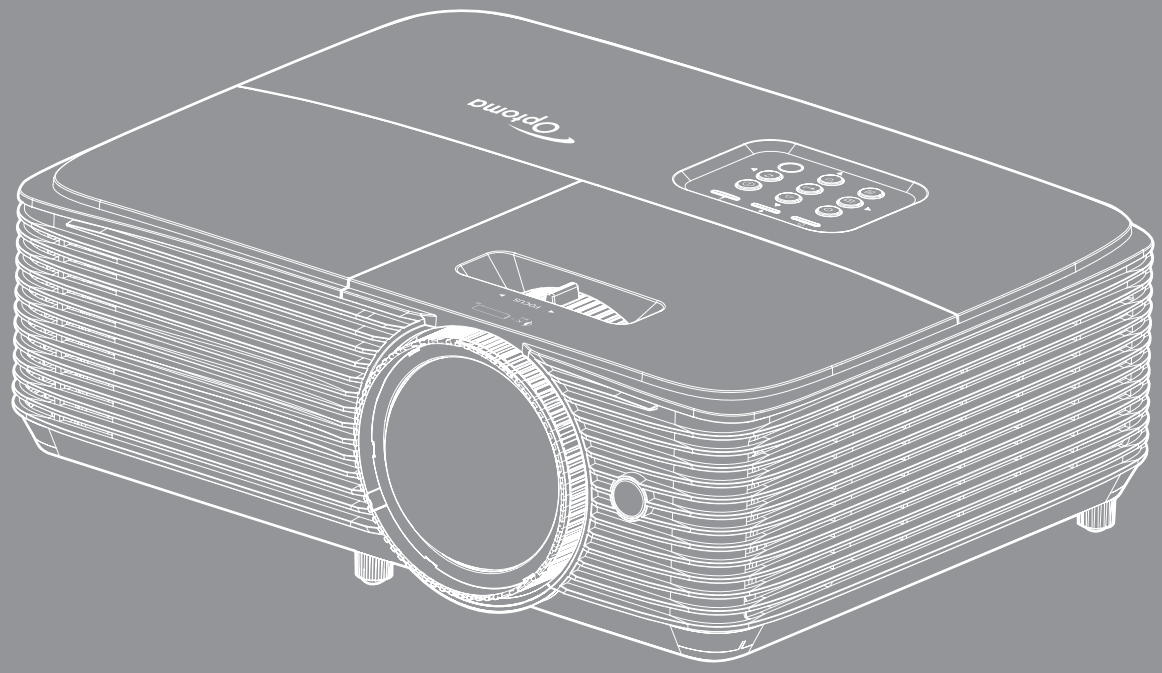
DLP® Projector



User manual

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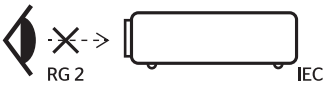
SAFETY

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

- Please do not open or disassemble the projector as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- See projector enclosure for safety related markings.
- The unit should only be repaired by appropriate service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look into straight into the projector lens during operation. The bright light may harm your eyes.
- When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages *56-57*.
- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Reset the "Lamp Reset" function from the on-screen display "Setup lamp settings" menu after replacing the lamp module.
- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- When the lamp is approaching to the end of its life time, the message "Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the unit.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Note: *When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 56-57.*

- 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.

3D Safety Information

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

Warning

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

Photosensitive Seizure Warning and Other Health Risks

- Some viewers may experience an epileptic seizure or stroke when exposed to certain flashing images or lights contained in certain Projector pictures or video games. If you suffer from, or have a family history of epilepsy or strokes, please consult with a medical specialist before using the 3D function.
- Even those without a personal or family history of epilepsy or stroke may have an undiagnosed condition that can cause photosensitive epileptic seizures.
- Pregnant women, the elderly, sufferers of serious medical conditions, those who are sleep deprived or under the influence of alcohol should avoid utilizing the unit's 3D functionality.

- If you experience any of the following symptoms, stop viewing 3D pictures immediately and consult a medical specialist: (1) altered vision; (2) light-headedness; (3) dizziness; (4) involuntary movements such as eye or muscle twitching; (5) confusion; (6) nausea; (7) loss of awareness; (8) convulsions; (9) cramps; and/ or (10) disorientation. Children and teenagers may be more likely than adults to experience these symptoms. Parents should monitor their children and ask whether they are experiencing these symptoms.
- Watching 3D projection may also cause motion sickness, perceptual after effects, disorientation, eye strain and decreased postural stability. It is recommended that users take frequent breaks to lessen the potential of these effects. If your eyes show signs of fatigue or dryness or if you have any of the above symptoms, immediately discontinue use of this device and do not resume using it for at least thirty minutes after the symptoms have subsided.
- Watching 3D projection while sitting too close to the screen for an extended period of time may damage your eyesight. The ideal viewing distance should be at least three times the screen height. It is recommended that the viewer's eyes are level with the screen.
- Watching 3D projection while wearing 3D glasses for an extended period of time may cause a headache or fatigue. If you experience a headache, fatigue or dizziness, stop viewing the 3D projection and rest.
- Do not use the 3D glasses for any other purpose than for watching 3D projection.
- Wearing the 3D glasses for any other purpose (as general spectacles, sunglasses, protective goggles, etc.) may be physically harmful to you and may weaken your eyesight.
- Viewing in 3D projection may cause disorientation for some viewers. Accordingly, DO NOT place your 3D PROJECTOR near open stairwells, cables, balconies, or other objects that can be tripped over, run into, knocked down, broken or fallen over.

Copyright

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Disclaimer

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

Trademark Recognition

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

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

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

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

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

FCC

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

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

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

Notice: Shielded cables

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

Caution

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

Operation Conditions

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

1. This device may not cause harmful interference and

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

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU countries

- EMC Directive 2014/30/EC (including amendments)
- Low Voltage Directive 2014/35/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

WEEE

Disposal instructions

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

INTRODUCTION

Package Overview

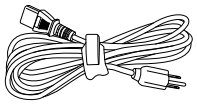
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

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

Standard accessories

Projector

Remote control *(3)



Power lead

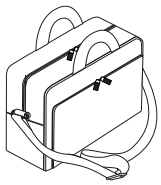
- ☑ CD User Manual *(1)
- ☑ Warranty Card *(2)*
- ☑ Basic User Manual

Documentation

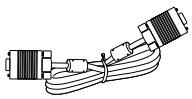
Note:

- *The remote control is shipped with the battery.*
- **(1) For European User Manual please visit www.optomaeurope.com.*
- **(2) For European warranty information please visit www.optomaeurope.com.*
- **(3) The actual remote control may vary depending on the region.*

Optional accessories



Carry bag



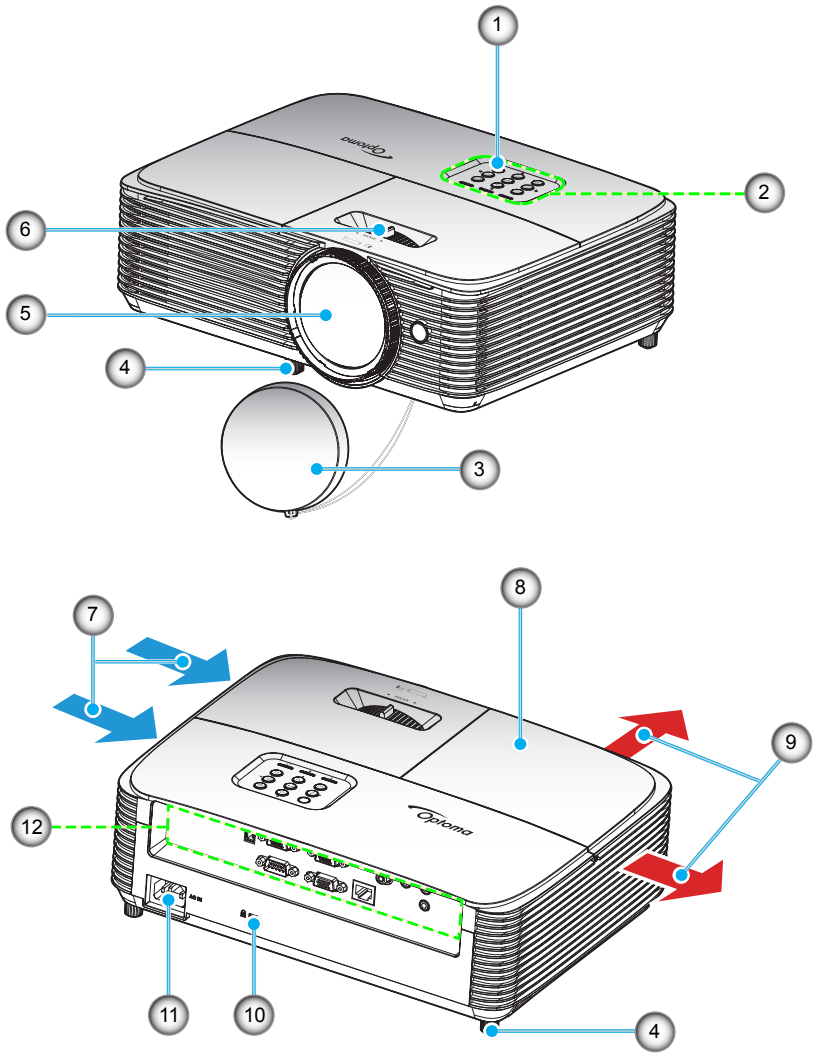
VGA cable

Lens cap

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

INTRODUCTION

Product Overview



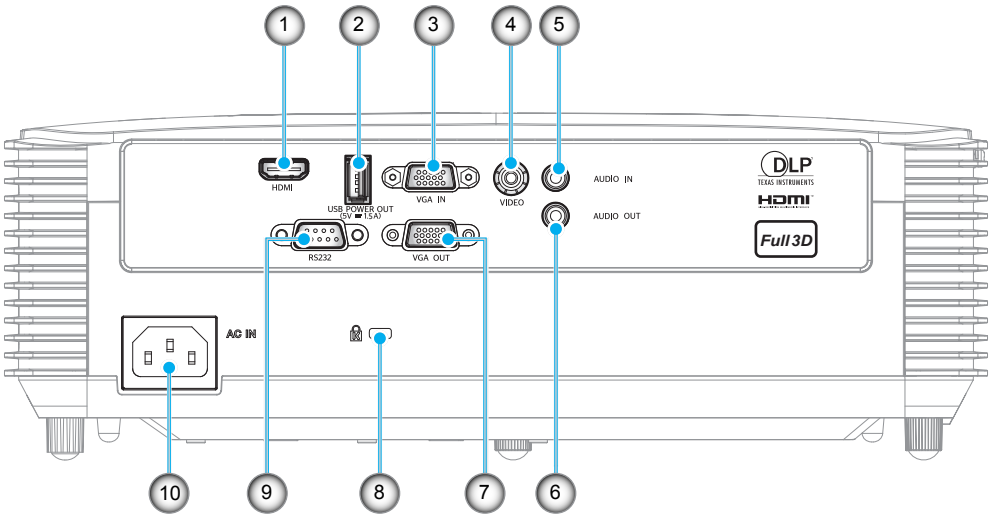
Note: *Keep a minimum distance of 20 cm between the "inlet" and "outlet" labels.*

No	Item	No	Item
1.	IR Receiver	7.	Ventilation (inlet)
2.	Keypad	8.	Lamp Cover
3.	Lens Cap	9.	Ventilation (outlet)
4.	Tilt-Adjustment Foot	10.	Kensington™ Lock Port
5.	Lens	11.	Power Socket
6.	Focus Lever	12.	Input / Output

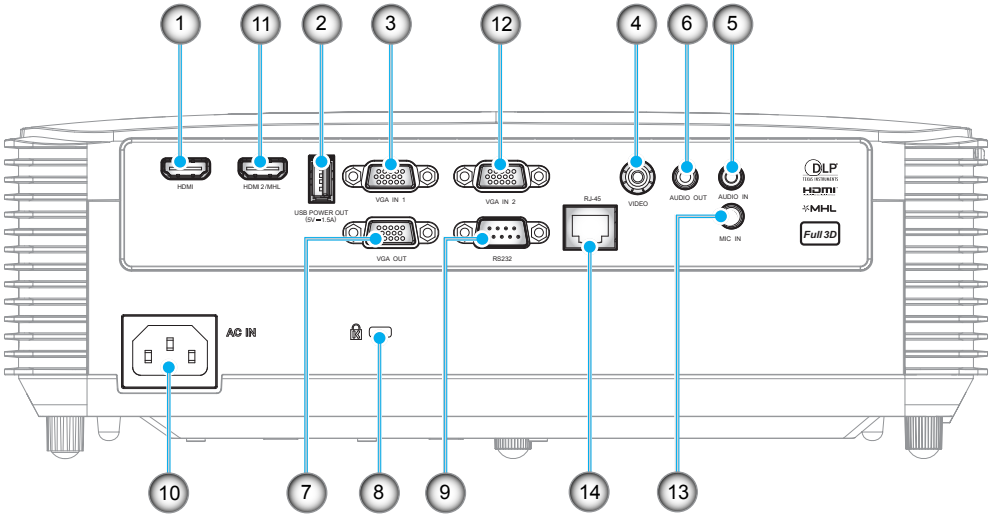
INTRODUCTION

Connections

Type 1 (8 IO)



Type 2 (12 IO)



INTRODUCTION

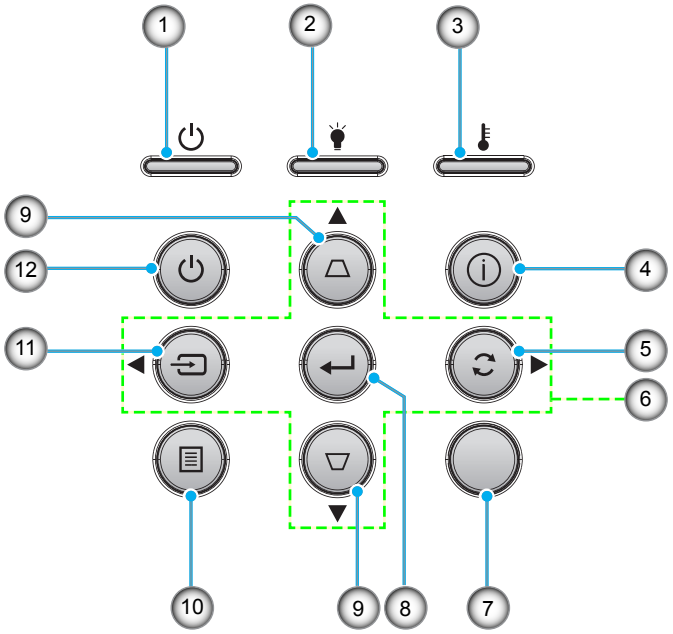
No	Item	Type 1 (8 IO)	Type 2 (12 IO)
1.	HDMI / HDMI 1 Connector	√	√
2.	USB Power Out (5V/1.5A) Connector / MOUSE / SERVICE Connector	√	√
3.	VGA IN / VGA IN 1 Connector	√	√
4.	Video Connector	√	√
5.	Audio In Connector	√	√
6.	Audio Out Connector	√	√
7.	VGA OUT Connector	√	√
8.	Kensington™ Lock Port	√	√
9.	RS232 Connector	√	√
10.	Power Socket	√	√
11.	HDMI 2 / MHL Connector	N/A	√
12.	VGA IN 2 Connector	N/A	√
13.	MIC IN Connector	N/A	√
14.	RJ-45 Connector	N/A	√
Note: *"√" means the item is supported, "N/A" means the item is not available.*			

Note:

- *Remote mouse requires special remote control.*
- *The I/Os depend on the projector you purchased, please check the physical product for reference.*

INTRODUCTION

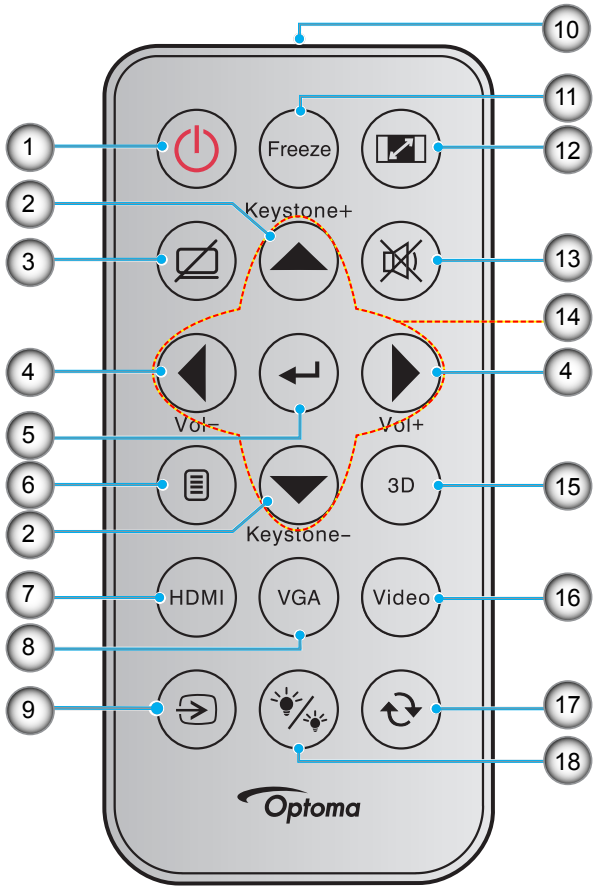
Keypad



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

INTRODUCTION

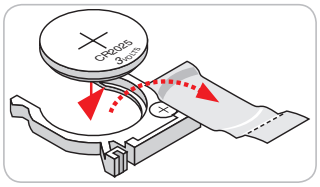
Remote control 1



No	Item	No	Item
1.	Power On / Off	10.	IR LED Indicator
2.	Keystone + / -	11.	Freeze
3.	AV Mute	12.	Aspect Ratio
4.	Volume - / +	13.	Mute
5.	Enter	14.	Four Directional Select Keys
6.	Menu	15.	3D
7.	HDMI	16.	Video
8.	VGA	17.	Resync
9.	Source	18.	Brightness Mode

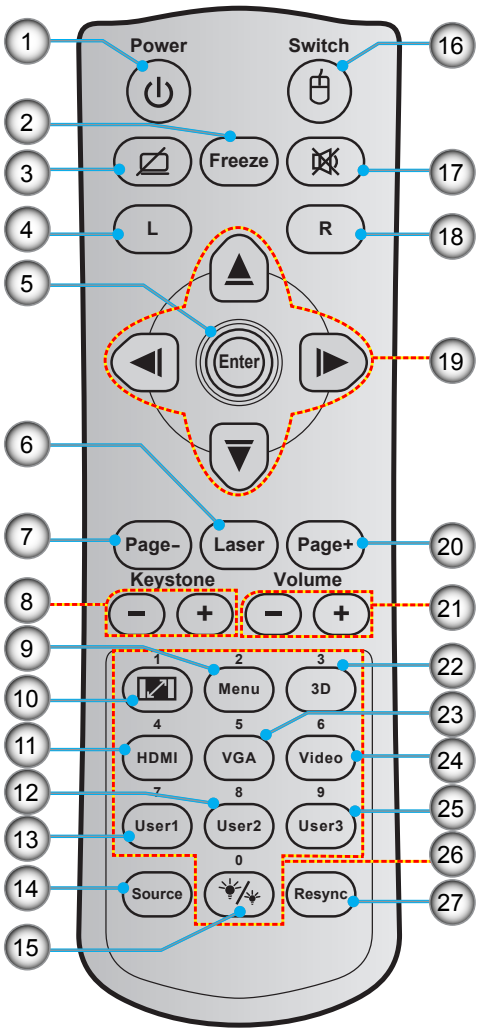
Note:

- *The actual remote control may vary depending on the region.*
- *Some keys may have no function for models that do not support these features.*
- *Before using the remote control for the first time, remove the transparent insulation tape. See page 21 for battery installation.*



INTRODUCTION

Remote control 2



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
11.	HDMI	25.	User 3
12.	User 2	26.	Numeric Keypad (0-9)
13.	User 1	27.	Resync
14.	Source		

Note:

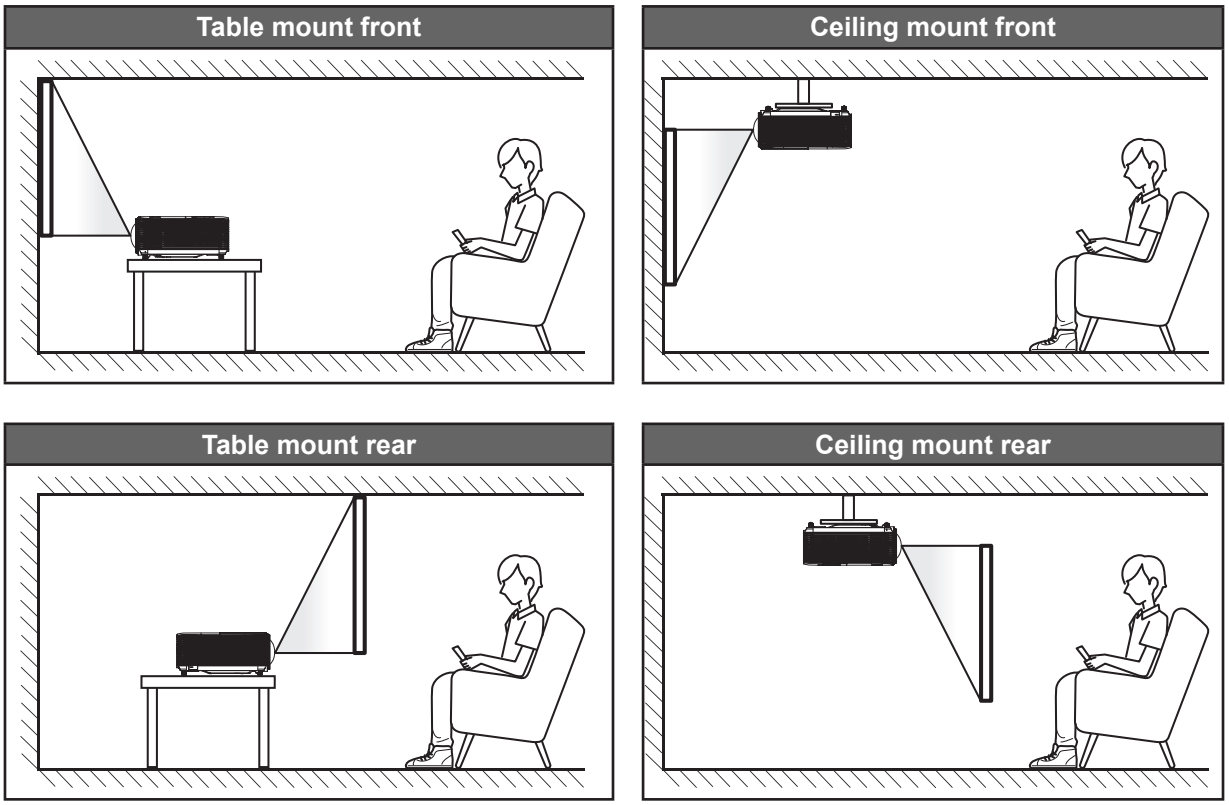
- *The actual remote control may vary depending on the region.*
- *Some keys may have no function for models that do not support these features.*

SETUP AND INSTALLATION

Installing the projector

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

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



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

- How to determine projector location for a given screen size, please refer to distance table on pages *61-62*.
- How to determine screen size for a given distance, please refer to distance table on pages *61-62*.

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

IMPORTANT!

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

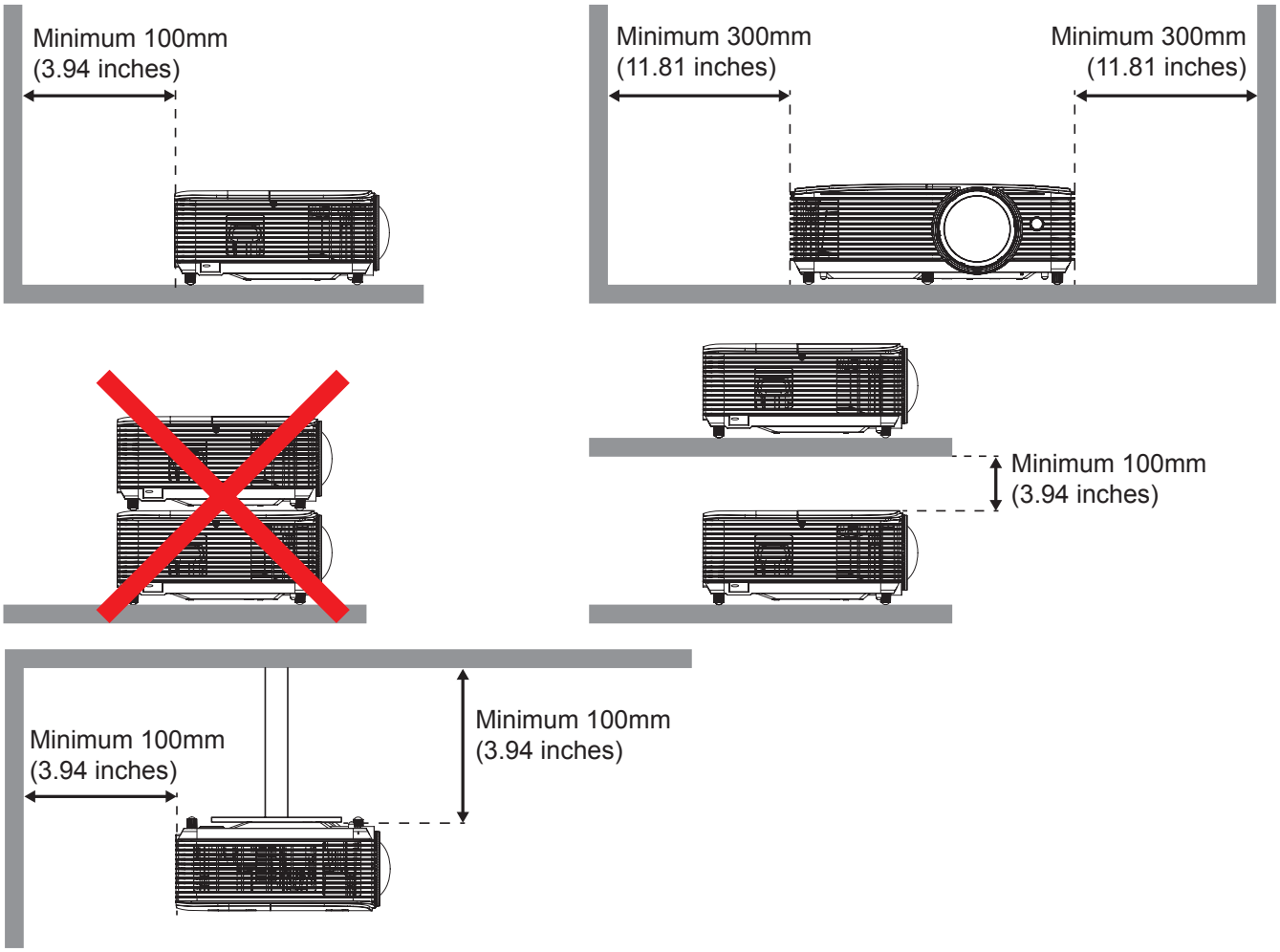
SETUP AND INSTALLATION

Projector installation notice

- Place the projector in a horizontal position.

  The tilt angle of the projector should not exceed 15 degrees, nor should the projector be installed in any way other than the desktop and ceiling mount, otherwise lamp life could decrease dramatically, and may lead to other **unpredictable damages**.

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

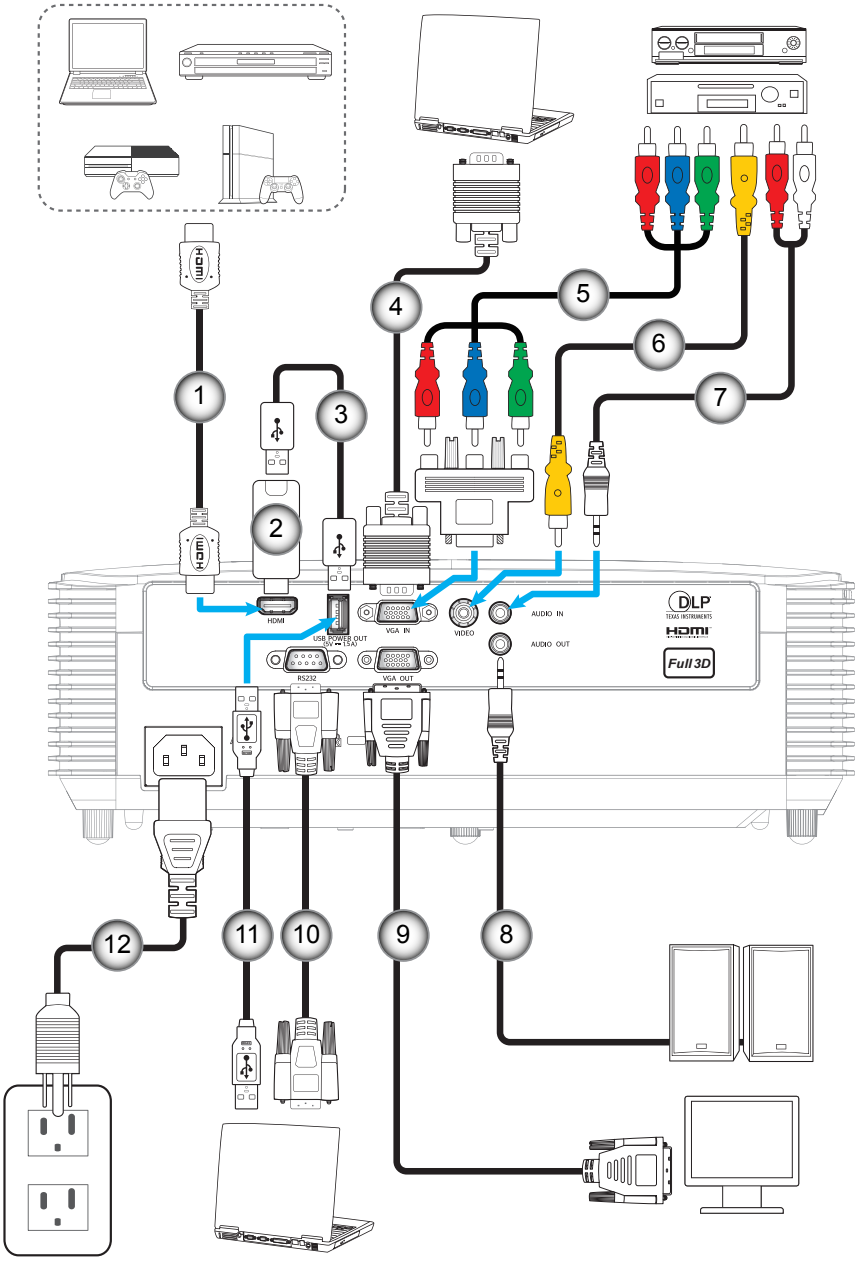


- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents 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.

SETUP AND INSTALLATION

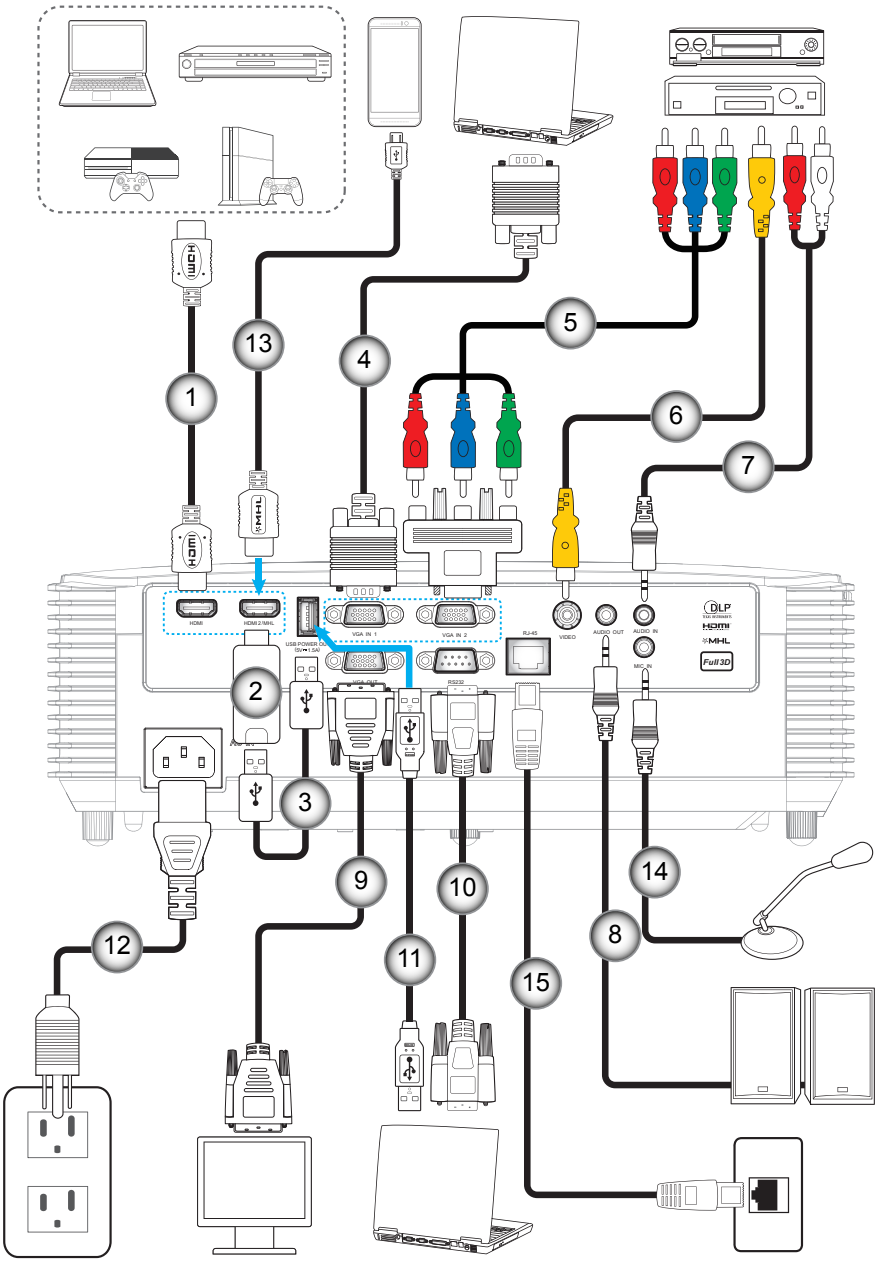
Connecting sources to the projector

Type 1 (8 IO)



SETUP AND INSTALLATION

Type 2 (12 IO)



SETUP AND INSTALLATION

No	Item	Type 1 (8 IO)	Type 2 (12 IO)
1.	HDMI Cable	√	√
2.	HDMI Stick	√	√
3.	USB Power Cable	√	√
4.	VGA In Cable	√	√
5.	RCA Component Cable	√	√
6.	Video Cable	√	√
7.	Audio In Cable	√	√
8.	Audio Out Cable	√	√
9.	VGA Out Cable	√	√
10.	RS232 Cable	√	√
11.	USB Cable	√	√
12.	Power Cord	√	√
13.	MHL Cable	N/A	√
14.	Microphone In Cable	N/A	√
15.	RJ-45 Cable	N/A	√

Note: *"√" means the item is supported, "N/A" means the item is not available.*

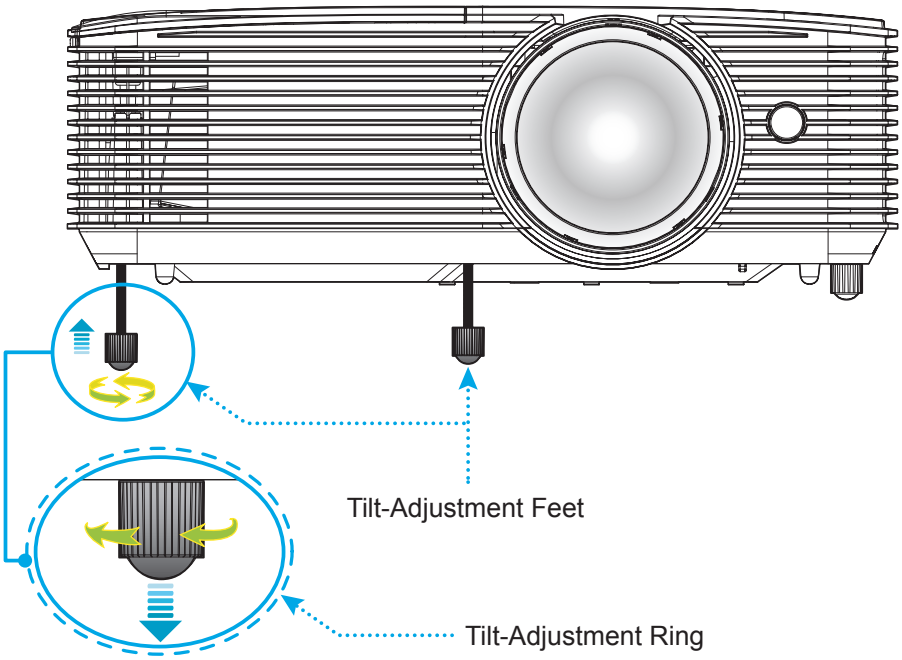
SETUP AND INSTALLATION

Adjusting the projector image

Image height

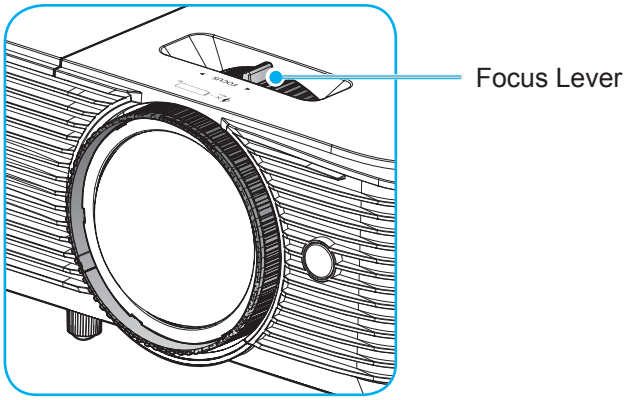
The projector is equipped with elevator feet for adjusting the image height.

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



Focus

To adjust the focus, turn the focus lever clockwise or counterclockwise until the image is sharp and legible.

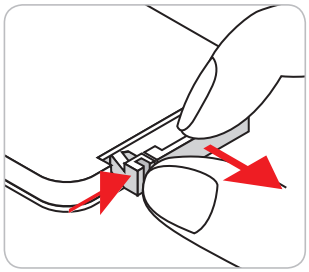


Note: *The projector will focus at a distance of 0.4m to 3.1m.*

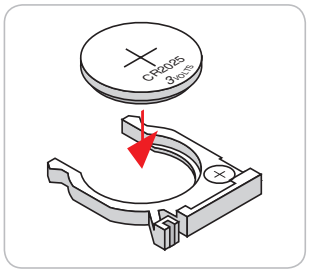
SETUP AND INSTALLATION

Installing / replacing the batteries

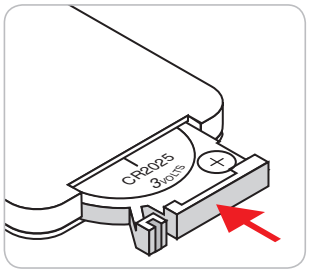
1. Press firmly and slide the battery cover off.



2. Install new battery into the compartment. Remove the old battery and install new one (CR2025). Ensure that the side with a “+” is facing up.



3. Put the cover back.



CAUTION: To ensure safe operation, please observe the following precautions:

- Use CR2025 type battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced by an incorrect type.
- Dispose of used battery according to the instructions.

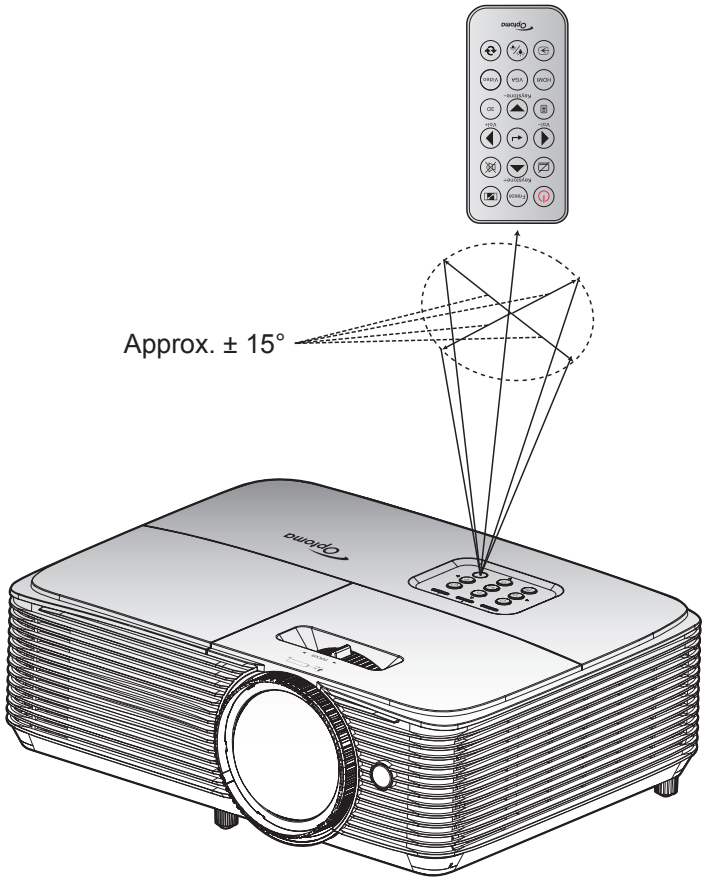
SETUP AND INSTALLATION

Effective range

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

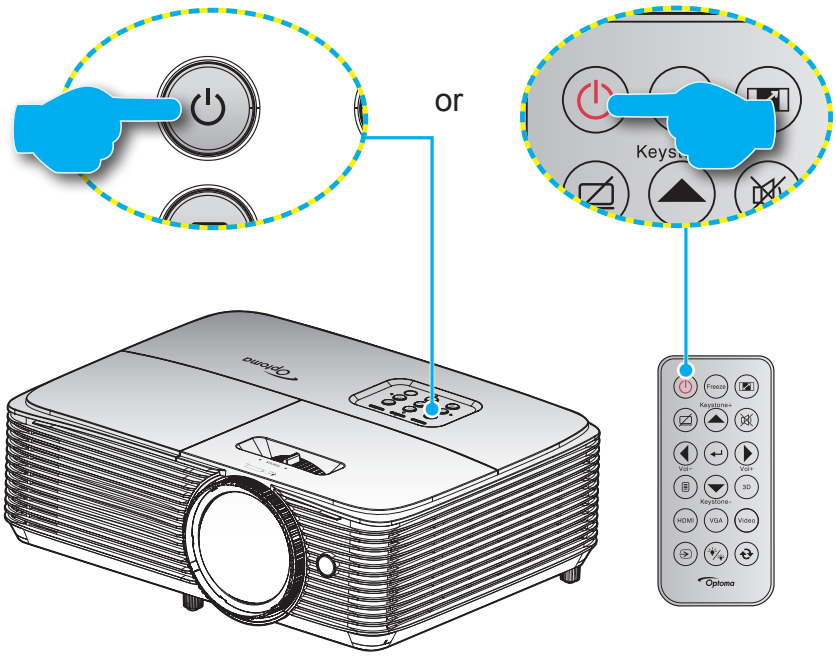
Note: *When pointing the remote control directly (0 degrees angle) on the IR sensor, the distance between the remote control and the sensor should not be longer than 8 meters (~ 26 feet).*

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.
- Please keep the remote controller away from fluorescent lamps for over 2 meters or the remote controller might become malfunction.
- If the remote control is close to Inverter-Type fluorescent lamps, it might become ineffective from time to time.
- If the remote control and the projector are within a very short distance, the remote control might become ineffective.
- When you aim at the screen, the effective distance is less than 6 meters from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.



USING THE PROJECTOR

Powering on / off the projector



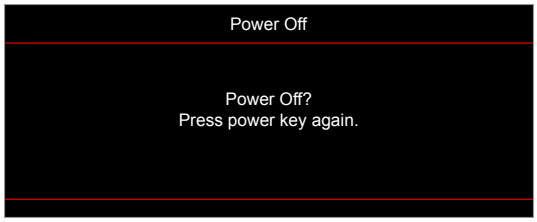
Powering on

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

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

Powering off

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



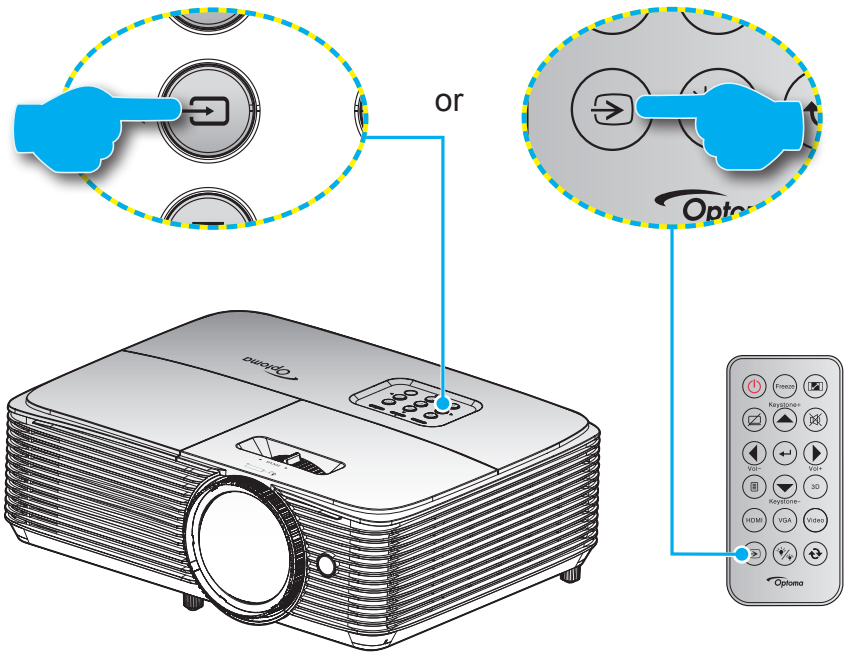
3. Press the "⏻" again to confirm, otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/Standby LED will flash blue. When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

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

USING THE PROJECTOR

Selecting an input source

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



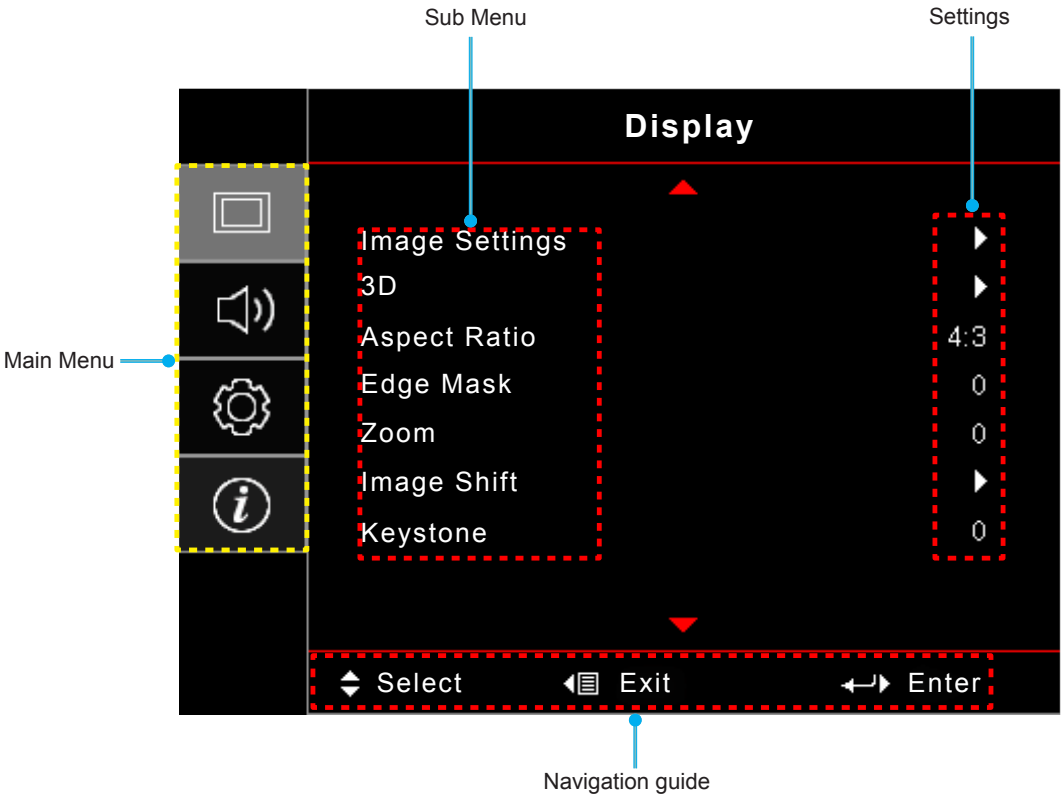
USING THE PROJECTOR

Menu navigation and features

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

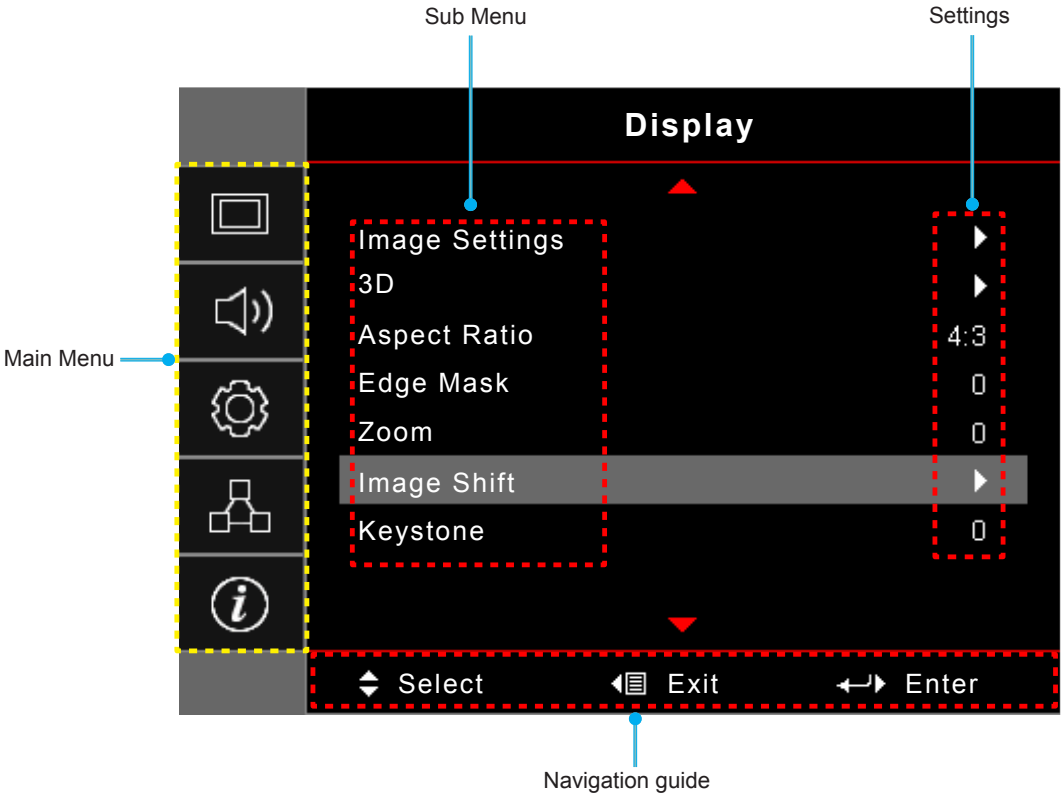
1. To open the OSD menu, press on the remote control or the projector keyboard.
2. When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection on a particular page, press ↵ or ▶ key to enter sub menu.
3. Use ◀▶ keys to select the desired item in the sub menu and then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

Type 1 (8 IO)



USING THE PROJECTOR

Type 2 (12 IO)



USING THE PROJECTOR

OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Display Mode			Presentation
					Bright
					Cinema
					Game
					sRGB
					DICOM SIM.
					User
					3D
		Wall Color			Off [Default]
					Blackboard
					Light Yellow
					Light Green
					Light Blue
					Pink
					Gray
		Brightness			-50~50
		Contrast			-50~50
		Sharpness			1~15
		Color			-50~50
		Tint			-50~50
		Gamma	Film		
			Video		
			Graphics		
			Standard(2.2)		
			1.8		
			2.0		
			2.4		
		Color Settings	BrilliantColor™		1~10
			Color Temperature		Warm
					Medium
					Cool
			Color Matching	Color	R [Default]
					G
					B
					C
					Y
					M
					W
				Hue	-50~50 [Default: 0]
				Saturation	-50~50 [Default: 0]
				Gain	-50~50 [Default: 0]

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	Image Settings	Color Settings	Color Matching	Reset	Cancel [Default]
					Yes
				Exit	
			RGB Gain/Bias	Red Gain	-50~50
				Green Gain	-50~50
				Blue Gain	-50~50
				Red Bias	-50~50
				Green Bias	-50~50
				Blue Bias	-50~50
				Reset	Cancel [Default]
					Yes
				Exit	
			Color Space [Not HDMI Input]		Auto [Default]
					RGB
					YUV
			Color Space [HDMI Input]		Auto [Default]
					RGB(0~255)
					RGB(16~235)
					YUV
			White Level		0~31 (depends on signal)
			Black Level		-5~5 (depends on signal)
			IRE		0
					7.5
		Signal	Automatic		Off
					On [Default]
			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]
			V. Position		-5~5 (depends on signal) [Default: 0]
		Brightness Mode			Bright
					Eco.
					Dynamic
					Eco+
		Reset			
	3D	3D Mode			Off [Default]
					DLP-Link
		3D → 2D			3D [Default]
					L
					R

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Display	3D	3D Format			Auto [Default]
					SBS
					Top and Bottom
					Frame Sequential
		3D Sync Invert			On
					Off [Default]
	Aspect Ratio				4:3
					16:9
					16:10 [WXGA model]
					LBX [except XGA model]
					Native
					Auto
	Edge Mask				0~10 [Default: 0]
	Zoom				-5~25 [Default: 0]
	Image shift	H			-50~50 [Default: 0]
		V			-50~50 [Default: 0]
	Keystone				-20~20 [Default: 0]
Audio	Mute				Off [Default]
					On
	Volume				0-10 [Default: 5]
	Audio Input/Mic				Audio Input [Default]
					Mic
Setup	Projection				Front [Default]
					Rear
					Ceiling-top
					Rear-top
	Screen Type [WXGA model]				16:9
					16:10 [Default]
	Lamp Settings	Lamp Reminder			Off
					On [Default]
		Lamp Reset			Cancel [Default]
					Yes
	Filter Settings	Optional Filter Installed			Yes
					No
		Filter Usage Hours			(Read only)
		Filter Reminder			Off
					300hr
					500hr [Default]
					800hr
					1000hr

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Filter Settings	Filter Reset			Cancel [Default]
					Yes
	Power Settings	Direct Power On			Off [Default]
					On
		Signal Power On			Off [Default]
					On
		Auto Power Off (min)			0~180 (5 min increments) [Default: 20]
		Sleep Timer (min)			0~990 (30 min increments) [Default: 0]
			Always On		No [Default]
					Yes
		Quick Resume			Off [Default]
					On
		Power Mode (Standby)			Active
					Eco [Default]
		LAN (Standby)			Off [Default]
					On
		VGA Out (Standby)			Off [Default]
					On
		USB Power			Off
					On
					Auto [Default]
	Security	Security			Off
					On
		Security Timer		Month	
				Day	
				Hour	
		Change Password			
	HDMI Link Settings	HDMI Link			Off
					On
		Inclusive of TV			No
					Yes
		Power On Link			Mutual
					PJ → Device
					Device → PJ
		Power Off Link			Off
					On
	Test Pattern				Green Grid
					Magenta Grid
					White Grid
					White
					Off

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Remote Settings [depends on remote]	IR Function			On
					Off
		User1 [depends on model] [(*) for Type 2 (12 IO) only]			HDMI 2*
					VGA 2*
					Test Pattern
					LAN*
					Brightness
					Contrast
					Sleep Timer [Default]
					Color Matching
					Color Temperature
					Gamma
					Projection
					Lamp Settings
					Zoom
					Freeze
					MHL*
		User2 [depends on model] [(*) for Type 2 (12 IO) only]			HDMI 2*
					VGA 2*
					Test Pattern
					LAN*
					Brightness
					Contrast
					Sleep Timer
					Color Matching [Default]
					Color Temperature
					Gamma
					Projection
					Lamp Settings
					Zoom
					Freeze
					MHL*
		User3 [depends on model] [(*) for Type 2 (12 IO) only]			HDMI 2*
					VGA 2*
					Test Pattern
					LAN*
					Brightness
					Contrast
					Sleep Timer
					Color Matching
					Color Temperature [Default]
					Gamma

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Remote Settings [depends on remote]	User3 [depends on model] [(*) for Type 2 (12 IO) only]			Projection
					Lamp Settings
					Zoom
					Freeze
					MHL*
	Projector ID				0~99
	Options	Language			English [Default]
					Deutsch
					Français
					Italiano
					Español
					Português
					Polski
					Nederlands
					Svenska
					Norsk/Dansk
					Suomi
					ελληνικά
					繁體中文
					简体中文
					日本語
					한국어
					Русский
					Magyar
					Čeština
					عـربي
					ไทย
					Türkçe
					فارسـی
					Tiếng Việt
					Bahasa Indonesia
					Română
					Slovenčina
		Closed Captioning			CC1
					CC2
					Off [Default]
		Menu Settings	Menu Location		Top left
					Top right
					Center [Default]
					Bottom left
					Bottom right

USING THE PROJECTOR

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Setup	Options	Menu Settings	Menu Timer		Off
					5sec
					10sec [Default]
		Auto Source			Off [Default]
					On
		Input Source [(*) for Type 2 (12 IO) only]			HDMI or HDMI1*
					HDMI2/MHL*
					VGA or VGA1*
					VGA2*
					Video
		Input Name [(*) for Type 2 (12 IO) only]	HDMI or HDMI1*		Default [Default]
					Custom
			HDMI2/MHL*		Default [Default]
					Custom
			VGA or VGA1*		Default [Default]
					Custom
			VGA2*		Default [Default]
					Custom
			Video		Default [Default]
					Custom
		High Altitude			Off [Default]
					On
		Display Mode Lock			Off [Default]
					On
		Keypad Lock			Off [Default]
					On
		Information Hide			Off [Default]
					On
		Logo			Default [Default]
					Neutral
		Background Color			None [Default: for Video/Pro-AV]
					Blue [Default for Data model]
					Red
					Green
					Grey
					Logo
	Reset	Reset OSD			Cancel [Default]
					Yes
		Reset to Default			Cancel [Default]
					Yes

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Network (Type 2 (12 IO) only)	LAN	Network Status			(read only)
		MAC Address			(read only)
		DHCP			Off [Default]
					On
		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	Crestron			Off
					On [Default] **Note:** *Port 41794.*
		Extron			Off
					On [Default] **Note:** *Port 2023.*
		PJ Link			Off
					On [Default] **Note:** *Port 4352*
		AMX Device Discovery			Off
					On [Default] **Note:** *Port 9131*
		Telnet			Off
					On [Default] **Note:** *Port 23*
		HTTP			Off
					On [Default] **Note:** *Port 80*
Info	Regulatory				
	Serial Number				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
	Power mode (Standby)				
	Lamp Hours	Bright			0 hr
		Eco.			0 hr
		Dynamic			0 hr
		Eco+			0 hr
		Total			
	Network Status (Type 2 (12 IO) only)				
	IP Address (Type 2 (12 IO) only)				
	Projector ID				00~99
	Filter Usage Hours				

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
Info	Brightness Mode				
	FW Version	System			
		LAN (Type 2 (12 IO) only)			
		MCU			

Note: *The available menu options vary depending on the model type.*

USING THE PROJECTOR

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 PowerPoint presentations when the projector is connected to the PC.
- **Bright**: Maximum brightness from PC input.
- **Cinema**: Select this mode for home theater.
- **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 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.

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**: For specific PC / Photo source.

USING THE PROJECTOR

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

- **Color Space (non-HDMI input only)**: Select an appropriate color matrix type from the following: AUTO, RGB, or YUV.
- **Color Space (HDMI input only)**: select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.
- **White Level:** Allow user to adjust White Level when inputting Video signals.
  Note: *White level can only be adjusted for Video input source.*
- **Black Level:** Allow user to adjust Black Level when inputting Video signals.
  Note: *Black level can only be adjusted for Video input source.*
- **IRE:** Allow user to adjust IRE value when inputting Video signals.
  Note:
  - *IRE is only available with NTSC video format.*
  - *IRE can only be adjusted for Video input sources.*

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: *Signal can only be adjusted for RGB/Component input sources.*

Brightness Mode

Adjust the brightness mode settings for lamp-based projectors.

- **Bright**: Choose "Bright" to increase the brightness.
- **Eco.**: Choose "Eco." to dim the projector lamp which will lower power consumption and extend the lamp life.
- **Dynamic**: Choose "Dynamic" to dim the lamp power which will be based on brightness level of the content and adjust lamp power consumption between 100% and 35% dynamically. The lamp life will be extended.
- **Eco+**: When Eco+ mode is activated, the brightness level of the content is automatically detected to significantly reduced lamp power consumption (up to 83%) during periods of inactivity.

Reset

Return the factory default settings for color settings.

Display 3D menu

3D Mode

Use this option to disable the 3D function or select the appropriate the 3D function.

- **Off**: Select "Off" to turn off 3D mode.
- **DLP-Link**: Select to use optimized settings for DLP 3D Glasses.

3D → 2D

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

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

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.

3D Sync Invert

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

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

WXGA scaling table (screen type 16:10):

Note:

- *Supported screen type 16:9 (1280x720), 16:10 (1280x800).*
- *When screen type is 16:9 there is no 16x10 format in this condition.*
- *When screen type is 16:10 there is no 16x9 format in this condition.*
- *If user change to auto, will auto change the display mode at same time.*

16 : 10 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1066x800.				
16x10	Scale to 1280x800.				
LBX	Scale to 1280x960, then get the central 1280x800 image to display.				
Native mode	1:1 mapping centered.		1:1 mapping display 1280x800.	1280x720 centered.	1:1 mapping centered.
Auto	-Input source will be fit into 1280x800 display area and be kept its original aspect ratio. -If source is 4:3, auto resize to 1066x800. -If source is 16:9 auto resize to 1280x720. -If source is 15:9 auto resize to 1280x768. -If source is 16:10 auto resize to 1280 x 800.				

USING THE PROJECTOR

WXGA auto mapping rule (screen type 16:10):

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

WXGA scaling table (screen type 16:9):

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 960x720.				
16x9	Scale to 1280x720.				
LBX	Scale to 1280x960, then get the central 1280x720 image to display.				
Native mode	1:1 mapping centered.		1:1 mapping display 1280x720.	1280x720 centered.	1:1 mapping centered.
Auto	-If this format is select, Screen type will auto become 16:9 (1280x720). -If source is 4:3, auto resize to 960x720. -If source is 16:9 auto resize to 1280x720. -If source is 15:9 auto resize to 1200x720. -If source is 16:10 auto resize to 1152x720.				

WXGA auto mapping rule (screen type 16:9):

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

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1280	720
HDTV	1280	720	1280	720
	1920	1080	1280	720

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.			

XGA auto mapping rule (screen type 16:9):

Auto	Input resolution		Auto/Scale	
	H-resolution	V-resolution	1024	768
4:3	640	480	1024	768
	800	600	1024	768
	1024	768	1024	768
	1600	1200	1024	768
Wide Laptop	1280	720	1024	576
	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.

Display image shift menu

Image Shift

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

USING THE PROJECTOR

Display keystone menu

Keystone

Adjust the image distortion caused by tilting the projector.

Audio menu

Audio mute menu

Mute

Use this option to temporarily turn off the sound.

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

Note:

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

Audio volume menu

Volume

Adjust the audio volume level.

Audio audio input/mic menu

Audio Input/Mic

Configure the audio and microphone channels switching function.

- **Audio Input:** Audio input works for HDMI/VGA/Video input source.
- **Mic:** Only the microphone audio input is active.

USING THE PROJECTOR

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 lamp settings menu

Lamp Reminder

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

Lamp Reset

Resets the lamp hour counter after replacing the lamp.

Setup filter settings menu

Optional Filter Installed

Set the warning message setting.

- **Yes:** Display warning message after 500 hours of use.

Note: *"Filter Usage Hours / Filter Reminder / Filter Reset" will only appear when "Optional Filter Installed" is "Yes".*

- **No:** Turn off warning message.

Filter Usage Hours

Display the filter time.

Filter Reminder

Choose this function to show or hide the warning message when the changing filter message is displayed. The available options include Off, 300hr, 500hr, 800hr, and 1000hr.

Filter Reset

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

Setup power settings menu

Direct Power On

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

Signal Power On

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

Note:

- *If the "Signal Power On" option is turned "On", the power consumption of the projector in standby mode will be over 3W.*
- *Due to the ErP directive, this feature is not available on models found in EMEA.*

USING THE PROJECTOR

Auto Power Off (min.)

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

Sleep Timer (min.)

Configure the sleep timer.

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

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

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

Quick Resume

Set the quick resume setting.

- **On:** If the projector is accidentally turned off, this feature allows the projector to be instantly powered on again, if selected within a period of 100 seconds.
- **Off:** The fan will start cooling the system after 10 seconds when user turns off the projector.

Power Mode (Standby)

Set the power mode setting.

- **Active:** Choose “Active” to return to normal standby (LAN on, VGA OUT off).
- **Eco:** Choose “Eco.” to save power dissipation further < 0.5W.

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

LAN (Standby)

Enable/Disable the LAN function when the projector is in standby mode.

VGA Out (Standby)

Enable/Disable the VGA Out function when the projector is in standby mode.

USB Power

Set the USB power settings.

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

USING THE PROJECTOR

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.

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.

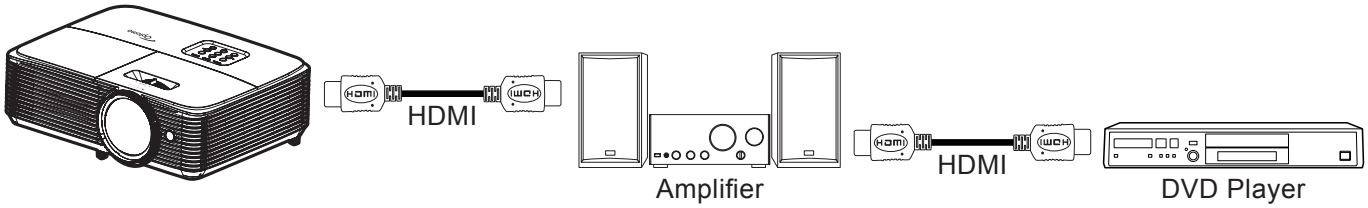
Change Password

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.

USING THE PROJECTOR

Setup test pattern menu

Test Pattern

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

Setup remote settings menu

IR Function

Set the IR function setting.

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

User1/ User2/ User3

Assign the default function for User1, User2, or User3 between HDMI 2, VGA 2, test pattern, LAN, brightness, contrast, sleep timer, color matching, color temperature, gamma, projection, lamp settings, zoom, freeze, and MHL.

Note: *The available menu options vary depending on the model type.*

Setup projector ID menu

Projector ID

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

Setup options menu

Language

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

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”.

Note: *Closed Captioning is only available for Video NTSC.*

Menu Settings

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

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

Auto Source

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

Input Source

Select the input source between HDMI1, HDMI2/MHL, VGA1, VGA2, and Video.

Note: *The available menu options vary depending on the model type.*

Input Name

Use to rename the input function for easier identification. The available options include HDMI1, HDMI2/MHL, VGA1, VGA2, and Video.

Note: *The available menu options vary depending on the model type.*

High Altitude

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

Display Mode Lock

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

Keypad Lock

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

Information Hide

Enable this function to hide the information message.

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

Logo

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

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

Background Color

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

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

Setup reset menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for Setup menu settings.

USING THE PROJECTOR

Network menu

Note: *This menu is only applicable for Type 2 (12 I/O) model.*

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.

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

Note: *Exiting OSD will automatically apply the entered values.*

IP Address

Display the IP address.

Subnet Mask

Display subnet mask number.

Gateway

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

DNS

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.
2. 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.

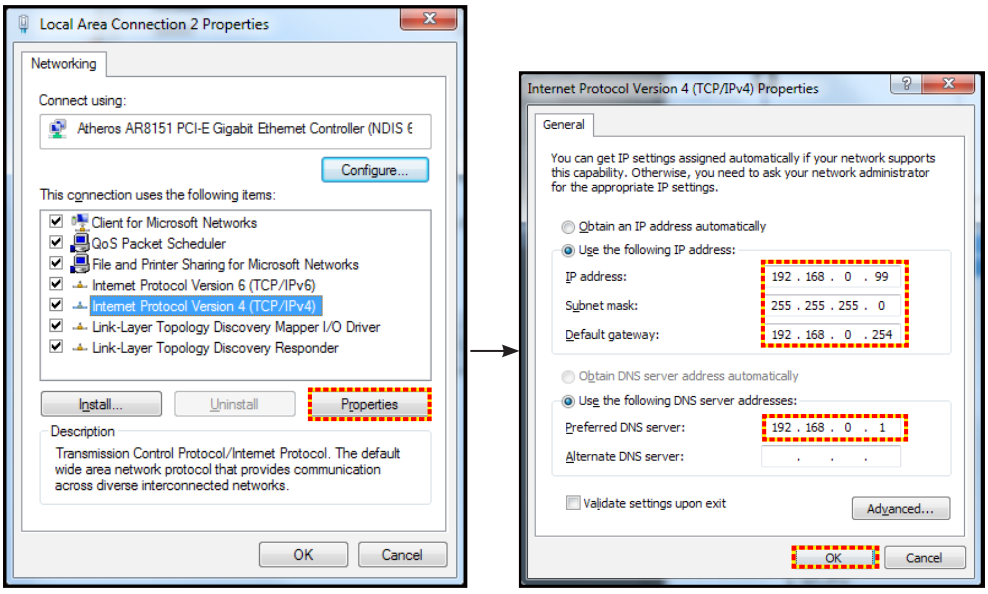
Note:

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

USING THE PROJECTOR

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 ***Network and Sharing Center*** page on your PC, and assign the identical network parameters to your PC as set on projector. Click “OK” to save the parameters.



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.

Reset

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).

PJ Link

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

AMX Device Discovery

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

Telnet

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

HTTP

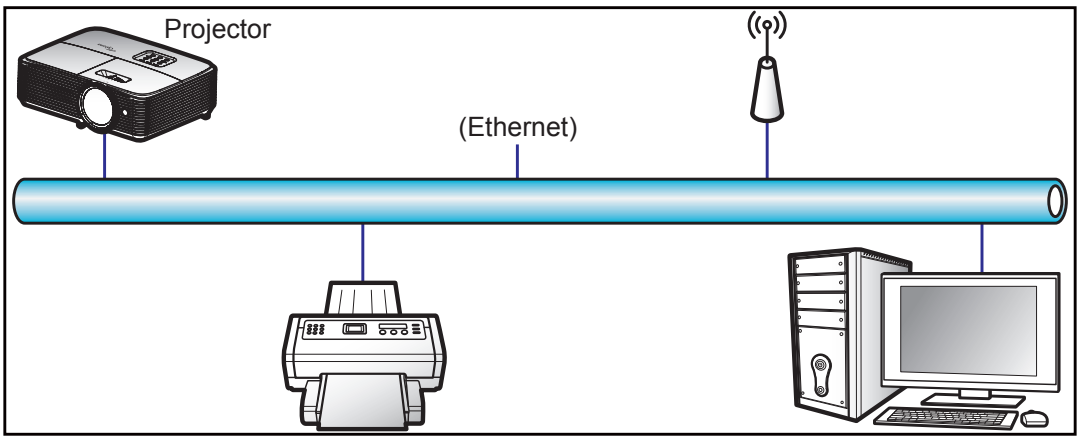
Use this function to select the network function (port: 80).

USING THE PROJECTOR

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).

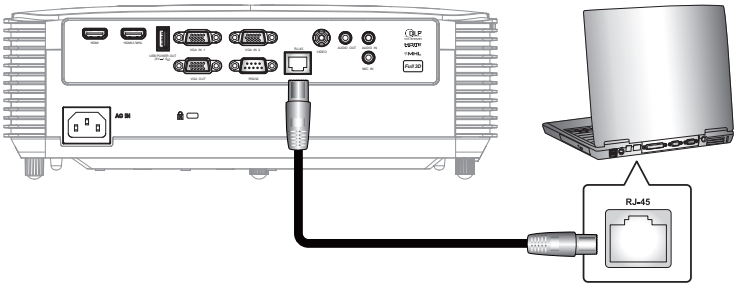
http://pjlink.jbmia.or.jp/english/

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.

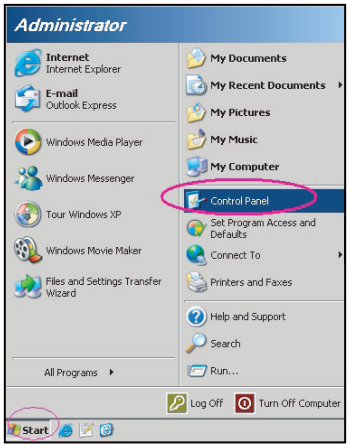
USING THE PROJECTOR

LAN RJ45

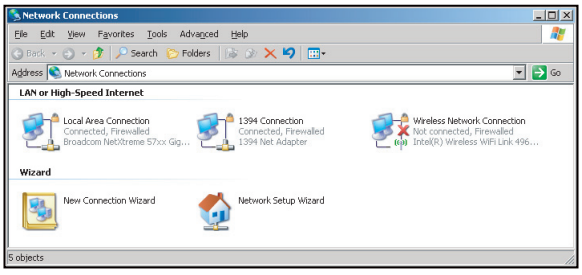
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (laptop).



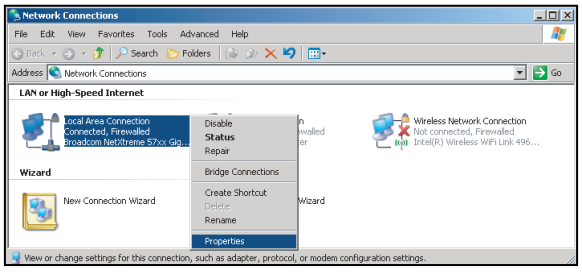
2. On the PC (Laptop), select **Start** > **Control Panel** > **Network Connections**.



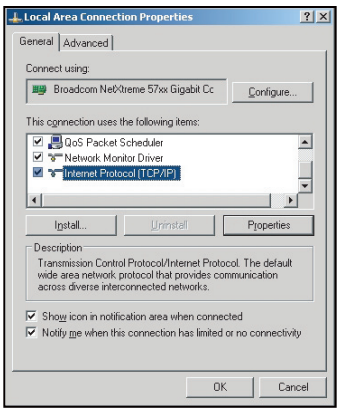
3. Right-click on the L**ocal Area Connection**, and select **Property**.



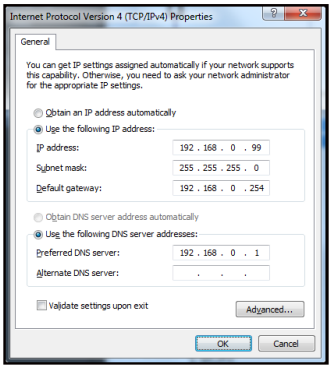
4. In the **Properties** window, select the **General tab**, and select **Internet Protocol (TCP / IP)**.



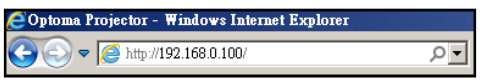
5. Click “Properties”.



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



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: 192.168.0.1
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.

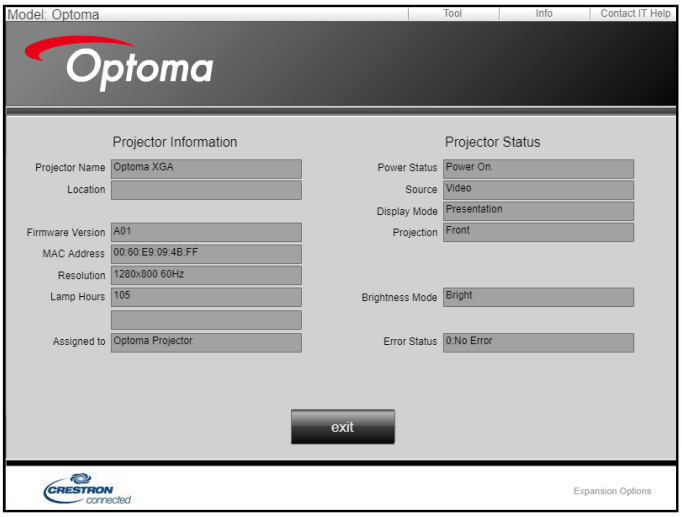


13. Press “Enter”.

USING THE PROJECTOR

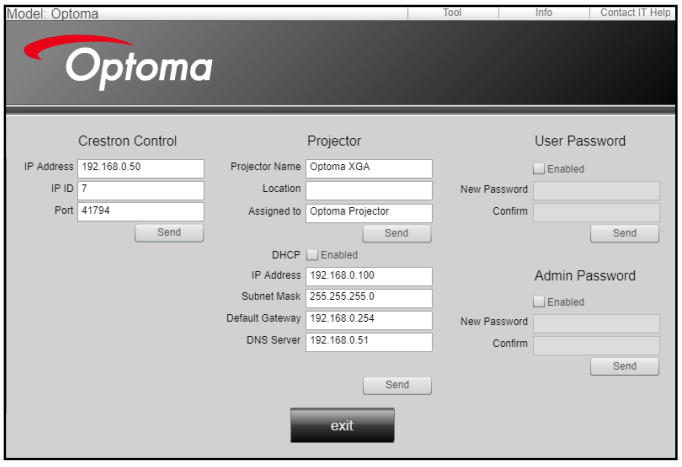
The projector is setup for remote management. The LAN / RJ45 function displays as follows:

Information page



Main page

Tool page



Contact IT helpdesk

USING THE PROJECTOR

RS232 by Telnet Function

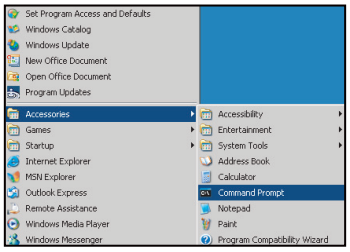
There is alternative RS232 command control way, in projector so called “RS232 by TELNET” for LAN / RJ45 interface.

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**.



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).

USING THE PROJECTOR

Info menu

Info menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Resolution
- Refresh Rate
- Display Mode
- Power Mode (Standby)
- Lamp Hours
- Network Status (*)
- IP Address (*)
- Projector ID
- Filter Usage Hours
- Brightness Mode
- FW Version

Note: *(*) The “Network Status” and “IP Address” options are only applicable for Type 2 (12 I/O) model.*

MAINTENANCE

Replacing the lamp

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

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

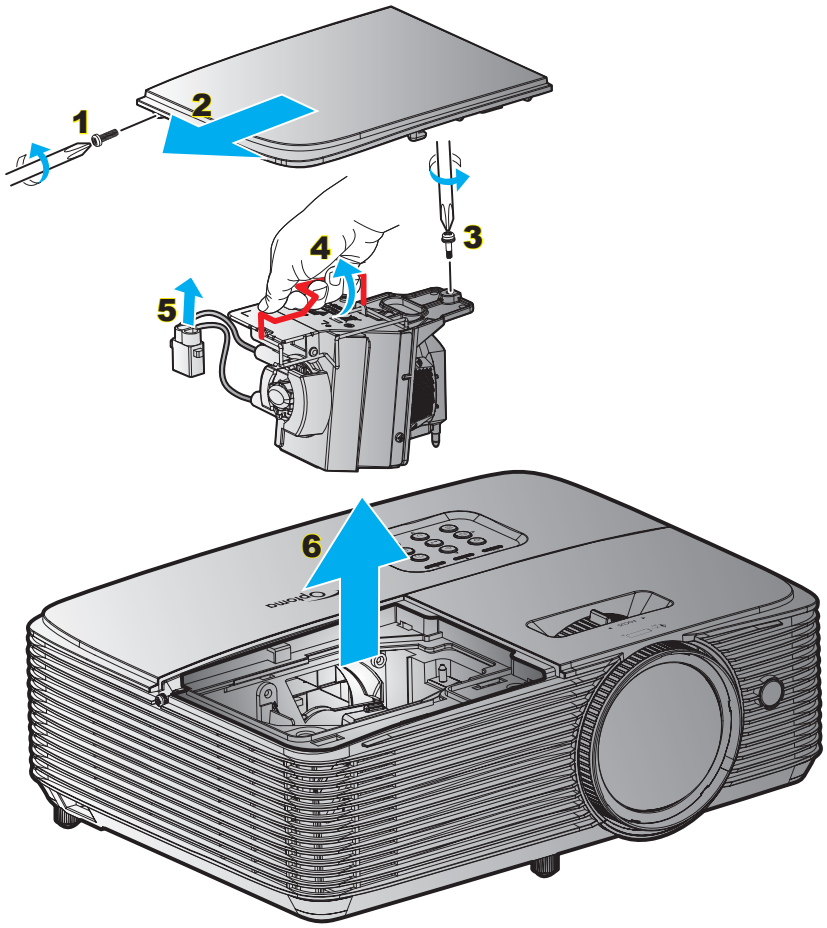
Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. Caution must be used to prevent any loose parts from falling out of projector.

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

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

MAINTENANCE

Replacing the lamp (continued)



Procedure:

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

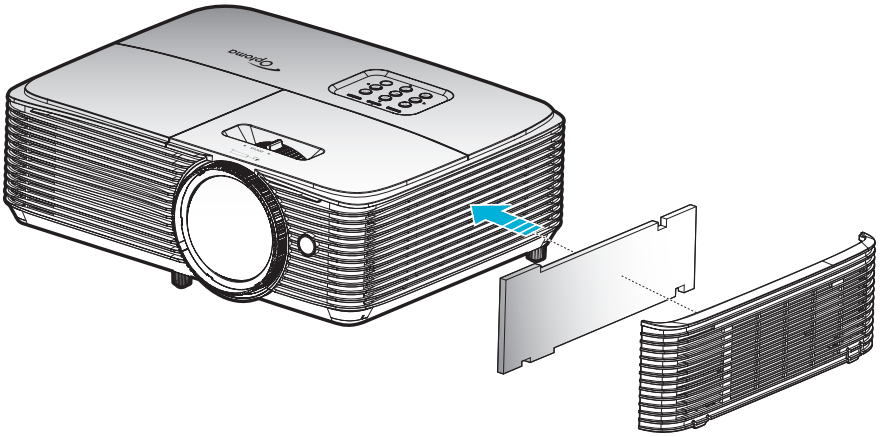
Note:

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

MAINTENANCE

Installing and cleaning the dust filter

Installing the dust filter



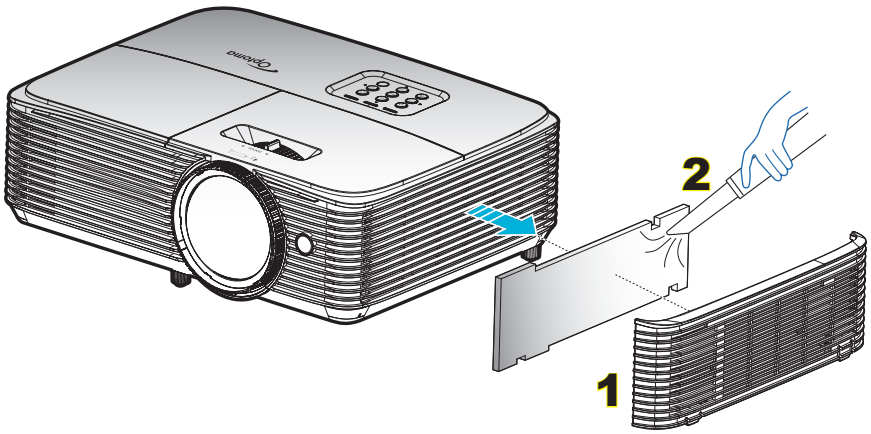
Note: *Dust filters are only required/supplied in the selected regions with excessive dust.*

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 "⏻" button on the remote control or the projector keypad.
2. Disconnect the power cord.
3. Remove the dust filter carefully. 1
4. Clean or replace the dust filter. 2
5. To install the dust filter, reverse the previous steps.



ADDITIONAL INFORMATION

Compatible resolutions

Digital compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720x400 @ 70Hz	1440x900 @60Hz	Native timing:	640x480p @ 60Hz	720x480p @ 60Hz
640x480 @ 60Hz	1024x768 @120Hz	XGA: 1024x768 @ 60Hz	720x480p @ 60Hz	1280x720p @ 60Hz
640x480 @ 67Hz	1280x800 @60Hz	WXGA: 1280x800 @ 60Hz	1280x720p @ 60Hz	1366x768 @ 60Hz
640x480 @ 72Hz	1280x1024 @60Hz		1920x1080i @ 60Hz	1920x1080i @ 50Hz
640x480 @ 75Hz	1680x1050 @60Hz		720(1440)x480i @ 60Hz	1920x1080p @ 60Hz
800x600 @ 56Hz	1280x720 @60Hz		1920x1080p @ 60Hz	
800x600 @ 60Hz	1280x720 @120Hz		720x576p @ 50Hz	
800x600 @ 72Hz	1600x1200 @60Hz		1280x720p @ 50Hz	
800x600 @ 75Hz			1920x1080i @ 50Hz	
832x624 @ 75Hz			720(1440)x576i @ 50Hz	
1024x768 @ 60Hz			1920x1080p @ 50Hz	
1024x768 @ 70Hz			1920x1080p @ 24Hz	
1024x768 @ 75Hz			1920x1080p @ 30Hz	
1280x1024 @ 75Hz				
1152x870 @ 75Hz				

Analog compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Detail Timing
720x400 @ 70Hz	1440x900 @ 60Hz	Native timing:	1366x768 @ 60Hz
640x480 @ 60Hz	1024x768 @ 120Hz	XGA: 1024x768 @ 60Hz	
640x480 @ 67Hz	1280x800 @ 60Hz	WXGA: 1280x800 @ 60Hz	
640x480 @ 72Hz	1280x1024 @ 60Hz		
640x480 @ 75Hz	1680x1050 @ 60Hz		
800x600 @ 56Hz	1280x720 @ 60Hz		
800x600 @ 60Hz	1280x720 @ 120Hz		
800x600 @ 72Hz	1600x1200 @ 60Hz		
800x600 @ 75Hz			
832x624 @ 75Hz			
1024x768 @ 60Hz			
1024x768 @ 70Hz			
1024x768 @ 75Hz			
1280x1024 @ 75Hz			
1152x870 @ 75Hz			

ADDITIONAL INFORMATION

True 3D video compatibility

Input resolution	HDMI 1.4a 3D Input	Input timing		
		1280x720P @ 50Hz	Top-and-Bottom	
		1280x720P @ 60Hz	Top-and-Bottom	
		1280x720P @ 50Hz	Frame packing	
		1280x720P @ 60Hz	Frame packing	
		1920x1080i @ 50 Hz	Side-by-Side(Half)	
		1920x1080i @ 60 Hz	Side-by-Side(Half)	
		1920x1080P @ 24 Hz	Top-and-Bottom	
		1920x1080P @ 24 Hz	Frame packing	
	HDMI 1.3	1920x1080i @ 50Hz	Side-by-Side(Half)	SBS mode is on
		1920x1080i @ 60Hz		
		1280x720P @ 50Hz		
		1280x720P @ 60Hz		
		800x600 @ 60Hz		
		1024x768 @ 60Hz		
		1280x800 @ 60Hz		
		1920x1080i @ 50Hz	Top-and-Bottom	TAB mode is on
		1920x1080i @ 60Hz		
		1280x720P @ 50Hz		
		1280x720P @ 60Hz		
		800x600 @ 60Hz		
		1024x768 @ 60Hz		
		1280x800 @ 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 100 hz; other 3D timing will run in 120hz.*
- *1080p@24hz will run in 144Hz.*

ADDITIONAL INFORMATION

Image size and projection distance

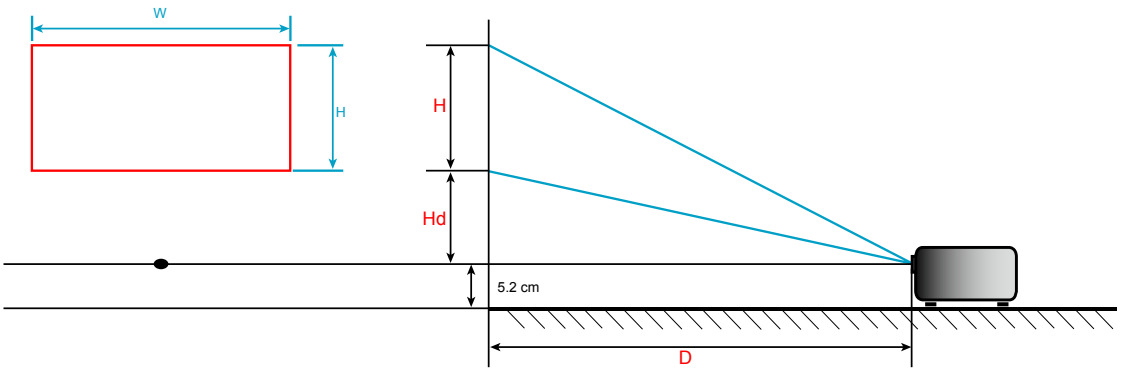
XGA

Desired Image Size						Desired Image Size Projection Distance (D)				Offset (Hd)	
Diagonal		Width		Height		Wide		Tele			
m	inch	m	inch	m	inch	m	feet	m	feet	m	feet
0.81	32	0.65	25.60	0.49	19.20	0.4	1.31	NA	NA	0.07	2.76
1.27	50	1.02	40.00	0.76	30.00	0.6	1.97	NA	NA	0.12	4.72
1.52	60	1.22	48.00	0.91	36.00	0.8	2.62	NA	NA	0.14	5.51
1.78	70	1.42	56.00	1.07	42.00	0.9	2.95	NA	NA	0.16	6.30
2.03	80	1.63	64.00	1.22	48.00	1.0	3.28	NA	NA	0.18	7.09
2.29	90	1.83	72.00	1.37	54.00	1.1	3.61	NA	NA	0.21	8.27
2.54	100	2.03	80.00	1.52	60.00	1.3	4.27	NA	NA	0.23	9.06
3.05	120	2.44	96.00	1.83	72.00	1.5	4.92	NA	NA	0.27	10.63
3.81	150	3.05	120.00	2.29	90.00	1.9	6.23	NA	NA	0.34	13.39
4.57	180	3.66	144.00	2.74	108.00	2.3	7.55	NA	NA	0.41	16.14
5.08	200	4.06	160.00	3.05	120.00	2.5	8.20	NA	NA	0.46	18.11
6.35	250	5.08	200.00	3.81	150.00	3.1	10.17	NA	NA	0.57	22.44
7.62	300	6.1	240.00	4.57	180.00	3.8	12.47	NA	NA	0.69	27.17

WXGA

Desired Image Size						Desired Image Size Projection Distance (D)				Offset (Hd)	
Diagonal		Width		Height		Wide		Tele			
m	inch	m	inch	m	inch	m	feet	m	feet	m	feet
0.81	32	0.69	27.14	0.43	17.00	0.4	1.31	NA	NA	0.05	1.97
1.27	50	1.08	42.40	0.67	26.50	0.6	1.97	NA	NA	0.09	3.54
1.52	60	1.29	50.88	0.81	31.80	0.7	2.30	NA	NA	0.10	3.94
1.78	70	1.51	59.36	0.94	37.10	0.8	2.62	NA	NA	0.12	4.72
2.03	80	1.72	67.84	1.08	42.40	0.9	2.95	NA	NA	0.13	5.12
2.29	90	1.94	76.32	1.21	47.70	1.0	3.28	NA	NA	0.15	5.91
2.54	100	2.15	84.80	1.35	53.00	1.1	3.61	NA	NA	0.16	6.30
3.05	120	2.58	101.76	1.62	63.60	1.3	4.27	NA	NA	0.20	7.87
3.81	150	3.23	127.20	2.02	79.50	1.7	5.58	NA	NA	0.25	9.84
4.57	180	3.88	152.64	2.42	95.40	2.0	6.56	NA	NA	0.30	11.81
5.08	200	4.31	169.60	2.69	106.00	2.2	7.22	NA	NA	0.34	13.39
6.35	250	5.38	212.00	3.37	132.50	2.8	9.19	NA	NA	0.41	16.14
7.62	300	6.46	254.40	4.04	159.00	3.4	11.15	NA	NA	0.50	19.69

ADDITIONAL INFORMATION

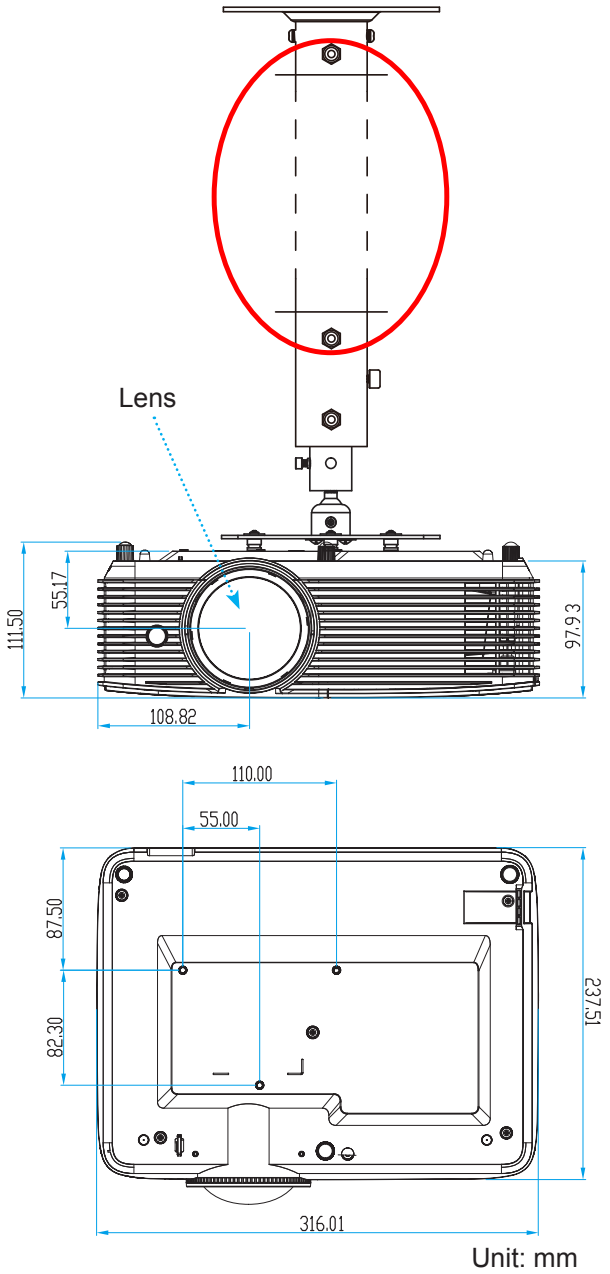


ADDITIONAL INFORMATION

Projector dimensions and ceiling mount installation

1. To prevent damage to your projector, please use the Optoma ceiling mount.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:

- Screw type: M4*3
- Minimum screw length: 10mm



Unit: mm

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

Warning:

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

ADDITIONAL INFORMATION

IR remote control 1 codes

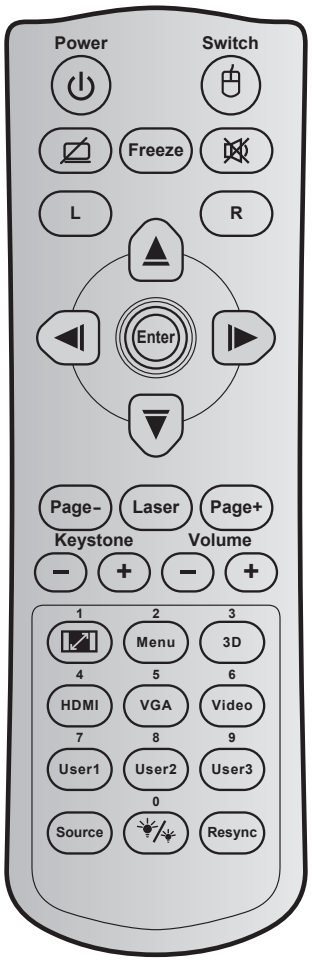
Key legend		Description	Key code
Power		Press to turn on / off the projector.	81
Freeze	Freeze	Press to freeze the projector image.	8B
Aspect		Press to change aspect ratio of a displayed image.	98
AV mute		Press to turn off/ on projector built-in speaker	8A
Keystone+/up	Keystone+	• Press to adjust image distortion caused by tilting the projector. • Press to navigate up.	C6
Mute		Press to momentarily turn off / on the audio.	92
Left/Vol-	Vol–	• Press to adjust to decrease the volume. • Press to navigate left.	C8
Enter		Confirm your item selection.	-C5 (for OSD) -CA (for emulation of USB mouse via USB)
Right/Vol+	Vol+	• Press to adjust to increase the volume. • Press to navigate right.	C9
Menu		Press to display or exit the on-screen display menus for projector.	88
Down/ Keystone-	Keystone–	• Press to adjust image distortion caused by tilting the projector. • Press to navigate down.	C7
3D	3D	Press to manually select a 3D mode that matches your 3D content.	93
HDMI	HDMI	Press to choose HDMI source.	86

ADDITIONAL INFORMATION

Key legend		Description	Key code
VGA		Press to choose VGA source.	8E
Video		Press to choose video source.	CE
Source		Press to select an input signal.	C3
Brightness mode		Press to automatically adjust the picture brightness to give an optimum contrast performance.	87
ReSync		Automatically synchronize the projector to the input source.	C4

ADDITIONAL INFORMATION

IR remote control 2 codes



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

ADDITIONAL INFORMATION

Key		Key code	Printing-key definition	Description
Enter		C5	Enter	Confirm your item selection.
		CA	Enter	
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.
		84	Keystone-	
Volume	⊖ ⊕	8C	Volume +	Press to adjust to increase / decrease the volume.
		8F	Volume -	
Aspect ratio / 1		98	/ 1	• Press to change aspect ratio of a displayed image. • 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. • Use as numeric keypad number "4".
VGA / 5		D0	VGA/5	• Press to choose VGA source. • Use as numeric keypad number "5".
Video / 6		D1	Video/6	• Press to choose composite video source. • Use as numeric keypad number "6".
User1 / 7; User2 / 8; User3 / 9		D2	User 1/7	• User defined keys. Please see page *46* to setup. • Use as numeric keypad numbers "7", "8", and "9" accordingly.
		D3	User 2/8	
		D4	User 3/9	
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		C4	Re-Sync	Press to automatically synchronize the projector to the input source.

ADDITIONAL INFORMATION

Troubleshooting

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

Image problems

No image appears on-screen

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

Image is out of focus

- Adjust the focus using the focus lever. Please refer to page *20*.
- Make sure the projection screen is between the required distance from the projector. (Please refer to pages *61-62*).

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

- Move the projector closer to or further from the screen.
- Press "Menu" on the projector panel, go to "Display → Aspect Ratio". Try the different settings.

Image has slanted sides:

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

Image is reversed

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

Blurry double image

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

ADDITIONAL INFORMATION

Two images, side-by-side format

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

Image does not display in 3D

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

Other problems

The projector stops responding to all controls

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

Lamp burns out or makes a popping sound

- When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section on pages *56-57*.

Remote control problems

If the remote control does not work

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

ADDITIONAL INFORMATION

Warning indicators

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

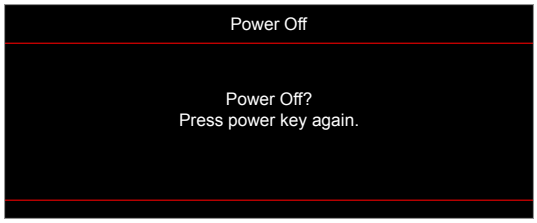
- "LAMP" LED indicator is lit red and if "On/Standby" indicator flashes red.
- "TEMP" LED indicator is lit red and if "On/Standby" indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- "TEMP" LED indicator flashes red and if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

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

LED lightning messages

Message	Power LED (Red)	Power LED (Blue)	Temp-LED (Red)	Lamp-LED (Red)
Standby state (Input power cord)	Steady light			
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Power on & Lamp lighting		Steady light		
Power off (Cooling)		Flashing (0.5 sec off / 0.5 sec light). 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 fail)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over Temp)	Flashing		Steady light	

- Power off:

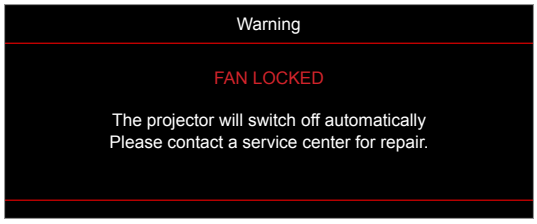


- Lamp warning:

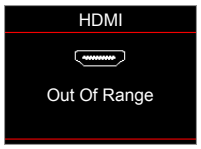
ADDITIONAL INFORMATION

- Temperature warning:

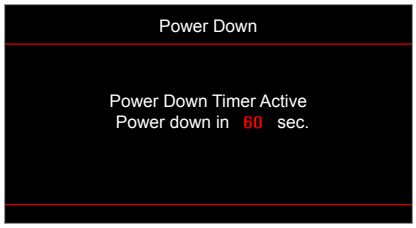
- Fan failed:



- Out of display range:



- Power down warning:



- Security timer alarm:

ADDITIONAL INFORMATION

Specifications

Optical	Description
Native resolution	XGA / WXGA
Maximum resolution	1024x768 / 1280x800
Lens	Manual focus
Image size (diagonal)	• Adjustable from 31.9” to 303.09” (Mechanical Focus range) (Diagonal) for XGA • Adjustable from 35.64” to 302.98” (Mechanical Focus range) (Diagonal) for WXGA
Projection distance	• 0.4~3.8m for XGA • 0.4~3.4m for WXGA

Electrical	Description
Inputs	• HDMI 1.4a • USB2.0 USB-A for 5V PWR 1.5A • VGA IN • Video • Audio In 3.5mm • RS232C male (9-pin D-SUB) • MHL 2.1* • Mic-in* **Note:** *(*) This connector is only applicable for Type 2 (12 I/O) model.*
Outputs	• Audio Out 3.5mm • VGA Out
Control	• USB type A for mouse / service • RJ-45 (support web control)* **Note:** *(*) This connector is only applicable for Type 2 (12 I/O) model.*
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 AC 50/60Hz
Input current	2.8-1.0 A
Power consumption	Bright: • Typical 230W MAX 253W @ 110VAC • Typical 225W MAX 248W @ 220VAC Eco: • Typical 190W MAX 209W @ 110VAC • Typical 187W MAX 206W @ 220VAC

Mechanical	Description
Installation orientation	Front, Rear, Ceiling - Top, Rear - Top
Dimensions	- 316 mm (W) x 243.5 mm (D) x 98 mm (H) (without feet) - 316 mm (W) x 243.5 mm (D) x 108.5 mm (H) (with feet)
Weight	2.9±0.5kg
Environmental conditions	Operating in 5 ~ 40°C , 10% to 85% humidity (non-condensing)

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

ADDITIONAL INFORMATION

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