- Brightness Mode
- FW Version

MAINTENANCE

Replacing the light bulb (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.

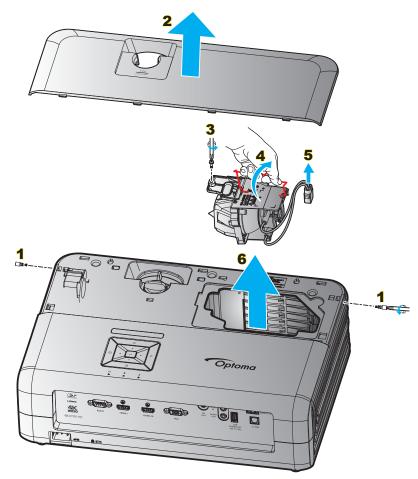


Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!

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 " \bigcirc " button on the projector keypad or the " \bigcirc " 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 2 screws securing the top cover. 1
- 5. Remove the top 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.
- Lamp Reset: (i) Press "Menu" → (ii) Select "Setup" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

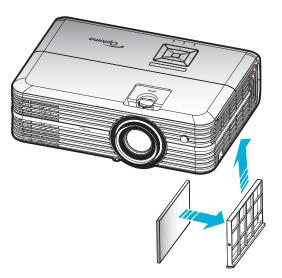
Note:

- 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.

MAINTENANCE

Installing and cleaning the dust filter

Installing the dust filter



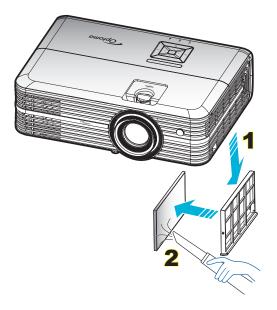
Note: Dust filters are only required/supplied in the selected regions with excessive dust.

Cleaning the dust filter

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

Procedure:

- 1. Switch off the power to the projector by pressing the "''D'" button on the projector keypad or the "'O'" button on the remote control.
- 2. Disconnect the power cord.
- 3. Pull the dust filter compartment downwards to remove it out from the bottom of the projector. 1
- 4. Carefully remove the air filter. Then clean or replace the dust filter. 2
- 5. To install the dust filter, reverse the previous steps.



Compatible resolutions

Digital (HDMI 1.4)

Native resolution: 1920 x 1080 @ 60Hz

Established Timing	Standard Timing	Descriptor Timing	Supported Video Mode	Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	1920 x 1080 @ 60Hz (default)	720 x 480i @ 60Hz 16:9	1920 x 1080p @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz		720 x 480p @ 60Hz 4:3	
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz		720 x 480p @ 60Hz 16:9	
640 x 480 @ 72Hz	1920 x 1200 @ 60Hz (reduced)		720 x 576i @ 50Hz 16:9	
640 x 480 @ 75Hz	1366 x 768 @ 60Hz		720 x 576p @ 50Hz 4:3	
800 x 600 @ 56Hz			720 x 576p @ 50Hz 16:9	
800 x 600 @ 60Hz			1280 x 720p @ 60Hz 16:9	
800 x 600 @ 72Hz			1280 x 720p @ 50Hz 16:9	
800 x 600 @ 75Hz			1920 x 1080i @ 60Hz 16:9	
832 x 624 @ 75Hz			1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 60Hz			1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 70Hz			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	
			4096 x 2160 @ 24Hz	

Digital (HDMI 2.0)

Native resolution: 1920 x 1080 @ 60Hz

B0 / Established Timing	B0 / Standard Timing	B1 / Video Mode	B1 / Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	720 x 480i @ 60Hz 16:9	1920 x 1080p @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz	720 x 480p @ 60Hz 4:3	
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz	720 x 480p @ 60Hz 16:9	
640 x 480 @ 72Hz	1920 x 1200 @ 60Hz (reduced)	720 x 576i @ 50Hz 16:9	
640 x 480 @ 75Hz	1366 x 768 @ 60Hz	720 x 576p @ 50Hz 4:3	
800 x 600 @ 56Hz		720 x 576p @ 50Hz 16:9	
800 x 600 @ 60Hz		1280 x 720p @ 60Hz 16:9	
800 x 600 @ 72Hz		1280 x 720p @ 50Hz 16:9	
800 x 600 @ 75Hz		1920 x 1080i @ 60Hz 16:9	
832 x 624 @ 75Hz		1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 60Hz		1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 70Hz		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	

B0 / Established Timing	B0 / Standard Timing	B1 / Video Mode	B1 / Detail Timing
		4096 x 2160 @ 30Hz	
		4096 x 2160 @ 50Hz	
		4096 x 2160 @ 60Hz	

Note: Support 1920 x 1080 @ 50Hz.

Analog

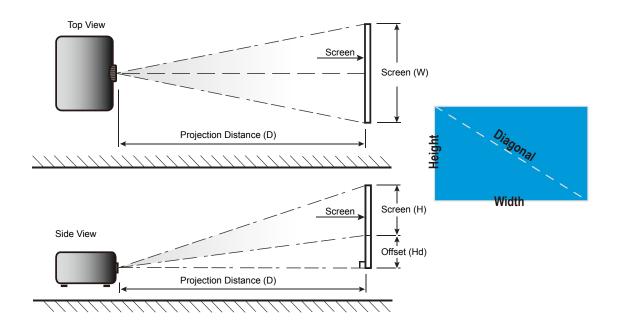
Native resolution: 1920 x 1080 @ 60Hz

B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	1920 x 1080 @ 60Hz (default)	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz		
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz		
640 x 480 @ 72Hz	1400 x 1050 @ 60Hz		
640 x 480 @ 75Hz	1600 x 1200 @ 60Hz		
800 x 600 @ 56Hz			
800 x 600 @ 60Hz			
800 x 600 @ 72Hz			
800 x 600 @ 75Hz			
832 x 624 @ 75Hz			
1024 x 768 @ 60Hz			
1024 x 768 @ 70Hz			
1024 x 768 @ 75Hz			
1280 x 1024 @ 75Hz			
1152 x 870 @ 75Hz			

Note: Support 1920 x 1080 @ 50Hz.

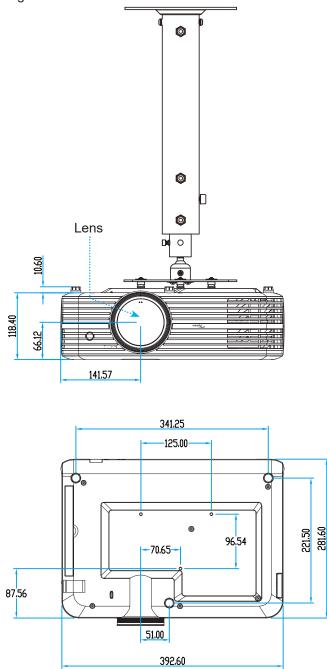
	Screen Size W x H			Projection Distance (D)				Offset (HD)		
Diagonal length (inch) size of 16:9 Screen	(m)		(inch)		(m)		(feet)		Oliset (HD)	
	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(feet)
30	0.66	0.37	25.97	14.61	-	1.05	-	3.44	0.02	0.07
40	0.89	0.50	34.86	19.61	1.07	1.41	3.51	4.62	0.03	0.09
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
300.6	6.65	3.74	262.00	147.37	8.05	-	26.40	-	0.21	0.68

Image size and projection distance



Projector dimensions and ceiling mount installation

- 1. To prevent damage to your projector, please use the Optoma ceiling mount.
- 2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:
- Screw type: M4*3
- Minimum screw length: 10mm

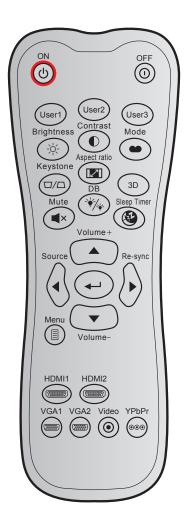


Note: Please note that damage resulting from incorrect installation will void the warranty.



- If you buy a ceiling mount from another company, please be sure to use the correct screw size. Screw size will vary depending on the thickness of the mounting plate.
- Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
- Avoid installing the projector near a heat source.

IR remote codes



Key		NEC	Custom	er code	Key	code	Description
ney		format	Byte 1	Byte 2	Byte 3	Byte 4	Description
Power on	Ċ	Format 1	32	CD	02	FD	Press to turn on the projector.
Power off	\bigcirc	Format 1	32	CD	2E	D1	Press to turn off the projector.
User1		Format 1	32	CD	36	C9	
User2		Format 1	32	CD	65	9A	User defined keys.
User3		Format 1	32	CD	66	99	
Brightness	-`Ċ҉-	Format 1	32	CD	41	BE	Adjust the brightness of the image.
Contrast		Format 1	32	CD	42	BD	Control the degree of difference between the lightest and darkest parts of the picture.
Display mode		Format 1	32	CD	05	FA	Select a display mode for optimized settings for different applications.
Keystone		Format 1	32	CD	07	F8	Press to adjust image distortion caused by tilting the projector.
Aspect ratio	1/1	Format 1	32	CD	64	9B	Press to change aspect ratio of a displayed image.
3D		Format 1	32	CD	89	76	Press to enable/disable the 3D mode function.

Kou	Var		Custom	er code	Key	code	Description
Key		format	Byte 1	Byte 2	Byte 3	Byte 4	Description
Mute	×	Format 1	32	CD	52	AD	Momentarily turns off / on the audio.
DB (Dynamic Black)	`∳∕.₩	Format 1	32	CD	44	BB	Automatically adjusts the picture brightness to give optimum contrast performance.
Sleep timer	æ	Format 1	32	CD	63	9C	Sets the countdown timer interval.
Volume +		Format 2	32	CD	11	EE	Adjust to increase volume.
		Format 2	32	CD	11	EE	
•		Format 2	32	CD	10	EF	Use \blacktriangle , \blacktriangleleft , \blacktriangleright , or \blacktriangledown to select items or
		Format 2	32	CD	12	ED	make adjustments to your selection.
▼		Format 2	32	CD	14	EB	
Source		Format 2	32	CD	10	EF	Press "Source" to select an input signal.
Enter key	~	Format 1	32	CD	0F	F0	Confirm your item selection.
Re-sync		Format 2	32	CD	12	ED	Automatically synchronizes the projector to the input source.
Volume -		Format 2	32	CD	14	EB	Adjust to decrease volume.
Menu		Format 1	32	CD	0E	F1	Display or exit the on-screen display menus for projector.
HDMI1	(*******	Format 1	32	CD	16	E9	Press "HDMI1" to choose source from HDMI 1 connector.
HDMI2		Format 1	32	CD	30	CF	Press "HDMI2" to choose source from HDMI 2 connector.
VGA1	0000000	Format 1	32	CD	1B	E4	Press "VGA1" to choose source from VGA connector.
VGA2	(*************************************	Format 1	32	CD	1E	E1	No function
Video	\odot	Format 1	32	CD	1C	E3	No function
YPbPr	000	Format 1	32	CD	17	E8	No function

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

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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 39-41.
- 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 17.
 - Make sure the projection screen is between the required distance from the projector. (Please refer to page *45*).

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.

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 *39-41*.

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 receiver 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.

LED lightning messages

Necces	On/Stan	dby LED	Temp LED	Lamp LED
Message	(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:

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Temperature warning:

Warning	
Please: 1. Make sure air in and outlets are not blocked. 2. Make sure the environment temperature is under 45 degree C. If the problem persists in spite of the above. Please contact a service center for repair.	

Lamp warning:



• Fan failed:



• Out of display range:



Power down warning:



Specifications

Optical	Description				
	- Graphic up to 2160p@60Hz				
Maximum resolution	- Maximum Resolution: HDMI1 (2.0): 2160p@60Hz				
	HDMI2 (1.4): 2160p@60Hz				
Native resolution	(w/o actuator) 1920x1080				
Lens	Manual zoom and manual focus				
Image size (diagonal)	34.1"~302.4", optimized@wide 82"(2.2m)				
Projection distance	1.2~8.1m, optimized@1.61m				
-					
Electrical	Description				
	- HDMI V1.4				
	- HDMI V2.0 (MHL)				
Inputs	- VGA IN				
mpara	- Audio In 3.5mm				
	- USB-A x2 (1 for Service, 1 for 5V PWR 1.5A)				
	- RS232C male (9-pin D-SUB)				
	- Audio Out 3.5mm				
Outputs	- SPDIF Out				
	- 12V Trigger (3.5mm jack)				
Color reproduction	1073.4 Million color				
Scan rate	Horizontal scan rate: 15.375 ~ 91.146 KHz				
	Vertical scan rate: 24 ~ 85 Hz (120Hz for 3D feature projector)				
Built-in speaker	Built-in speakers (x2)				
Power requirement	100 - 240V ±10%, AC 50/60Hz				
Input current	3.8A				
Mechanical	Description				
Installation orientation	Front, Rear, Ceiling - Front, Rear - top				
Dimensions	- 392.6 x 281.6 x 118.4 mm (without feet)				
(W x D x H)	- 392.6 x 281.6 x 129 mm (with feet)				
Weight	6.5 ±0.5 kg				

Environmental conditions Operating in $5 \sim 40^{\circ}$ C, 10% to 85% humidity (non-condensing)

Note: All specifications are subject to change without notice.

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For service or support, please contact your local office.

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