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TEXAS INSTRUMENTS

DLP[®] Projector

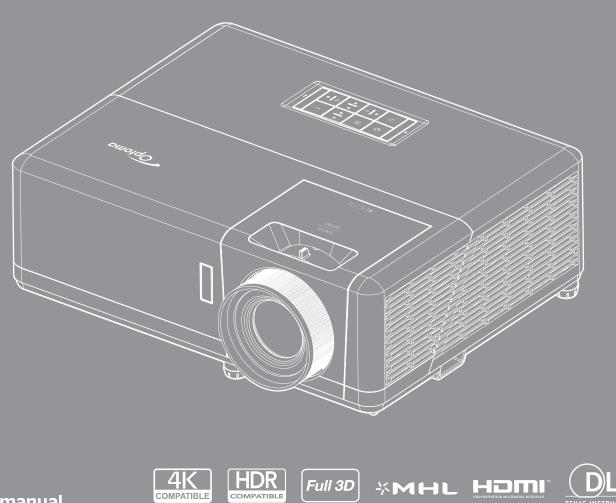
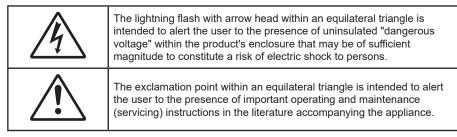


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SAFETY



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

Important Safety Instruction





Do not stare into the beam, RG2.

As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
 - In extremely hot, cold or humid environments.
 - (i) Ensure that the ambient room temperature is within $5^{\circ}C \sim 40^{\circ}C$
 - (ii) Relative humidity is 10% ~ 85%
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.
- Do not use the 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 IEC 60825-1 : 2014
- This product is classified as Class 3R of IEC 60825-1:2007 and also complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.
- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015



- CLASS 3R LASER PRODUCT-AVOID DIRECT EYE EXPOSURE
- 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

Laser Notice

IEC 60825-1:2014: CLASS 1 LASER PRODUCT - RISK GROUP 2.

The product's intended use as a consumer laser product and compliant with EN 50689:2021.

CLASS 1 CONSUMER LASER PRODUCT

EN 50689:2021

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

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

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

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

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

FCC

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

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

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

Notice: Shielded cables

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

Caution

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

Operation Conditions

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

- 1. This device may not cause harmful interference and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU countries

- EMC Directive 2014/30/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.

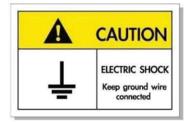


Warning: Do not use a spray containing flammable gases to remove dust or dirt from the lens. This may cause a fire due to excessive heat inside the projector.

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.



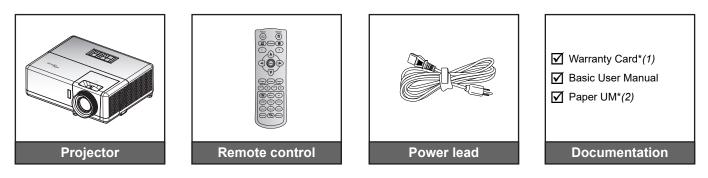
To avoid electric shock, the unit and its peripherals must be properly grounded (earthed).

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.

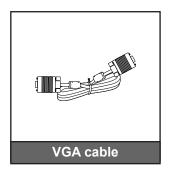
Standard accessories



Note:

- The remote control is shipped with the battery.
- *(1) For European warranty Information, please visit www.optoma.com.
- *(2) Available only for Asian region.

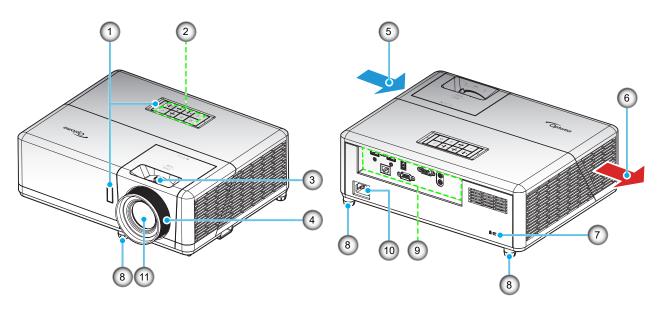
Optional accessories



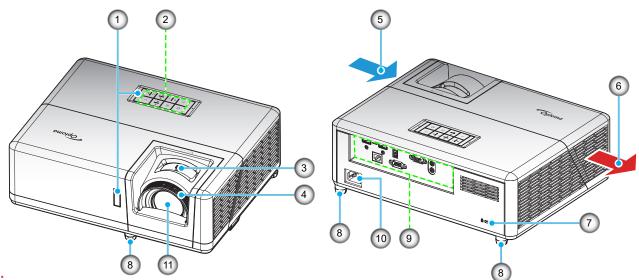
Note: Optional accessories vary depending on model, specification and region.

Product Overview

1080p model



WXGA model

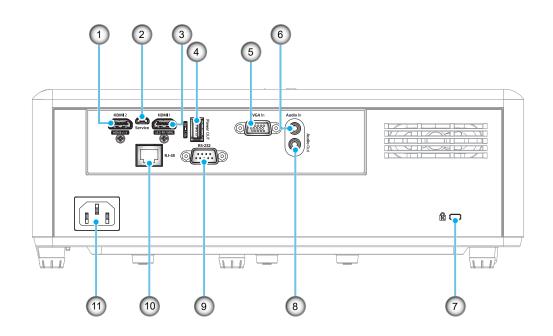


Note:

- 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.

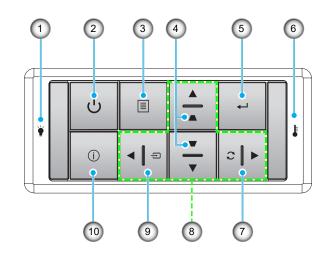
No	ltem	No	Item
1.	IR Receivers	7.	Kensington™ Lock Port
2.	Keypad	8.	Tilt-Adjustment Feet
3.	Zoom Lever	9.	Input / Output
4.	Focus Ring	10.	Power Socket
5.	Ventilation (inlet)	11.	Lens
6.	Ventilation (outlet)		

Connections



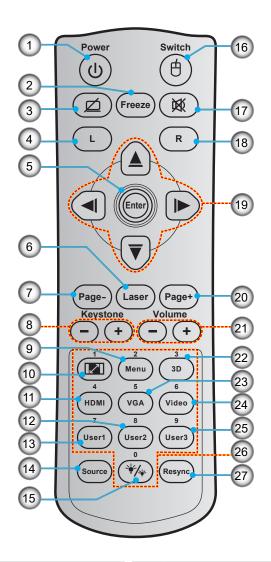
No	Item	No	Item
1.	HDMI 2 Connector	7.	Kensington™ Lock Port
2.	Micro USB Connector	8.	Audio Out Connector
3.	HDMI 1 / MHL Connector	9.	RS-232 Connector
4.	USB Power Out (5V-1.5A) Connector	10.	RJ-45 Connector
5.	VGA In Connector	11.	Power Socket
6.	Audio In Connector		

Keypad



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

Remote control 1



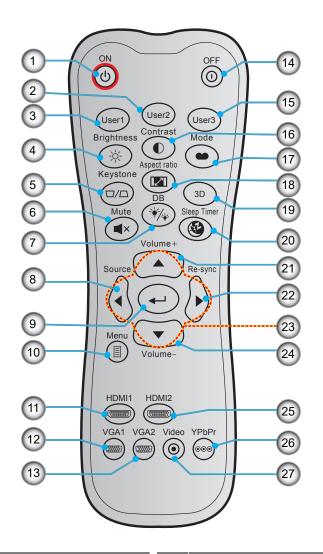
No	Item	No	ltem
1.	Power On / Off	15.	Brightness Mode
2.	Freeze	16.	Mouse On / Off
3.	Display Blank / Audio Mute	17.	Mute
4.	Mouse Left Click	18.	Mouse Right Click
5.	Enter	19.	Four Directional Select Keys
6.	Laser	20.	Page +
7.	Page -	21.	Volume - / +
8.	Keystone - / +	22.	3D Menu On / Off
9.	Menu	23.	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		

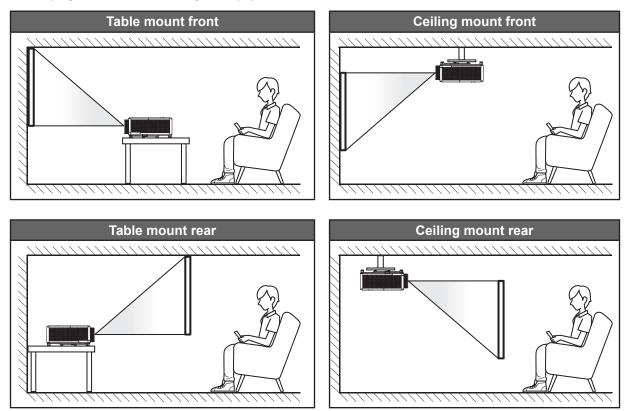
Note:

- 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.

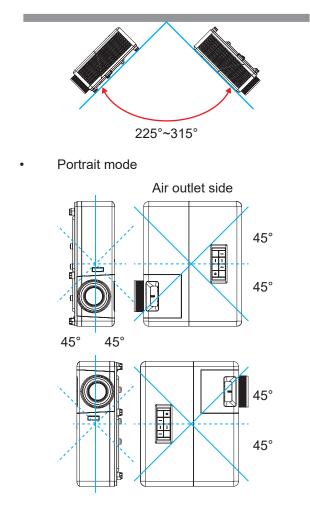


Projector should be placed flat on a surface and 90 degrees / perpendicular to the screen.

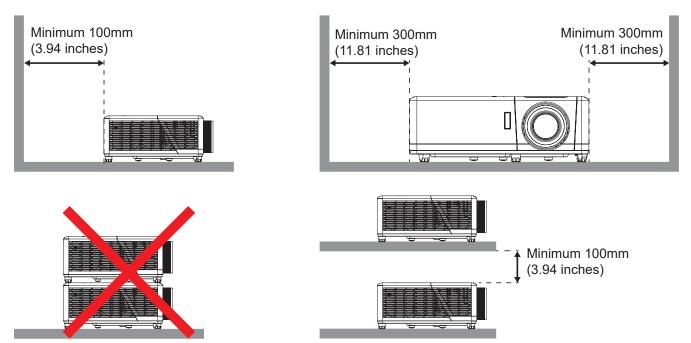
- How to determine projector location for a given screen size, please refer to distance table on pages 57-58.
- How to determine screen size for a given distance, please refer to distance table on pages 57-58.
- **Note:** The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.

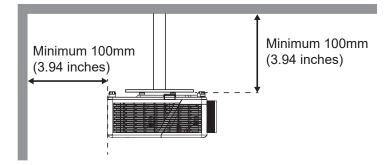
Projector installation notice

Note: The fan will default to "High altitude mode" when the projector is installed within the range highlighted.



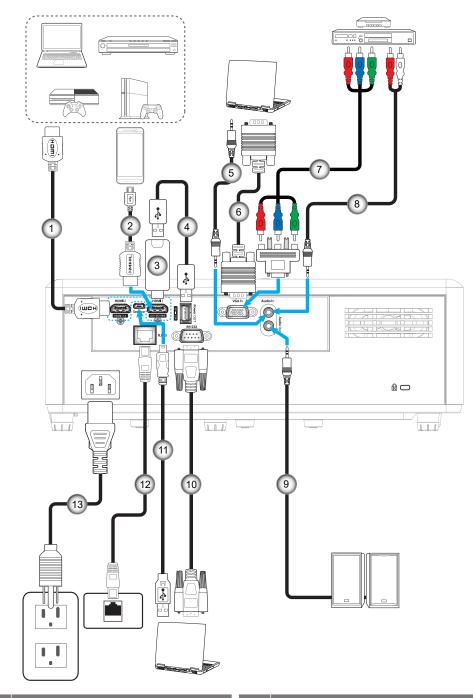
• Allow at least 30 cm clearance around the exhaust vent.





- 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



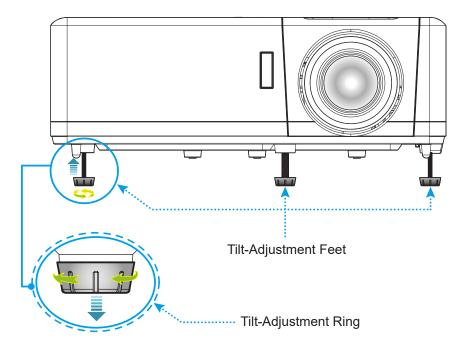
No	Item	No	Item
1.	HDMI Cable	8.	Audio In Cable
2.	MHL Cable	9.	Audio Out Cable
3.	HDMI Dongle	10.	RS232 Cable
4.	USB Power Cable	11.	USB Cable
5.	Audio In Cable	12.	RJ-45 Cable
6.	VGA In Cable	13.	Power Cord
7.	RCA Component Cable		

Adjusting the projector image

Image height

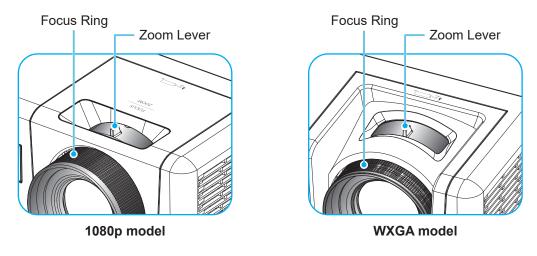
The projector is equipped with elevator feet for adjusting the image height.

- 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.

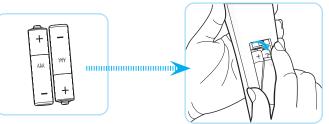


Remote setup

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

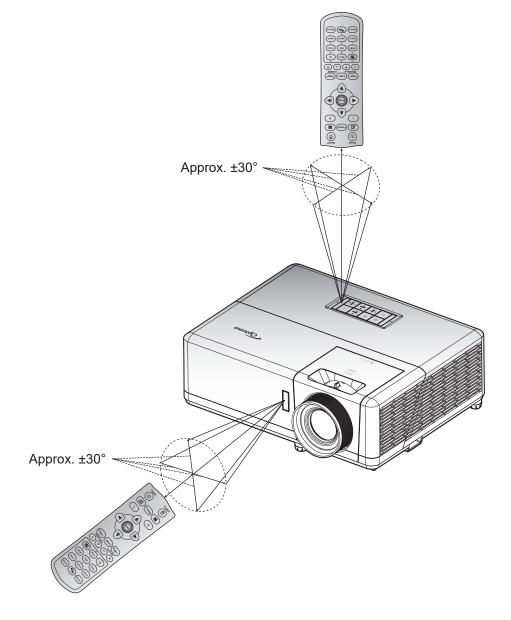
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- 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.

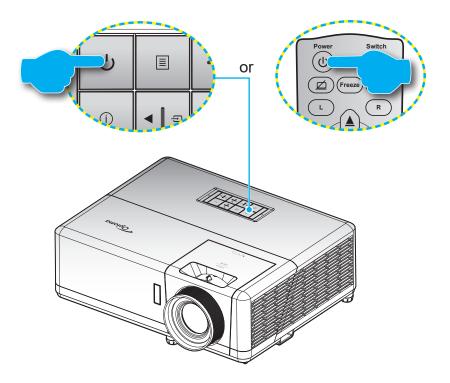
Effective range

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 U 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 U button on the projector keypad or remote control.
- 2. The following message will be displayed:

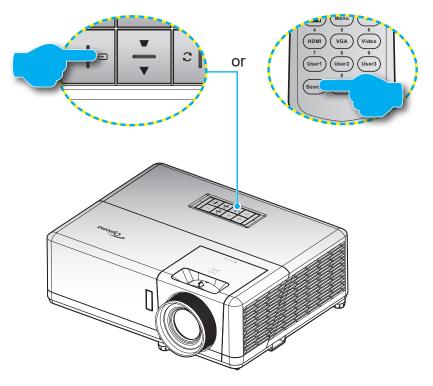


- 3. Press the U button again to confirm, otherwise the message will disappear after 15 seconds. When you press the U button for the second time, the projector will shut down.
- 4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the Power LED will flash blue.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

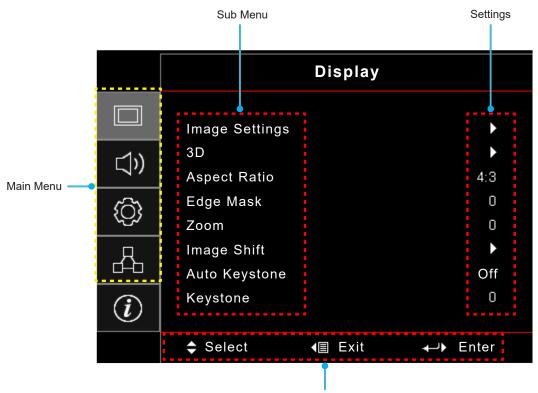
Turn on the connected source that you want to display on the screen, such as computer, notebook, video player, etc. The projector will automatically detect the source. If multiple sources are connected, press the 🖘 button on the projector keypad or the **Source** button on the remote control to select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

- 1. To open the OSD menu, press the 🗏 button on the projector keypad or the **Menu** button on the remote control.
- 2. When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection 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.
- 6. To exit, press the 🗐 or **Menu** button again. The OSD menu will close and the projector will automatically save the new settings.



Navigation guide

OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Presentation
					Bright
					HDR
					HLG
		_			Cinema
		Display Mode			Game
					sRGB
					DICOM SIM.
					User
					3D
					Off [Default]
					Blackboard
					Light Yellow
		Wall Color			Light Green
					Light Blue
					Pink
					Gray
					Off
			HDR/HLG		Auto [Default]
					Bright
					Standard [Default]
Display	Image Settings		HDRPictureMode		Film
		Dynamic Range	Range		Detail
					Bright
					Standard [Default]
			HLGPictureMode		Film
					Detail
		Brightness			-50 ~ 50
		Contrast			-50 ~ 50
		Sharpness			1 ~ 15
		Color			-50 ~ 50
		Tint			-50 ~ 50
			Film		
			Video		
			Graphics		
			Standard(2.2)		
			1.8		
		Gamma	2.0		
			2.0		
			2.4		
			HDR		
			HLG		
			TILO		

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
			3D		
		Gamma	Blackboard		
			DICOM SIM.		
			BrilliantColor™		1 ~ 10
					Warm
			0.1		Standard
			Color Temp.		Cool
					Cold
					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]
1				Reset	Cancel [Default]
		Color Settings			Yes
				Exit	
				Red Gain	-50 ~ 50
Display	Image Settings			Green Gain	-50 ~ 50
				Blue Gain	-50 ~ 50
				Red Bias	-50 ~ 50
			RGB Gain/Bias	Green Bias	-50 ~ 50
				Blue Bias	-50 ~ 50
				Cancel [Default]	
				Reset	Yes
				Exit	
					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]
		Signal	Frequency		-10 ~ 10 (depends on signal) [Default: 0]
			Phase		0~31 (depends on signal) [Default: 0]
			H. Position		-5 ~ 5 (depends on signal) [Default: 0]

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
		Signal	V. Position		-5 ~ 5 (depends on signal) [Default: 0]
					DynamicBlack
					Eco.
	Image Settings	Brightness Mode			Power (Power = 100%/ 95%/ 90%/ 85%/ 80%/ 75%/ 70%/ 65%/ 60%/ 55%/ 50%)
		Reset			
		3D Mode			Off
		3D Mode			On [Default]
		2D Teeh			DLP-Link [Default]
		3D Tech			3D Sync
					3D [Default]
		3D -> 2D			L
					R
					Auto [Default]
	3D				SBS
		3D Format			Top and Bottom
					Frame Sequential
Display					Frame Packing
		3D Sync. Invert			On
					Off [Default]
					Cancel
		Reset			Yes
					4:3
					16:9
					16:10
	Aspect Ratio				[Only for WXGA model]
					LBX
					Native
					Auto
	Edge Mask				0 ~ 10 [Default: 0]
	Zoom				-5 ~ 25 [Default: 0]
	Image Shift	н			-100 ~ 100 [Default: 0]
		V			-100 ~ 100 [Default: 0]
	Auto Keystone				Off
	Auto Reystone				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 a	
					Rear 🕢	
	Projection				Ceiling-top	
					Rear-top 🕢 🏹	
	Screen Type				16:9	
	[Only for WXGA model]				16:10 [Default]	
					Off [Default]	
		Direct Power On			On	
		0. 10 0			Off [Default]	
		Signal Power On			On	
		AutoPowerOff(min)			0 ~ 180 (5 min increments) [Default: 20]	
	Power Settings				0 ~ 990 (30 min increments) [Default: 0]	
		Sleep Timer (min)	Always On		No [Default]	
			Always On		Yes	
		PowerMode(Standby)			Active	
					Eco. [Default]	
		USB Power			Off [Default]	
		(Standby)			On	
Setup		Security			Off	
					On	
	Security	tv	Month			
	,	Security Timer	Day			
			Hour			
		ChangePassword			[Default: 1234]	
		HDMI Link	HDMI Link			Off [Default]
					On	
	Inclusive of	Inclusive of TV			No [Default]	
					Yes	
	HDMILinkSettings				Mutual [Default]	
		Power On Link			$PJ \rightarrow Device$ Device $\rightarrow PJ$	
					Off [Default]	
		Power Off Link			On	
					Green Grid	
					Magenta Grid	
	Test Pattern				White Grid	
					White	
					Off	
					On [Default]	
	RemoteSettings [depends on	IR Function			Off	
	remote]	Remote Code			00~99	

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
					MHL
					Test Pattern
	RemoteSettings				Brightness
					Contrast
					Sleep Timer
	[depends on	F2			Color Matching [Default]
	remote]				Color Temp.
					Gamma
					Projection
					MHL
		F3			Test Pattern
					Brightness
					Contrast
Cotur					Sleep Timer
Setup					Color Matching
					Color Temp.
					Gamma
					Projection
					MHL [Default]
	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

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
	ĺ				Русский
					Magyar
					Čeština
					عـربي
					ไทย
		Language			Türkçe
					فارسے
					Tiếng Việt
					Bahasa Indonesia
					Română
					Slovenčina
					CC1
		ClosedCaptioning			CC2
					Off [Default]
					Top left
					Top right
			Menu Location		Center [Default]
	Options	Menu Settings Auto Source			Bottom left
					Bottom right
Setup			Menu Timer		Off
Comp					5sec
					10sec [Default]
					Off [Default]
					On
		Input Source			HDMI1 / MHL
					HDMI2
					VGA
		Input Name	HDMI1 / MHL		Default [Default]
					Custom
			HDMI2		Default [Default]
					Custom
			VGA		Default [Default]
			VOR		Custom
		High Altitude			Off [Default]
					On
		DisplayModeLock			Off [Default]
					On
		Keypad Lock			Off [Default]
					On
		Information Hide			Off [Default]
					On

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup		Logo			Default [Default]
					Neutral
					User
					None
	Options	BackgroundColor			Blue [Default]
					Red
					Green
					Gray
					Logo
		React OSD			Cancel [Default]
	Reset	Reset OSD -			Yes
	Resei	Depart to Default			Cancel [Default]
		Reset to Default			Yes
		Network Status			(read only)
		MAC Address			(read only)
					Off [Default]
		DHCP			On
	LAN	IP Address			192.168.0.100 [Default]
		Subnet Mask			255.255.255.0 [Default]
		Gateway			192.168.0.254 [Default]
		DNS			192.168.0.51 [Default]
		Reset			
	Control				Off
		Crestron			On [Default] Note: Port 41794
Network					Off
		Extron			On [Default] Note: Port 2023
					Off
		PJ Link			On [Default] Note: Port 4352
					Off
		AMXDeviceDiscovery			On [Default] Note: Port 9131
					Off
		Telnet			On [Default] Note: Port 23
					Off
		HTTP			On [Default] Note: Port 80

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
	Regulatory				
	Serial Number				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
	Remote Code				00~99
	RemoteCode(Active)				00~99
Info.	PowerMode(Standby)				
	LightSourceHours				0 hr
	Network Status				
	IP Address				
	Projector ID				00 ~ 99
	BrightnessMode				
	FW Version	System			
		LAN			
		MCU			

Display menu

Display image settings menu

Display Mode

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

- **Presentation**: This mode is suitable for showing in front of public in connection to the PC.
- **Bright**: Maximum brightness from PC input.
- HDR / HLG: Decodes and displays High Dynamic Range (HDR) / Hybrid Log Gamma (HLG) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut. This mode will be automatically enabled if HDR/HLG is set to Auto (and HDR/HLG Content is sent to projector – 4K UHD Blu-ray, 1080p/4K UHD HDR/HLG Games, 4K UHD Streaming Video). While HDR/HLG mode is active, other display modes (Cinema, Reference, etc.) cannot be selected as HDR/HLG delivers color that is highly accurate, exceeding the color performance of the other display modes.
- Cinema: Provides the best colors for watching movies.
- Game: Select this mode to increase the brightness and response time level for enjoying video games.
- **sRGB**: Standardized accurate color.
- **DICOM SIM.**: This mode can project a monochrome medical image such as an X ray radiography, MRI, etc.
- **User**: Memorize user's settings.
- **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 have a 3D Player installed.

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) / Hybrid Log Gamma(HLG) setting and its effect when displaying video from 4K Blu-ray players and streaming devices.

Note: HDMI1 and VGA do not support Dynamic Range.

≻ HDR/HLG

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

> HDR Picture Mode / HLG Picture Mode

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

Note:

- The HDR Picture Mode adjusts the HDR rendering effect when the input signal is HDR. Similarly, the HLG Picture Mode adjusts the HLG rendering effect when the input signal is HLG.
- **HDR Picture Mode** option is only available when the input signal is HDR, and **HLG Picture Mode** option will be grayed out and vice versa.

Brightness

Adjust the brightness of the image.

<u>Contrast</u>

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

<u>Sharpness</u>

Adjust the sharpness of the image.

<u>Color</u>

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

<u>Tint</u>

Adjust the color balance of red and green.

<u>Gamma</u>

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

- Film: For home theater.
- Video: For video or TV source.
- **Graphics**: For PC / Photo source.
- **Standard(2.2)**: For standardized setting.
- 1.8 / 2.0 / 2.4 / 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.** or **HDR**.
- If the Display Mode setting is set to HDR, user can only select HDR for Gamma setting.
- If the Display Mode setting is set to HLG, user can only select HLG for Gamma setting.
- 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 Temp.**: 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.

<u>Signal</u>

Adjust the signal options.

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

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.
- **Power**: Choose the power percentage for brightness mode.

<u>Reset</u>

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.

<u>3D Tech</u>

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.

<u>3D -> 2D</u>

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.

<u>3D Format</u>

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.

<u>Reset</u>

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.
- **16:10** (for WXGA model only): This format is for 16:10 input sources, like widescreen laptops.
- **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.

Note:

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

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	- 1:1 mapping centered.						
	- No scaling will be made; the image is displayed with the resolution based on input source.						
Auto	- If auto format is selected, the screen type will automatically become16:9 (1920x1080).						
	- If source is 4:3, the screen type will be scaled to 1440 x1080.						
	- If source is 16:9, the screen type will be scaled to 1920x1080.						
- If source is 16:10, the screen type will be scaled to 1920x1200 and cut 1920x1080 display.							

1080p auto mapping rule:

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1920	1080
	640	480	1440	1080
	800	600	1440	1080
4:3	1024	768	1440	1080
4.3	1280	1024	1440	1080
	1400	1050	1440	1080
	1600	1200	1440	1080
	1280	720	1920	1080
Wide Laptop	1280	768	1800	1080
	1280	800	1728	1080
SDTV	720	576	1350	1080
SDTV	720	480	1620	1080
	1280	720	1920	1080
HDTV	1920	1080	1920	1080

WXGA scaling table (screen type 16x10):

Note:

- Supported screen type 16:9 (1280x720), 16:10 (1280x800).
- When screen type is 16:9, the 16x10 format becomes unavailable.
- When screen type is 16:10, the 16x9 format becomes unavailable.
- If you select auto option then the display mode will be also automatically changed.

16 : 10 screen	480i/p	576i/p	1080i/p	720p	PC	
4x3	Scale to 1066x800.					
16x10	Scale to 1280x800.					
LBX	Scale to 1280x96	0, then get the cer	ntral 1280x800 im	age to display.		
Native	1:1 mapping cente	red.	1:1 mapping display 1280x800.	1280x720 centered.	1:1 mapping centered.	
Auto	-Input source will b	e fit into 1280x800) display area and	be kept its original	aspect ratio.	
	-If source is 4:3, the screen type will be scaled to 1066x800.					
	-If source is 16:9, the screen type will be scaled to 1280x720.					
	-If source is 15:9, the screen type will be scaled to 1280x768.					
	-If source is 16:10,	the screen type w	ill be scaled to 128	80x800.		

Auto	Input resolution		Auto/Scale		
	H-resolution	V-resolution	1280	800	
	640	480	1066	800	
	800	600	1066	800	
4:3	1024	768	1066	800	
4.3	1280	1024	1066	800	
	1400	1050	1066	800	
	1600	1200	1066	800	
	1280	720	1280	720	
Wide Laptop	1280	768	1280	768	
	1280	800	1280	800	
	720	576	1280	720	
SDTV	720	480	1280	720	
	1280	720	1280	720	
HDTV	1920	1080	1280	720	

WXGA auto mapping rule (screen type 16x10):

WXGA scaling table (screen type 16x9):

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC			
4x3	Scale to 960x720.							
16x9	Scale to 1280x72	Scale to 1280x720.						
LBX	Scale to 1280x96), then get the ce	ntral 1280x720 ima	age to display.				
Native	1:1 mapping cente	red.	1:1 mapping display 1280x720.	1280x720 centered.	1:1 mapping centred.			
Auto	-If this format is se	lect, screen type w	vill automatically be	come 16:9 (1280x	720).			
	-If source is 4:3, the screen type will be scaled to 960x720.							
	-If source is 16:9, the screen type will be scaled to 1280x720.							
	-If source is 15:9, the screen type will be scaled to 1200x720.							
	-If source is 16:10,	-If source is 16:10, the screen type will be scaled to 1152x720.						

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1280	720
	640	480	960	720
	800	600	960	720
4:3	1024	768	960	720
4.3	1280	1024	960	720
	1400	1050	960	720
	1600	1200	960	720
	1280	720	1280	720
Wide Laptop	1280	768	1200	720
	1280	800	1152	720
	720	576	1280	720
SDTV	720	480	1280	720
	1280	720	1280	720
HDTV	1920	1080	1280	720

WXGA auto mapping rule (screen type 16x9):

Display edge mask menu

Edge Mask

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

Display zoom menu

<u>Zoom</u>

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 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

<u>Mute</u>

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

<u>Volume</u>

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 (for WXGA model only)

Choose the screen type from 16:9 and 16:10.

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.

Note: The USB is not able to supply power with MHL sources.

Setup security menu

<u>Security</u>

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.

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.

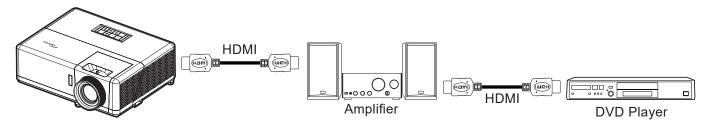
Change Password

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.
- $PJ \rightarrow Device$: The CEC device will be turned on only after the projector is switched on.
- **Device** \rightarrow **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.

Remote Code

Set the remote custom code by pressing the remote ID button for 3 seconds and you will notice the remote indicator (above the Off button) starts blinking. Then, input a number between 00-99 using the keyboard numbered keys. After inserting the number, the remote indicator blinks twice quickly indicating that the remote code has changed.

F1/F2/F3

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

<u>Language</u>

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.

Closed Captioning

Closed Captioning is a text version of the program sound or other information displayed on the screen. If the input signal contains closed captions, you can turn on the feature and watch the channels. The available options include "Off", "CC1", and "CC2".

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 / MHL, HDMI2, and VGA.

Input Name

Use to rename the input function for easier identification. The available options include HDMI1 / MHL, 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.

<u>Logo</u>

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

- **Default:** The default startup screen.
- **Neutral:** Logo is not displayed on startup screen.
- **User:** Logo capture tool required.

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.

Network menu

Network LAN menu

Network Status

Display the network connection status (read-only).

MAC Address

Display the MAC address (read-only).

DHCP

Use this option to enable or disable the DHCP function.

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

Note: Exiting OSD will automatically apply the entered values.

IP Address

Display the IP address.

Subnet Mask

Display subnet mask number.

<u>Gateway</u>

Display the default gateway of the network connected to the projector.

<u>DNS</u>

Display the DNS number.

How to use web browser to control your projector

- 1. Turn "On" the DHCP option on projector to allow a DHCP server to automatically assign an IP address.
- Open the web browser in your PC and type in the projector's IP address ("Network > LAN > IP Address").
- 3. Enter the user name and password, and click "Login". The projector's configuration web interface opens.

Note:

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

Making a direct connection from your computer to the projector*

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

Local Area Connection 2 Properties		
Networking		0
Connect using:	Internet Protocol Version 4 (T	CP/IPv4) Properties
Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6	General	
Configure This connection uses the following items:		ned automatically if your network supports ou need to ask your network administrator gs.
Client for Microsoft Networks	Obtain an IP address and a state of the s	utomatically
QoS Packet Scheduler Pile and Printer Sharing for Microsoft Networks	Oge the following IP ad	dress:
✓ ▲ Internet Protocol Version 6 (TCP/IPv6)	IP address:	192.168.0.99
✓ Internet Protocol Version 4 (TCP/IPv4)	Subnet mask:	255.255.255.0
	Default gateway:	192.168.0.254
	O <u>b</u> tain DNS server add	ress automatically
Install Uninstall Properties	OUSE the following DNS s	server addresses:
Description	Preferred DNS server:	192.168.0.1
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	<u>A</u> lternate DNS server:	• • •
	Validate settings upon	exit Ad <u>v</u> anced
OK Cancel		OK Cancel

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

<u>Reset</u>

Reset all values for LAN parameters.

Network control menu

Crestron

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

For more information, please visit http://www.crestron.com and www.crestron.com/getroomview.

Extron

Use this function to select the network function (port: 2023).

<u>PJ Link</u>

Use this function to select the network function (port: 4352).

AMX Device Discovery

Use this function to select the network function (port: 9131).

<u>Telnet</u>

Use this function to select the network function (port: 23).

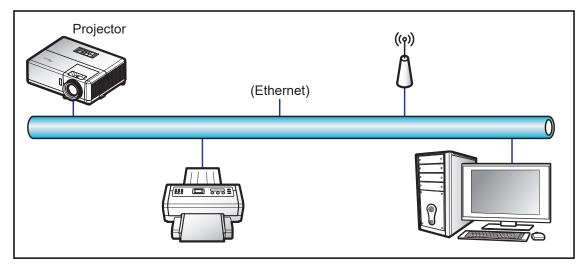
<u>HTTP</u>

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

Setup network control settings menu

LAN_RJ45 function

For simplicity and ease of operation, the projector provides diverse networking and remote management features. The LAN / RJ45 function of the projector through a network, such as remotely manage: Power On / Off, brightness, and contrast settings. Also, you can view the projector status information, such as: Video- Source, Sound-Mute, etc.



Wired LAN terminal functionalities

This projector can be controlled by using a PC (laptop) or other external device via LAN / RJ45 port and compatible with Crestron / Extron / AMX (Device -Discovery) / PJLink.

- Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
- Extron is a registered trademark of Extron Electronics, Inc. of the United States.
- AMX is a registered trademark of AMX LLC of the United States.
- PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA.

The projector is supported by the specified commands of the Crestron Electronics controller and related software, for example RoomView[®].

http://www.crestron.com/

This projector is compliant to support Extron device(s) for reference.

http://www.extron.com/

This projector is supported by AMX (Device Discovery).

http://www.amx.com/

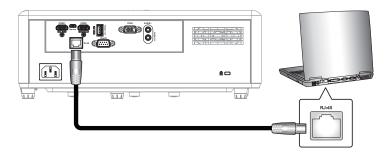
This projector supports all commands of PJLink Class1 (Version 1.00).

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

For more detailed information about the various types of external devices which can be connected to the LAN / RJ45 port and remote control the projector, as well as the supported commands for these external devices, please contact the Support-Service directly.

LAN RJ45

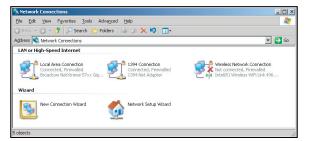
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (laptop).



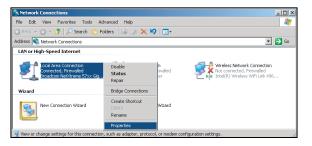
2. On the PC (Laptop), select **Start > Control Panel > Network Connections**.



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



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



5. Click "Properties".

eneral Advanced		
	treme 57xx Gigabit Cc	 Configure
This connection uses t	he following items:	
🗹 🚚 QoS Packet S		
Network Mon		
Internet Proto	col (TCP/IP)	
-		
•	N	
I <u>n</u> stall	Uninstall	Properties
Description		
Transmission Contro wide area network p	I Protocol/Internet Pro protocol that provides o connected networks.	
Sho <u>w</u> icon in notific	cation area when conr	ected
 Show icon in notifie Notify me when this 		

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

Internet Protocol Version 4 (TCP/IPv4	i) Properties						
General							
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.							
Obtain an IP address automatic	Qbtain an IP address automatically						
O Uge the following IP address: —							
IP address:	192.168.0.99						
Sybnet mask:	255.255.255.0						
Default gateway:	192 . 168 . 0 . 254						
Obtain DNS server address auto	omatically						
Use the following DNS server ac	idresses:						
Preferred DNS server:	192.168.0.1						
Alternate DNS server:	· · ·						
🔲 Valjdate settings upon exit	Ad <u>v</u> anced						
	OK Cancel						

- 7. Press the "Menu" button on the projector.
- 8. Open on projector **Network > LAN**.
- 9. Enter the following connection parameters:
 - DHCP: Off
 - IP Address: 192.168.0.100
 - Subnet Mask: 255.255.255.0
 - Gateway: 192.168.0.254
 - DNS: 192.168.0.51
- 10. Press "Enter" to confirm settings.
- 11. Open a web browser, for example Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher installed.
- 12. In the Address bar, input the projector's IP address: 192.168.0.100.

Optoma Projector - Windows Internet Explorer	
S S < Image: A the state of	- ک

13. Press "Enter".

The projector is setup for remote management. The LAN / RJ45 function displays as follows: Information page

pansion Options

Main page

Optom	a		Tool	Info	Contact IT He
Power	Vol -	Mute	Vol +		_
Sources List					Interface 2.7.2
HOM UMH.					
HDM 3				/lenu 🔼	Re-Sync
				 Ent 	er 🕨
			A	/ Mute	Source
Con	trast Brigh	ntness Shar	pness Z	loom	
CRESTRON					Expansion Options

Tool page

Model: Optoma		Tool	Info	Contact IT Help
Optoma				
IP Address	Send Enabled 192.168.0.100 255.255.255.0 192.168.0.254	New Password Confirm New Password Confirm	User Pas	Send
CRESTRON			Exp	ansion Options

Contact IT helpdesk



RS232 by Telnet Function

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

Quick Start-Guide for "RS232 by Telnet"

- Check and get the IP address on OSD of the projector.
- Make sure that the PC / laptop can access the web-page of the projector.
- Make sure that "Windows Firewall" setting is set disabled in case of "TELNET" function filtering out by PC / laptop.



1. Select Start > All Programs.> Accessories > Command Prompt.

۲	Set Program Access and Defaults				
10	Windows Catalog				
*	Windows Update				
	New Office Document				
è	Open Office Document				
5	Program Updates				
iii	Accessories	Þ	1	Accessibility	•
	Games	Þ	1	Entertainment	•
	Startup		1	System Tools	,
3	Internet Explorer		3	Address Book	
1	MSN Explorer			Calculator	
٢	Outlook Express		015	Command Prompt	
3	Remote Assistance			Notepad	
0	Windows Media Player		¥	Paint	
18	Windows Messenger		0	Program Compatibility Wizard	

- 2. Input the command format as follows:
 - telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)
 - (ttt.xxx.yyy.zzz: IP-Address of the projector)
- 3. If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

Specification for "RS232 by TELNET":

- 1. Telnet: TCP.
- 2. Telnet port: 23 (for more detail, kindly please get contact with the service agent or team).
- 3. Telnet utility: Windows "TELNET.exe" (console mode).
- 4. Disconnection for RS232-by-Telnet control normally: Close
- 5. Windows Telnet utility directly after TELNET connection ready.
 - Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.
 - Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.
 - Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

Info menu

Info menu

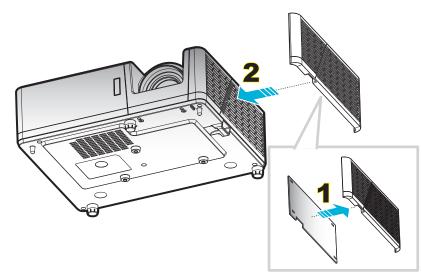
View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Remote Code
- Remote Code (Active)
- Power Mode (Standby)
- Light Source Hours
- Network Status
- IP Address
- Projector ID
- Brightness Mode
- FW Version

MAINTENANCE

Installing and cleaning the dust filter

Installing the dust filter



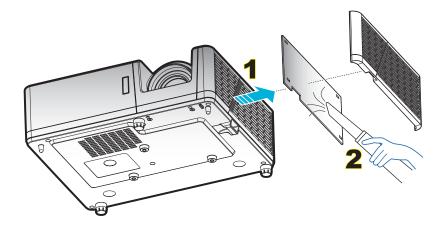
Note: Dust filters are only required/supplied in the selected regions with excessive dust.

Cleaning the dust filter

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

Procedure:

- 1. Switch off the power to the projector by pressing the U 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	SVGA:	Native timing:	640 x 480p @ 60Hz	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	800 x 600 @ 120Hz	XGA: 1024 x 768 @ 60Hz	720 x 480p @ 60Hz	1920 x 1080p @ 60Hz
640 x 480 @ 67Hz	1024 x 768 @ 120Hz	WXGA: 1280 x 800 @ 60Hz	1280 x 720p @ 60Hz	1920 x 1200 @ 60Hz (support for HDMI 1.4 and HDMI 2.0 NOT support)
640 x 480 @ 72Hz	1280 x 800 @ 60Hz	1080P: 1920 x 1080 @ 60Hz	1920 x 1080i @ 60Hz	1920 x 1080i @ 50Hz
640 x 480 @ 75Hz	1280 x 1024 @ 60Hz	WUXGA: 1920 x 1200 @ 60Hz	720(1440) x 480i @ 60Hz	1920 x 1080p @ 60Hz
800 x 600 @ 56Hz	1280 x 720 @ 60Hz		1920 x 1080p @ 60Hz	
800 x 600 @ 60Hz	640 x 480 @ 120Hz		720 x 576p @ 50Hz	
800 x 600 @ 72Hz	1280 x 800 @ 120Hz		1280 x 720p @ 50Hz	
800 x 600 @ 75Hz			1920 x 1080i @ 50Hz	
832 x 624 @ 75Hz	XGA/WXGA:		720(1440) x 576i @ 50Hz	
1024 x 768 @ 60Hz	800 x 600 @ 120Hz		1920 x 1080p @ 50Hz	
1024 x 768 @ 70Hz	1024 x 768@ 120Hz		1920 x 1080p @ 24Hz	
1024 x 768 @ 75Hz	1280 x 800 @ 60Hz		1920 x 1080p @ 30Hz	
1280 x 1024 @ 75Hz	1280 x 1024 @ 60Hz		3840 x 2160p @ 24Hz	
1152 x 870 @ 75Hz	1280 x 720 @ 60Hz		3840 x 2160p @ 25Hz	
	640 x 480 @ 120Hz		3840 x 2160p @ 30Hz	
	1280 x 800 @ 120Hz		4096 x 2160p @ 24Hz	
			4096 x 2160p @ 25Hz	
	1080P/WUXGA:		4096 x 2160p @ 30Hz	
	1280 x 720 @ 60Hz		3840 x 2160p @ 50Hz (support for HDMI 2.0 and HDMI 1.4 NOT support)	
	1280 x 800 @ 60Hz		3840 x 2160p @ 60Hz (support for HDMI 2.0 and HDMI 1.4 NOT support)	
	1280 x1024 @ 60Hz		4096 x 2160p @ 50Hz (support for HDMI 2.0 and HDMI 1.4 NOT support)	
	640 x 480 @ 120Hz		4096 x 2160p @ 60Hz (support for HDMI 2.0 and HDMI 1.4 NOT support)	
	800 x 600 @ 120Hz			
	1024 x 768 @ 120Hz			
	1280 x 800 @ 120Hz			

Analog

B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Detail Timing
720 x 400 @ 70Hz	SVGA:	Native timing:	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	800 x 600 @ 120Hz	XGA: 1024 x 768 @ 60Hz	1280 x 800 @ 120Hz
640 x 480 @ 67Hz	1024 x 768 @ 120Hz	WXGA: 1280 x 800 @ 60Hz	1920 x 1200 @ 60Hz
640 x 480 @ 72Hz	1280 x 800 @ 60Hz	1080P: 1920 x 1080 @ 60Hz	
640 x 480 @ 75Hz	1280 x 1024 @ 60Hz	WUXGA: 1920 x 1200 @ 60Hz	
800 x 600 @ 56Hz	1280 x 720 @ 60Hz		
800 x 600 @ 60Hz	640 x 480 @ 120Hz		
800 x 600 @ 72Hz			
800 x 600 @ 75Hz	XGA/WXGA		
832 x 624 @ 75Hz	800 x 600 @ 120Hz		
1024 x 768 @ 60Hz	1024 x 768@ 120Hz		
1024 x 768 @ 70Hz	1280 x 800 @ 60Hz		
1024 x 768 @ 75Hz	1280 x 1024 @ 60Hz		
1280 x 1024 @ 75Hz	1280 x 720 @ 60Hz		
1152 x 870 @ 75Hz	640 x 480 @ 120Hz		
	1080P/WUXGA:		
	1280 x 720 @ 60Hz		
	1280 x 800 @ 60Hz		
	1280 x1024 @ 60Hz		
	640 x 480 @ 120Hz		
	800 x 600 @ 120Hz		
	1024 x 768 @ 120Hz		

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					
		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						
		1920 x 1080i @ 60Hz						
Input		1280 x 720P @ 50Hz						
resolutions		1280 x 720P @ 60Hz	Side-by-Side(Half)	SBS mode is on				
		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

1080p model

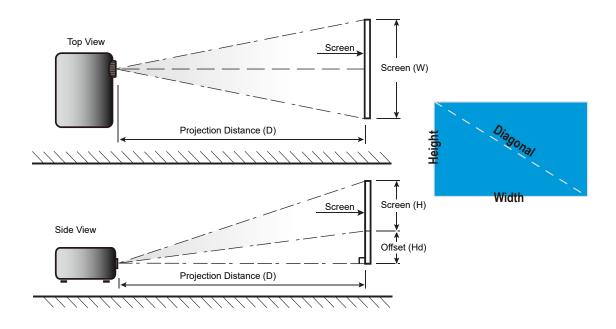
Diagonal		Screen Siz	ze (W x H)		Р	rojection E	Offset (Hd)				
Length Size of (16:9)	(m)		(inch)		(m)		(feet)		Oliset (Ind)		
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)	
28.3	0.63	0.35	24.67	13.87	NA	1.0	NA	3.28	0.04	1.57	
40	0.89	0.5	34.86	19.6	1.1	1.4	3.61	4.59	0.05	1.97	
50	1.11	0.62	43.58	24.5	1.3	1.8	4.27	5.91	0.06	2.36	
60	1.33	0.75	52.29	29.4	1.6	2.1	5.25	6.89	0.07	2.76	
70	1.55	0.87	61.01	34.3	1.9	2.5	6.23	8.20	0.09	3.54	
80	1.77	1	69.73	39.2	2.1	2.8	6.89	9.19	0.10	3.94	
90	1.99	1.12	78.44	44.1	2.4	3.2	7.87	10.50	0.11	4.33	
100	2.21	1.25	87.16	49	2.7	3.5	8.86	11.48	0.12	4.72	
120	2.66	1.49	104.59	58.8	3.2	4.2	10.50	13.78	0.15	5.91	
150	3.32	1.87	130.74	73.5	4.0	5.3	13.12	17.39	0.18	7.09	
180	3.98	2.24	156.88	88.2	4.8	6.3	15.75	20.67	0.23	9.06	
200	4.43	2.49	174.32	98.1	5.4	7.0	17.72	22.97	0.25	9.84	
250	5.53	3.11	217.89	122.6	6.7	8.8	21.98	28.87	0.31	12.20	
300	6.64	3.74	261.47	147.1	8.0	NA	26.25	NA	0.37	14.57	
374	8.28	4.66	325.97	183.4	10.0	NA	32.81	NA	0.46	18.11	

Note: Zoom Ratio: 1.3x

WXGA model

Diagonal		Screen Siz	ze (W x H)		P	rojection D	Offset (Hd)				
Length Size of (16:9)	(r	n)	(in	ch)	(n	n)	(feet)				
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)	
30.1	0.65	0.41	25.52	15.95	NA	1.0	NA	3.28	0.05	1.97	
40	0.86	0.54	33.92	21.2	1.0	1.3	3.28	4.27	0.07	2.76	
50	1.08	0.67	42.40	26.5	1.3	1.7	4.27	5.58	0.09	3.54	
60	1.29	0.81	50.88	31.8	1.5	2.0	4.92	6.56	0.10	3.94	
70	1.51	0.94	59.36	37.1	1.8	2.3	5.91	7.55	0.12	4.72	
80	1.72	1.08	67.84	42.4	2.0	2.7	6.56	8.86	0.13	5.12	
90	1.94	1.21	76.32	47.7	2.3	3.0	7.55	9.84	0.15	5.91	
100	2.15	1.35	84.80	53	2.5	3.3	8.20	10.83	0.16	6.30	
120	2.58	1.62	101.76	63.6	3.0	4.0	9.84	13.12	0.20	7.87	
150	3.23	2.02	127.20	79.5	3.8	5.0	12.47	16.40	0.25	9.84	
180	3.88	2.42	152.64	95.4	4.6	6.0	15.09	19.69	0.30	11.81	
200	4.31	2.69	169.60	106	5.1	6.6	16.73	21.65	0.34	13.39	
250	5.38	3.37	212.00	132.5	6.4	NA	21.00	NA	0.41	16.14	
300	6.46	4.04	254.40	159	7.6	NA	24.93	NA	0.50	19.69	

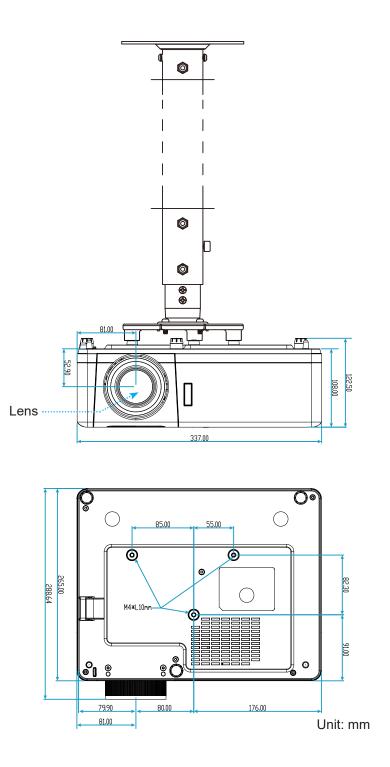
Note: Zoom Ratio: 1.3x



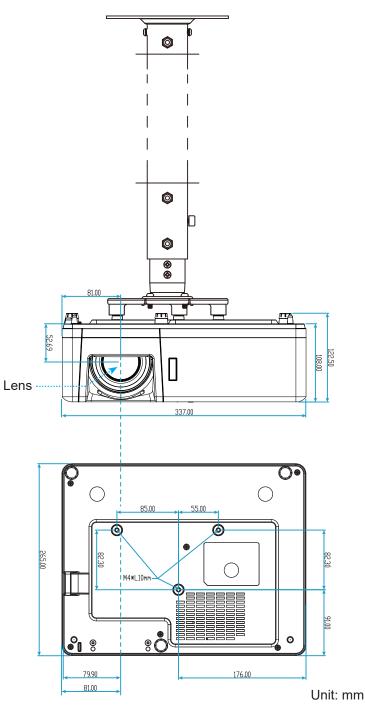
Projector dimensions and ceiling mount installation

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

1080p model



WXGA model



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.

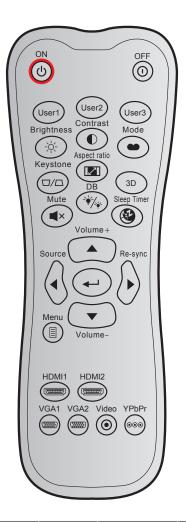
IR remote control 1 codes



Key		Key code	Printing-key definition	Description		
Power	ባ	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	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	逐	92	逐	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		C8	Left arrow	Use ▲ ▼ ◀ ► to select items or make adjustments to		
select keys		C9	Right arrow	your selection.		
	Ŭ	C7	Down arrow			
Enter		C5	Enter	Confirm your item coloction		
Enter		CA	Enter	Confirm your item selection.		

Кеу	Кеу		Printing-key definition	Description		
Page -		C2	Page-	Press to page down.		
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.		
Reystone	\bigcirc	84	Keystone-			
Volume	-+	8C	Volume +	Press to adjust to increase / decrease the volume.		
volume	\bigcirc	8F	Volume -			
Aspect ratio / 1		98	1	• Press to change aspect ratio of a displayed image.		
		50		Use as numeric keypad number "1".		
Menu / 2		88	Menu/2	 Press to display or exit the on-screen display menus for projector. 		
				• Use as numeric keypad number "2".		
3D / 3		93	3D/3	• Press to manually select a 3D mode that matches your 3D content.		
				Use as numeric keypad number "3".		
HDMI / 4		86	HDMI/4	Press to choose HDMI source.		
		00		• Use as numeric keypad number "4".		
VGA/5		D0	VGA/5	Press to choose VGA source.		
		20	10,40	Use as numeric keypad number "5".		
Video / 6		D1	Video/6	Use as numeric keypad number "6".		
User1 / 7; User2 /	Q.	D2	User 1/7	• User defined keys. Please see page 43 to setup.		
User3 / 9	0,	D3	User 2/8	• Use as numeric keypad numbers "7", "8", and "9"		
			User 3/9	accordingly.		
Source		C3	Source	Press to select an input signal.		
Brightness mode / 0	*/*	96	*∕* / 0	Press to automatically adjust the picture brightness to give an optimum contrast performance.		
				Use as numeric keypad number "0".		
Re-sync (.4 Re-Sync		Re-Sync	Press to automatically synchronize the projector to the input source.			

IR remote control 2 codes



Кеу		Custom code		Data code	Printing- key	Description
		Byte 1	Byte 2	Byte 3	definition	
Power on	Ċ	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 2		32	CD	65	User2	User defined keys. Please see page 43 to setup.
User 3		32	CD	66	User3	10 to sotup.
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.
Aspect ratio	1/1	32	CD	64	Aspect ratio	Press to change aspect ratio of a displayed image.

Кеу		Custor	n code	Data code	Printing- key	Description
		Byte 1	Byte 2	Byte 3	definition	
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	▲	
Four direction		32	CD	10	•	Use \blacktriangle , \blacktriangleleft , \blacktriangleright , or \blacktriangledown to select items or
keys		32	CD	12		make adjustments to your selection.
		32	CD	14	▼	
Source	Ð	32	CD	18	Source	Press "Source" to select an input signal.
Enter key		32	CD	0F	-	Confirm your item selection.
Re-sync	\bigcirc	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 1 / MHL connector.
HDMI 2		32	CD	30	HDMI2	Press "HDMI2" to choose source from HDMI 2 connector.
VGA 1	(*************************************	32	CD	1B	VGA1	Press "VGA1" to choose source from VGA In connector.
VGA 2	000000	32	CD	1E	VGA2	No function
Video	\odot	32	CD	1C	Video	No function
YPbPr	000	32	CD	CD 17		No function

Troubleshooting

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

Image problems

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No image appears on-screen

- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- Ensure the pins of connectors are not crooked or broken.
- 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 pages *57-58*).
- 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
 - 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 \rightarrow 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 \rightarrow 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

Masaaa	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

Optical	Description					
Maximum resolution	1080p					
Notivo recolution	• 1080p					
Native resolution	• WXGA					
Lens	Manual zoom and manual focus					
Image size (diagonal)	• 1080p : 28.3" ~ 374" (optimized @82")					
inage size (diagonal)	 WXGA: 30.1" ~ 301" (optimized @60") 					
Projection distance	• 1080p: 1.0m ~ 10m (optimized @2.14m)					
	• WXGA: 1.0m ~ 7.7m (optimized @2.14m)					
Electrical	Description					
	• HDMI 1.4a					
	• HDMI 2.0b / MHL 2.2					
Inputs	• VGA In					
	Audio In 3.5mm					
	USB Type-A for power USB 5V/1.5A					
Outputs	Audio Out 3.5mm					
	Micro USB					
Control	• RS-232					
	RJ-45 (support web control)					
Color reproduction	1073.4 Million color					
Scan rate	Horizontal scan rate: 15.375~91.146 KHz					
	Vertical scan rate: 50~85 Hz (120Hz for 3D feature projector)					
Built-in speaker	Yes, 10W					
Power requirement	100 - 240V ±10%, AC 50/60Hz					
Input current	3.0A					
Mechanical	Description					
Installation orientation	Front, Rear, Ceiling, Rear-top					
Dimonsions	• 337mm (W) x 265mm (D) x 108mm (H) (without feet)					
Dimensions	• 337mm (W) x 265mm (D) x 122 5mm(H) (with feet)					

Weight< 5.0kg</th>Environmental conditionsOperating in 5~40°C , 10% to 85% humidity (non-condensing)

• 337mm (W) x 265mm (D) x 122.5mm(H) (with feet)

Note: All specifications are subject to change without notice.

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For service or support, please contact your local office.

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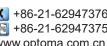
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