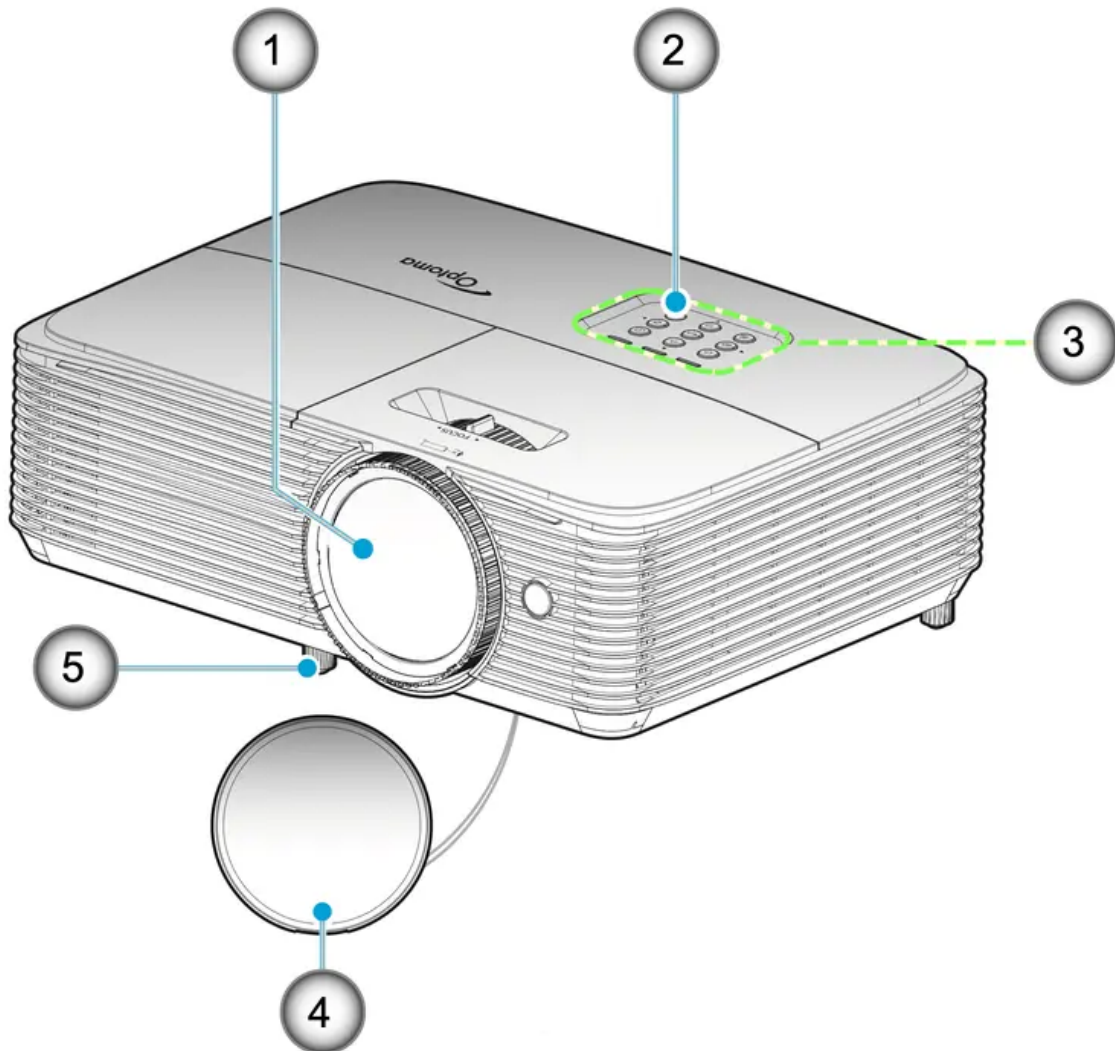
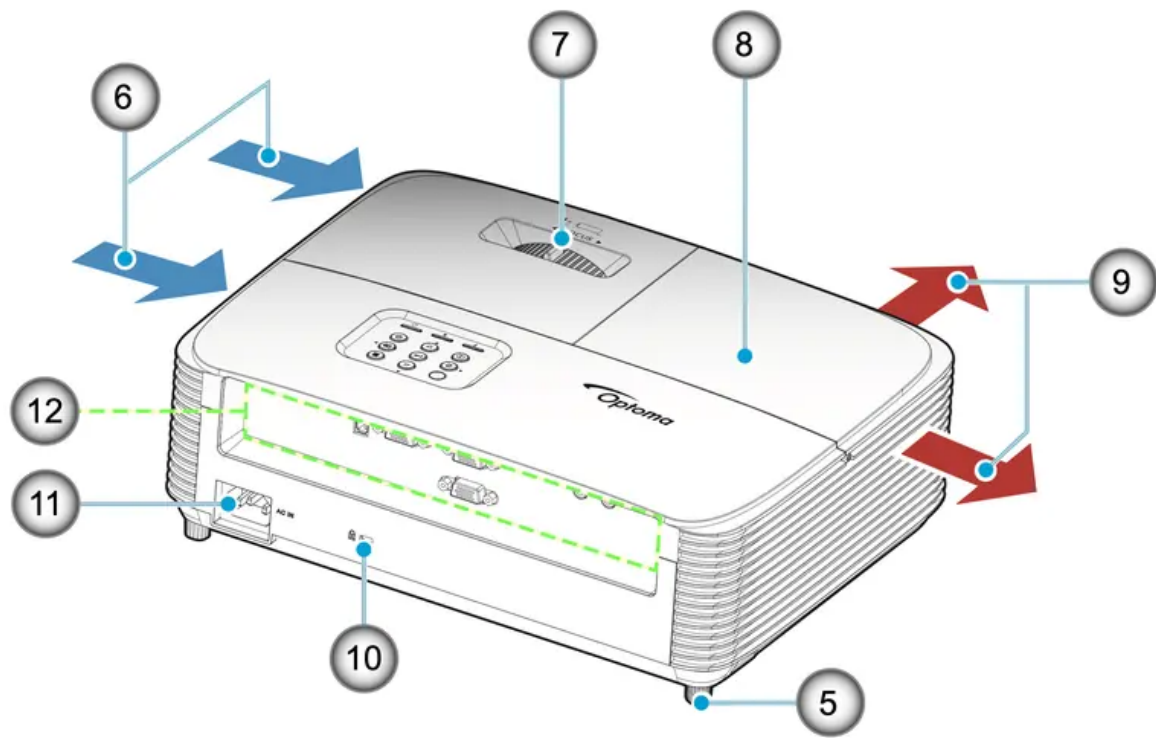


INTRODUCTION

Product Overview



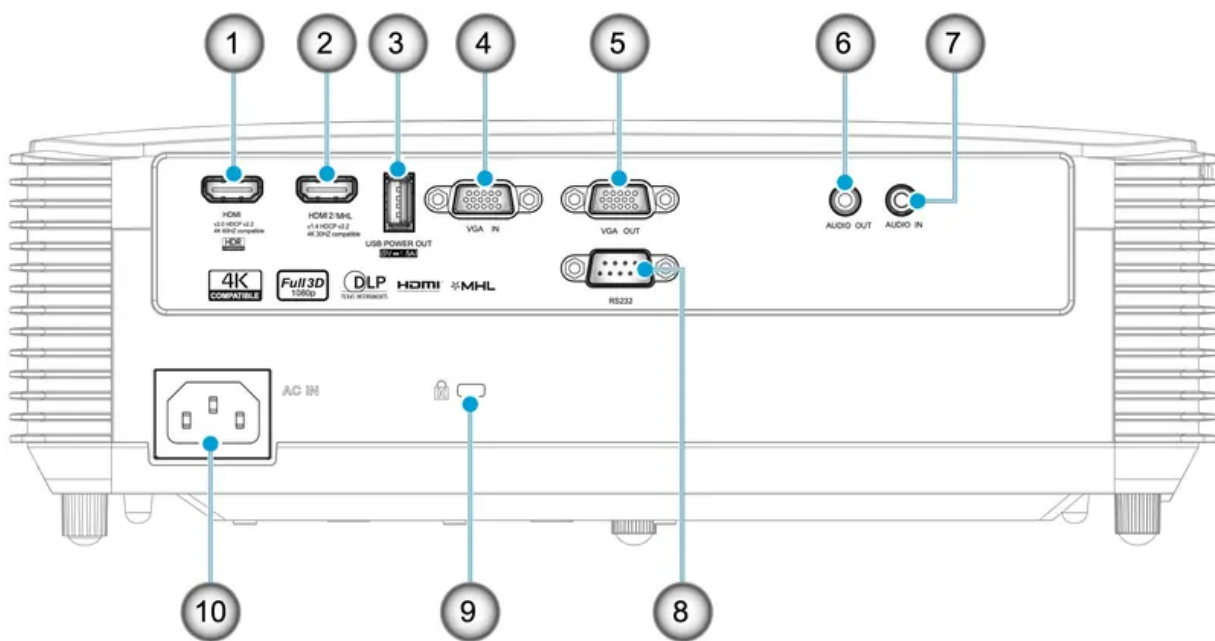


Note: Keep a minimum distance of 20 cm between the “inlet” and “outlet” labels.

No	Item
1.	Lens
2.	IR Receiver
3.	Keypad
4.	Lens Cap
5.	Tilt-Adjustment Foot
6.	Ventilation (inlet)

No	Item
7.	Focus Lever
8.	Lamp Cover
9.	Ventilation (outlet)
10.	Kensington™ Lock Port
11.	Power Socket
12.	Input / Output

Connections



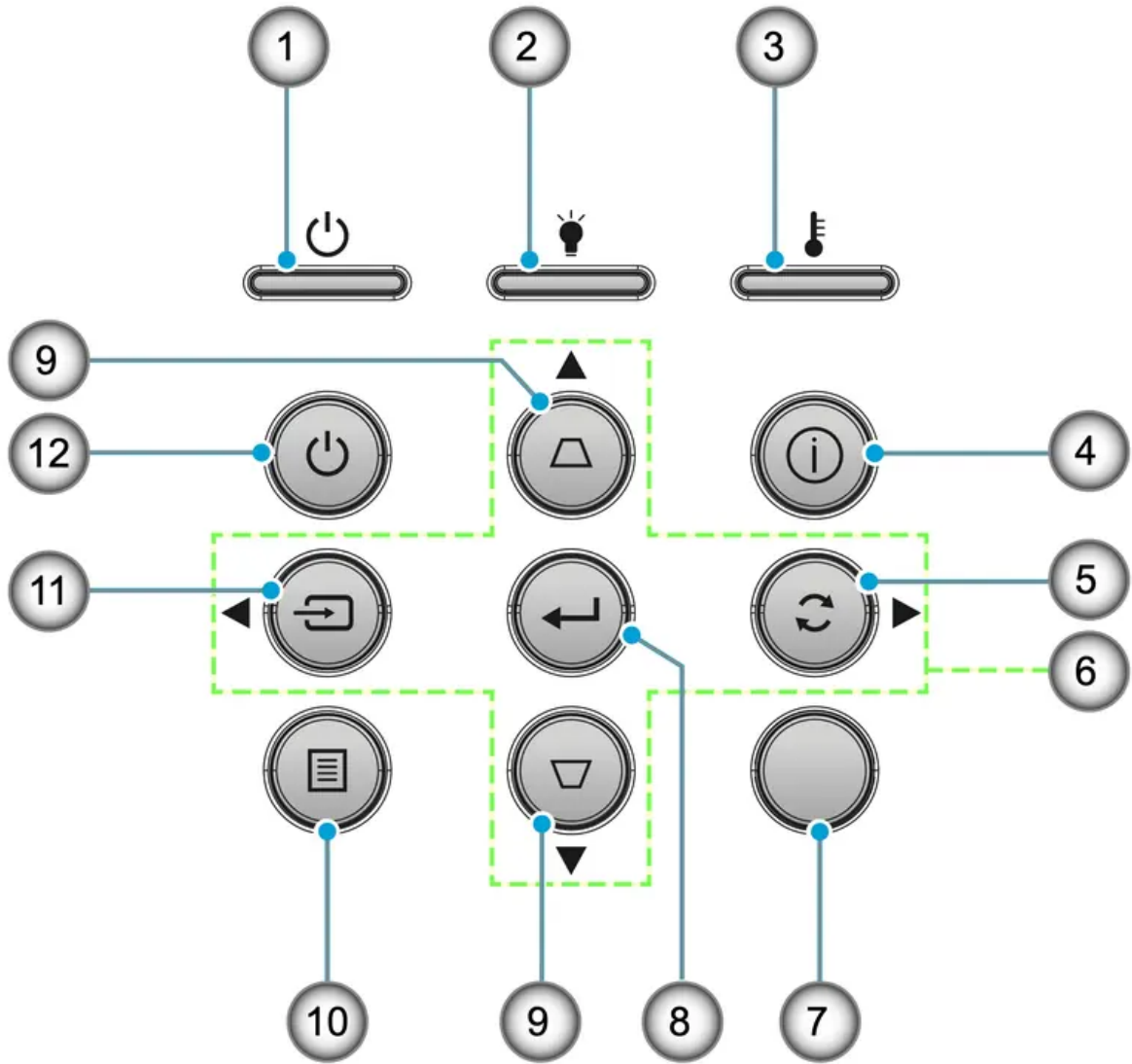
No	Item
1.	HDMI Connector *
2.	HDMI 2 / MHL Connector **
3.	USB Power Out (5V 1.5A) Connector / MOUSE / SERVICE Connector
4.	VGA IN Connector
5.	VGA OUT Connector

No	Item
6.	AUDIO OUT Connector
7.	AUDIO IN Connector
8.	RS232 Connector
9.	Kensington™ Lock Port
10.	Power Socket

Note:

- To ensure the best image quality and avoid connection errors, we recommend the use of High Speed or Premium Certified HDMI cables up to 5 meters.
- Remote mouse requires special remote control.
- * HDMI 1 supports 4K 60HZ and HDR.
- ** HDMI 2 supports 4K 30HZ, not support HDR.

Keypad



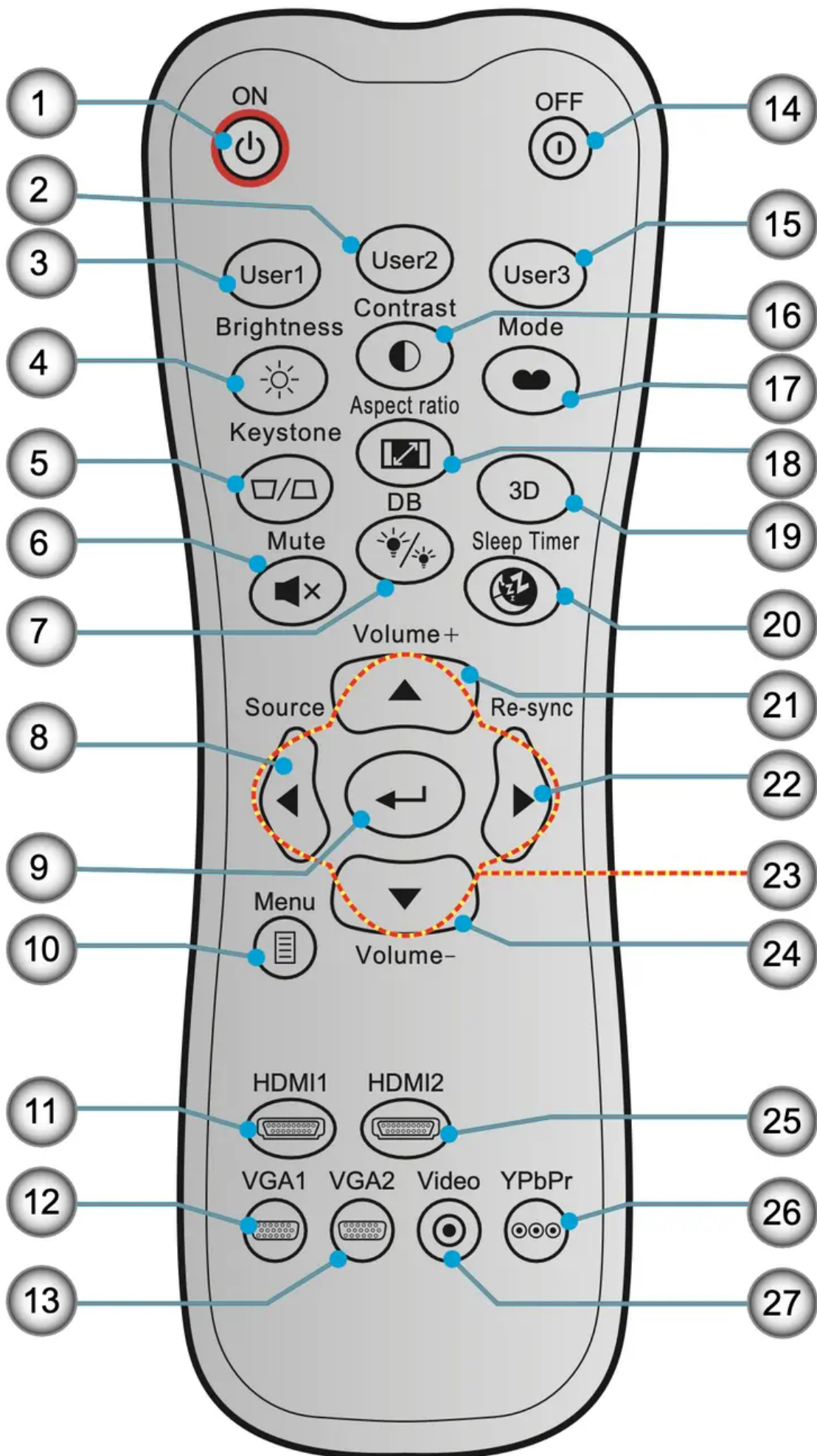
No	Item
1.	On/Standby LED
2.	Lamp LED
3.	Temp LED
4.	Information
5.	Re-Sync
6.	Four Directional Select Keys



No	Item
7.	IR Receiver
8.	Enter
9.	Keystone Correction
10.	Menu
11.	Source
12	Power



Remote control 1



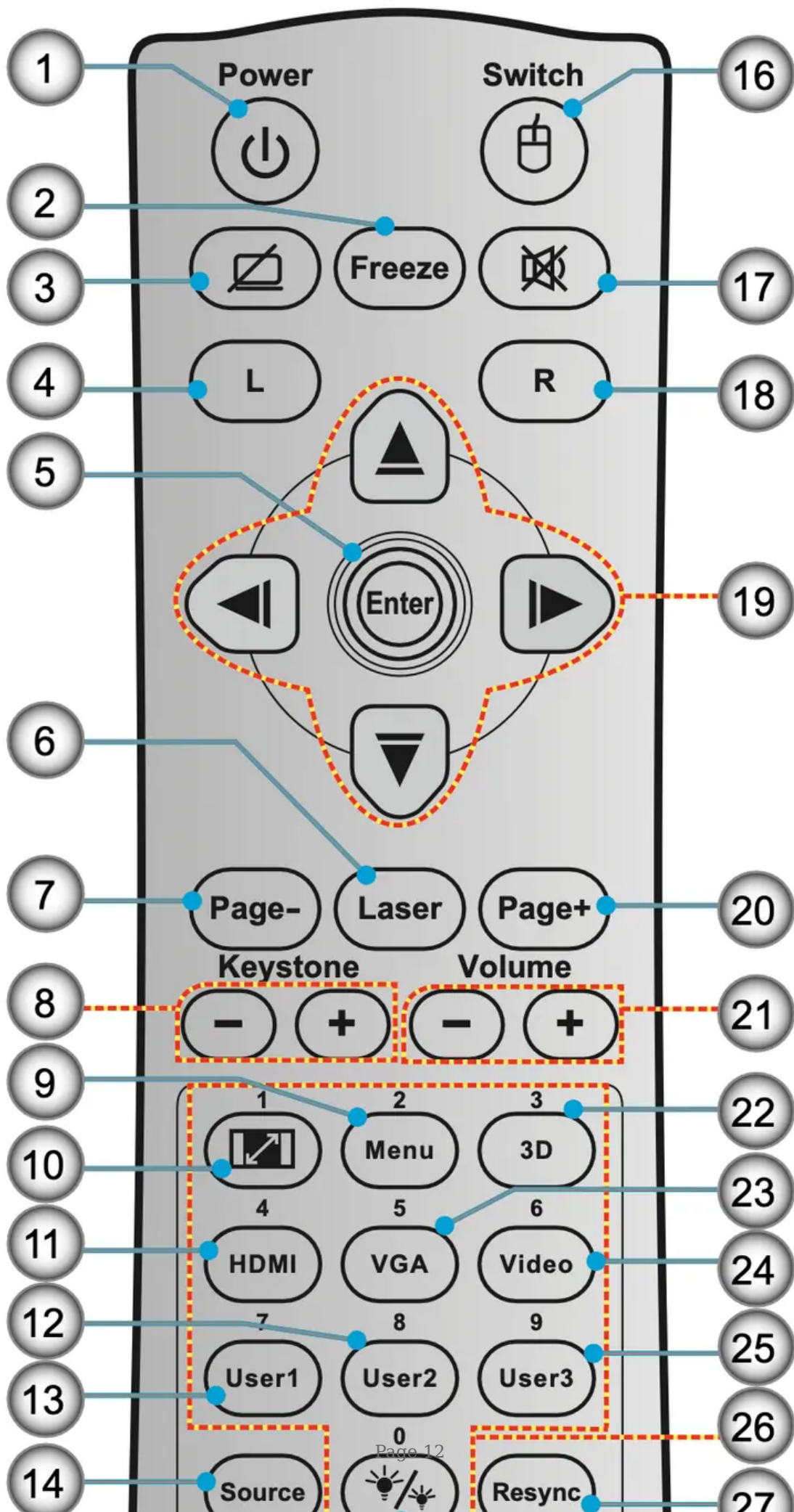
No	Item
1.	Power On
2.	User 2
3.	User 1
4.	Brightness
5.	Keystone
6.	Mute
7.	DB (Dynamic Black)
8.	Source
9.	Enter
10.	Menu
11.	HDMI1
12.	VGA1
13.	VGA2 (not supported)
14.	Power Off

No	Item
15.	User 3
16.	Contrast
17.	Display Mode
18.	Aspect Ratio
19.	3D Menu On / Off
20.	Sleep Timer
21.	Volume +
22.	Re-Sync
23.	Four Directional Select Keys
24.	Volume -
25.	HDMI2
26.	YPbPr (not supported)
27.	Video (not supported)

Note:

- The actual remote control may vary depending on the region.
- Some keys may have no function for models that do not support these features.

Remote control 2



No	Item
1.	Power On / Off
2.	Freeze
3.	Display Blank / Audio Mute
4.	Mouse Left Click
5.	Enter
6.	Laser
7.	Page -
8.	Keystone - / +
9.	Menu
10.	Aspect Ratio
11.	HDMI
12.	User 2
13.	User 1
14.	Source

No	Item
15.	Brightness Mode
16.	Mouse On / Off
17.	Mute
18.	Mouse Right Click
19.	Four Directional Select Keys
20.	Page +
21.	Volume - / +
22.	3D Menu On / Off
23.	VGA
24.	Video (not supported)
25.	User 3
26.	Numeric Keypad (0-9)
27.	Resync

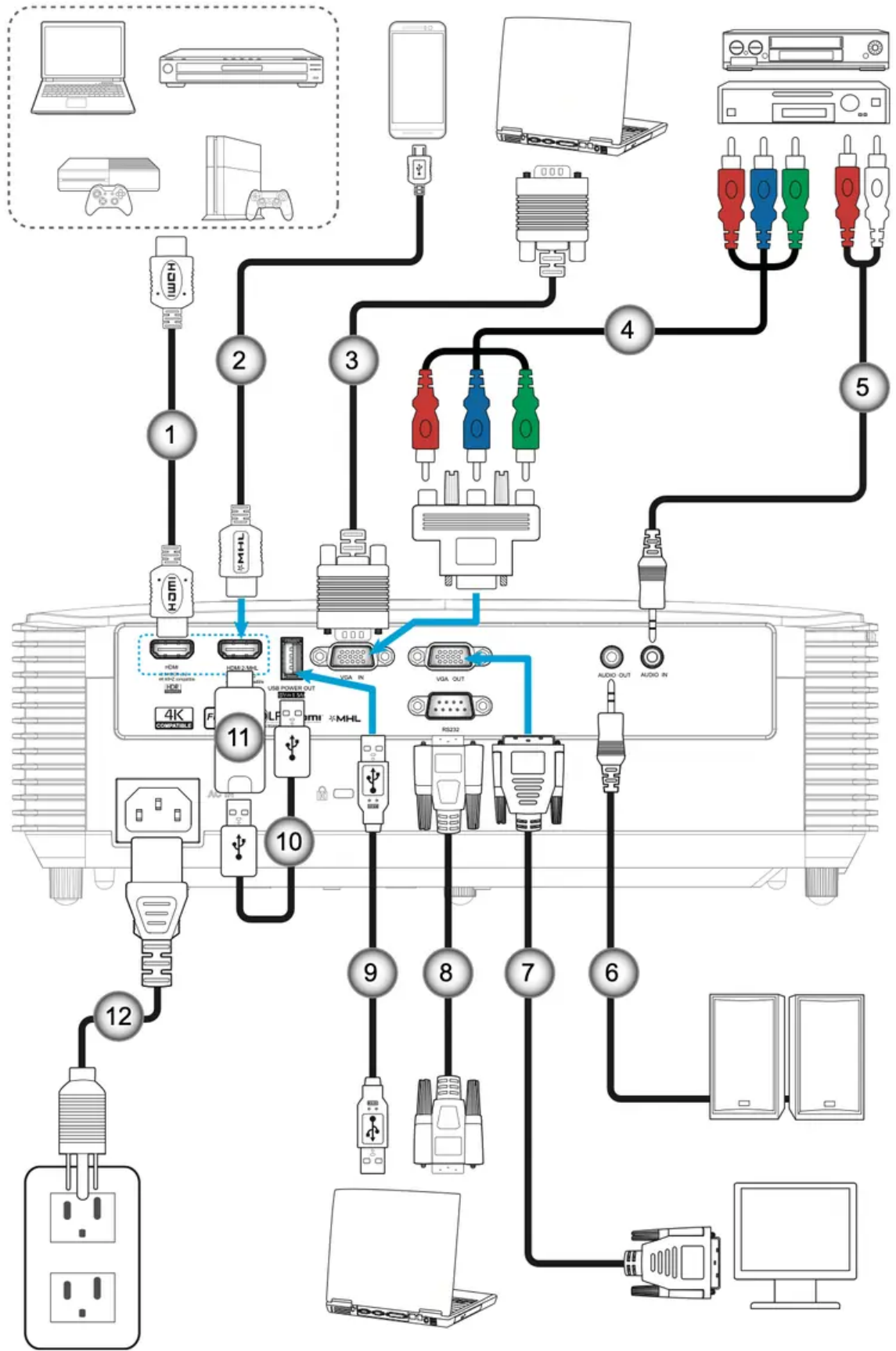
Note:

- The actual remote control may vary depending on the region.
- Some keys may have no function for models that do not support these features.

SETUP AND INSTALLATION

Connecting sources to the projector





No	Item
1.	HDMI Cable
2.	HDMI / MHL Cable
3.	VGA In Cable
4.	RCA Component Cable
5.	Audio In Cable
6.	Audio Out Cable

No	Item
7.	VGA Out Cable
8.	RS232 Cable
9.	USB Cable
10.	USB Power Cable
11.	HDMI Dongle
12.	Power Cord

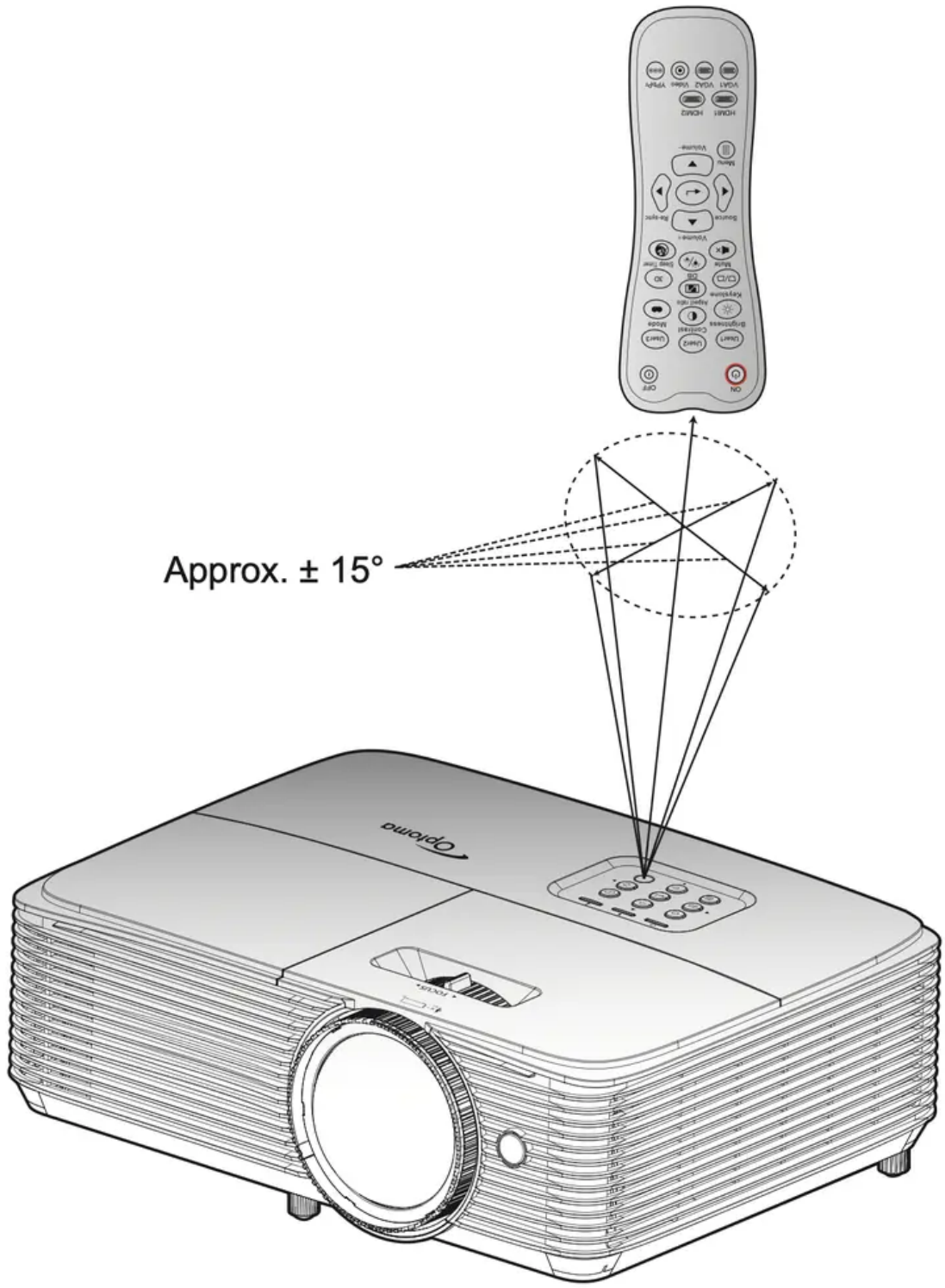
Effective range

Infra-Red (IR) remote control sensor is located on top of the projector. Ensure to hold the remote control at an angle within 30 degrees perpendicular to the projector's top IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer than 6 meters (~ 20 feet).

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

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.

- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.
- Please keep the remote controller away from fluorescent lamps for over 2 meters or the remote controller might become malfunction.
- If the remote control is close to Inverter-Type fluorescent lamps, it might become ineffective from time to time.
- If the remote control and the projector are within a very short distance, the remote control might become ineffective.
- When you aim at the screen, the effective distance is less than 6 meters from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.

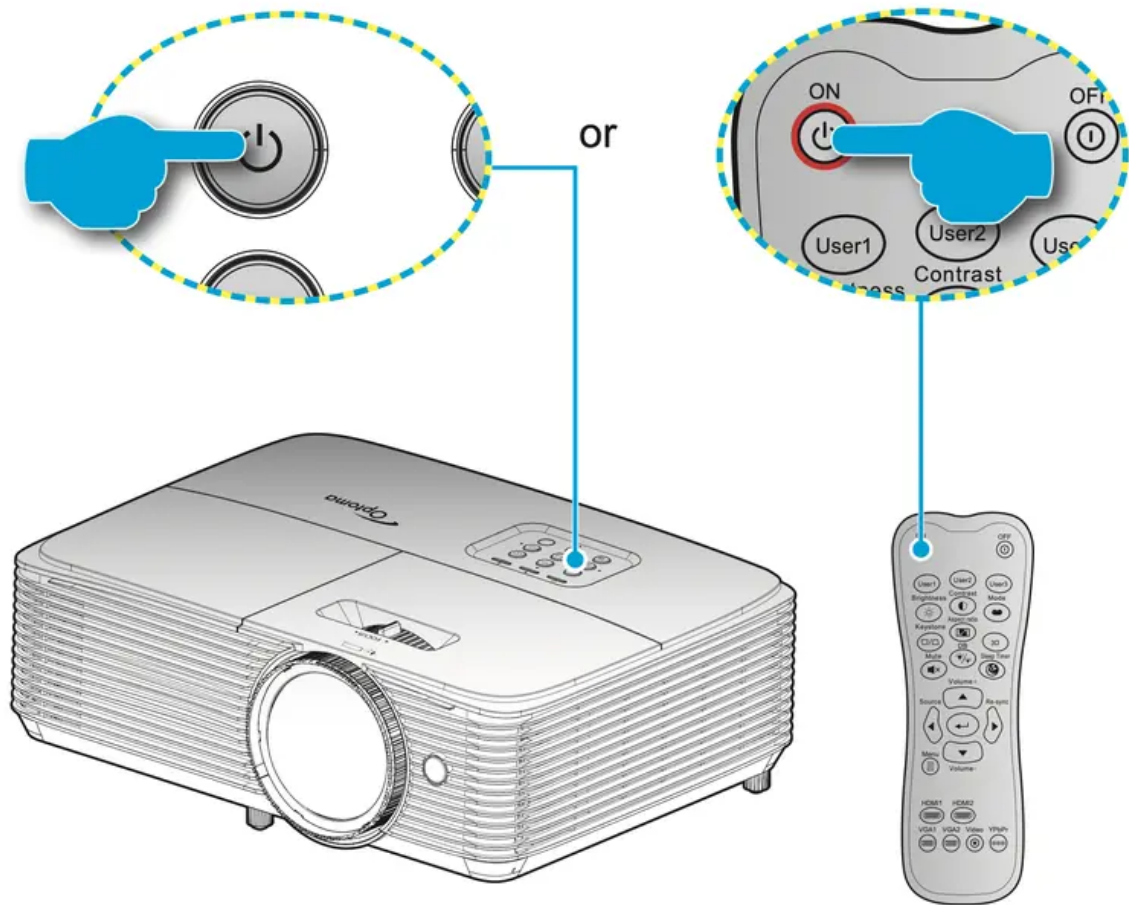


Approx. ± 15°




USING THE PROJECTOR

Powering on / off the projector




Powering on

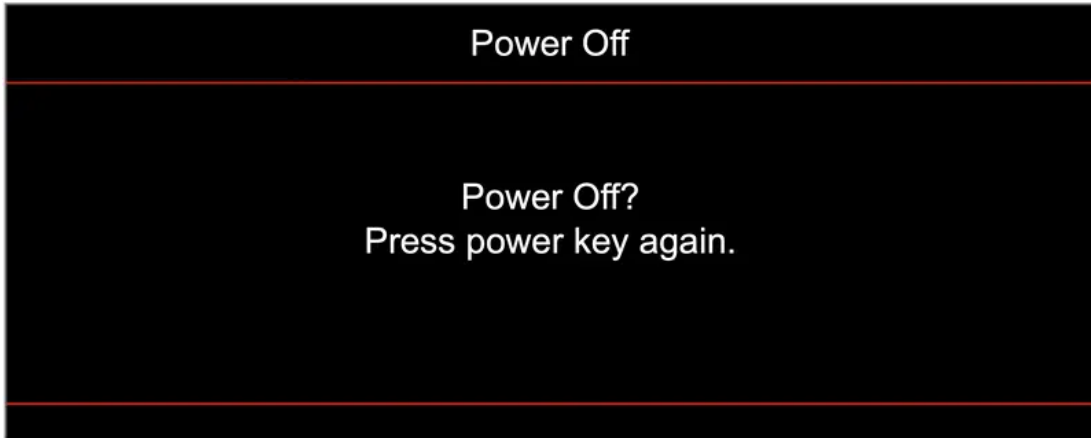
1. Securely connect the power lead and signal/source cable. When connected, the On/ Standby LED will turn red.
2. Turn on the projector by pressing the "  " either on the projector keypad or the remote control.
3. A start up screen will display in approximately 10 seconds and the On/Standby LED will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




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

Powering off

1. Turn off the projector by pressing the "  " either on the projector keypad or the remote control.

2. The following message will be displayed:

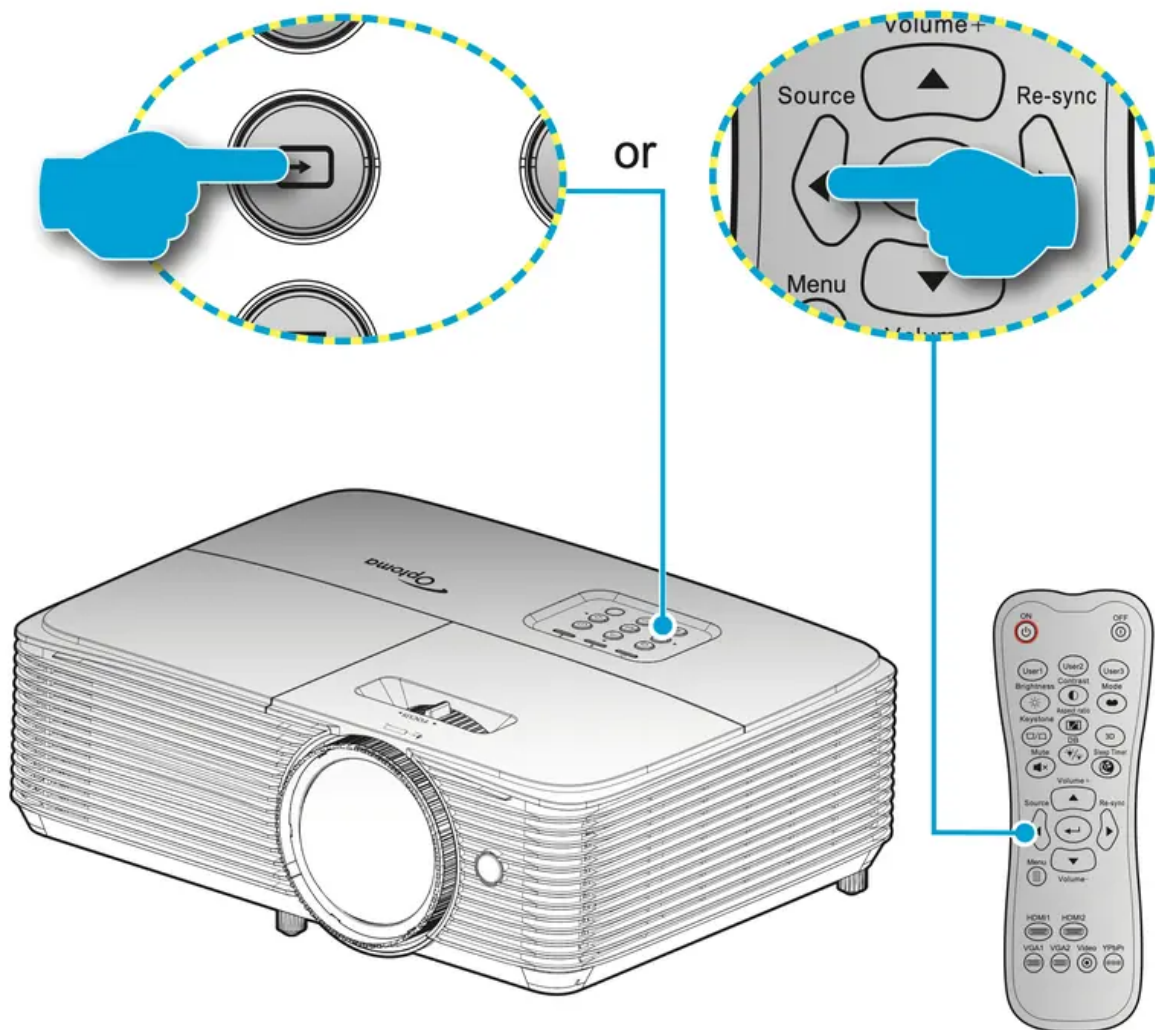


3. Press the "  " again to confirm, otherwise the message will disappear after 15 seconds. When you press the "  " button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/ Standby LED will flash green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

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














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 DB connected, 3D push the source button on the projector keypad or the remote control to select the desired input.

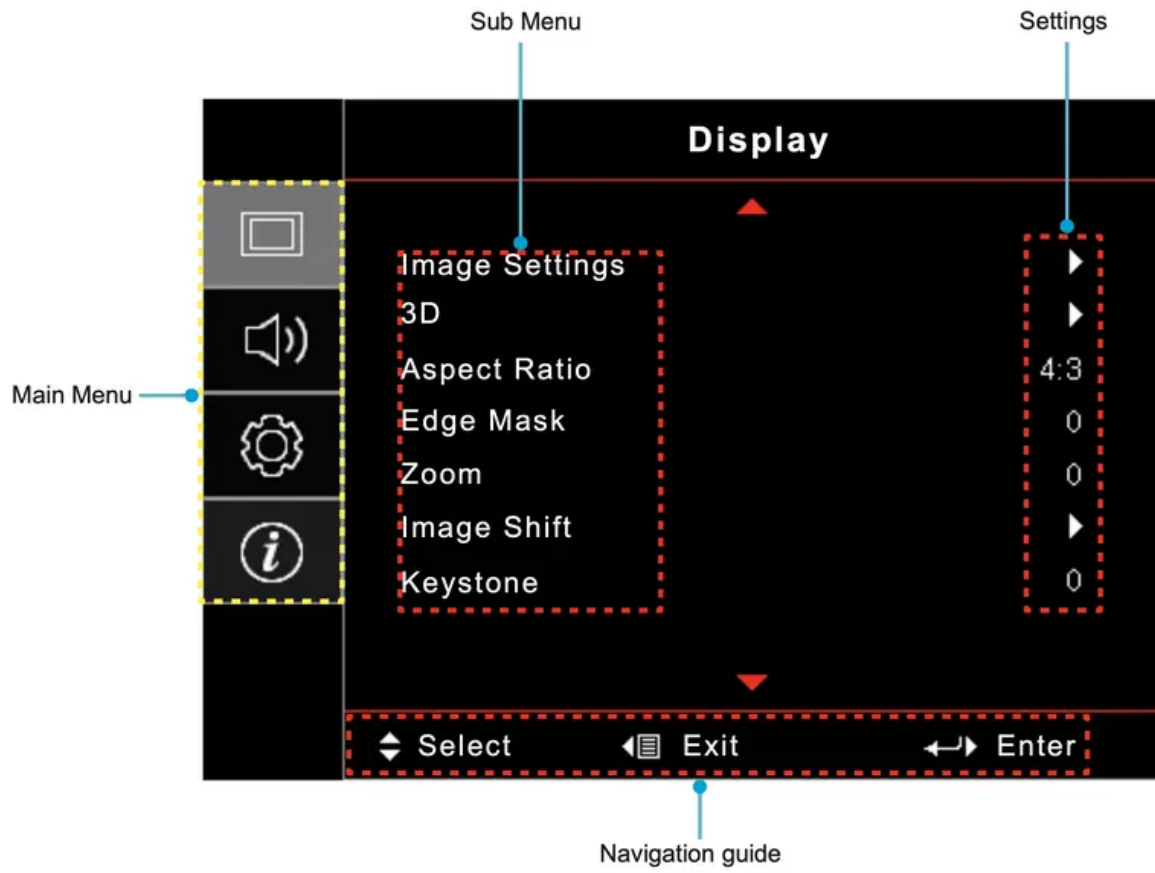


Menu navigation and features

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



6. To exit, press the ◀ or ☰ again. The OSD menu will close and the projector will automatically save the new settings.







OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Display	Image Settings	Display Mode			Cinema	
					Film	
					HDR	
					HDR SIM.	
					Vivid	
					Game	
					Reference	
					Bright	
					User	
					3D	
					ISF Day	
					ISF Night	
				ISF 3D		
			Wall Color			Off [Default]
						Blackboard
						Light Yellow
						Light Green
						Light Blue
						Pink
			Dynamic Range	HDR		Off
						Auto [Default]
				HDR Picture Mode		Bright
						Standard [Default]
						Film
			Brightness			-50~50
			Contrast			-50~50
			Sharpness			1~15
			Gamma	Film		
				Video		
				Graphics		
				Standard(2.2)		
				1.8		
				2.0		
				2.4		
			HDR			
			Color Settings	BrilliantColor™		1~10
				Color Temperature		Standard
						Cool
						Cold

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Color Settings	Color Matching	Color	R [Default]
					G
					B
					C
					Y
					M
					W
				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			
		Color Space [Not HDMI Input]		Auto [Default]	
				RGB	
				YUV	
		Color Space [HDMI Input]		Auto [Default]	
				RGB(0~255)	
				RGB(16~235)	
				YUV	
		Signal	Automatic		Off
					On [Default]
			Frequency		-50 ~ 50 (depends on signal) [Default: 0]
			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]		
Exit					
Enhanced Gaming			Off [Default]		
			On		

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Display	Image Settings	Brightness Mode			Bright	
					Eco.	
					Dynamic	
					Eco+	
		Reset				
	3D	3D Mode				Off
						On [Default]
		3D Tech.				DLP-Link [Default]
						3D Sync
		3D → 2D				3D [Default]
						L
						R
		3D Format				Auto [Default]
						Side by Side
						Top and Bottom
						Frame Sequential
	3D Sync Invert				Frame Packing	
					On	
	Reset				Off [Default]	
					Cancel [Default]	
					Yes	
	Aspect Ratio					4:3
						16:9
						LBX
						Native
						Auto
	Edge Mask					0~10 [Default: 0]
Zoom					-5~25 [Default: 0]	
Image Shift	 H				-100~100 [Default: 0]	
	 V				-100~100 [Default: 0]	
Keystone					-40~ 40 [Default: 0]	
Audio	Mute				Off [Default]	
					On	
	Volume					0-10 [Default: 5]
	Audio Input	HDMI1				Audio 1
						Audio 2
						Default [Default]
		HDMI2/MHL				Audio 1
						Audio 2
						Default [Default]
	VGA					Audio 1
					Audio 2	






Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values		
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)	
						Yes	
		Optional Filter Installed				No	
						Off	
		Filter Reminder				300hr	
						500hr [Default]	
						800hr	
						1000hr	
	Filter Reset				Cancel [Default]		
					Yes		
	Power Settings	Direct Power On				Off [Default]	
						On	
		Signal Power On				Off [Default]	
						On	
		Auto Power Off (min.)				0~180 (5 min increments) [Default: 20]	
		Sleep Timer (min.)	Sleep Timer (min.)				0~990 (30 min increments) [Default: 0]
			Always On				No [Default]
						Yes	
		Quick Resume					Off [Default]
							On
		Power Mode (Standby)					Active
						Eco [Default]	
	USB Power					Off [Default]	
						On	
						Auto	
	Security	Security				Off	
						On	
		Security Timer			Month		
					Day		
					Hour		
	Change Password						

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



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



Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Menu Settings	Menu Location		Top left 
					Top right 
					Center  [Default]
					Bottom left 
					Bottom right 
			Menu Timer		Off
					5sec
					10sec [Default]
			Auto Source		Off [Default]
					On
		Input Source		HDMI1	
				HDMI2/MHL	
				VGA	
		Input Name	HDMI1		Default [Default]
					Custom
			HDMI2/MHL		Default [Default]
					Custom
			VGA		Default [Default]
					Custom
		High Altitude		Off [Default]	
				On	
		Display Mode Lock		Off [Default]	
				On	
		Keypad Lock		Off [Default]	
				On	
		Information Hide		Off [Default]	
				On	
	Logo		Default [Default]		
			Neutral		
			User		
	Background Color		None [Default for Video]		
			Blue [Default for Data model/Pro-AV]		
			Red		
		Green			
		Gray			
		Logo			
		Logo			
Reset	Reset OSD		Cancel [Default]		
			Yes		
	Reset to Default		Cancel [Default]		
			Yes		



Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
Info	Regulatory					
	Serial Number					
	Source					
	Resolution				00x00	
	Refresh Rate				xxHz	
	Display Mode					
	Power Mode (Standby)					
	Lamp Hours	Bright				0 hr
		Eco				0 hr
		Dynamic				0 hr
		Eco+				0 hr
		Total				
	Brightness Mode					
	FW Version	System				
		MCU				

Display menu

Display image settings menu

Display Mode

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

- **Cinema:** Provides the best colors for watching movies.
- **Film:** Select to display the purest color settings for home theatre.
- **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 nonHDR content.
- **Vivid:** In this mode, the color saturation and brightness are well-balanced. Choose this mode for playing games.
- **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 your PC/portable device has a 120 Hz signal output quad buffered graphics card and a 3D Player 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: HDMI2 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.
 - **Detail:** The signal comes from OETF conversion to achieve the best color matching.

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.

Gamma

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

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

Note: If the Display Mode setting is set to HDR, user can only select HDR 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 Standard, Cool, or Cold.
- **Color Matching:** Select the following options:
 - Color: Adjust the red (R), green (G), black (B), cyan (C), yellow (Y), magenta (M), and white (W) level of the image.
 - Hue: Adjust the color balance of red and green.
 - Saturation: Adjust a video image from black and white to fully saturated color.
 - Gain: Adjust the image brightness.
 - Reset: Return the factory default settings for color matching.
 - Exit: Exit the “Color Matching” menu.
- **RGB Gain/Bias:** This settings allows to configure the brightness (gain) and contrast (bias) of an image.
 - Reset: Return the factory default settings for RGB gain/bias.
 - Exit: Exit the “RGB Gain/Bias” menu.
- **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.

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.

Enhanced Gaming

Enable this feature to reduce response times (input latency) during gaming to 16ms and 8.4ms.

Note: 16ms for 1080p 60Hz; 8.4ms for 1080p 120Hz.

Brightness Mode

Adjust the brightness mode settings for lamp-based projectors.

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

Reset

Return the factory default settings for color settings.

Display 3D menu

3D Mode

Use this option to disable or enable the 3D function.

- **Off:** Select “Off” to turn off 3D mode.
- **On:** Select “On” to turn on 3D mode.

3D Tech.

Use this option to select 3D technology.

- **DLP-Link:** Select to use optimized settings for DLP 3D Glasses.
- **3D Sync:** Select to use optimized settings for IR, RF or polarized 3D Glasses.

3D → 2D

Use this option to specify how the 3D content should appear on the screen.

- **3D:** Display 3D signal.
- **L (Left):** Display the left frame of 3D content.
- **R (Right):** Display the right frame of 3D content.

Note: When changing the input source from 3D to 2D, make sure the 3D Mode setting is set to Off. Otherwise, 2D input source will appear distorted (dual image).

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.
- **Side by Side:** 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.
- **Frame Packing:** Display 3D signal in “Frame Packing” format.

3D Sync Invert

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

Reset

Return the factory default setting for 3D settings.

- **Cancel:** Select to cancel Reset.
- **Yes:** Select to return the factory default settings for 3D.

Display aspect ratio menu

Aspect Ratio

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

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

1080p scaling table

16:9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1440x1080.				
16x9	Scale to 1920x1080.				
LBX	Scale to 1920x1440, then get the central 1920x1080 image to display.				
Native mode	-1:1 mapping centered. -No scaling will be made; the image is displayed with the resolution based on input source.				

Display edge mask menu

Edge Mask

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

Display zoom menu

Zoom

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

Display image shift menu

Image Shift

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

Display keystone menu

Keystone

Adjust the image distortion caused by tilting the projector.

Audio menu

Audio mute menu

Mute

Use this option to temporarily turn off the sound.

- **Off:** Choose "Off" to turn mute off.

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

Note:

- “Mute” function affects both internal and external speaker volume.
- When an external speaker is connected, the internal speaker is automatically muted.

Audio volume menu

Volume

Adjust the audio volume level.

Audio audio input menu

Audio Input

Select the audio input port for the video sources as follows:

- **HDMI1:** Audio 1, Audio 2, or Default.
- **HDMI2/MHL:** Audio 1, Audio 2, or Default.
- **VGA:** Audio 1 and Audio 2.

Setup menu

Setup projection menu

Projection

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

Setup lamp settings menu

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.

Lamp Reset

Resets the lamp hour counter after replacing the lamp.

Setup filter settings menu

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 Off, 300hr, 500hr, 800hr, and 1000hr.

Filter Reset

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

Setup power settings menu

Direct Power On

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

Signal Power On

Choose “On” to activate Signal Power mode. The projector will automatically power on when a signal is detected, without pressing the “Power” key on the projector Keypad or on the remote control.

Note: If the “Signal Power On” option is turned “On”, the power consumption of the projector in standby mode will be over 3W.

Auto Power Off (min.)

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

Sleep Timer (min.)

Configure the sleep timer.

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

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

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

Quick Resume

Set the quick resume setting.

- **Off:** The fan will start cooling the system after 10 seconds when user turns off the projector.

- **One:** If the projector is accidentally turned off, this feature allows the projector to be instantly powered on again, if selected within a period of 100 seconds.

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

USB Power

Set the USB power settings.

- **Off:** The USB Power function is off.
- **On:** The projector is always powered on by a USB power source.
- **Auto:** The projector is automatically powered on by a USB power source.

Setup security menu

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

- **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

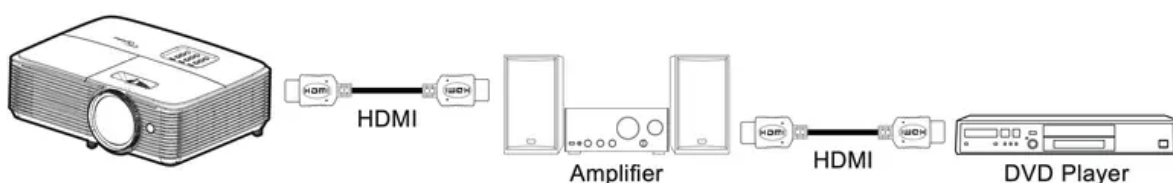
Can be select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.

Change Password

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

Setup HDMI link settings menu

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



HDMI Link

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

Inclusive of TV

Set to "Yes" if you prefer both TV and projector to be automatically turned off at the same time. To prevent both devices from being turned off at the same time, set the setting to "No".

Power On Link

CEC power on command.

- **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.

Setup test pattern menu

Test Pattern

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

Setup remote settings menu

IR Function

Set the IR function setting.

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

User1/ User2/ User3

Assign the default function for User1, User2, or User3 between HDMI 2, Test Pattern, Brightness, Contrast, Sleep Timer, Color Matching, Color Temp, Gamma, Projection, Lamp Settings, Zoom, Freeze, and MHL.

Setup projector ID menu

Projector ID

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

Setup options menu

Language


Select the multilingual OSD menu between English, German, French, Italian, Spanish, Portuguese, Polish, Dutch, Swedish, Norwegian/Danish, Finnish, Greek, traditional Chinese, simplified Chinese, Japanese, Korean, Russian, Hungarian, Czechoslovak, Arabic, Thai, Turkish, Farsi, Vietnamese, Indonesian, Romanian, and Slovakian.

Menu Settings

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

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

Auto Source

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

Input Source

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

Input Name

Use to rename the input function for easier identification. The available options include 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

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.
- **User:** Use the stored picture as the startup screen.

Background Color

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

Note: If the background color is set to “None”, then the background color is black.

Setup reset menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for Setup menu settings.

Info menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Power Mode (Standby)
- Lamp Hours
- Brightness Mode
- FW Version

MAINTENANCE

Replacing the lamp

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

Warning

Lamp Warning
Lamp life exceeded.

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



HIGH TEMPERATURE COOL FOR 30 MINUTES.
HIGH PRESSURE LAMP MAY EXPLODE IF IMPROPERLY HANDED.
REFER TO LAMP REPLACEMENT INSTRUCTIONS. DISCONNECT
POWER BEFORE CHANGING LAMP.

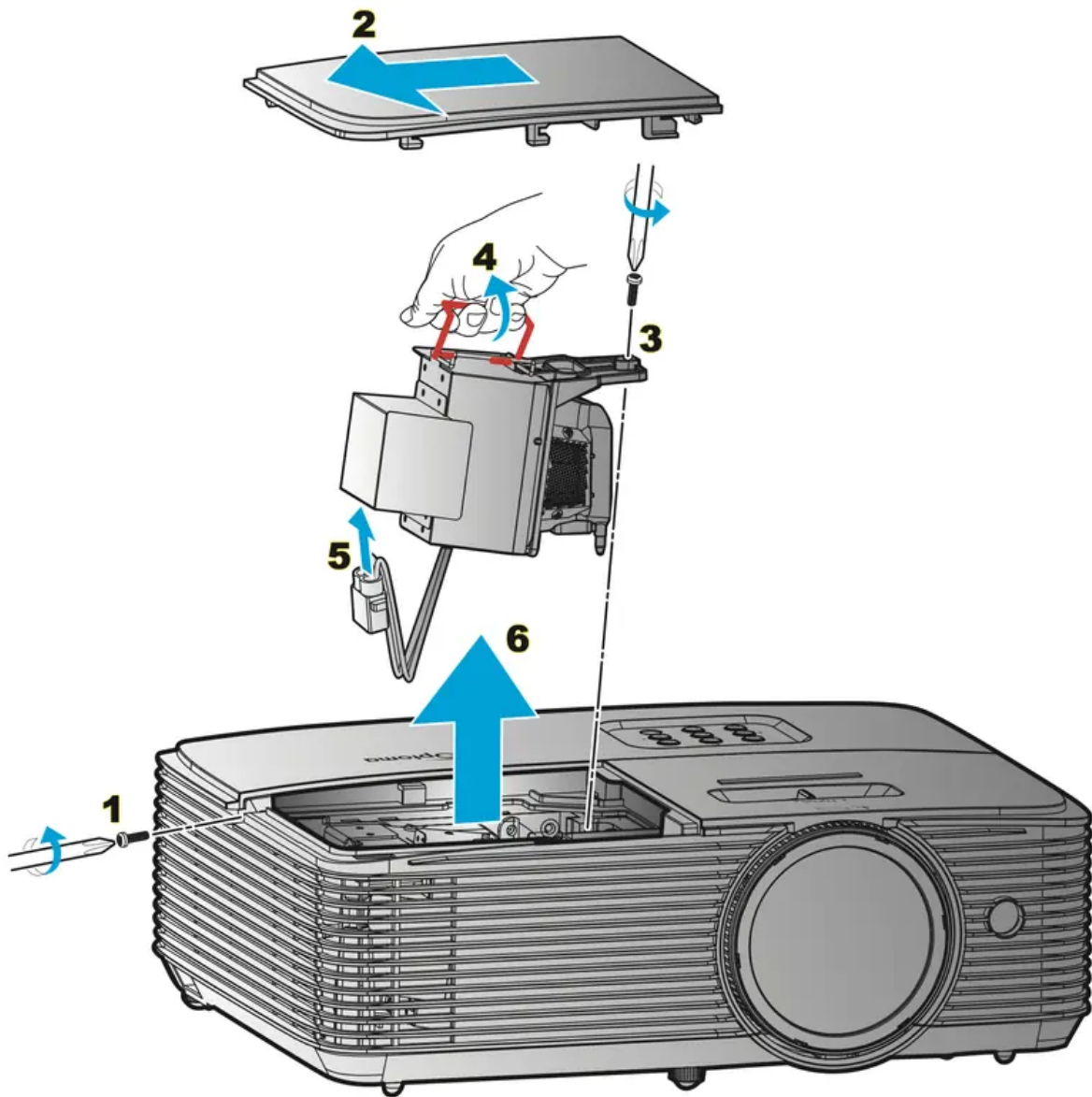
ATTENTION:

A HAUTES TEMPERATURES REFROIDISSEZ PENDANT 30 MINUTES.
Les lampes à haute pression peuvent exploser si elles sont mal utilisées.
Confier l'entretien à une personne qualifiée.
COUPER LE COURANT AVANT DE REMPLACER LES LAMPES.

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.



Procedure:

1. Switch off the power to the projector by pressing the " " button on the remote control or the projector keypad.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Unscrew the screw on the cover. **1**
5. Remove the cover. **2**
6. Unscrew the screw on the lamp module. **3**
7. Lift up the lamp handle. **4**
8. Remove the lamp cord. **5**
9. Remove the lamp module carefully. **6**
10. To replace the lamp module, reverse the previous steps.

11. Turn on the projector and reset the lamp timer.

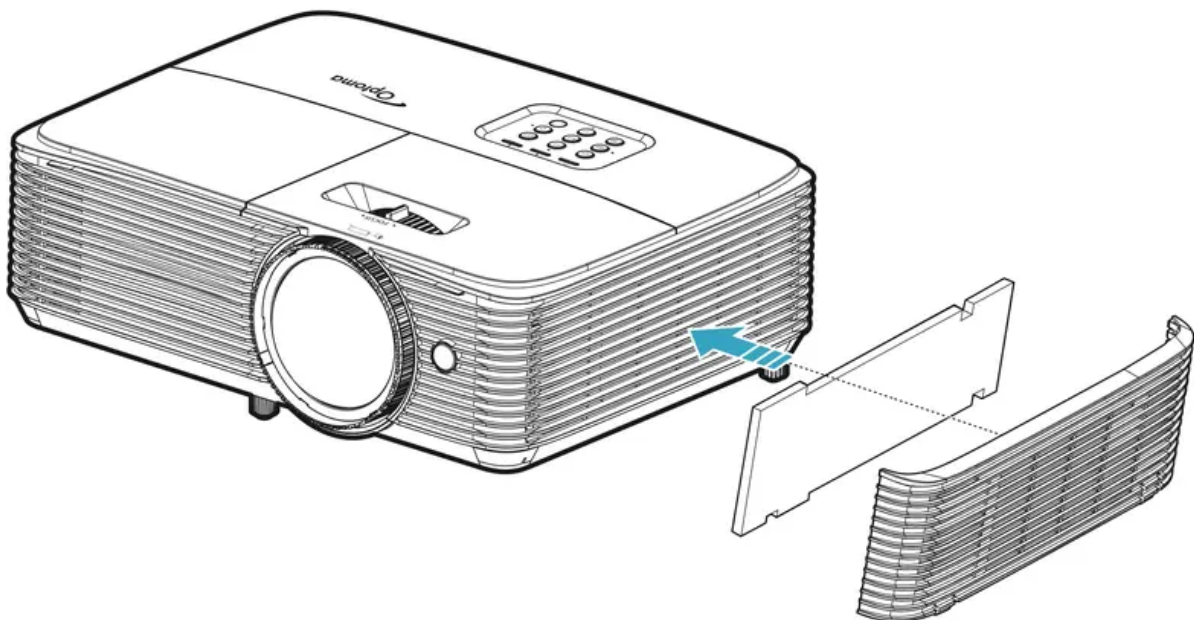
12. Lamp Reset: (i) Press "Menu" → (ii) Select "Setup" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

Note:

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

Installing and cleaning the dust filter

Installing the dust filter




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

Cleaning the dust filter

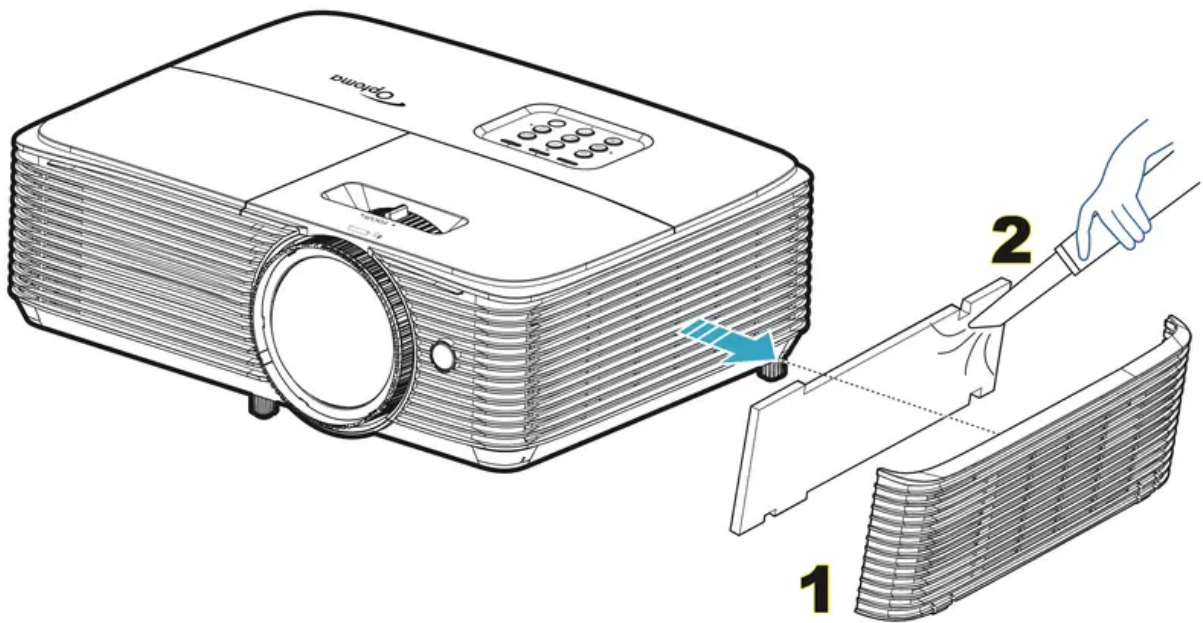
We recommend you to clean the dust filter every three months. Clean it more often if the projector is used in a dusty environment.

Procedure:

1. Switch off the power to the projector by pressing the "  " button on the remote control or the projector keypad.
2. Disconnect the power cord.
3. Remove the dust filter carefully. **1**

4. Clean or replace the dust filter. **2**

5. To install the dust filter, reverse the previous steps.



ADDITIONAL INFORMATION

IR remote control 1 codes



ON

OFF

User1

User2

User3

Brightness

Contrast

Mode



Keystone

Aspect ratio



Mute

DB

Sleep Timer



Volume+

Source










Re-sync
















Menu



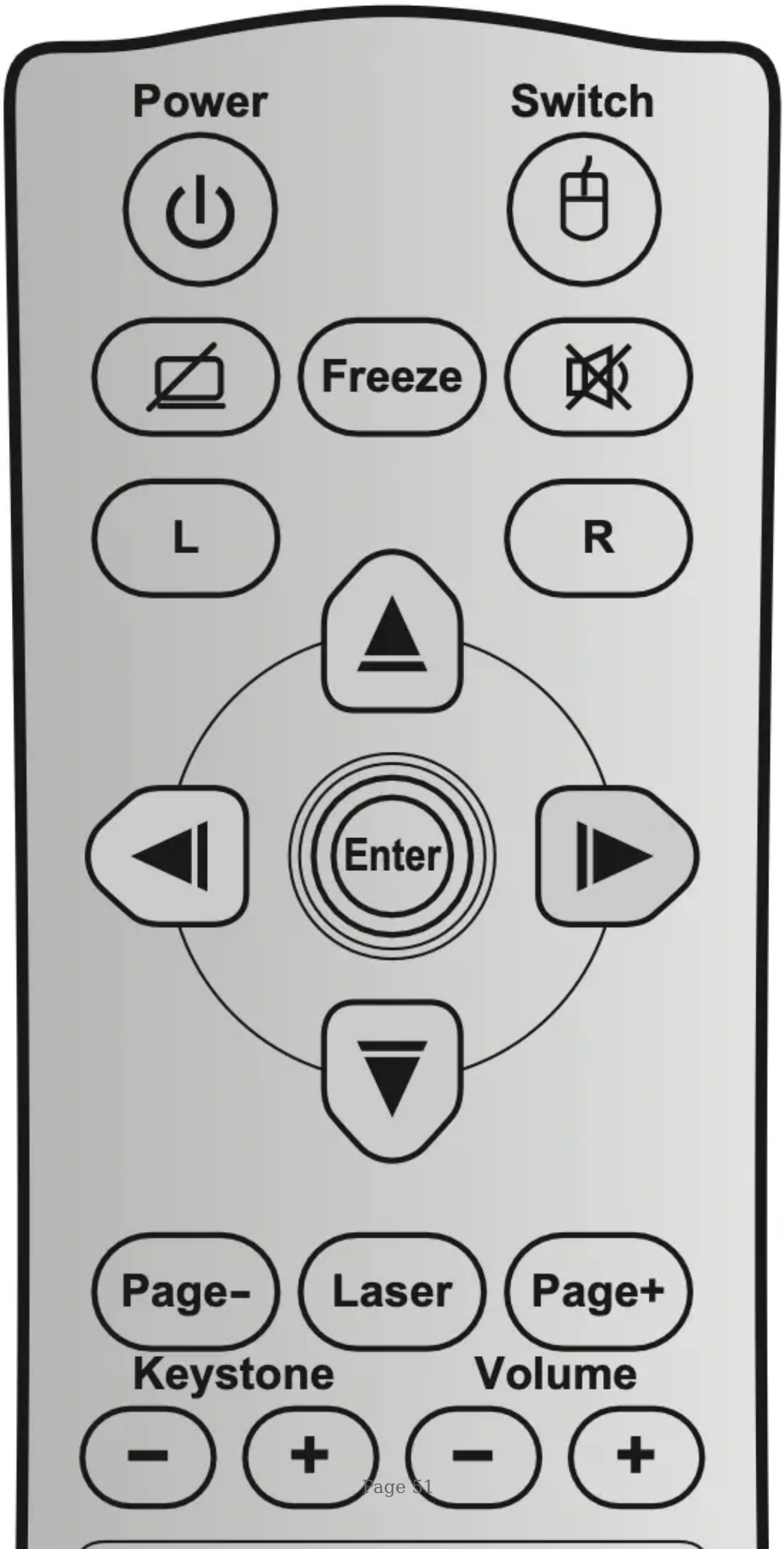
Volume-

Key		Custom code		Data code	Printing-key definition	Description
		Byte 1	Byte 2	Byte 3		
Power on		32	CD	02	ON	Press to turn on the projector.
Power off		32	CD	2E	OFF	Press to turn off the projector.
User 1		32	CD	36	User1	User defined keys. Please see page 38 to setup.
User 2		32	CD	65	User2	
User 3		32	CD	66	User3	
Brightness		32	CD	41	Brightness	Adjust the brightness of the image.
Contrast		32	CD	42	Contrast	Control the degree of difference between the lightest and darkest parts of the picture.
Display mode		32	CD	05	Mode	Select a display mode for optimized settings for different applications. Please see page 31.
Keystone		32	CD	07	Keystone	Adjust image distortion caused by tilting the projector.
Aspect ratio		32	CD	64	Aspect ratio	Press to change aspect ratio of a displayed image.
3D		32	CD	89	3D	Manually select a 3D mode that matches your 3D content.

Key		Custom code		Data code	Printing-key definition	Description
		Byte 1	Byte 2	Byte 3		
Volume +		32	CD	09	Volume +	Adjust to increase volume.
Four direction keys		32	CD	11	▲	Use ▲, ◀, ▶, or ▼ to select items or make adjustments to your selection.
		32	CD	10	◀	
		32	CD	12	▶	
		32	CD	14	▼	
Source		32	CD	18	Source	Press "Source" to select an input signal.
Enter key		32	CD	0F	↵	Confirm your item selection.
Re-sync		32	CD	04	Re-sync	Automatically synchronizes the projector to the input source.
Volume -		32	CD	0C	Volume -	Adjust to decrease volume.
Menu		32	CD	0E	Menu	Display or exit the on-screen display menus for projector.
HDMI 1		32	CD	16	HDMI1	Press "HDMI1" to choose source from HDMI connector.
HDMI 2		32	CD	30	HDMI2	Press "HDMI2" to choose source from HDMI 2 / MHL connector.
VGA 1		32	CD	1B	VGA1	Press "VGA1" to choose source from VGA IN connector.
VGA 2		32	CD	1E	VGA2	No function
Video		32	CD	1C	Video	No function
YPbPr		32	CD	17	YPbPr	No function

IR remote control 2 codes





Power

Switch



Freeze



L

R



Enter



Page-








Laser







Page+

Keystone

Volume



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

Key	Key code	Printing-key definition	Description	
Laser	N/A	Laser	Use as laser pointer.	
Page +	C1	Page+	Press to page up.	
Keystone		85	Keystone+	Press to adjust image distortion caused by tilting the projector.
		84	Keystone-	
Volume		8C	Volume +	Press to adjust to increase / decrease the volume.
		8F	Volume -	
Aspect ratio / 1	 98	 / 1	<ul style="list-style-type: none"> Press to change aspect ratio of a displayed image. Use as numeric keypad number "1". 	
Menu / 2	88	Menu/2	<ul style="list-style-type: none"> Press to display or exit the on-screen display menus for projector. Use as numeric keypad number "2". 	
3D / 3	93	3D/3	<ul style="list-style-type: none"> Press to manually select a 3D mode that matches your 3D content. Use as numeric keypad number "3". 	
HDMI / 4	86	HDMI/4	<ul style="list-style-type: none"> Press to choose HDMI source. Use as numeric keypad number "4". 	
VGA / 5	D0	VGA/5	<ul style="list-style-type: none"> Press to choose VGA source. Use as numeric keypad number "5". 	
Video / 6	D1	Video/6	Use as numeric keypad number "6".	
User1 / 7; User2 / 8; User3 / 9	D2	User 1/7	• User defined keys. Please see page 38 to setup.	
	D3	User 2/8	• Use as numeric keypad numbers "7", "8", and "9" accordingly.	
	D4	User 3/9		
Source	C3	Source	Press to select an input signal.	
Brightness mode / 0	 96	 / 0	<ul style="list-style-type: none"> Press to automatically adjust the picture brightness to give an optimum contrast performance. Use as numeric keypad number "0". 	
Re-sync	C4	Re-Sync	Press to automatically synchronize the projector to the input source.	

TROUBLESHOOTING

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

Image problems

No image appears on-screen

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

Image is out of focus

- Adjust the focus by using the focus lever.
- Make sure the projection screen is between the required distance from the projector. (Please refer to page 46).

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 image size by using the zoom lever (only for standard lens model).
- Move the projector closer to or further from the screen.
- Press "Menu" on the projector panel, go to "Display Aspect Ratio". Try the different settings.

Image has slanted sides:

- If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- Use "Display --> Keystone" from the OSD to make an adjustment.

Image is reversed

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

Blurry double image

- Press "3D" button and switch to "Auto" to avoid normal 2D image is blurry double image.

Two images, side-by-side format

- Press "3D" button and switch to "Side by Side" for input signal is HDMI 1.3 2D 1080i side-by-side.

Image does not display in 3D

- Check if the battery of 3D glasses is drained.
- Check if the 3D glasses is turned on.
- When the input signal is HDMI 1.3 2D (1080i side-by-side half), press "3D" button and switch to "Side by Side".

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 41-42.

Remote control problems

If the remote control does not work

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

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

