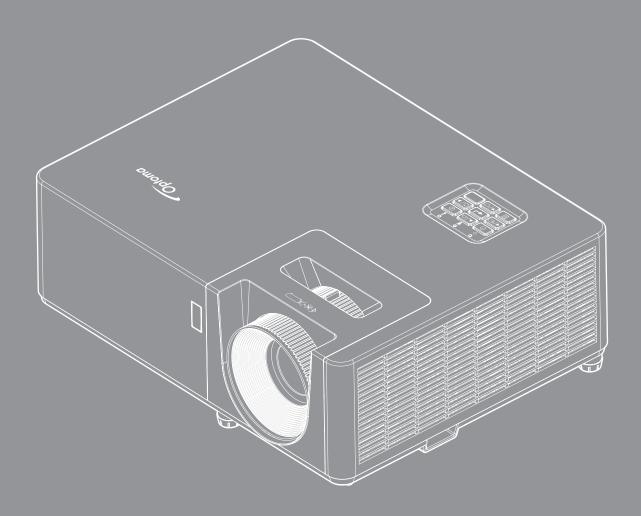


DLP® Projector



User manual







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SAFETY



The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

Important Safety Instruction

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
 - In extremely hot, cold or humid environments.
 - (i) Ensure that the ambient room temperature is within 5° C ~ 40° C
 - (ii) Relative humidity is 10% ~ 85%
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.
- Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside.
- Do not place the projector on an unstable surface. The projector may fall over resulting in injury or the projector may become damaged.
- Do not block the light coming out of the projector lens when in operation. The light will heat the object and may melt, cause burns or start a fire.
- Please do not open or disassemble the projector as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- See projector enclosure for safety related markings.
- The unit should only be repaired by authorized 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.
- This projector will detect the life of the light source itself.

- 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.
- 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.
- 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.

Laser Radiation Safety Information

 This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 of IEC60825-1: 2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471:5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.





"WARNING: MOUNT ABOVE THE HEADS OF CHILDREN."
Additional warning against eye exposure for close exposures less than 1 m.

"AVERTISSEMENT: INSTALLER AU-DESSUS DE LA TÊTE DES ENFANTS."
Avertissement supplémentaire contre l'exposition oculaire pour des expositions à une distance de moins de 1 m.

"警告:安装在高于孩童头顶处"
关于小于1 m近距离眼睛暴露的附加警告
「警告:安装在高於兒童頭部處」
針對 1 m 以下近距離眼睛接觸的額外警告

- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- This projector is class 1 laser product of IEC/EN 60825-1:2014 and risk group 2 with the requirements of IEC 62471-5:2015.
- Additional instructions to supervise children, no staring, and not use optical aids.
- Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
- Notice is given to use caution when using the remote control for starting the projector while in front of the projection lens.
- Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the beam.

- When turning on the projector, make sure no one within projection range is looking at the lens.
- Keep any items (magnifying glass etc.) out of the light path of the projector. The light path being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause an unpredictable outcome such as a fire or injury to the eyes.
- Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.
- Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.

Without following the control, adjustment or operation procedure may cause damage by the exposure of laser radiation

Copyright

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

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Disclaimer

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

Trademark Recognition

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

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

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

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

WEEE



Disposal instructions

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

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.



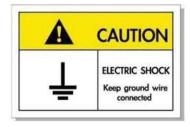
Warning: Do not use a spray containing flammable gases to remove dust or dirt from the lens. This may cause a fire due to excessive heat inside the projector.



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.



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

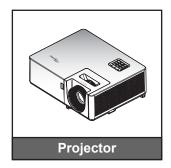
Thank you for purchasing an Optoma laser projector. For full list of features please visit the product page on our website, where you will also find additional information and documentation such as FAQs.

Package Overview

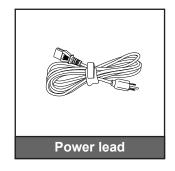
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

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

Standard accessories





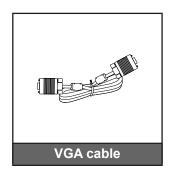




Note:

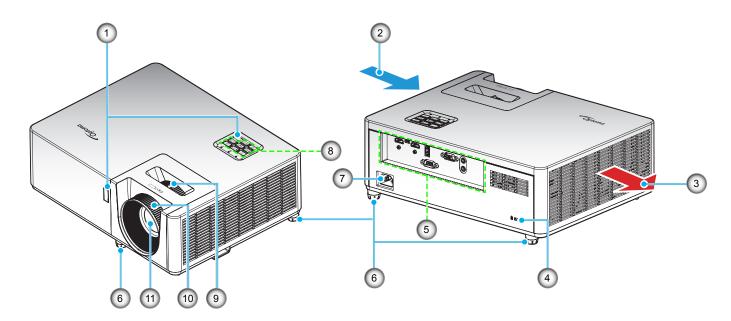
- The remote control is shipped with batteries.
- *For European warranty Information, please visit www.optoma.com.

Optional accessories



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

Product Overview

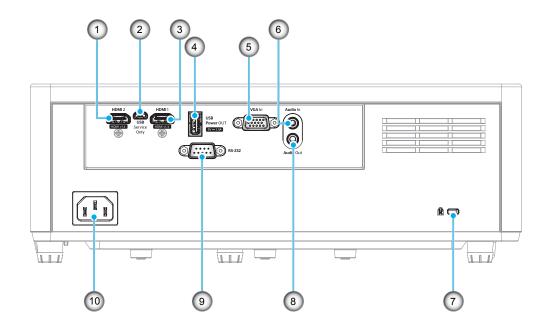


Note:

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

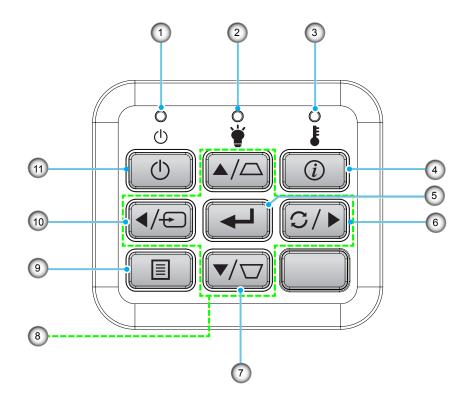
No	Item	No	Item
1.	IR Receivers	7.	Power Socket
2.	Ventilation (inlet)	8.	Keypad
3.	Ventilation (outlet)	9.	Zoom Lever
4.	Kensington™ Lock Port	10.	Focus Ring
5.	Input / Output	11.	Lens
6.	Tilt-Adjustment Feet		

Connections



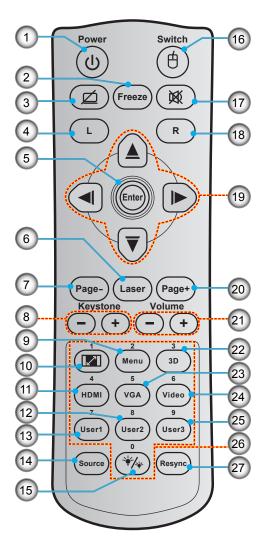
No	Item	No	Item
1.	HDMI 2 Connector	6.	Audio In Connector
2.	Micro USB Connector	7.	Kensington™ Lock Port
3.	HDMI 1 Connector	8.	Audio Out Connector
4.	USB Power Out (5V=1.5A) Connector	9.	RS-232 Connector
5.	VGA In Connector	10.	Power Socket

Keypad



No	Item	No	Item
1.	Power LED	7.	Keystone Correction
2.	Lamp LED	8.	Four directional select keys
3.	Temp LED	9.	Menu
4.	Information	10.	Source
5.	Enter	11.	Power
6.	Re-Sync		

Remote control 1

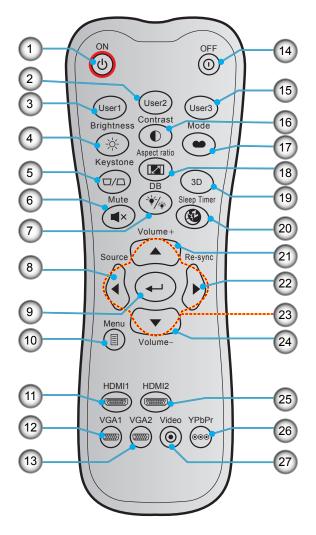


No	Item	No	Item
1.	Power On / Off	15.	Brightness Mode
2.	Freeze	16.	Mouse On / Off
3.	Display Blank / Audio Mute	17.	Mute
4.	Mouse Left Click	18.	Mouse Right Click
5.	Enter	19.	Four Directional Select Keys
6.	Laser	20.	Page +
7.	Page -	21.	Volume - / +
8.	Keystone - / +	22.	3D Menu On / Off
9.	Menu	23.	VGA
10.	Aspect Ratio	24.	Video (not supported)
11.	HDMI	25.	User 3 (Assignable)
12.	User 2 (Assignable)	26.	Numeric Keypad (0-9)
13.	User 1 (Assignable)	27.	Resync
14.	Source		

Note:

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

Remote control 2



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

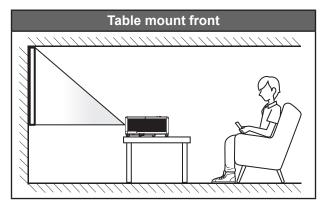
Note:

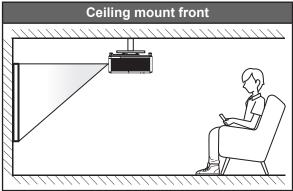
- The actual remote control may vary depending on the region.
- Some keys may have no function for models that do not support these features.

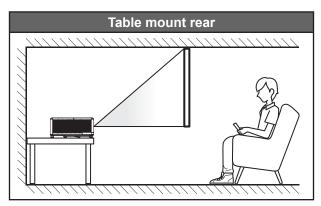
Installing the projector

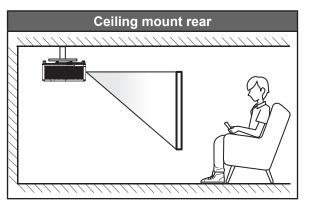
Your projector is designed to be installed in one of four possible positions.

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.









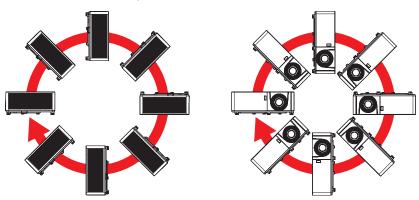
Projector should be placed flat on a surface and 90 degrees / perpendicular to the screen.

- How to determine projector location for a given screen size, please refer to distance table on page 46.
- How to determine screen size for a given distance, please refer to distance table on page 46.

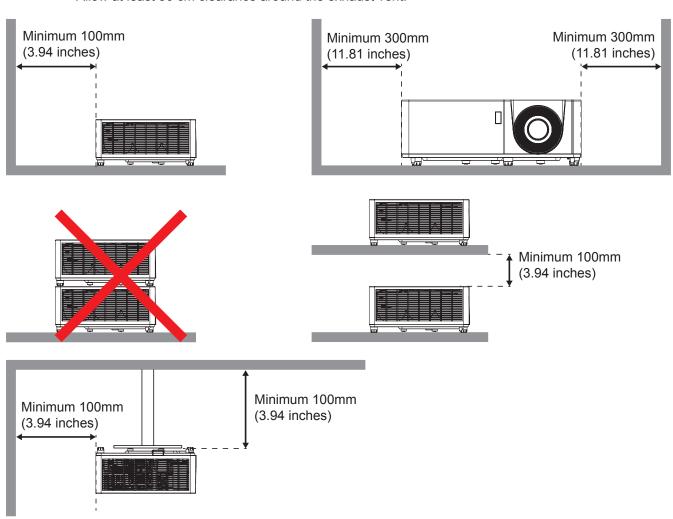
Note: The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.

Projector installation notice

360° free orientation operation

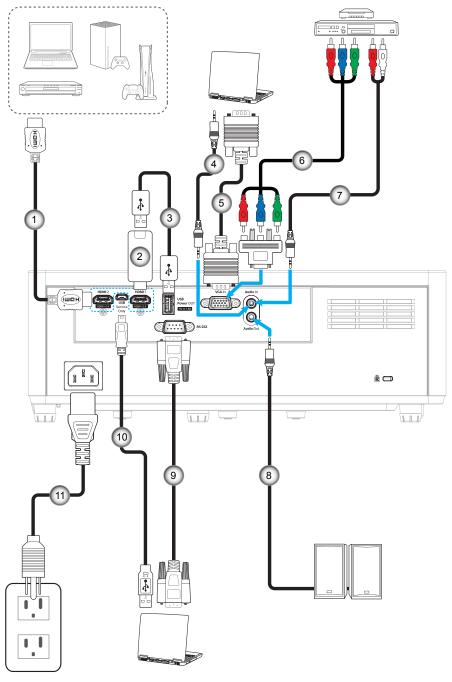


Allow at least 30 cm clearance around the exhaust vent.



- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle
 exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the
 acceptable operation temperature range.

Connecting sources to the projector



No	Item		Item
1.	HDMI Cable	7.	Audio In Cable
2.	HDMI Dongle	8.	Audio Out Cable
3.	USB Power Cable	9.	RS232 Cable
4.	Audio In Cable	10.	USB Cable
5.	VGA In Cable	11.	Power Cord
6.	RCA Component Cable		

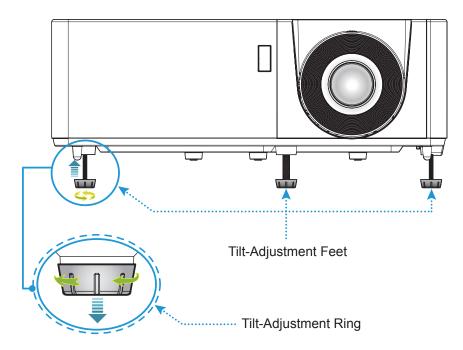
Note: To ensure the best image quality and avoid connection errors, we recommend the use of High Speed or Premium Certified HDMI cables up to 5 meters.

Adjusting the projector image

Image height

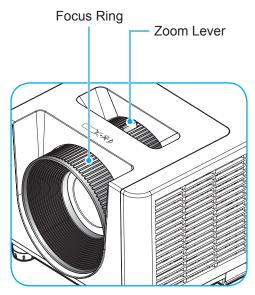
The projector is equipped with elevator feet for adjusting the image height.

- 1. Locate the adjustable foot you wish to adjust on the underside of the projector.
- 2. Rotate the adjustable foot clockwise or counterclockwise to raise or lower the projector.



Zoom and focus

- To adjust the image size, turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size.
- To adjust the focus, turn the focus ring clockwise or counterclockwise until the image is sharp and legible.

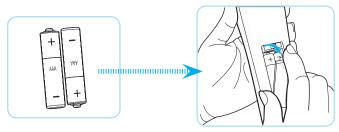


Remote setup

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

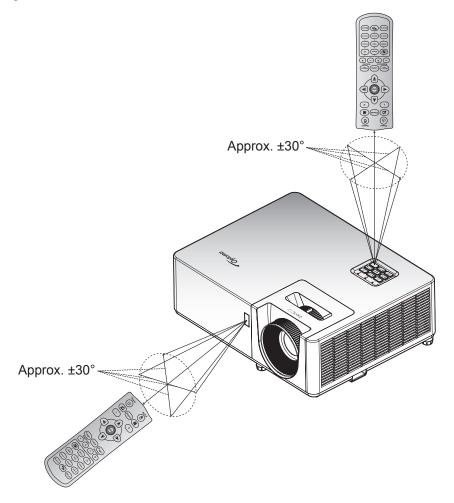
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- 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.

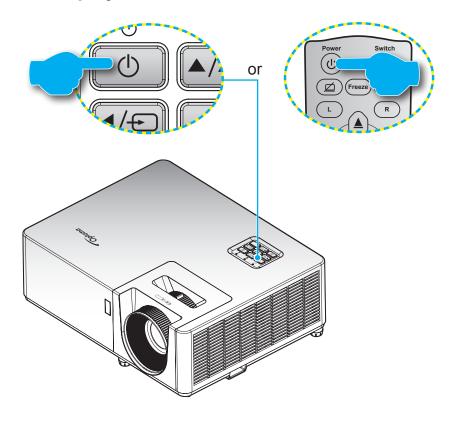
Effective range

Infra-Red (IR) remote control sensor is located on the top and front sides of the projector. Ensure to hold the remote control at an angle within 60 degrees 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 12 meters (39.4 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 m 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 5 m from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.



Powering on / off the projector



Powering on

- 1. Securely connect the power lead and signal/source cable. When connected, the Power LED will turn red.
- 2. Turn on the projector by pressing the \cup button on the projector keypad or remote control.
- 3. A start up screen will display in approximately 10 seconds and the Power 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 \circlearrowleft button on the projector keypad or remote control.
- 2. The following message will be displayed:

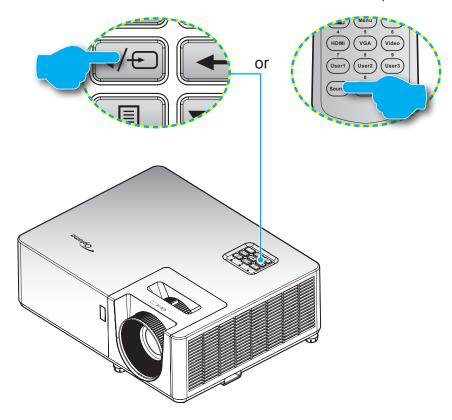


- 3. Press the U button again to confirm, otherwise the message will disappear after 15 seconds. When you press the (1) button for the second time, the projector will shut down.
- 4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the Power LED will flash blue. When the Power 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 \cup 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

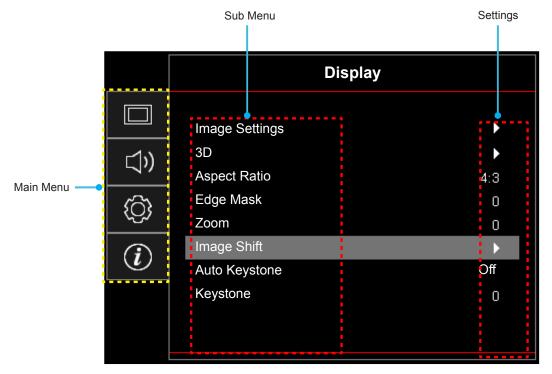
Turn on the connected source that you want to display on the screen, such as computer, notebook, video player, etc. The projector will automatically detect the source. If multiple sources are connected, press the 🖘 button on the projector keypad or the **Source** button on the remote control to select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

- To open the OSD menu, press the 🗏 button on the projector keypad or the **Menu** button on the remote 1. control.
- When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection 2. on a particular page, press the 🗝 button on the projector keypad or the Enter button on the remote control to enter sub menu.
- 3. Use **♦** keys to select the desired item in the sub menu and then press the **←** or **Enter** button 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 press the ← or Enter button to confirm, and the screen will return to the main menu.
- To exit, press the 🗏 or Menu button again. The OSD menu will close and the projector will 6. automatically save the new settings.



OSD Menu tree

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

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Presentation
					Bright
					Cinema
		Display Made			Game
		Display Mode			sRGB
					DICOM SIM.
					User
					3D
					Off [Default]
					Blackboard
					Light Yellow
		Wall Color			Light Green
					Light Blue
					Pink
					Gray
		Brightness			-50 ~ 50
		Contrast			-50 ~ 50
Dioploy	Imaga Cattings	Sharpness			1 ~ 15
Display	Image Settings	Color			-50 ~ 50
		Tint			-50 ~ 50
			Film		
			Video		
			Graphics		
			Standard(2.2)		
			1.8		
		Gamma	2.0		
			2.4		
			2.6		
			3D		
			Blackboard		
			DICOM SIM.		
			BrilliantColor™		1 ~ 10
					Warm
		Color Settings	Color		Standard
			Temperature		Cool
					Cold

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Red [Default]
					Green
					Blue
				Color	Cyan
					Yellow
					Magenta
			Color Matching		White(*)
			Hue / R(*)	-50 ~ 50 [Default: 0]	
				Saturation / G(*)	-50 ~ 50 [Default: 0]
				Gain / B(*)	-50 ~ 50 [Default: 0]
					Cancel [Default]
				Reset	Yes
				Exit	
				Red Gain	-50 ~ 50
		Color Settings		Green Gain	-50 ~ 50
		J		Blue Gain	-50 ~ 50
				Red Bias	-50 ~ 50
			RGB Gain/Bias	Green Bias	-50 ~ 50
				Blue Bias	-50 ~ 50
					Cancel [Default]
				Reset	Yes
				Exit	
Display	Image Settings				Auto [Default]
			Color Space [Not		RGB
			HDMI Input]		YUV
					Auto [Default]
			Color Space		RGB(0~255)
			[HDMI Input]		RGB(16~235)
					YUV
					Off
			Automatic		On [Default]
			Frequency		-10 ~ 10 (depends on signal) [Default: 0]
		Signal	Phase		0~31 (depends on signal) [Default: 0]
			H. Position		-5 ~ 5 (depends on signal) [Default: 0]
	Brightness Mode		V. Position		-5 ~ 5 (depends on signal) [Default: 0]
					DynamicBlack
					Eco.
				Constant Power (Power = 100%/ 95%/ 90%/ 85%/ 80%/ 75%/ 70%/ 65%/ 60%/ 55%/ 50%)	
					Constant Luminance (Power =85%/80%/75%/70%)

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
	Image Settings	Reset			
		3D Mode			Off
		3D Mode			On [Default]
		3D Tech			DLP-Link [Default]
		3D Tech			3D Sync
					3D [Default]
		3D → 2D			L
					R
	3D				Auto [Default]
	30				SBS
		3D Format			Top and Bottom
					Frame Sequential
					Frame Packing
Disales		3D Sync Invert			On
Display					Off [Default]
					Cancel
					Yes
					4:3
	Aspect Ratio				16:9
	Aspect Ratio				Native
					Auto
	Edge Mask				0 ~ 10 [Default: 0]
	Zoom				-5 ~ 25 [Default: 0]
	Image Shift	н□			-100 ~ 100 [Default: 0]
	Image Shiit	V			-100 ~ 100 [Default: 0]
	Auto Kayatana				Off
	Auto Keystone				On [Default]
	Keystone				-40 ~ 40 [Default: 0]
	Mute				Off [Default]
Audio					On
Volume				0 ~ 10 [Default: 5]	

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Front [Default]
	Draination				Rear
	Projection				Ceiling-top
					Rear-top
	o =				16:9
	Screen Type				4:3 [Default]
					Off [Default]
		Direct Power On			On
					Off [Default]
		Signal Power On			On
		Auto Power Off (min.)			0 ~ 180 (5 min increments) [Default: 20]
	Power Settings	Class Times			0 ~ 990 (30 min increments) [Default: 0]
		Sleep Timer (min.)			No [Default]
			Always On		Yes
		Power Mode			Active
		(Standby)			Eco [Default]
		USB Power (Standby)			Off [Default]
					On
					Off
Setup		Security			On
		Security Timer	Month		- Cii
	Security		Day		
			Hour		
		Change Password			[Default: 1234]
					Off [Default]
		HDMI Link			On
					No [Default]
		Inclusive of TV			Yes
	HDMI Link				Mutual [Default]
	Settings	Power On Link			PJ → Device
					Device → PJ
		Power Off Link			Off [Default]
		Power Off LINK			On
					Green Grid
					Magenta Grid
	Test Pattern				White Grid
					White
					Off
	Remote				On [Default]
	Settings [depends on remote]	IR Function			Off

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Test Pattern
					Brightness
					Contrast
		F1			Sleep Timer [Default]
					Color Matching
					Color Temp
					Gamma
					Projection
		F2			Test Pattern
					Brightness
	Domete				Contrast
	Remote Settings				Sleep Timer
	[depends on				Color Matching [Default]
	remote]				Color Temp
					Gamma
					Projection
					Test Pattern [Default]
					Brightness
		F3			Contrast
					Sleep Timer
Setup					Color Matching
					Color Temp
					Gamma
					Projection
	Projector ID				00 ~ 99
		Language			English [Default]
					Deutsch
	Options				Français
					Italiano
					Español
					Português
					Polski
					Nederlands
					Svenska
					Norsk/Dansk
					Suomi
					ελληνικά
					繁體中文
					簡体中文
					_
					日本語
					한국어

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Русский
					Magyar
		Language			Čeština
					عـربي
					ไทย
					Türkçe
					فارســــى
					Tiếng Việt
					Bahasa Indonesia
					Română
					Slovenčina
					Top left
					Top right
			Menu Location		Center [Default]
		Menu Settings			Bottom left
					Bottom right
			Menu Timer		Off
					5sec
Setup	Options				10sec [Default]
		Auto Source			Off [Default]
		Auto Source			On
					HDMI1
		Input Source			HDMI2
					VGA
		Input Name	HDMI1		Default [Default]
			TIDIVITI		Custom
			HDMI2		Default [Default]
			TIDIVIIZ		Custom
			VGA		Default [Default]
			VOA		Custom
		High Altitude			Off [Default]
		nigri Ailitude			On
		Display Mode			Off [Default]
		Lock			On
		Keypad Lock			Off [Default]
		Neypau Luck			On
		Information Hide			Off [Default]
					On

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
	Options				Default [Default]
		Logo			Neutral
					User
		Background Color			None
					Blue [Default]
					Red
Setup					Green
					Gray
					Logo
	Reset	Reset OSD			Cancel [Default]
					Yes
		Reset to Default			Cancel [Default]
					Yes
	Regulatory				
	Serial Number				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
Info	Power Mode (Standby)				
	Light Source Hours				0 hr
	Projector ID				00 ~ 99
	Brightness Mode				
	FW Version	System			
		MCU			

Display menu

Display image settings menu

Display Mode

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

- Presentation: This mode is suitable for most presenting needs for business and education environments.
- Bright: This mode is suitable for environments where extra-high brightness is required, such as using the projector in well-lit rooms.
- Cinema: Provides the best balance of detail and colors for watching movies.
- **Game**: Optimises your projector for maximum contrast and vivid colours allowing you to see shadow detail when playing video games.
- sRGB: This mode reproduces the most accurate colours.
- **DICOM SIM.**: This mode has been created for viewing greyscale images, perfect for viewing X-rays and scans during medical training*.

Note: *This projector is not suitable for use in medical diagnosis.

- User: Memorizes user defined setting, tailor your own display mode settings.
- 3D: Optimized settings for watching 3D content.

Note: To experience the 3D effect, you will need to have compatible DLP Link 3D glasses. See 3D section for more information.

Wall Color

Designed to adjust the colors of the projected image when projecting on to a wall without a screen. Each mode has been fine-tuned by our expert colour team to ensure superior color performance.

There are several predefined modes that you can choose from to suit the colour of your wall. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

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

Brightness

Adjust the brightness of the image.

Contrast

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

Sharpness

Adjust the sharpness of the image.

Color

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

Tint

Adjust the color balance of red and green.

Gamma

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

- Film: For home theater.
- Video: For video or TV source.
- Graphics: For PC / Photo source.
- Standard(2.2): For standardized setting.
- 1.8 / 2.0 / 2.4 / 2.6: For specific PC / Photo source.

Note:

- These options are only available if the 3D mode function is disabled, the **Wall Color** setting is not set to **Blackboard**, and the **Display Mode** setting is not set to **DICOM SIM.**.
- In 3D mode, user can only select 3D for Gamma setting.
- If the Wall Color setting is set to Blackboard, user can only select Blackboard for Gamma setting.
- If the Display Mode setting is set to DICOM SIM., user can only select DICOM SIM. 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 Warm, Standard, Cool, or Cold.
- Color Matching: Select the following options:
 - Color: Adjust the red, green, black, cyan, yellow, magenta, and white level of the image.
 - Hue / R(red)*: Adjust the color balance of red and green.
 - Note: *If the Color setting is set to White, you can adjust the red color setting.
 - Saturation / G(green)*: Adjust a video image from black and white to fully saturated color.
 - Note: *If the Color setting is set to White, you can adjust the green color setting.
 - Gain / B(blue)*: Adjust the image brightness.
 - Note: *If the Color setting is set to White, you can adjust the blue color setting.
 - 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.

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

Brightness Mode

Adjust the brightness mode settings.

- DynamicBlack: Use to automatically adjust the picture brightness in order to give optimum contrast performance.
- Eco.: Choose "Eco." to dim the projector laser diode which will lower power consumption and extend the laser diode life.
- **Constant Power**: Choose the power percentage for brightness mode.
- Constant Luminance: Constant Luminance varies the strength of LD luminance such that the brightness maintains consistent with time.

Reset

Return the factory default settings for color settings.

Display 3D menu

Note:

- This projector is a 3D ready projector with DLP-Link 3D solution.
- Please make sure your 3D glasses are use for DLP-Link 3D before enjoy your video.
- This projector supports frame sequential (page-flip) 3D via HDMI1/HDMI2/VGA ports.
- To enable 3D mode, the input frame rate should be set to 60Hz only, lower or higher frame rate is not supported.
- To reach the best performance, resolution 1920x1080 is recommended, please be noted that 4K (3840x2160) resolution is not supported in 3D mode.

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.

$\underline{3D \to 2D}$

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

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

3D Format

Use this option to select the appropriate 3D format content.

- Auto: When a 3D identification signal is detected, the 3D format is selected automatically.
- SBS: Display 3D signal in "Side-by-Side" format.
- Top and Bottom: Display 3D signal in "Top and Bottom" format.
- Frame Sequential: Display 3D signal in "Frame Sequential" format.
- 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.
- Native: This format displays the original image without any scaling.
- Auto: Automatically selects the appropriate display format.

Note:

- To use the superwide format, do the following:
 - Set the screen aspect ratio to 2.0:1.
 - b) Select "Superwide" format.
 - Align the projector image correctly on the screen. c)

Input lag: HDMI 1/2 latency = 32.9 ms @1080p@60Hz

SVGA/XGA scaling table:

Source	480i/p	576i/p	1080i/p	720p	
4x3	Scale to 1024x768.				
16x9	Scale to 1024x576.				
Native mode	No scaling will be made; the resolution is dependent on which input source and is then displayed.				
Auto	-If source is 4:3, auto resize to 1024x768.				
	-If source is 16:9, auto resize to 1024x576.				
	-If source is 15:9, auto resize to 1024x614.				
-If source is 16:10, auto resize to 1024x640.					

Auto	Input re	solution	Auto/Scale		
Auto	H-resolution	V-resolution	1024	768	
	640	480	1024	768	
4:3	800	600	1024	768	
4.3	1024	768	1024	768	
	1600	1200	1024	768	
	1280	720	1024	576	
Wide Laptop	1280	768	1024	614	
	1280	800	1024	640	
SDTV	720	576	1024	576	
	720	480	1024	576	
HDTV	1280	720	1024	576	
	1920	1080	1024	576	

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. Digital Zoom is not the same as optical zoom and an result in degradation of image quality.

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

Display image shift menu

Image Shift

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

Display auto keystone menu

Auto Keystone

Automatically adjust image distortion caused by tilting the projector.

Display keystone menu

Keystone

Adjust image distortion caused by tilting the projector (±40 degrees).

Audio menu

Audio mute menu

Mute

Use this option to temporarily turn off the sound.

- On: Choose "On" to turn mute on.
- Off: Choose "Off" to turn mute off.

Note: "Mute" function affects both internal and external speaker volume.

Audio volume menu

Volume

Adjust the volume level.

Setup menu

Setup projection menu

Projection

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

Setup screen type menu

Screen Type

Choose the screen type from 4:3 and 16:9.

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.
- This function is applicable with VGA and HDMI sources.

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.

USB Power (Standby)

Enable or disable the USB power function when the projector is in standby mode.

Setup security menu

Security

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

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

Note: The default password is 1234.

Security Timer

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

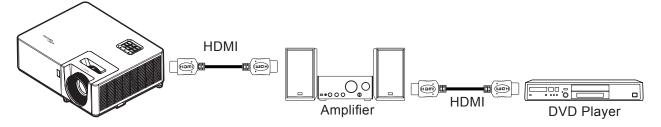
Change Password

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

Setup HDMI link settings menu

Note:

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



HDMI Link

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

Inclusive of TV

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

Power On Link

CEC power on command.

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

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

F1/F2/F3

Assign the default function for F1, F2, or F3 between Test Pattern, Brightness, Contrast, Sleep Timer, Color Matching, Color Temp, Gamma, or Projection.

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.

Note: For a full list of RS232 commands, please refer to the RS232 user manual on our website.

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

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

Input Source

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

Input Name

Use to rename the input function for easier identification. The available options include HDMI1, HDMI2, 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: Logo capture tool required.

Note: Please visit the website to download the logo capture tool. The supported file format: png/bmp/jpg.

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 OSD menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for all settings.

Info menu

Info menu

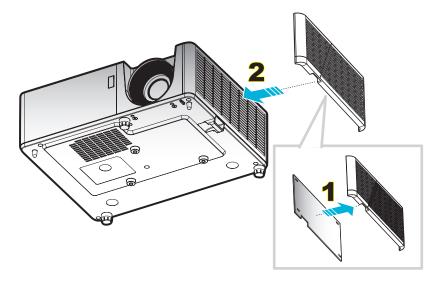
View the projector information as listed below:

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

MAINTENANCE

Installing and cleaning the dust filter

Installing the dust filter



Note:

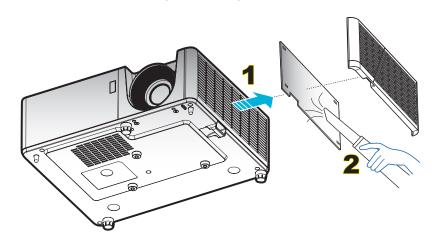
- Dust filters are only supplied with some models in select region with excessive dust.
- Not available in North America or Europe.
- You may be available to purchase this in select regions. Please visit our website to see more details regarding the accessories included.

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 \cup button on the projector keypad or 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

B0 / Established Timing	B0 / Standard Timing	B0 /Detail Timing	B1 /Video Mode	B1 /Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	1024 x 768 @ 60Hz	640 x 480p @ 60Hz 4:3	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz		720(1440) x 480i @ 60Hz 16:9	1280 x 800 @120Hz(RB)
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz		720 x 480p @ 60Hz 4:3	1900 x 1200 @ 60Hz(RB)
640 x 480 @ 72Hz	1600 x 1200 @ 60Hz		720 x 480p @ 60Hz 16:9	
640 x 480 @ 75Hz	640 x 480 @ 120Hz		720(1440) x 576i @ 50Hz 16:9	
800 x 600 @ 56Hz	800 x 600 @ 120Hz		720 x 576p @ 50Hz 4:3	
800 x 600 @ 60Hz	1024 x 768 @ 120Hz		720 x 576p @ 50Hz 16:9	
800 x 600 @ 72Hz	1280 x 800 @ 120Hz		1280 x 720p @ 60Hz 16:9	
800 x 600 @ 75Hz			1280 x 720p @ 50Hz 16:9	
832 x 624 @ 75Hz			1920 x 1080i @ 60Hz 16:9	
1024 x 768 @ 60Hz			1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 70Hz			1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 75Hz			1920 x 1080p @ 50Hz 16:9	
1280 x 1024 @ 75Hz			1920 x 1080p @ 24Hz 16:9	
1152 x 870 @ 75Hz				

Analog

B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	1024 x 768 @ 60Hz	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz		1280 x 800 @120Hz(RB)
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz		1900 x 1200 @ 60Hz(RB)
640 x 480 @ 72Hz	1600 x 1200 @ 60Hz		
640 x 480 @ 75Hz	1280 x 960 @ 60Hz		
800 x 600 @ 56Hz	640 x 480 @ 120Hz		
800 x 600 @ 60Hz	800 x 600 @ 120Hz		
800 x 600 @ 72Hz	1024 x 768 @ 120Hz		
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			

True 3D video compatibility

		Input timing					
		1280 x 720P @ 50Hz	Top-and-Bottom				
		1280 x 720P @ 60Hz	Top-and-Bottom				
		1280 x 720P @ 50Hz	Frame packing				
	HDMI 1.4a 3D Input	1280 x 720P @ 60Hz	Frame packing				
	ob input	1920 x 1080i @ 50Hz	Side-by-Side(Half)				
		1920 x 1080i @ 60Hz	Side-by-Side(Half)				
		1920 x 1080P @ 24Hz	Top-and-Bottom				
		1920 x 1080P @ 24Hz	Frame packing				
		1920 x 1080i @ 50Hz		SBS mode is on			
		1920 x 1080i @ 60Hz					
Input		1280 x 720P @ 50Hz					
resolutions		1280 x 720P @ 60Hz	Side-by-Side(Half)				
		800 x 600 @ 60Hz					
		1024 x 768 @ 60Hz					
		1280 x 800 @ 60Hz					
	HDMI 1.3	1920 x 1080i @ 50Hz					
		1920 x 1080i @ 60Hz					
		1280 x 720P @ 50Hz					
		1280 x 720P @ 60Hz	Top-and-Bottom	TAB mode is on			
		800 x 600 @ 60Hz					
		1024 x 768 @ 60Hz					
		1280 x 800 @ 60Hz					
		480i	HQFS	3D format is Frame sequential			

Note:

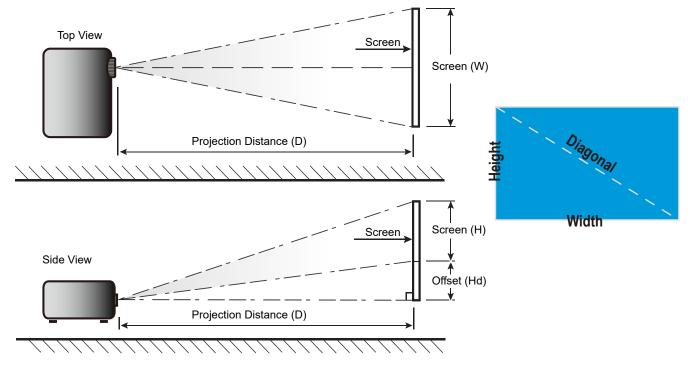
- If 3D input is 1080p@24Hz, the DMD should replay with integral multiple with 3D mode.
- Support NVIDIA 3DTV Play if there is no patent fee from Optoma.
- 1080i@25Hz and 720p@50Hz will run in 100Hz; 1080p@24Hz will run in 144Hz; other 3D timing will run in 120Hz.

Image size and projection distance

Diagonal		Screen Siz	ze (W x H)		Projection Distance (D)			Offset (Hd)		
Length Size of (16:9)	(r	n)	(in	ch)	(n	n)	(fe	et)	Olise	t (Hu)
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)
25.4	0.52	0.39	20.32	15.24	1.00	1.11	3.28	3.64	0.06	2.36
30	0.61	0.46	24.00	18.00	1.18	1.32	NA	4.33	0.07	2.76
40	0.81	0.61	32.00	24.00	1.58	1.76	5.18	5.77	0.09	3.54
50	1.02	0.76	40.00	30.00	1.97	2.19	6.46	7.19	0.12	4.72
60	1.22	0.91	48.00	36.00	2.37	2.63	7.78	8.63	0.14	5.51
70	1.42	1.07	56.00	42.00	2.76	3.07	9.06	10.07	0.16	6.30
80	1.63	1.22	64.00	48.00	3.15	3.51	10.33	11.52	0.18	7.09
90	1.83	1.37	72.00	54.00	3.55	3.95	11.65	12.96	0.21	8.27
100	2.03	1.52	80.00	60.00	3.94	4.39	12.93	14.40	0.23	9.06
120	2.44	1.83	96.00	72.00	4.73	5.27	15.52	17.29	0.27	10.63
150	3.05	2.29	120.00	90.00	5.91	6.58	19.39	21.59	0.34	13.39
180	3.66	2.74	144.00	108.00	7.10	7.90	23.29	25.92	0.41	16.14
200	4.06	3.05	160.00	120.00	7.88	8.78	25.85	28.81	0.46	18.11
250	5.08	3.81	200.00	150.00	9.86	10.97	32.35	35.99	0.57	22.44
300	6.10	4.57	240.00	180.00	11.83	NA	38.81	NA	0.69	27.17

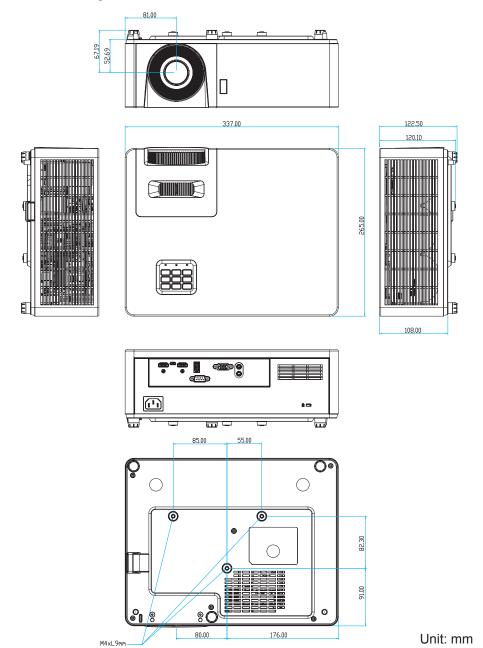
Note:

Zoom Ratio: 1.1x.



Projector dimensions and ceiling mount installation

- 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*10
- 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.

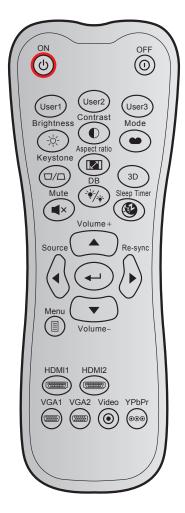
IR remote control 1 codes



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

Key	Key Key Printing-key code definition			Description
Laser	Laser N/A Las		Laser	Use as laser pointer.
Page +		C1	Page+	Press to page up.
Keystone	-+	85	Keystone+	Press to adjust image distortion caused by tilting the
Reyslone		84	Keystone-	projector.
Volume	- +	8C	Volume +	Press to adjust to increase / decrease the volume.
volume		8F	Volume -	ress to adjust to increase r decrease the volume.
Aspect ratio / 1		98	[2] / 1	Press to change aspect ratio of a displayed image.
7 topeot ratio 7 1	12 1	00	1-1/	Use as numeric keypad number "1".
				Press to display or exit the on-screen display menus
Menu / 2		88	Menu/2	for projector.
				Use as numeric keypad number "2". Proce to recover the color of 2P models that recover to the color of
3D / 3		93	3 3D/3	 Press to manually select a 3D mode that matches your 3D content.
0070			OBIO	 Use as numeric keypad number "3".
LIBAULL				Press to choose HDMI source.
HDMI / 4		86	HDMI/4	• Use as numeric keypad number "4".
VOAIF		DO	D0 \/CA/5	Press to choose VGA source.
VGA / 5		D0	VGA/5	Use as numeric keypad number "5".
Video / 6		D1	Video/6	Use as numeric keypad number "6".
4/7		D2	User 1/7	• User defined keys. Please see page 42 to setup.
User1 / 7; User2 / User3 / 9	8;	D3	User 2/8	• Use as numeric keypad numbers "7", "8", and "9"
0001070		D4	User 3/9	accordingly.
Source		C3	Source	Press to select an input signal.
Brightness	N/c e		N/c a	Press to automatically adjust the picture brightness
mode / 0	*/*	96	*/* / 0	to give an optimum contrast performance. • Use as numeric keypad number "0"
				ose do nameno keypad namber o .
Re-sync		C4	Re-Sync	Press to automatically synchronize the projector to the input source.

IR remote control 2 codes



Key	Key		Custom code Data code		Printing- key	Description
		Byte 1	Byte 2	Byte 3	definition	
Power on	0	32	CD	02	ON	Press to turn on the projector.
Power off	(1)	32	CD	2E	OFF	Press to turn off the projector.
User 1		32	CD	36	User1	
User 2		32	CD	65	User2	User defined keys. Please see page 42 to setup.
User 3		32	CD	66	User3	42 to 30tap.
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 <i>32</i> .
Keystone		32	CD	07	Keystone	Adjust image distortion caused by tilting the projector.

Key		Custor	n code	Data code	Printing- key	Description
		Byte 1	Byte 2	Byte 3	definition	
Aspect ratio	1/1	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.
Volume +		32	CD	09	Volume +	Adjust to increase volume.
		32	CD	11	A	
Four direction		32	CD	10	◀	Use ▲, ◀, ▶, or ▼ to select items or
keys		32	CD	12	>	make adjustments to your selection.
		32	CD	14	▼	
Source	\bigcirc	32	CD	18	Source	Press "Source" to select an input signal.
Enter key	←	32	CD	0F	←	Confirm your item selection.
Re-sync	(b)	32	CD	04	Re-sync	Automatically synchronizes the projector to the input source.
Volume -	$\overline{\bullet}$	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	(v:::::::)	32	CD	16	HDMI1	Press "HDMI1" to choose source from HDMI 1 connector.
HDMI 2	(**************************************	32	CD	30	HDMI2	Press "HDMI2" to choose source from HDMI 2 connector.
VGA 1	000000	32	CD	1B	VGA1	Press "VGA1" to choose source from VGA In connector.
VGA 2	000000	32	CD	1E	VGA2	No function
Video	•	32	CD	1C	Video	No function
YPbPr	000	32	CD	17	YPbPr	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

- 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.
 - Ensure that the "Mute" feature is not turned on.
- Image is out of focus
 - Turn the focus ring clockwise or counterclockwise until the image is sharp and legible. (Please see page 18).
 - 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.
 - Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.
- Image is too small or too large
 - Turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size. (Please see page 18).
 - 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.

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.

Remote control problems

- ? If the remote control does not work
 - Check the operating angle of the remote control is pointed within ±30° to the IR receiver on the projector.
 - Make sure there are not any obstructions between the remote control and the projector. Move to within 12 m (39.4 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 "Power" indicator flashes red.
- "Temp" LED indicator is lit red and if "Power" 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 "Power" 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

Magaga	Powe	r 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.		
Quick Resume(100 secs)		Flashing (0.25 sec off / 0.25 sec on)		
Error (Lamp failure)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over temp.)	Flashing		Steady light	

Power off:



Temperature warning:



Specifications

Item	Description					
Technology	Texas Instrument DMD, 12 degree 0.55"(dimension)/resolution DMD X1, S450 (Packing typing), Darkchip(DC) 3					
Output resolution	XGA 1024x768					
Maximum input resolution	Full HD 1920 x 1080 @60Hz					
Lens	 Throw ratio: 1.94~2.16 (60"@2.37m) F-stop: 2.41-2.53 Focal length: 21.85~ 24.01mm Zoom range: 1.1x 					
Offset	115%± 5%, fixed					
Image size	25.4"~300", optimized@60"					
Projection distance	1.0m to 11.8m (optimized@2.37m)					
I/Os	 HDMI 1.4b (x2) VGA In Audio In 3.5mm USB Type-A for power USB 5V/1.5A Audio Out 3.5mm Micro USB RS-232 					
Colour	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) 					
Speaker	Yes, 15W					
Power consumption	 Minimum: 122W (typical), 140W (max.) @ 110VAC 120W (typical), 138W (max.) @ 220VAC Maximum: 145W (typical), 167W (max.) @ 110VAC 140W (typical), 161W (max.) @ 220VAC 					
Input current	1.8A					
Installation orientations	Front, Rear, Ceiling, Rear-top					
Dimensions (W x D x H)	 Without feet: 337(W) x 265(D) x 108(H) mm (13.27(W) x 10.43(D) x 4.25(H) inches) With feet: 337(W) x 265(D) x 122.5(H) mm (13.27(W) x 10.43(D) x 4.82(H) inches) 					
Weight	4.2kg (9.26lbs)					
Environmental	Operating in 5~40°C , 10% to 85% humidity (non-condensing)					

Note: All specifications are subject to change without notice.

