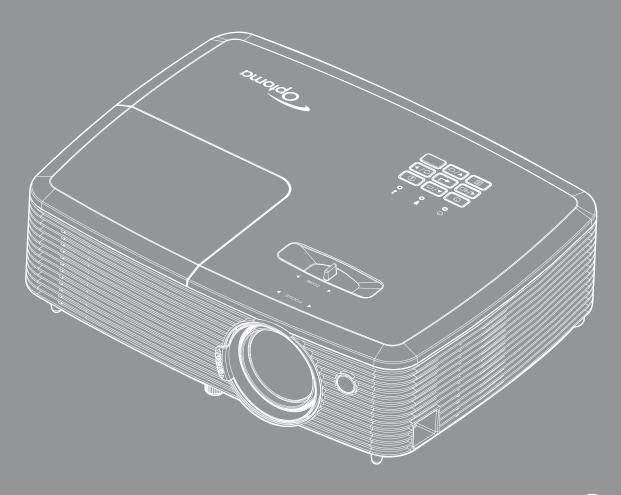


DLP[®] Projector





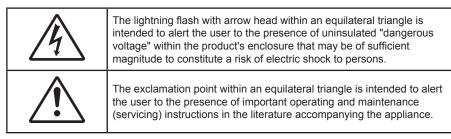
User manual

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SAFETY



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

Important Safety Instruction

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
 - In extremely hot, cold or humid environments.
 - (i) Ensure that the ambient room temperature is within $5^{\circ}C \sim 40^{\circ}C$
 - (ii) Relative humidity is 10% ~ 85%
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.
- Do not use the projector in places where flammable gases or explosives gases may be present in the atmosphere. The lamp inside the projector becomes very hot during operation and the gases may ignite and result in a fire.
- Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside.
- Do not place the projector on an unstable surface. The projector may fall over resulting in injury or the projector may become damaged.
- Do not block the light coming out of the projector lens when in operation. The light will heat the object and my 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 *55-56*.
- 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 55-56.
 - 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

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

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Disclaimer

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

Trademark Recognition

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

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

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

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

DARBEE is a trademark by Darbee Products, Inc.

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

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 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

WEEE



Disposal instructions

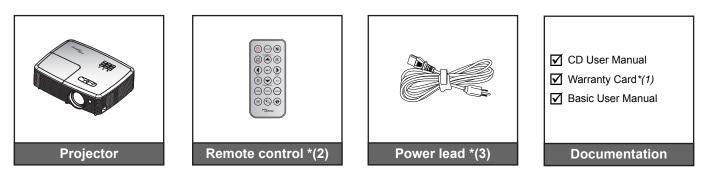
Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

Package Overview

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

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

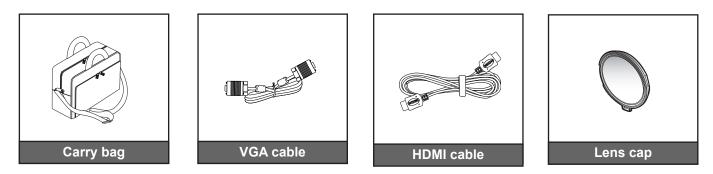
Standard accessories



Note:

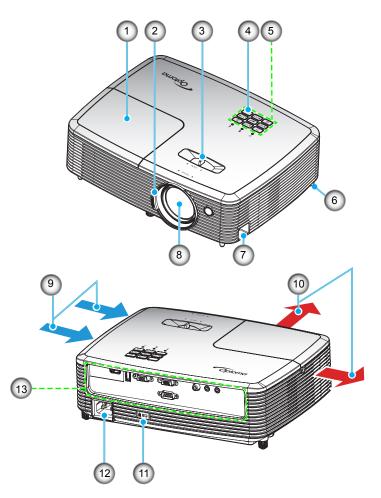
- The remote control is shipped with the battery.
- *(1) For European warranty information please visit <u>www.optomaeurope.com</u>.
- *(2) The actual remote control may vary depending on the region.
- *(3) Power lead is depending on the region.

Optional accessories



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

Product Overview

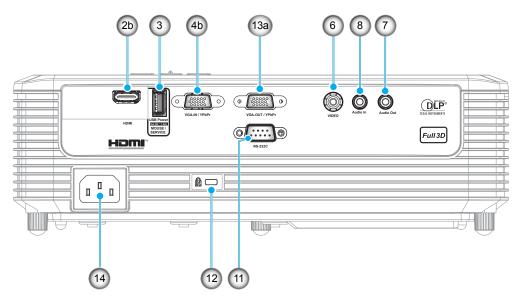


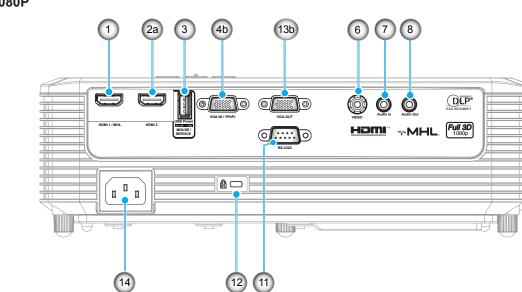
Note: Keep a minimum distance of 20 cm between the "inlet" and "outlet" labels.

No	ltem	No	Item
1.	Lamp Cover	8.	Lens
2.	Focus Ring	9.	Ventilation (inlet)
3.	Zoom Lever	10.	Ventilation (outlet)
4.	IR Receiver	11.	Kensington [™] Lock Port
5.	Keypad	12.	Power Socket
6.	Tilt-Adjustment Foot	13.	Input / Output
7.	Security Bar		

Connections

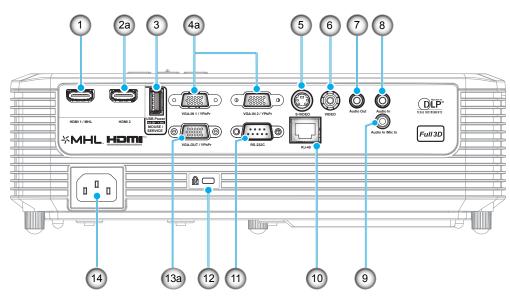
Type 1 XGA/ WXGA





Type 2 1080P

Type 3 XGA/ WXGA



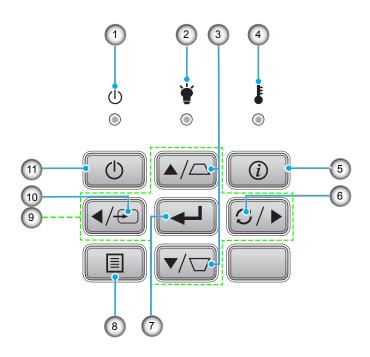
		F	Regulatory Name	е			
No	ltem	Type 1 XGA/ WXGA	Туре 2 1080Р	Type 3 XGA/ WXGA			
1.	HDMI 1 / MHL Connector	N/A	\checkmark	\checkmark			
2.	a) HDMI 2 Connector b) HDMI Connector	\checkmark	\checkmark	\checkmark			
3.	USB Power Out (5V-1A) Connector / MOUSE / SERVICE Connector	$\sqrt{*}$	\checkmark	$\sqrt{*}$			
4.	 a) VGA-IN 1 / YPbPr Connector and VGA-IN 2 / YPbPr Connector b) VGA-IN / YPbPr Connector 	\checkmark	\checkmark	√ (x2)			
5.	S-VIDEO Connector	N/A	N/A	\checkmark			
6.	Composite Connector	\checkmark	\checkmark	\checkmark			
7.	Audio Out Connector	\checkmark	\checkmark	\checkmark			
8.	Audio In Connector	\checkmark	\checkmark	√ (x2)			
9.	Audio In / Mic In Connector	N/A	N/A	\checkmark			
10.	RJ-45 Connector	N/A	N/A	\checkmark			
11.	RS-232C Connector	\checkmark	\checkmark	\checkmark			
12.	Kensington™ Lock Port	\checkmark	\checkmark	\checkmark			
13.	a) VGA-OUT / YPbPr Connector	.1	./	./			
	b) VGA-OUT Connector	N	\checkmark	N			
14.	Power Socket	\checkmark	\checkmark	\checkmark			
Note	Note: " $$ " means the item is supported, "N/A" means the item is not available.						

Note:

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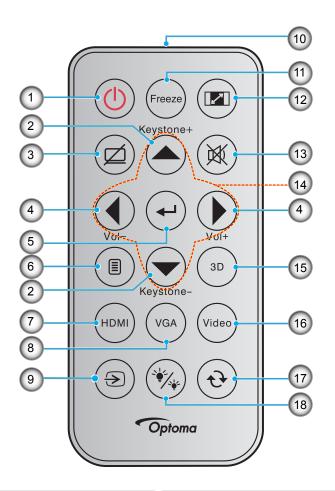
- Remote mouse requires special remote control.
- *This model supports mouse / service capability.

Keypad



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

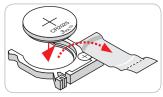
Remote control 1



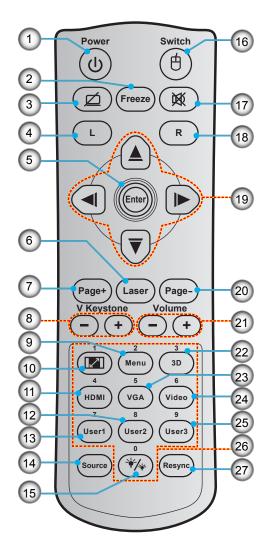
No	Item	No	Item
1.	Power On / Off	10.	IR LED Indicator
2.	Keystone + / -	11.	Freeze
3.	AV Mute	12.	Aspect Ratio
4.	Volume - / +	13.	Mute
5.	Enter	14.	Four Directional Select Keys
6.	Menu	15.	3D
7.	HDMI	16.	Video
8.	VGA	17.	Resync
9.	Source	18.	Brightness Mode

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.



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.	V 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:

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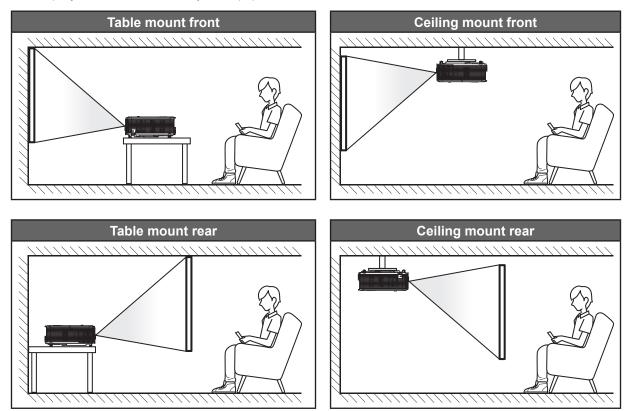
The actual remote control may vary depending on the region.

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.

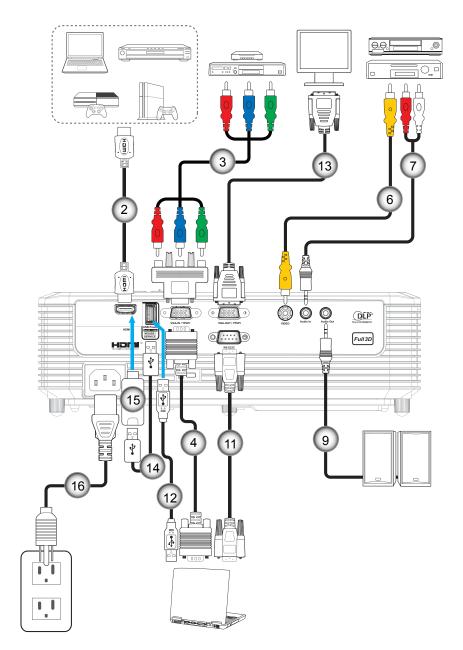
- How to determine projector location for a given screen size, please refer to distance table on pages 61-62.
- How to determine screen size for a given distance, please refer to distance table on pages 61-62.
- **Note:** The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.

IMPORTANT!

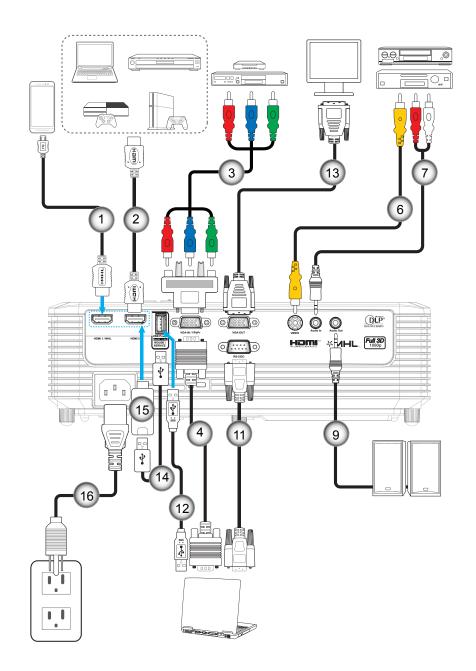
Do not operate the projector in any orientation other that table top or ceiling mount. The projector should be horizontal and not tilted either forwards/backwards or left/right. Any other orientation will invalidate the warranty and may shorten the lifetime of the projector lamp or the projector itself.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

Connecting sources to the projector

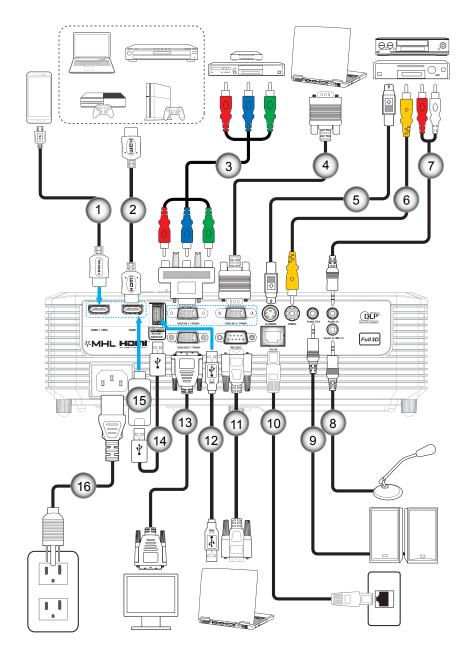
Type 1 XGA/ WXGA



Type 2 1080P



Type 3 XGA/ WXGA



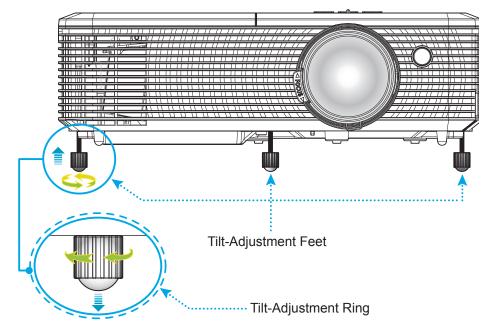
No	Item	Type 1 XGA/ WXGA	Туре 2 1080Р	Type 3 XGA/ WXGA
1.	MHL Cable	N/A	\checkmark	\checkmark
2.	HDMI Cable	\checkmark	\checkmark	\checkmark
3.	RCA Component Cable	\checkmark	\checkmark	\checkmark
4.	VGA In Cable	\checkmark	\checkmark	\checkmark
5.	S-Video Cable	N/A	N/A	\checkmark
6.	Video Cable	\checkmark	\checkmark	\checkmark
7.	Audio In Cable	\checkmark	\checkmark	\checkmark
8.	Microphone In Cable	N/A	N/A	\checkmark
9.	Audio Out Cable	\checkmark	\checkmark	\checkmark
10.	RJ-45 Cable	N/A	N/A	\checkmark
11.	RS232C Cable	\checkmark	\checkmark	\checkmark
12.	USB Cable (mouse control)	\checkmark	\checkmark	\checkmark
13.	VGA Out Cable	\checkmark	\checkmark	\checkmark
14.	USB Power Cable	\checkmark	\checkmark	\checkmark
15.	HDMI Stick	\checkmark	\checkmark	\checkmark
16.	Power Cord	\checkmark	\checkmark	\checkmark
Not	e: "√" means the item is supported	s not available.		

Adjusting the projector image

Image height

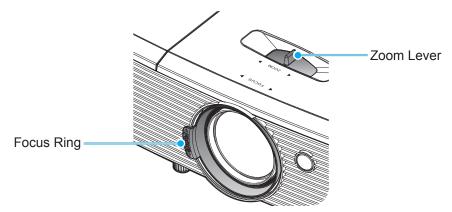
The projector is equipped with elevator feet for adjusting the image height.

- 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.



Note: The projector will focus at a distance of 1m to 10m.

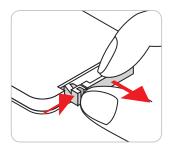
Installing / replacing the batteries

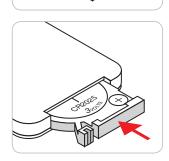
1. Press firmly and slide the battery cover off.

- 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.



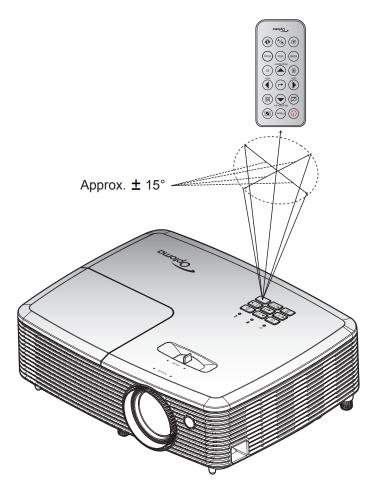


Effective range

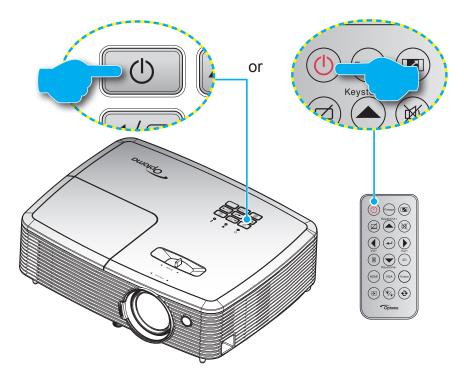
Infra-Red (IR) remote control sensor is located on top of the projector. Ensure to hold the remote control at an angle within 30 degrees perpendicular to the projector's top IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer than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



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 "U" either on the projector keypad or the remote control.
- 3. A start up screen will display in approximately 10 seconds and the On/Standby LED will be flashing green or flashing blue.
- **Note:** The first time the projector is turned on, you will be prompted to select the preferred language, projection orientation, and other settings.

Powering off

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

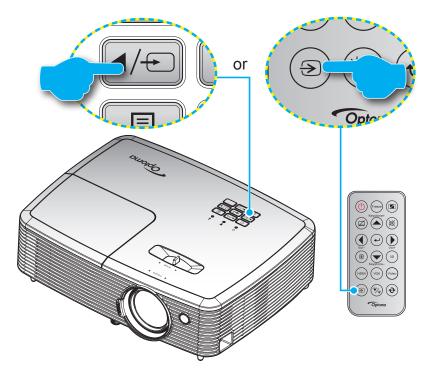


- 3. Press the "**也**" again to confirm, otherwise the message will disappear after 15 seconds. When you press the "**也**" button for the second time, the projector will shut down.
- 4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/ Standby LED will flash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

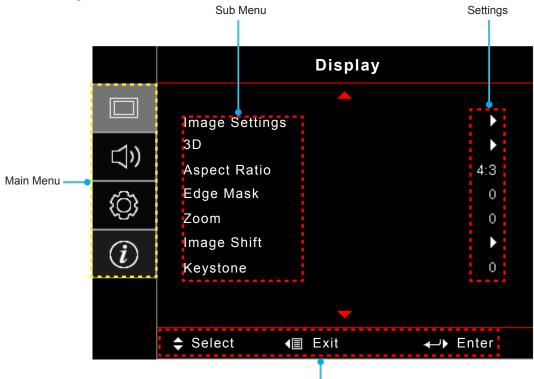
Turn on the connected source that you want to display on the screen, such as computer, notebook, video player, etc. The projector will automatically detect the source. If multiple sources are connected, push the source button on the projector keypad or the remote control to select the desired input.



Menu navigation and features

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

- 1. To open the OSD menu, press in 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 \leftarrow or \triangleright to confirm, and the screen will return to the main menu.



Navigation guide

OSD Menu tree

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

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
				Deast	Cancel [Default]
			Color Matching	Reset	Yes
				Exit	
				Red Gain	-50~50
				Green Gain	-50~50
				Blue Gain	-50~50
				Red Bias	-50~50
			RGB Gain/Bias	Green Bias	-50~50
				Blue Bias	-50~50
				Reset	Cancel [Default]
				Resel	Yes
				Exit	
					Auto [Default]
			Color Space [Not HDMI Input]		RGB
		Color Cottings			YUV
		Color Settings			Auto [Default]
			Color Space		RGB(0~255)
			[HDMI Input]		RGB(16~235)
		gs			YUV
					Normal [Default]
			DOD Channel		Red
Display	Image Settings		RGB Channel		Green
					Blue
			White Level		-50~50
			Black Level		-50~50
			Saturation		-50~50
			Hue		-50~50
					0
			IRE		7.5
			Exit		
			Automatic		Off
			Automatic		On [Default]
			Frequency		0~100 [Default: 0]
		Signal	Phase		-50~50 [Default: 0]
			H. Position		-50~50 [Default: 0]
			V. Position		-50~50 [Default: 0]
			Exit		
					Bright [Default]
		Brightness Mode			Eco
		[Lamp Base - Data]			Dynamic
					Eco+
		Reset			

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Off
		3D Mode			DLP [Default]
					IR
					3D [Default]
		3D->2D			L
	3D				R
					Auto [Default]
		3D Format			SBS
					Top and Bottom
					Frame Sequential
		3D sync invert			On
					Off [Default]
					4:3
					16:9
	Aspect Ratio				16:10 [WXGA models]
Display					LBX [except SVGA XGA models]
					Native
					Auto
	Edge Mask				0~10 [Default: 0]
	Zoom				-5~25 [Default: 0]
		H: 0; V: -100			
		H: -100; V: 0			
		H: 100; V: 0			
		H: 0; V: 100			
	Image shift	H: -100; V: 0			[Default:0]
		H: 0; V: -100			
		H: 100; V: 0			
		H: 0; V: 100			
	Keystone				-40~40 [Default:0]
	Audio Input 2				Audio 2 [Default]
	Function				Mic (Type 3)
Audio	Mic Volume (Type 3)				0-10 [Default: 5]
	Mute				Off [Default]
					On
	Volume				0-10 [Default: 5]

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Front <
	Projection				Rear 🚛
					Ceiling-top a
					Rear-top 🕢 🏸
					16:9
	Screen Type	[WXGA model]			16:10 [Default]
		Laura Daniadan			Off
		Lamp Reminder			On [Default]
	Lamp Settings	Laws Decet			Cancel [Default]
		Lamp Reset			Yes
		Optional Filter			Yes
		Installed			No
		Filter Usage Hours			(Read only)
		Filter Reminder			Off
	Filter Settings				300hr
	i iiter e etiinige				500hr [Default]
					800hr
					1000hr
Setup		Filter Reset			Cancel [Default]
					Yes
					Off [Default]
		Direct Power On			On
					Off [Default]
		Signal Power On			On
		Auto Power Off (min)			0~180 (5 min increments) [Default: 0]
	Power Settings	ower Settings			0~990 (30 min increments) [Default: 0]
		Sleep Timer (min)			Yes
			Always On		No [Default]
					Off
		Quick Resume			On [Default]
		Power Mode			Active
		(Standby)			Eco [Default]
		Security			
			Month		
	Security	Security Timer	Day		
	Jecunty		Hour		
		Change Password			

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
		HDMI Link			Off
					On
	HDMI Link Settings	Inclusive of TV			No
	(Type 2)				Yes
		Power Off Link			Off
					On
					Green Grid
					Magenta Grid
	Test Pattern				White Grid
					White
					Off
		ID Evention			On
		IR Function			Off
					HDMI 2
					Test Pattern
		User1			Brightness
					Contrast
					Sleep Timer
Setup					Color Matching
	Remote Settings [depends on remote]				Color Temp
					Gamma
					Source Lock
					Projection
					Lamp Settings
					Zoom
					Freeze
		User2			HDMI 2
					Test Pattern
					Brightness
					Contrast
					Sleep Timer
					Color Matching
					Color Temp
					Gamma
					Source Lock
					Projection

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Lamp Settings
		User2			Zoom
	Remote Settings [depends on remote]				Freeze
					HDMI 2
					Test Pattern
		User3			Brightness
					Contrast
					Sleep Timer
					Color Matching
					Color Temp
					Gamma
					Source Lock
					Projection
					Lamp Settings
					Zoom
					Freeze
	Projector ID				00~99
					English [Default]
					Deutsch
					Français
	Options				Italiano
		Language			Español
Setup					Português
					Polski
					Nederlands
					Svenska
					Norsk
					Dansk
					Suomi
					ελληνικά
					繁體中文
					簡体中文
					日本語
					한국어
					Русский
					Magyar
					Čeština
					عـربي
					ไทย
					Türkçe
					فارسے
					Vietnamese
					Indonesia
					Romanian
			[Nomaman

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
		Language			Slovakian
					CC1
		Closed Captioning			CC2
		Captioning			Off [Default]
		Menu Settings			Top left
			Menu Location		Top right
					Center 🔳 [Default]
					Bottom left
					Bottom right
					Off
			Menu Timer		5sec
					10sec [Default]
					HDMI
					HDMI/MHL (Type 2 and Type 3)
					VGA
		Input Source			VGA1 (Type 3)
					S-Video (Type 3)
					Video
		Input Name			Default [Default]
	Options		HDMI		Custom
			HDMI1 -		Default [Default]
Setup					Custom
			HDMI/MHL -		Default [Default] (Type 2 and Type 3)
					Custom (Type 2 and Type 3)
			VGA -		Default [Default]
					Custom
			VGA1 -		Default [Default] (Type 3)
					Custom (Type 3)
			Video		Default [Default]
					Custom
			Wireless		Default [Default]
					Custom
					Default [Default]
			Network Display		Custom
		VGA Out	+ +		Auto [Default]
					VGA1
					VGA2
		High Altitude	+ +		Off [Default]
					On
		Display Mode Lock	+ +		Off [Default]
					On
		Keypad Lock			Off [Default]
					On

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Off [Default]
		Information Hide			On
					Default [Default]
		Logo			Neutral
					User
	Options				Cancel [Default]
		Logo Capture			Yes
					None [Default]
Setup					Blue
		Background			Red
		Color			Green
					Grey
					Logo
					Cancel [Default]
		Reset OSD			Yes
	Reset				Cancel [Default]
		Reset to Default			Yes
		Network Status			(read only)
		MAC Address			(read only)
		DHCP			Off [Default]
					On
		IP Address			192.168.0.100 [Default]
	LAN	Subnet Mask			255.255.255.0 [Default]
		Gateway			192.168.0.254 [Default]
		DNS			192.168.0.51 [Default]
		Apply			
		Reset			
					Off
	Control	Crestron			On [Default]
Network					NOTE: Port 41794.
(Type 3)		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
					Off
		НТТР			On [Default] NOTE: Port 80

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
	Regulatory				
	Serial Number				
	Current Input Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Network Status				
	IP Address				
	Projector ID				00~99
	Remote Code				00~99 NOTE: Show remote in system.
	Remote Code (Active)				00~99 NOTE: Show remote from Remote.
	Display Mode				
Information	Power mode(standby)				
	Brightness Mode				
	Filter Hours				
	Lamp Hours	Bright mode			0H
		Eco mode			0H
		Dynamic mode			0Н
		Eco+ mode			ОН
		Total hours			
	FW Version	System			
		LAN			
		MCU			
	Update				

Note:

- The "LAMP RESET" in OSD will only reset both Lamp Hours in OSD and Lamp Hours in service mode. The Projection Hours in service mode will not be reset.
- Each display mode can be adjusted and saved the value.
- In 3D timing mode, the zoom/edge mask will be disabled to prevent from image break.

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**: 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 (Data mode)

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.

<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: For specific PC / Photo source.

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 (data-mode only)**: Select a color temperature from Warm, Standard, Cool, or Cold.
- **Color Matching**: Select the following options:
 - Color: Adjust the red (R), green (G), black (B), cyan (C), yellow (Y), magenta (M), and white (W) level of the image.
 - Saturation: Adjust a video image from black and white to fully saturated color.
 - Hue: Adjust the color balance of red and green.
 - 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.
- **RGB Channel:** Select from normal, red, green, or blue channels.
- White Level: Allow user to adjust White Level when inputting Video signals.
- Black Level: Allow user to adjust Black Level when inputting Video signals.
- **Saturation:** Adjust a video image from black and white to fully saturated color.
- **Hue:** Adjust the color balance of red and green.
- **IRE:** Allow user to adjust IRE value when inputting Video signals. **Note:** *IRE is only available with NTSC video format.*
- **Exit**: Exit the "Color Settings" menu.

<u>Signal</u>

Adjust the signal options.

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

Brightness Mode (Lamp base data)

Adjust the brightness mode settings for lamp-based projectors.

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

<u>Reset</u>

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**: Select to use optimized settings for DLP 3D Glasses.
- **IR**: Select "IR" to use optimized setting for IR 3D Glasses.

$\underline{\textbf{3D}} \rightarrow \underline{\textbf{2D}}$

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 WXGA models only)**: This format is for 16:10 input sources, like widescreen laptops.
- **LBX (except SVGA XGA models)**: 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. Lamp power and vertical resolution are fully utilized.
- To use the superwide format, do the following:
 - a) Set the screen aspect ratio to 2.0:1.
 - b) Select "Superwide" format.
 - c) Align the projector image correctly on the screen.

XGA scaling table:

Source	480i/p	576i/p	1080i/p	720p				
4x3	Scale to 1024x76	cale to 1024x768.						
16x9	Scale to 1024x57	cale to 1024x576.						
Native	No scaling will be	made; the image is	displayed with the	resolution based on input source.				
Auto	-If source is 4:3, th	If source is 4:3, the screen type will be scaled to 1024x768.						
	-If source is 16:9, 1	f source is 16:9, the screen type will be scaled to 1024x576.						
	-If source is 15:9, 1	he screen type wil	l be scaled to 1024x	614.				
	-If source is 16:10,	the screen type w	ill be scaled to 1024	x640.				

XGA auto mapping rule:

Auto	Input re	esolution	Auto/	Scale
Auto	H-resolution	V-resolution	1024	768
	640	480	1024	768
4.2	800	600	1024	768
4:3	1024	768	1024	768
	1600	1200	1024	768
	1280	720	1024	576
Wide Laptop	1280	768	1024	614
	1280	800	1024	640
SDTV	720	576	1024	576
3010	720	480	1024	576
ЦОТУ	1280	720	1024	576
HDTV	1920	1080	1024	576

WXGA scaling table (screen type 16:10):

Note:

- Supported screen type 16:9 (1280x720), 16:10 (1280x800).
- When screen type is 16:9, the16x10 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 1066x80	0.			
16x10	Scale to 1280x80	0.			
LBX	Scale to 1280x96	0, then get the cer	ntral 1280x800 ima	ge to display.	
Native mode	1:1 mapping cente	ered.	1:1 mapping display 1280x800.	1280x720 centered.	1:1 mapping centered.
Auto	-If source is 4:3, th -If source is 16:9, t	e screen type will t the screen type will	display area and b be scaled to 1066x8 be scaled to 1280y be scaled to 1280y	800. (720.	spect ratio.
	-If source is 16:10	, the screen type w	ill be scaled to 1280)x800.	

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

Auto	Input re	Input resolution		Scale
	H-resolution	V-resolution	1280	800
	640	480	1066	800
	800	600	1066	800
4.2	1024	768	1066	800
4:3	1280	1024	1066	800
	1400	1050	1066	800
	1600	1200	1066	800

Auto	Input re	solution	Auto/Scale	
Auto	H-resolution	V-resolution	1280	800
	1280	720	1280	720
Wide Laptop	1280	768	1280	768
	1280	800	1280	800
SDTV	720	576	1280	720
SDTV	720	480	1280	720
	1280	720	1280	720
HDTV	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 1280x72	0.			
LBX	Scale to 1280x96	0, then get the cer	ntral 1280x720 ima	ige to display.	
Native mode	1:1 mapping cente	ered.	1:1 mapping display 1280x720.	1280x720 centered.	1:1 mapping centred.
Auto	-If source is 4:3, th -If source is 16:9, t -If source is 15:9, t	the screen type will the screen type will the screen type will	ill automatically bec be scaled to 960x72 be scaled to 1280 be scaled to 1200 ill be scaled to 1152	20. k720. k720.	20).

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

Ato	Input re	solution	Auto/	Scale
Auto	H-resolution	V-resolution	1280	720
	640	480	960	720
	800	600	960	720
4:3	1024	768	960	720
4.5	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
edtv	720	576	1280	720
SDTV	720	480	1280	720
HDTV	1280	720	1280	720
	1920	1080	1280	720

1080P scaling table:

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC	
4x3	Scale to 1440 x10)80.				
16x9	Scale to 1920x10	80.				
LBX	Scale to 1920x144	0, then get the cen	itral 1920x1080 ima	ge to display.		
Native mode	 - 1:1 mapping centered. - No scaling will be made; the image is displayed with the resolution based on input source. 					
Auto	-If source is 4:3, th -If source is 16:9,	e screen type will t the screen type will	type will automatica be scaled to 1440x1 be scaled to 1920x ill be scaled to 1920	080. :1080.		

1080P auto mapping rule:

Auto	Input re	solution	Auto/	Scale
Auto	H-resolution	V-resolution	1920	1080
	640	480	1440	1080
	800	600	1440	1080
4:3	1024	768	1440	1080
4.5	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
HDTV	1280	720	1920	1080
VIUN	1920	1080	1920	1080

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 keystone menu

Keystone

Adjust the image distortion caused by tilting the projector.

Audio menu

Audio audio input 2 function menu

Audio Input 2 Function

Select the port between Audio 2 and Mic (Type 3).

Audio mic volume menu

Mic Volume (Type 3)

Adjust the microphone volume level.

Audio mute menu

<u>Mute</u>

Use this option to temporarily turn off the sound.

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

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

Audio volume menu

<u>Volume</u>

Adjust the audio 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 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 300hr, 500hr, 800hr, and 1000hr.

Filter Reset

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

Setup power settings menu

Direct Power On

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

Signal Power On

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

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

Auto Power Off (min)

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

Sleep Timer (min)

Configure the sleep timer.

- **Sleep Timer (min):** Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).
 - Note: The Sleep Timer is reset every time when the projector is powered off.
 - Always On: Check to set the sleep timer always on.

Quick Resume

Set the quick resume setting.

- **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.
- **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.

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.

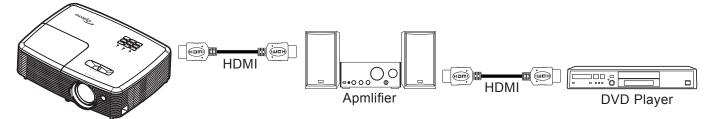
Change Password

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

Setup HDMI link settings menu (Type 2)

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 Off Link

Enable this function to let both HDMI Link and projector to be automatically turned off at the same time.

Setup test pattern menu

Test Pattern

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

Setup remote settings menu

IR Function

Set the IR function setting.

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

User1/ User2/ User3

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

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.

Input Source

Select the input source between HDMI1, HDMI2/MHL (Type 2 and Type 3), VGA, VGA1 (Type 3), S-video (Type 3), video.

Input Name

Use to rename the input function for easier identification. The available options include HDMI, HDMI1, HDMI2/MHL (Type 2 and Type 3), VGA, VGA1 (Type 3), video, wireless, network display.

VGA Out

Select the VGA out source between VGA1, VGA2, or set the source automatically (Auto).

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 "On" to hide the info message.
- **On:** Choose "Off" to show the "searching" 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**: Use stored picture from "Logo Capture" function.

Logo Capture

Select "Yes" to capture logo or "Cancel" to cancel logo capturing.

Background Color

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

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.

Network LAN menu (Type 3)

Network Status

Display the network connection status (read-only).

MAC Address

Display the MAC address (read-only).

<u>DHCP</u>

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.

<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 *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.

Uccal Area Connection 2 Properties		
Networking		A (TCD/ID: A) Branatics
Connect using:	Internet Protocol Version	4 (TCP/IPv4) Properties
Atheros AR8151 PCI-E Gigabit Ethemet Controller (NDIS 6	General	
Configure		assigned automatically if your network supports e, you need to ask your network administrator ettings.
Client for Microsoft Networks	Obtain an IP address	ss automatically
Gos Packet Scheduler Gos Packet Sc	• Use the following IF	P address:
 File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) 	IP address:	192 . 168 . 0 . 99
Internet Protocol Version 4 (TCP/IPv4)	Subnet mask:	255 . 255 . 255 . 0
Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder	Default gateway:	192.168.0.254
	Obtain DNS server	address automatically
Install Uninstall Properties	Ose the following D	INS server addresses:
Description	Preferred DNS server	: 192.168.0.1
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication	Alternate DNS server:	
across diverse interconnected networks.	🔲 Vaļidate settings u	ipon 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>Apply</u>

Apply all values for LAN parameters.

г

<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).

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).

<u>Telnet</u>

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

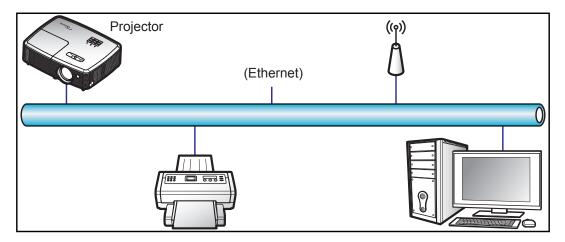
<u>HTTP</u>

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/

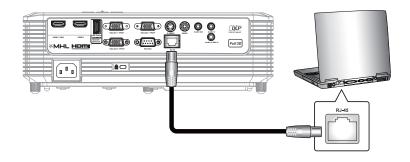
This projector supports all commands of PJLink Class1 (Version 1.00).

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

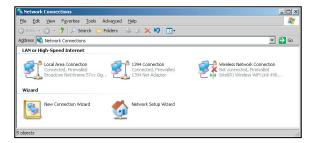
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (laptop).



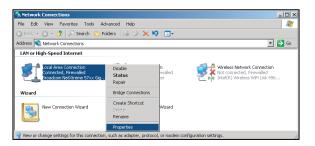
2. On the PC (Laptop), select Start > Control Panel > Network Connections.

Administrator	
Internet Internet Explorer	My Documents
F-mail	My Recent Documents →
Outlook Express	My Pictures
Windows Media Player	🕑 My Music
X Windows Messenger	🗾 My Computer
Tour Windows XP	Control Panel
Windows Movie Maker	Connect To
Files and Settings Transfer Wizard	Printers and Faxes
	Help and Support
	Search
All Programs 🕨	7 Run
	🖉 Log Off 🛛 💽 Turn Off Computer
🗶 Start 🥭 🗹 🞯	

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".

Connect using:	
Broadcom NetXtreme 57xx Gigabit Co	Configure
This connection uses the following items:	
🗹 📕 QoS Packet Scheduler	[
Network Monitor Driver Network Protocol (TCP/IP)	
• menerrooco(rcr/r)	
•	
Install	Properties
Description	
Transmission Control Protocol/Internet Pro wide area network protocol that provides across diverse interconnected networks.	
Show icon in notification area when con	nected
Notify me when this connection has limite	ed or no connectivity

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

Internet Protocol Version 4 (TCP/IPv4	4) Properties
General	
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator
Obtain an IP address automatic	aly
Use 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 aut	omatically
Use the following DNS server a	ddresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
Valjdate settings upon exit	Adganced
	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: 192.168.0.1
- 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".

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

Model: Optoma			Tool	Info	Contact IT Help
	otoma				
	Projector Information		Projector	Status	
Projector Name	Optoma W/XGA	Power Status	Power On.		
Location		Source	Video		
		Display Mode	Cinema		
Firmware Version		Projection	Front		
MAC Address	00:50:41:7F:D4:40				
Resolution	NTSC				
Lamp Hours	3	Brightness Mode	Bright		
Assigned to	Optoma Projector	Error Status	0:No Error		
	-				
		exit			
	-				
-					
CRESTRON	v			Б	spansion Options

Main page

	na		Tool		Info	Contact IT Help
Power	Vol -	Mute	Vol +		-	_
Sources List						Interface 2.7.2.7
VGA						
Video				Menu		Re-Sync
					Enter	
				AV mute	•	Source
	reeze Con	trast Brigh	tness	Sharpness	•	
CRESTRON					E	xpansion Options

Tool page

Model: Optoma			Tool	Info	Contact IT Help
Optomo	1				
Crestron Control IP Address [192.168.0.7 IP ID 7 Port 41794	Projector Name Location Assigned to	Projector Optoma WXGA Optoma Projector	New Password Confirm		sword
Send	DHCP IP Address Subnet Mask Default Gateway	Send Enabled 192.168.0.100 255.255.255.0	New Password Confirm	Admin Pa	
CORESTION		exit		Exp	Send

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.

•	Set Program Access and Defaults				
10	Windows Catalog				
٩	Windows Update				
1	New Office Document				
6	Open Office Document				
5	Program Updates				
iii	Accessories	Þ	6	Accessibility	•
	Games	Þ	1	Entertainment	•
	Startup		1	System Tools	•
۲	Internet Explorer		3	Address Book	
1	MSN Explorer			Calculator	
3	Outlook Express		015	Command Prompt	
1	Remote Assistance			Notepad	
Θ	Windows Media Player		¥	Paint	
:8	Windows Messenger		0	Program Compatibility Wize	ard

- 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
- Current Input Source
- Resolution
- Refresh Rate
- Network Status
- IP Address
- Projector ID
- Remote Code
- Remote Code (Active)
- Display Mode
- Power mode(standby)
- Brightness Mode
- Filter Hours
- Lamp Hours
- FW Version
- Update

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.

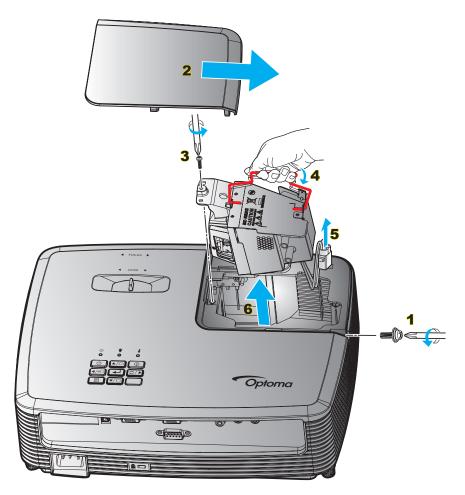


Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!

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 "**U**" 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".

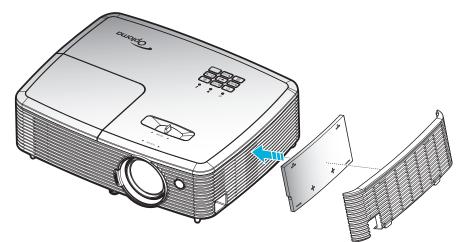
Note:

- 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



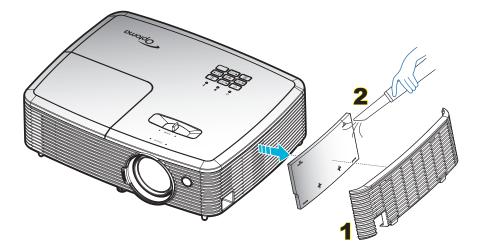
Note: Dust filters are only required/supplied in the selected regions with excessive dust.

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 "U" 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.



Compatible resolutions

Digital compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720x400 @ 70Hz	SVGA:	Native timing:	640x480p @ 60Hz	720x480p @ 60Hz
640x480 @ 60Hz	800x600 @ 120Hz	XGA: 1024x768 @ 60Hz	720x480p @ 60Hz	1280x720p @ 60Hz
640x480 @ 67Hz	1024x768 @ 120Hz	WXGA: 1280x800 @ 60Hz; 1280x720 @ 60Hz	1280x720p @ 60Hz	1366x768 @ 60Hz
640x480 @ 72Hz	1280x800 @ 60Hz	1080P: 1920x1080 @ 60Hz	1920x1080i @ 60Hz	1920x1080i @ 50Hz
640x480 @ 75Hz	1280x1024 @ 60Hz		720(1440)x480i @ 60Hz	1920x1080p @ 60Hz
800x600 @ 56Hz	1680x1050 @ 60Hz		1920x1080p @ 60Hz	
800x600 @ 60Hz	1280x720 @ 60Hz		720x576p @ 50Hz	
800x600 @ 72Hz	1280x720 @ 120Hz		1280x720p @ 50Hz	
800x600 @ 75Hz	1600x1200 @ 60Hz		1920x1080i @ 50Hz	
832x624 @ 75Hz	XGA/WXGA:		720(1440)x576i @ 50Hz	
1024x768 @ 60Hz	1440x900 @ 60Hz		1920x1080p @ 50Hz	
1024x768 @ 70Hz	1024x768 @ 120Hz		1920x1080p @ 24Hz	
1024x768 @ 75Hz	1280x800 @ 60Hz		1920x1080p @ 30Hz	
1280x1024 @ 75Hz	1280x1024 @ 60Hz			
1152x870 @ 75Hz	1680x1050 @ 60Hz			
	1280x720 @ 60Hz			
	1280x720 @ 120Hz			
	1600x1200 @ 60Hz			
	1080P:			
	1280x720 @ 60Hz			
	1280x800 @ 60Hz			
	1280x1024 @ 60Hz			
	1400x1050 @ 60Hz			
	1600x1200 @ 60Hz			
	1440x900 @ 60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

Analog compatibility

B0/Established Timing	B0/Standard Timing	B0/Detail Timing	B1/Video Mode	B1/Detail Timing
720x400 @ 70Hz	SVGA:	Native timing:		1366x768 @ 60Hz
640x480 @ 60Hz	800x600 @ 120Hz	XGA: 1024x768 @ 60Hz		
640x480 @ 67Hz	1024x768 @ 120Hz	WXGA: 1280x800 @ 60Hz; 1280x720 @ 60Hz		
640x480 @ 72Hz	1280x800 @ 60Hz	1080P: 1920x1080 @ 60Hz		
640x480 @ 75Hz	1280x1024 @ 60Hz			
800x600 @ 56Hz	1680x1050 @ 60Hz			
800x600 @ 60Hz	1280x720 @ 60Hz			
800x600 @ 72Hz	1280x720 @ 120Hz			
800x600 @ 75Hz	1600x1200 @ 60Hz			
832x624 @ 75Hz	XGA/WXGA:			
1024x768 @ 60Hz	1440x900 @ 60Hz			
1024x768 @ 70Hz	1024x768 @ 120Hz			
1024x768 @ 75Hz	1280x800 @ 60Hz			
1280x1024 @ 75Hz	1280x1024 @ 60Hz			
1152x870 @ 75Hz	1680x1050 @ 60Hz			
	1280x720 @ 60Hz			
	1280x720 @ 120Hz			
	1600x1200 @ 60Hz			
	1080P:			
	1280x720 @ 60Hz			
	1280x800 @ 60Hz			
	1280x1024 @ 60Hz			
	1400x1050 @ 60Hz			
	1600x1200 @ 60Hz			
	1440x900 @ 60Hz			
	1280x720 @ 120Hz			
	1024x768 @ 120Hz			

True 3D video compatibility

		Input timing					
		1280x720P @ 50Hz	Top - and - Bottom				
		1280x720P @ 60Hz	Top - and - Bottom				
		1280x720P @ 50Hz	Frame packing				
	HDMI 1.4a 3D Input	1280x720P @ 60Hz	Frame packing				
	P	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				
		1920x1080i @ 50Hz					
		1920x1080i @ 60Hz					
Input resolution		1280x720P @ 50Hz	Side-by-Side(Half)				
		1280x720P @ 60Hz		SBS mode is on			
		800 x 600 @ 60Hz					
		1024 x 768 @ 60Hz					
		1280 x 800 @ 60Hz					
	HDMI 1.3	1920x1080i @ 50Hz					
		1920x1080i @ 60Hz					
		1280x720P @ 50Hz					
		1280x720P @ 60Hz	Top-and-Bottom	TAB mode is on			
		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.

Image size and projection distance

(XGA)

Diagonal		Screen Size W x H Projection Distance (D)						Offset (Hd)			
Length Size of	(r	n)	(in	ch)	(r	n)	(fe	(feet)		Oliset (Hu)	
(4:3) Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)	
33	0.67	0.5	26.40	19.8	1.0	1.3	3.28	4.27	0.08	3.15	
40	0.81	0.61	32.00	24	1.2	1.6	3.94	5.25	0.09	3.54	
50	1.02	0.76	40.00	30	1.5	2.0	4.92	6.56	0.12	4.72	
60	1.22	0.91	48.00	36	1.8	2.4	5.91	7.87	0.14	5.51	
70	1.42	1.07	56.00	42	2.1	2.7	6.89	8.86	0.16	6.30	
80	1.63	1.22	64.00	48	2.4	3.1	7.87	10.17	0.18	7.09	
90	1.83	1.37	72.00	54	2.7	3.5	8.86	11.48	0.21	8.27	
100	2.03	1.52	80.00	60	3.0	3.9	9.84	12.80	0.23	9.06	
120	2.44	1.83	96.00	72	3.6	4.7	11.81	15.42	0.27	10.63	
150	3.05	2.29	120.00	90	4.5	5.9	14.76	19.36	0.34	13.39	
180	3.66	2.74	144.00	108	5.4	7.1	17.72	23.29	0.41	16.14	
200	4.06	3.05	160.00	120	6.0	7.8	19.69	25.59	0.46	18.11	
250	5.08	3.81	200.00	150	7.6	9.8	24.93	32.15	0.57	22.44	
300	6.10	4.57	240.00	180	9.1	11.8	29.86	38.71	0.69	27.17	

Note: Zoom ratio is 1.3x.

(WXGA)

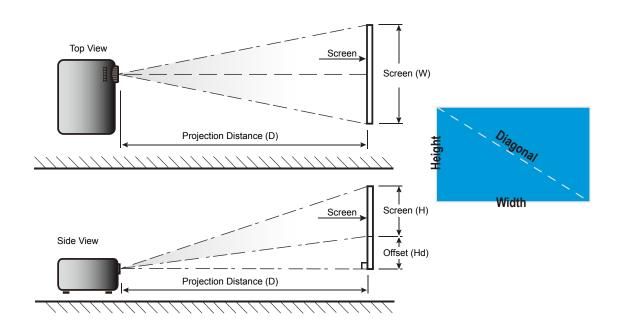
Diagonal		Screen S	ize W x H			Projection I	Distance (D)	Offee	4 /니러)	
Length Size of	(n	n)	(in	ch)	(r	n)	(fe	(feet)		Offset (Hd)	
(4:3) Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)	
39	0.84	0.53	33.07	20.67	1.0	1.3	3.28	4.27	0.06	2.36	
40	0.86	0.54	33.92	21.2	1.0	1.3	3.28	4.27	0.07	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	2.6	3.3	8.53	10.83	0.16	6.30	
120	2.58	1.62	101.76	63.6	3.1	4.0	10.17	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	6.7	16.73	21.98	0.34	13.39	
250	5.38	3.37	212.00	132.5	6.4	8.3	21.00	27.23	0.41	16.14	
300	6.46	4.04	254.40	159	7.7	10.0	25.26	32.81	0.50	19.69	

Note: Zoom ratio is 1.3x.

(1080P)

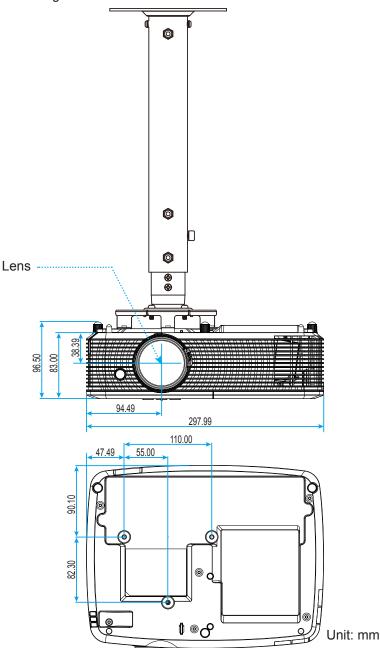
Diagonal		Screen S	ize W x H		Ĩ	Projection I)				
Length Size of	(r	n)	(in	ch)	(r	n)	(fe	(feet)		Offset (Hd)	
(16:9) Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)	
36	0.80	0.45	31.38	17.65	0.9	1.2	2.95	3.94	0.07	2.76	
40	0.89	0.5	34.86	19.6	1.0	1.3	3.28	4.27	0.08	3.15	
50	1.11	0.62	43.58	24.5	1.3	1.6	4.27	5.25	0.10	3.94	
60	1.33	0.75	52.29	29.4	1.5	2.0	4.92	6.56	0.12	4.72	
70	1.55	0.87	61.01	34.3	1.8	2.3	5.91	7.55	0.14	5.51	
80	1.77	1	69.73	39.2	2.0	2.6	6.56	8.53	0.16	6.30	
90	1.99	1.12	78.44	44.1	2.3	2.9	7.55	9.51	0.18	7.09	
100	2.21	1.25	87.16	49	2.5	3.3	8.20	10.83	0.19	7.48	
120	2.66	1.49	104.59	58.8	3.0	3.9	9.84	12.80	0.24	9.45	
150	3.32	1.87	130.74	73.5	3.8	4.9	12.47	16.08	0.30	11.81	
180	3.98	2.24	156.88	88.2	4.5	5.9	14.76	19.36	0.36	14.17	
200	4.43	2.49	174.32	98.1	5.0	6.5	16.40	21.33	0.40	15.75	
250	5.53	3.11	217.89	122.6	6.3	8.1	20.67	26.57	0.50	19.69	
300	6.64	3.74	261.47	147.1	7.5	9.8	24.61	32.15	0.59	23.23	

Note: Zoom ratio is 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*3
- Minimum screw length: 10mm



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



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

IR remote 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	(I)	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

Key legend		Description	Key code
HDMI	HDMI	Press to choose HDMI source.	86
VGA	VGA	Press to choose VGA source.	8E
Video	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	۲	Automatically synchronize the projector to the input source.	C4

IR remote control 2 codes



Кеу		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	阙	92	溪	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.	
	\sim	C6	Up arrow		
Four directional select		C8	Left arrow	Use ▲ ▼ ◀ ► to select items or make adjustments to	
keys		C9	Right arrow	your selection.	
		C7	Down arrow		
Enter		C5	Enter	Confirm your item selection.	
		CA	Enter		
Page -		C2	Page-	Press to page down.	

Кеу		Key code	Printing-key definition	Description	
Laser		N/A	Laser	Use as laser pointer.	
Page +		C1	Page+	Press to page up.	
V Keystone	-+	85	Keystone+	Press to adjust image distortion caused by tilting the	
Viceystone	$\bigcirc \bigcirc$	84	Keystone-	projector.	
Volume	-+	8C	Volume +	Press to adjust to increase / decrease the volume.	
Volumo	$\bigcirc \bigcirc$	8F	Volume -		
Aspect ratio / 1		98	1	• Press to change aspect ratio of a displayed image.	
				Use as numeric keypad number "1".	
Menu / 2	Menu / 2		Menu/2	 Press to display or exit the on-screen display menus for projector. 	
				• Use as numeric keypad number "2".	
3D / 3		93	93 3D/3	• Press to manually select a 3D mode that matches your 3D content.	
				• Use as numeric keypad number "3".	
		86 HI		Press to choose HDMI source.	
HDIVII / 4	HDMI / 4		HDMI/4	• Use as numeric keypad number "4".	
			Press to choose VGA source.		
VGA / 5		D0	VGA/5	• Use as numeric keypad number "5".	
		D1 Vi		Press to choose composite video source.	
Video / 6	Video / 6		Video/6	• Use as numeric keypad number "6".	
			User 1/7	• User defined keys. Please see page 45 to setup.	
User1 / 7; User2 / 8; User3 / 9		D3	User 2/8	• Use as numeric keypad numbers "7", "8", and "9"	
		D4	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.	
mode / 0				• Use as numeric keypad number "0".	
Re-sync		C4	Re-Sync	Press to automatically synchronize the projector to the input source.	

Troubleshooting

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

Image problems

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No image appears on-screen

- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- Ensure the pins of connectors are not crooked or broken.
- Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section.
- Ensure that the "AV Mute" feature is not turned on.
- Image is out of focus
 - Adjust the Focus Ring on the projector lens.
 - 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
 - Adjust the zoom lever on the top of the projector.
 - Move the projector closer to or further from the screen.
 - Press "Menu" on the projector panel, go to "Display-->Aspect Ratio". Try the different settings.
- Image has slanted sides:
 - If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
 - 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 "Off" to avoid normal 2D image is blurry double image.

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 *55-56*.

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.

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	し O Power LED	し O Power LED	∦ ⊖ Temp-LED	🍟 🔿 Lamp-LED
	(Red)	(Green or Blue)	(Red)	(Red)
Standby state (Input power cord)	Steady light			
Standby state (Burn in mode)	Flashing (0.5 sec off / 0.5 sec on)	Flashing (0.5 sec off / 0.5 sec on)	Flashing (0.5 sec off / 0.5 sec on)	Flashing (0.5 sec off / 0.5 sec on)
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Burn in (Warming)		Flashing		
Power on (Burn in mode)		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 light). Back to red steady light when cooling fan turns off.		
Burn in (Cooling)		Flashing		
Quick Resume (100 secs)		Flashing (0.25 sec off / 0.25 sec on)		
Error (Over temp.)	Flashing		Steady light	
Error (Fan failure)	Flashing		Flashing	
Error (Lamp failure)	Flashing			Steady light

Power off:



Lamp warning:

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Temperature warning:

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

• Fan failed:



• Out of display range:



Power down warning:



• Security timer alarm:



Specifications

Optical	Description		
Native resolution	XGA/ WXGA		
Lens	- Manual zoom and manual focus		
Image size (diagonal)	22.9"~252" (overdrive to 300")		
Projection distance	1m ~ 10m (focus range) (overdrive to 12m)		
Electrical	Description		
Color reproduction	1073.4 Million color		
Scan rate	- Horizontal scan rate: 15.375~91.146 KHz		
Scannate	- 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		
Mechanical	Description		
Installation orientation	Front, Rear, Ceiling - Front, Rear - top		
Dimensions	- 298 mm (W) x 230 mm (D) x 83 mm (H) (without feet)		
Dimensions	- 298 mm (W) x 230 mm (D) x 96.5 mm (H) (with feet)		
Weight	2.5 kg		
Environmental conditions	Operating in 5 ~ 40°C , 10% to 85% humidity (non-condensing)		

Note: All specifications are subject to change without notice.

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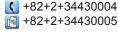
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