

DLP® Projector

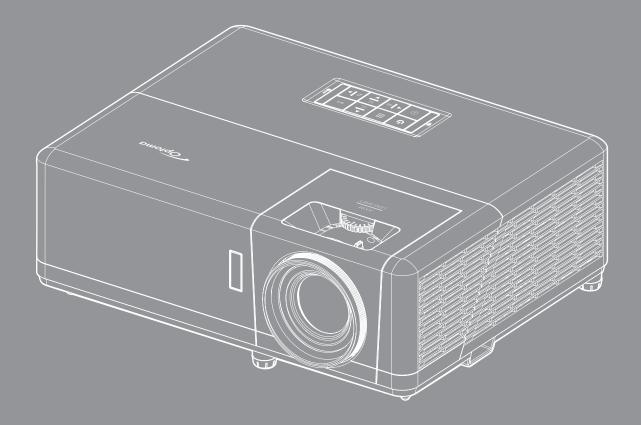














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SAFETY



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.

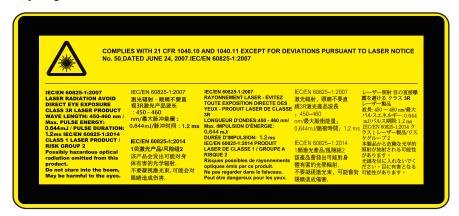
As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.

- 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 unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside.
- Do not place the projector on an unstable surface. The projector may fall over resulting in injury or the projector may become damaged.
- Do not block the light coming out of the projector lens when in operation. The light will heat the object and may melt, cause burns or start a fire.
- Please do not open or disassemble the projector as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- See projector enclosure for safety related markings.

- The unit should only be repaired by authorized service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look into straight into the projector lens during operation. The bright light may harm your eyes.
- This projector will detect the life of the light source itself.
- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the unit.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.
- Do not setup the projector in places where it might be subjected to vibration or shock.
- Do not touch the lens with bare hands.
- Remove battery/batteries from remote control before storage. If the battery/batteries are left in the remote for long periods, they may leak.
- Do not use or store the projector in places where smoke from oil or cigarettes may be present, as it can adversely affect the quality of the projector performance.
- Please follow the correct projector orientation installation as non standard installation may affect the projector performance.
- Use a power strip and or surge protector. As power outages and brown-outs can KILL devices.

Laser Radiation Safety Information

- This product is classified as CLASS 1 LASER PRODUCT RISK GROUP 2 of IEC 60825-1 : 2014
- This product is classified as Class 3R of IEC 60825-1:2007 and also complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007.
- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015



- CLASS 3R LASER PRODUCT-AVOID DIRECT EYE EXPOSURE
- When turning on the projector, make sure no one within projection range is looking at the lens.
- Keep any items (magnifying glass etc.) out of the light path of the projector. The light path being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause an unpredictable outcome such as a fire or injury to the eyes.
- Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.
- Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.

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

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.

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 quarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on is encouraged to try to correct the interference by one or more of the following measures:

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

Notice: Shielded cables

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

Caution

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

Operation Conditions

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

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

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU countries

- EMC Directive 2014/30/EU (including amendments)
- Low Voltage Directive 2014/35/EU
- RED 2014/53/EU (if product has RF function)

WEEE



Disposal instructions

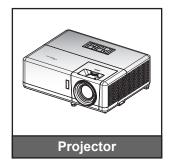
Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

Package Overview

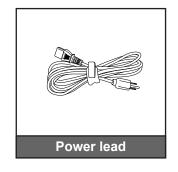
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

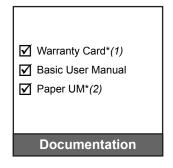
The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

Standard accessories





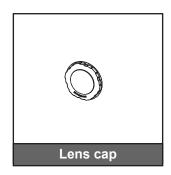


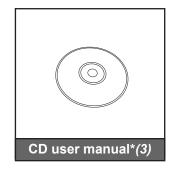


Note:

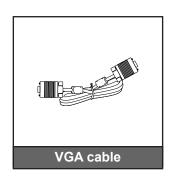
- The remote control is shipped with the battery.
- *(1) For European warranty Information, please visit www.optoma.com.
- *(2) Available only for Asian region.

Optional accessories









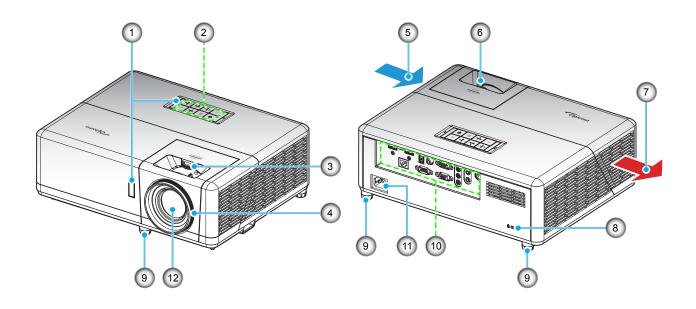


Note:

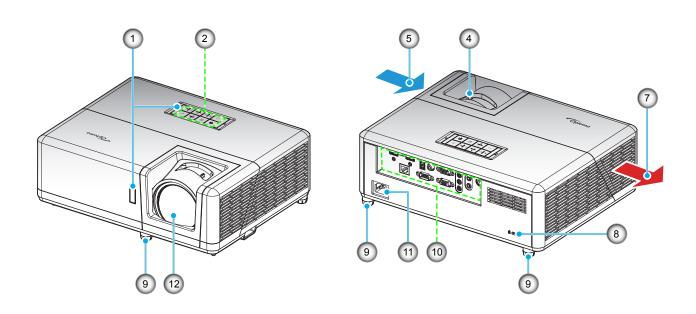
- Optional accessories vary depending on model, specification and region.
- *(3) Available only for USA and Asian regions.

Product Overview

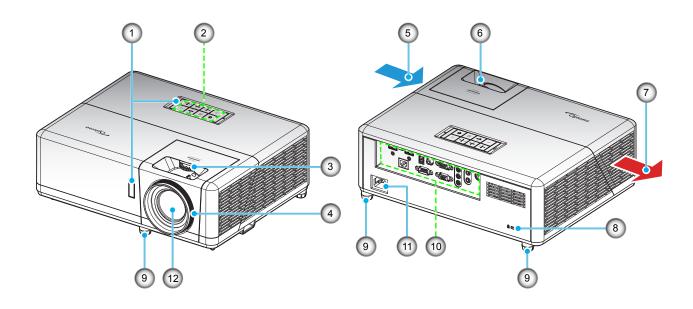
1080p/WXGA model



1080p Short Throw model



WUXGA model

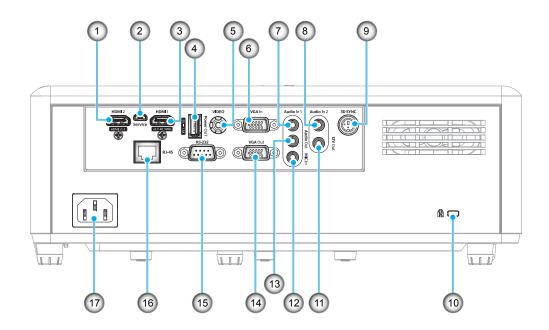


Note:

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

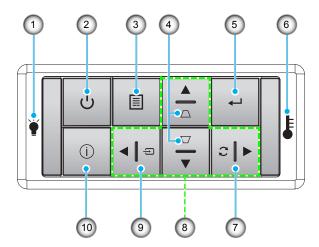
No	Item	No	Item
1.	IR Receivers	7.	Ventilation (outlet)
2.	Keypad	8.	Kensington™ Lock Port
3.	Lens Shift Dial	9.	Tilt-Adjustment Feet
4.	Focus Ring/Focus Lever	10.	Input / Output
5.	Ventilation (inlet)	11.	Power Socket
6.	Zoom Lever	12.	Lens

Connections



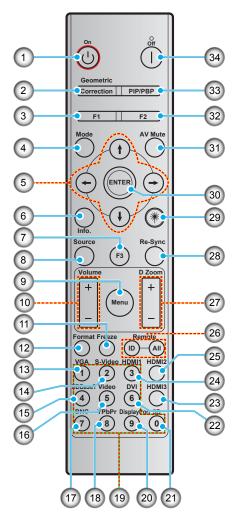
No	Item	No	ltem
1.	HDMI 2 Connector	10.	Kensington™ Lock Port
2.	Micro USB Connector	11.	12V Out Connector
3.	HDMI 1 / MHL Connector	12.	MIC In Connector
4.	USB Power Out (5V=1.5A) Connector	13.	Audio Out Connector
5.	Video Connector	14.	VGA Out Connector
6.	VGA In Connector	15.	RS-232 Connector
7.	Audio In 1 Connector	16.	RJ-45 Connector
8.	Audio In 2 Connector	17.	Power Socket
9.	3D Sync Connector		

Keypad



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

Remote control



No	Item	No	Item
1.	Power on	18.	YPbPr (not supported)
2.	Geometric Correction	19.	Numeric keypad (0-9)
3.	Function button (F1) (Assignable)	20.	Display port (not supported)
4.	Mode	21.	3D
5.	Four directional select keys	22.	DVI (not supported)
6.	Information	23.	HDMI3 (not supported)
7.	Function button (F3) (Assignable)	24.	HDMI1
8.	Source	25.	HDMI2
9.	Menu	26.	Remote ID / Remote all
10.	Volume - / +	27.	Digital Zoom - / +
11.	Freeze	28.	Re-sync
12.	Format (Aspect Ratio)	29.	Laser (not supported)
13.	VGA	30.	Enter
14.	S-Video (not supported)	31.	AV Mute
15.	HDBase-T (not supported)	32.	Function button (F2) (Assignable)
16.	Video	33.	PIP/PBP (not supported)
17.	BNC (not supported)	34.	Power off

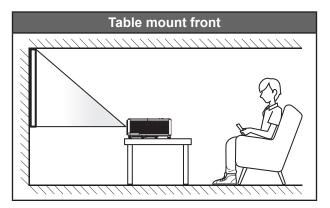
Note: Some keys may have no function for models that do not support these features.

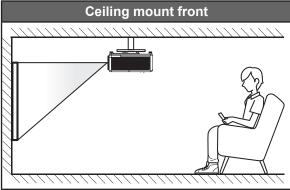
Installing the projector

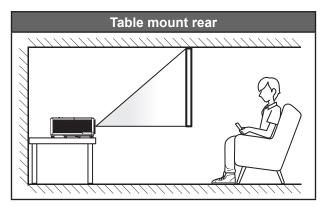
Your projector is designed to be installed in one of four possible positions.

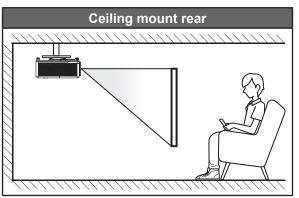
Your room layout or personal preference will dictate which installation location you select. Take into consideration the size and position of your screen, the location of a suitable power outlet, as well as the location and distance between the projector and the rest of your equipment.

1080p/WXGA/WUXGA model

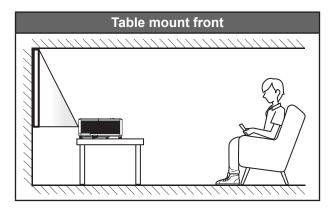


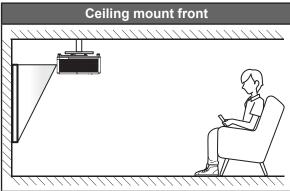


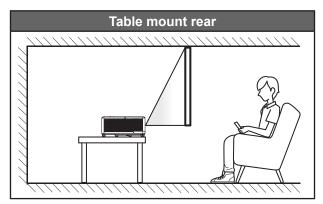


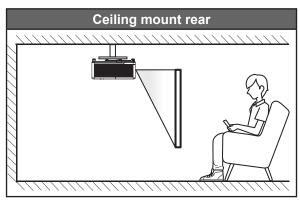


1080p Short Throw model









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 61-63.
- How to determine screen size for a given distance, please refer to distance table on pages 61-63.

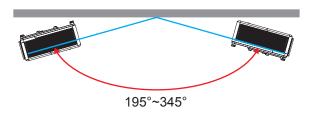
Note: The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.

IMPORTANT!

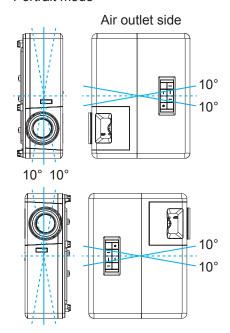
Do not operate the projector in any orientation other that table top or ceiling mount. The projector should be horizontal and not tilted either forwards/backwards or left/right. Any other orientation will invalidate the warranty and may shorten the lifetime of the projector light source or the projector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

Projector installation notice

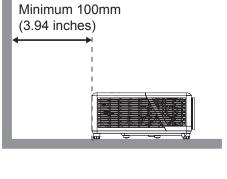
Note: Projector brightness will be decreased to 70% lumen and fan full load.

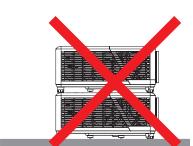


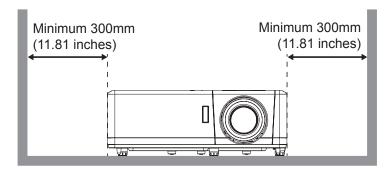
Portrait mode

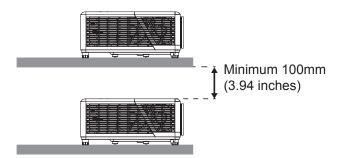


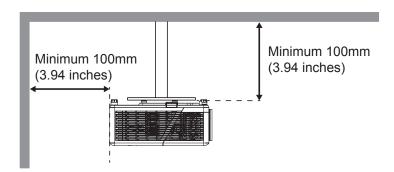
• Allow at least 30 cm clearance around the exhaust vent.





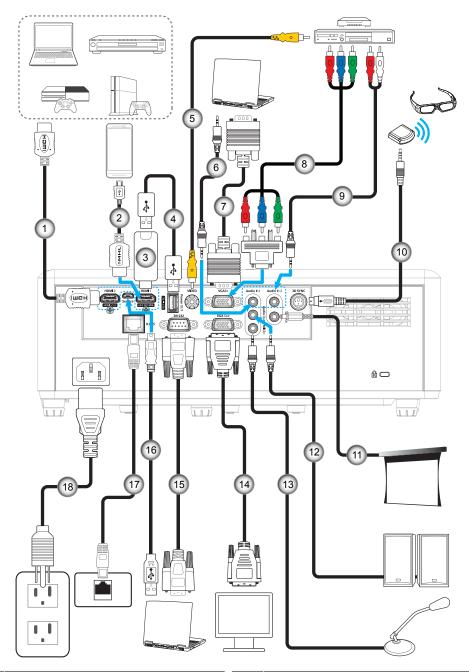






- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents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

Connecting sources to the projector



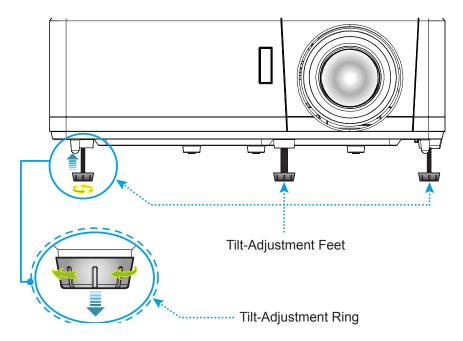
No	Item		Item
1.	HDMI Cable	10.	3D Emitter Cable
2.	MHL Cable	11.	12V DC Jack
3.	HDMI Dongle	12.	Audio Out Cable
4.	USB Power Cable	13.	Microphone Cable
5.	Video Cable	14.	VGA Out Cable
6.	Audio In Cable	15.	RS232 Cable
7.	VGA In Cable	16.	USB Cable
8.	RCA Component Cable	17.	RJ-45 Cable
9.	Audio In Cable	18.	Power Cord

Adjusting the projector image

Image height

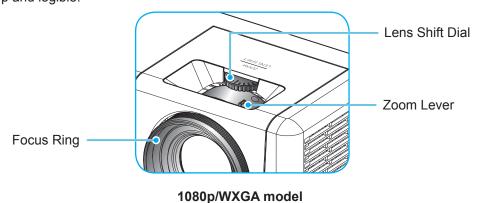
The projector is equipped with elevator feet for adjusting the image height.

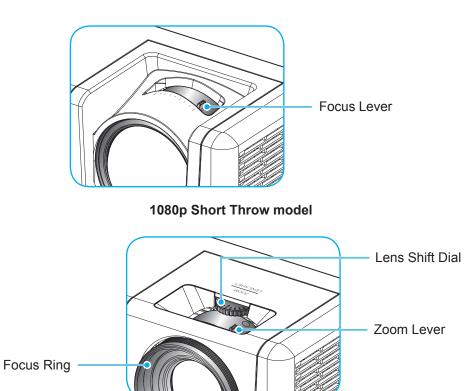
- Locate the adjustable foot you wish to adjust on the underside of the projector.
- 2. Rotate the adjustable foot clockwise or counterclockwise to raise or lower the projector.



Zoom, lens shift, 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 image position, turn the lens shift dial clockwise or counterclockwise to adjust the position of the projected image vertically.
- To adjust the focus, turn the focus ring/focus lever clockwise or counterclockwise until the image is sharp and legible.





WUXGA model

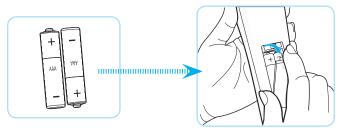
Note: 1080p Short Throw model does not support the zoom and lens shift function functions.

Remote setup

Installing / replacing the batteries

Two AAA size batteries are supplied for the remote control.

- 1. Remove the battery cover on the back of the remote control.
- 2. Insert AAA batteries in the battery compartment as illustrated.
- 3. Replace back cover on remote control.



Note: Replace only with the same or equivalent type batteries.

CAUTION

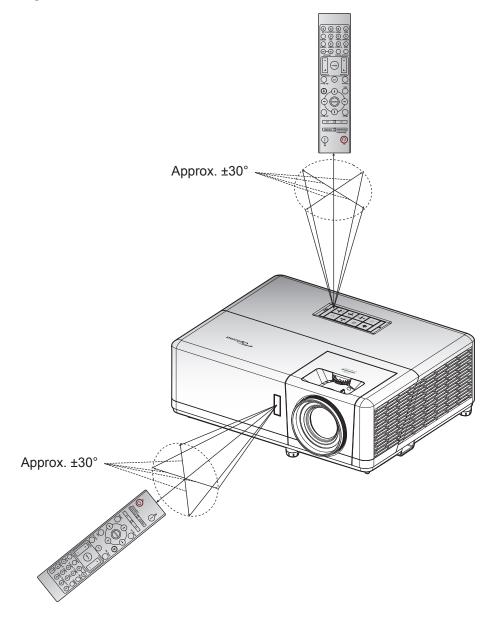
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as the are depleted. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control for an extended period of time, remove the batteries.
- When you dispose of the batteries, you must obey the law in the relative area or country.

Effective range

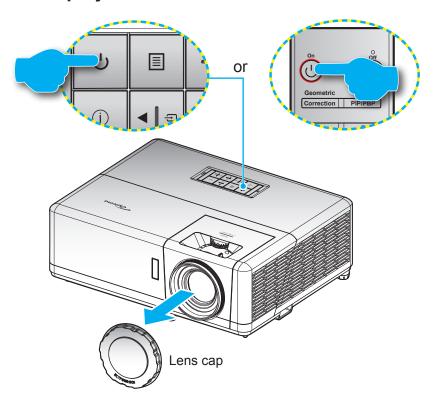
Infra-Red (IR) remote control sensor is located on the top and front sides of the projector. Ensure to hold the remote control at an angle within 60 degrees perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer than 12 meters (39.4 feet).

- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being shined by sunlight or fluorescent lamps directly.
- Please keep the remote controller away from fluorescent lamps for over 2 m or the remote controller might become malfunction.
- If the remote control is close to Inverter-Type fluorescent lamps, it might become ineffective from time to time
- If the remote control and the projector are within a very short distance, the remote control might become ineffective.
- When you aim at the screen, the effective distance is less than 5 m from the remote control to the screen and reflecting the IR beams back to the projector. However, the effective range might change according to screens.



USING THE PROJECTOR

Powering on / off the projector



Powering on

- 1. Remove the lens cap.
- 2. Securely connect the power lead and signal/source cable. When connected, the Power LED will turn
- 3. Turn on the projector by pressing the \cup button on the projector keypad or remote control.
- A start up screen will display in approximately 10 seconds and the Power LED will be flashing blue. 4.

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

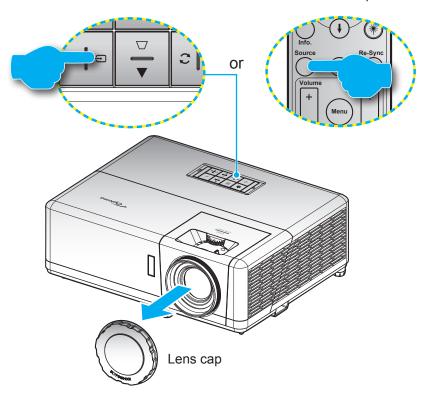


- 3. Press the \bigcup or \mid button again to confirm, otherwise the message will disappear after 15 seconds. When you press the (1) or | button for the second time, the projector will shut down.
- The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the Power 4. LED will flash blue. When the Power turns solid red, this indicates the projector has entered standby mode. If you wish to turn the projector back on, you must wait until the cooling cycle has finished and the projector has entered standby mode. When the projector is in standby mode, simply press the \cup button again to turn on the projector.
- 5. Disconnect the power lead from the electrical outlet and the projector.

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

Selecting an input source

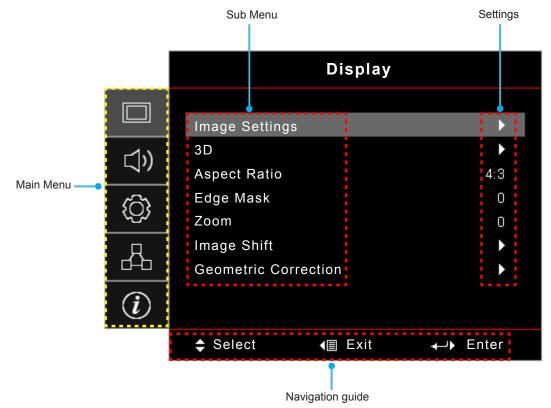
Turn on the connected source that you want to display on the screen, such as computer, notebook, video player, etc. The projector will automatically detect the source. If multiple sources are connected, press the 🖘 button on the projector keypad or the **Source** button on the remote control to select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



Menu navigation and features

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

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



OSD Menu tree

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Presentation
					Bright
					HDR
					Cinema
		Display Mode			Game
					sRGB
					DICOM SIM.
					User
					3D
					Off [Default]
					Blackboard
					Light Yellow
		Wall Color			Light Green
					Light Blue
					Pink
					Gray
		Dynamic Range	HDR		Off
			ПОК		Auto [Default]
			HDR Picture Mode		Bright
Display	Image Settings				Standard [Default]
					Film
					Detail
		Brightness			-50 ~ 50
		Contrast			-50 ~ 50
		Sharpness			1 ~ 15
		Color			-50 ~ 50
		Tint			-50 ~ 50
			Film		
			Video		
			Graphics		
			Standard(2.2)		
			1.8		
		Camma	2.0		
		Gamma	2.4		
			2.6		
			HDR		
			3D		
			Blackboard		
			DICOM SIM.		

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values	
			BrilliantColor™		1 ~ 10	
			Color		Warm	
					Standard	
			Temperature		Cool	
					Cold	
					Red [Default]	
					Green	
					Blue	
				Color	Cyan	
					Yellow	
					Magenta	
			Color Matching		White(*)	
				Hue / R(*)	-50 ~ 50 [Default: 0]	
				Saturation / G(*)	-50 ~ 50 [Default: 0]	
				Gain / B(*)	-50 ~ 50 [Default: 0]	
					Cancel [Default]	
				Reset	Yes	
				Exit		
				Red Gain	-50 ~ 50	
		Color Settings		Green Gain	-50 ~ 50	
				Blue Gain	-50 ~ 50	
Display	Image Settings			Red Bias	-50 ~ 50	
Diopidy	inage cettings		RGB Gain/Bias	Green Bias	-50 ~ 50	
				Blue Bias	-50 ~ 50	
						Cancel [Default]
						Reset
				Exit		
					Auto [Default]	
			Color Space [Not		RGB	
			HDMI Input]		YUV	
					Auto [Default]	
					RGB(0~255)	
			Color Space [HDMI Input]		RGB(16~235)	
			1.0		YUV	
			White Level		0 ~ 31	
			Black Level		-5 ~ 5	
			DIACK LEVEL		-5~5	
		IRE		7.5		
					Off	
			Automatic		On [Default]	
		Ciara d			-10 ~ 10 (depends on signal)	
		Signal	Frequency		[Default: 0]	
			Phase		0~31 (depends on signal) [Default: 0]	

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
		Cianal	H. Position		-5 ~ 5 (depends on signal) [Default: 0]
		Signal	V. Position		-5 ~ 5 (depends on signal) [Default: 0]
					DynamicBlack
	Image Settings				Eco.
		Brightness Mode			Power (Power = 100%/ 95%/ 90%/ 85%/ 80%/ 75%/ 70%/ 65%/ 60%/ 55%/ 50%)
		Reset			
		3D Mode			Off
		3D Wode			On [Default]
		2D Took			DLP-Link [Default]
		3D Tech			3D Sync
					3D [Default]
		3D → 2D			L
					R
	3D	3D Format			Auto [Default]
					SBS
					Top and Bottom
					Frame Sequential
Display					On
		3D Sync Invert			Off [Default]
					Cancel
		Reset			Yes
					4:3
					16:9
	Aspect Ratio				16:10 [Only for WXGA/WUXGA model]
	/ Spect ratio				LBX
					Native
					Auto
	Edge Mask				0 ~ 10 [Default: 0]
	Zoom				-5 ~ 25 [Default: 0]
		н			-100 ~ 100 [Default: 0]
	Image Shift	V			-100 ~ 100 [Default: 0]
		Four Corners			
		H Keystone			-30 ~ 30 [Default: 0]
	Geometric	V Keystone			-30 ~ 30 [Default: 0]
	Correction	Auto Keystone			Off
					On [Default]
		Reset			

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
	Muto				Off [Default]
	Mute				On
	Volume				0 ~ 10 [Default: 5]
					Audio 1
					Audio 2
		HDMI1/MHL			Mic
					Default [Default]
					Audio 1
Audio		LIDAMO			Audio 2
		HDMI2			Mic
	Audio Input				Default [Default]
					Audio 1
		VGA			Audio 2
					Mic
					Audio 1
		Video			Audio 2
					Mic
					Front [Default]
	.				Rear 4 5
	Projection				Ceiling-top
					Rear-top
	Screen Type				16:9
	[Only for WXGA/WUXGA model]				16:10 [Default]
		Direct Power On			Off [Default]
		Direct Fower Off			On
Setup		Signal Power On			Off [Default]
		Signal Power On			On
		Auto Power Off (min.)			0 ~ 180 (5 min increments) [Default: 20]
	Power Settings	Sleep Timer			0 ~ 990 (30 min increments) [Default: 0]
		(min.)	Al		No [Default]
		, ,	Always On		Yes
		Power Mode			Active
		(Standby)			Eco [Default]
		USB Power			Off [Default]
		(Standby)			On

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
		Security			Off
		Security			On
			Month		
	Security	Security Timer	Day		
			Hour		
		Change Password			[Default: 1234]
		LIDMILITAL			Off [Default]
		HDMI Link			On
		La al vai va a f T) /			No [Default]
		Inclusive of TV			Yes
	HDMI Link Settings				Mutual [Default]
	Settings	Power On Link			PJ → Device
					Device → PJ
					Off [Default]
		Power Off Link			On
					Green Grid
					Magenta Grid
	Test Pattern				White Grid
					White
					Off
Setup					On [Default]
		IR Function			Off
		Remote Code			00~99
		Temote odde			Test Pattern
		F1			Brightness
					Contrast
					Sleep Timer [Default]
					Color Matching
					Color Temp
	Remote Settings				Gamma
	[depends on				Projection
	remote]				MHL
					Test Pattern
					Brightness
					Contrast
					Sleep Timer
		F2			Color Matching [Default]
					Color Temp
					Gamma
					Projection
					MHL

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Test Pattern
	Remote Settings [depends on remote]				Brightness
					Contrast
		F3			Sleep Timer
					Color Matching
					Color Temp
					Gamma
					Projection
					MHL [Default]
	Projector ID				00 ~ 99
	12V Trigger				On
					Off
					English [Default]
					Deutsch
					Français
					Italiano
					Español
					Português
					Polski
	Options	Language			Nederlands
					Svenska
Setup					Norsk/Dansk
					Suomi
					ελληνικά
					繁體中文
					簡体中文
					日本語
					한국어
					Русский
					Magyar
					Čeština
					عـربي
					ไทย
					Türkçe
					فارســـی
					Tiếng Việt
					Bahasa Indonesia
					Română
					Slovenčina
					CC1
		Closed Captioning			CC2
					Off [Default]

Main Menu	Sub Menu	Sub Menu 2	Sub Menu 3	Sub Menu 4	Values
					Top left
			Menu Location		Top right
					Center [Default]
		Menu Settings			Bottom left
					Bottom right
			Menu Timer		Off
					5sec
					10sec [Default]
		Auto Source			Off [Default]
					On
		Input Source			HDMI1/MHL
					HDMI2
					VGA
					Video
			HDMI1/MHL -		Default [Default]
					Custom
			HDMI2		Default [Default]
		Input Name			Custom
	Options	,patriame	VGA -		Default [Default]
	Reset				Custom
Setup			Video -		Default [Default]
					Custom
		High Altitude			Off [Default]
					On
		Display Mode			Off [Default]
		Lock			On
		Keypad Lock			Off [Default]
					On
		Information Hide			Off [Default]
					On
		Logo			Default [Default]
					Neutral
					User
		Background Color			None
					Blue [Default]
					Red
					Green
					Gray .
					Logo
		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 Status			(read only)
		MAC Address			(read only)
	LAN				Off [Default]
		DHCP			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			
		Crestron			Off
					On [Default] Note: Port 41794
Network		Extron			Off
					On [Default] Note: Port 2023
		PJ Link			Off
					On [Default] Note: Port 4352
	Control	AMX Device			Off
		Discovery			On [Default] Note: Port 9131
					Off
		Telnet			On [Default] Note: Port 23
		НТТР			Off
					On [Default] Note: Port 80
	Regulatory				
	Serial Number				
	Source				
	Resolution				00x00
	Refresh Rate				0.00Hz
	Display Mode				
	Remote Code				00~99
	Remote Code(Active)				00~99
Info	Power Mode (Standby)				
	Light Source Hours				0 hr
	Network Status				
	IP Address				
	Projector ID				00 ~ 99
	Brightness Mode				
	FW Version	System			
		LAN			
		MCU			

Display menu

Display image settings menu

Display Mode

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

- **Presentation**: This mode is suitable for showing in front of public in connection to the PC.
- Bright: Maximum brightness from PC input.
- HDR: Decodes and displays High Dynamic Range (HDR) content for the deepest blacks, brightest
 whites, and vivid cinematic color using REC.2020 color gamut. This mode will be automatically
 enabled if HDR is set to ON (and HDR Content is sent to projector 4K UHD Blu-ray, 1080p/4K UHD
 HDR Games, 4K UHD Streaming Video). While HDR mode is active, other display modes (Cinema,
 Reference, etc.) cannot be selected as HDR delivers color that is highly accurate, exceeding the color
 performance of the other display modes.
- Cinema: Provides the best colors for watching movies.
- Game: Select this mode to increase the brightness and response time level for enjoying video games.
- sRGB: Standardized accurate color.
- DICOM SIM.: This mode can project a monochrome medical image such as an X ray radiography, MRI, etc.
- User: Memorize user's settings.
- **3D**: To experience the 3D effect, you need to have 3D glasses, make sure your PC/portable device has a 120 Hz signal output guad buffered graphics card and have a 3D Player installed.

Wall Color

Use this function to obtain an optimized screen image according to the wall color. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

Dynamic Range

Configure the High Dynamic Range (HDR) setting and its effect when displaying video from 4K Blu-ray players and streaming devices.

Note: HDMI1 and VGA do not support Dynamic Range.

> HDR

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

➤ HDR Picture Mode

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

Brightness

Adjust the brightness of the image.

Contrast

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

Sharpness

Adjust the sharpness of the image.

Color

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

Adjust the color balance of red and green.

Gamma

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

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

Note:

- These options are only available if the 3D mode function is disabled, the Wall Color setting is not set to Blackboard, and the Display Mode setting is not set to DICOM SIM. or HDR.
- If the Display Mode setting is set to HDR, user can only select HDR for Gamma setting.
- In 3D mode, user can only select 3D for Gamma setting.
- If the Wall Color setting is set to Blackboard, user can only select Blackboard for Gamma setting.
- If the Display Mode setting is set to DICOM SIM., user can only select DICOM SIM. for Gamma setting.

Color Settings

Configure the color settings.

- BrilliantColor™: This adjustable item utilizes a new color-processing algorithm and enhancements to enable higher brightness while providing true, more vibrant colors in picture.
- Color Temperature: Select a color temperature from Warm, Standard, Cool, or Cold.
- Color Matching: Select the following options:
 - Color: Adjust the red, green, black, cyan, yellow, magenta, and white level of the image.
 - Hue / R(red)*: Adjust the color balance of red and green.
 - Note: *If the Color setting is set to White, you can adjust the red color setting.
 - Saturation / G(green)*: Adjust a video image from black and white to fully saturated color.
 - Note: *If the Color setting is set to White, you can adjust the green color setting.
 - Gain / B(blue)*: Adjust the image brightness.
 - Note: *If the Color setting is set to White, you can adjust the blue color setting.
 - Reset: Return the factory default settings for color matching.
 - Exit: Exit the "Color Matching" menu.
- RGB Gain/Bias: This settings allows to configure the brightness (gain) and contrast (bias) of an image.
 - Reset: Return the factory default settings for RGB gain/bias.
 - Exit: Exit the "RGB Gain/Bias" menu.

- Color Space (non-HDMI input only): Select an appropriate color matrix type from the following: AUTO, RGB, or YUV.
- Color Space (HDMI input only): select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.
- White Level: Allow user to adjust White Level when inputting Video signals.

Note: White level can only be adjusted for Video/S-Video input sources.

Black Level: Allow user to adjust Black Level when inputting Video signals.

Note: Black level can only be adjusted for Video/S-Video input sources.

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

Brightness Mode

Adjust the brightness mode settings.

- **DynamicBlack**: Use to automatically adjust the picture brightness in order to give optimum contrast performance.
- **Eco.**: Choose "Eco." to dim the projector lamp which will lower power consumption and extend the lamp life.
- Power: Choose the power percentage for brightness mode.

Reset

Return the factory default settings for color settings.

Display 3D menu

Note:

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

3D Mode

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

- Off: Select "Off" to turn off 3D mode.
- On: Select "On" to turn on 3D mode.

3D Tech

Use this option to select 3D technology.

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

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

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.

Return the factory default setting for 3D settings.

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

Display aspect ratio menu

Aspect Ratio

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

- 4:3: This format is for 4:3 input sources.
- 16:9: This format is for 16:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- **16:10** (for WXGA/WUXGA model only): This format is for 16:10 input sources, like widescreen laptops.
- **LBX**: This format is for non-16x9, letterbox source and if you use external 16x9 lens to display 2.35:1 aspect ratio in full resolution.
- Native: This format displays the original image without any scaling.
- Auto: Automatically selects the appropriate display format.

Note:

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

1080p scaling table:

16:9 screen	480i/p	576i/p	1080i/p	720p	PC	
4x3	Scale to 1440x10	30.				
16x9	Scale to 1920x10	30.				
LBX	Scale to 1920x144	Scale to 1920x1440, then get the central 1920x1080 image to display.				
Native mode	- 1:1 mapping centered.					
	- No scaling will be made; the image is displayed with the resolution based on input source.					
Auto	- If auto format is s	elected, the scree	n type will automation	cally become16:9 (1	920x1080).	
	- If source is 4:3, the screen type will be scaled to 1440 x1080.					
	- If source is 16:9, the screen type will be scaled to 1920x1080.					
	- If source is 16:10 display.	, the screen type w	vill be scaled to 192	0x1200 and cut 192	20x1080 area to	

1080p auto mapping rule:

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

WXGA scaling table (screen type 16x10):

Note:

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

16 : 10 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 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 center	ered.	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, the screen type will be scaled to 1066x800. -If source is 16:9, the screen type will be scaled to 1280x720. -If source is 15:9, the screen type will be scaled to 1280x768. -If source is 16:10, the screen type will be scaled to 1280x800.				

WXGA auto mapping rule (screen type 16x10):

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

WXGA scaling table (screen type 16x9):

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 960x720				
16x9	Scale to 1280x72	Э.			
LBX	Scale to 1280x96	O, then get the cer	ntral 1280x720 ima	ge to display.	
Native mode	1:1 mapping cente	red.	1:1 mapping display 1280x720.	1280x720 centered.	1:1 mapping centred.
Auto	-If this format is se	lect, screen type w	ill automatically bed	come 16:9 (1280x72	20).
	-If source is 4:3, th	e screen type will t	pe scaled to 960x72	20.	
	-If source is 16:9, the screen type will be scaled to 1280x720.				
	-If source is 15:9, the screen type will be scaled to 1200x720.				
	-If source is 16:10,	the screen type w	ill be scaled to 1152	2x720.	

WXGA auto mapping rule (screen type 16x9):

Auto	Input resolution		Auto/Scale	
Auto	H-resolution	V-resolution	1280	720
	640	480	960	720
	800	600	960	720
4:3	1024	768	960	720
4.3	1280	1024	960	720
	1400	1050	960	720
	1600	1200	960	720
	1280	720	1280	720
Wide Laptop	1280	768	1200	720
	1280	800	1152	720
SDTV	720	576	1280	720
3017	720	480	1280	720
HDTV	1280	720	1280	720
וטוי	1920	1080	1280	720

WUXGA scaling table for 1920 x 1200 DMD (screen type 16:10):

Note:

- Supported screen type 16:10 (1920 x 1200), 16:9 (1920x1080).
- 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 1600x120	00.				
16x9	Scale to 1920x10	30.				
16x10	Scale to 1920x120	00.				
LBX	Scale to 1920x144	Scale to 1920x1440, then get the central 1920x1200 image to display.				
Native mode	- 1:1 mapping cent	ered.				
	- No scaling will be	made; the image	is displayed with the	e resolution based	on input source.	
Auto	- If this format is se	elected, the screen	type will automatic	ally become 16:10	(1920x1200).	
	- If source is 4:3, the screen type will be scaled to 1600x1200.					
	- If source is 16:9, the screen type will be scaled to 1920x1080.					
	- If source is 16:10, the screen type will be scaled to 1920x1200.					

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

Auto	Input resolution		Auto/Scale	
Auto	H-resolution	V-resolution	1920	1200
	640	480	1600	1200
	800	600	1600	1200
4:3	1024	768	1600	1200
4.3	1280	1024	1600	1200
	1400	1050	1600	1200
	1600	1200	1600	1200
	1280	720	1920	1080
Wide Laptop	1280	768	1920	1152
	1280	800	1920	1200
SDTV	720	576	1350	1080
SDTV	720	480	1620	1080
HDTV	1280	720	1920	1080
TIDIV	1920	1080	1920	1080

WUXGA scaling table (screen type 16:9):

16 : 9 screen	480i/p	576i/p	1080i/p	720p	PC
4x3	Scale to 1440x10	80.			
16x9	Scale to 1920x10	80.			
LBX	Scale to 1920x14	40, then get the ce	entral 1920x1080 ir	nage 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 this format is selected, the screen type will automatically become 16:9 (1920x1080). If source is 4:3, the screen type will be scaled to 1440x1080. If source is 16:9, the screen type will be scaled to 1920x1080. If source is 16:10, the screen type will be scaled to 1920x1200 and cut 1920x1080 area to display. 				

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

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

Zoom

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

Display image shift menu

Image Shift

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

Display geometric correction menu

Four Corners

Allow the image to be squeezed to fit an area defined by moving each of the four corners' x and y position.

H Keystone

Adjust image distortion horizontally and make a squarer image. Horizontal keystone is used to correct a keystoned image shape in which the left and right borders of the image are unequal in length. This is intended for use with horizontally on-axis applications.

V Keystone

Adjust image distortion vertically and make a squarer image. Vertical keystone is used to correct a keystoned image shape in which the top and bottom are slanted to one of the sides. This is intended when for use with vertically on-axis applications.

Auto Keystone

Correct keystone digitally to fit the projected image on the area on which you are projecting.

Note:

- The image size will reduce slightly when adjusting the horizontal and vertical keystone.
 - When the Auto Keystone is used, the Four Corner Adjustment function will be disabled.

Reset

Return the factory default settings for geometric correction settings.

Audio menu

Audio mute menu

Mute

Use this option to temporarily turn off the sound.

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

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

Audio volume menu

Volume

Adjust the volume level.

Audio audio input menu

Audio Input

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

- HDMI1/MHL: Audio 1, Audio 2, Mic, or Default.
- HDMI2: Audio 1, Audio 2, Mic, or Default.
- VGA: Audio 1, Audio 2, or Mic.
- Video: Audio 1, Audio 2, or Mic.

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 or WUXGA model only)

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

Setup power settings menu

Direct Power On

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

Signal Power On

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

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

Auto Power Off (min.)

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

Sleep Timer (min.)

Configure the sleep timer.

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

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

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

Power Mode (Standby)

Set the power mode setting.

- Active: Choose "Active" to return to normal standby.
- **Eco:** Choose "Eco." to save power dissipation further < 0.5W.

USB Power (Standby)

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

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

Setup security menu

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.

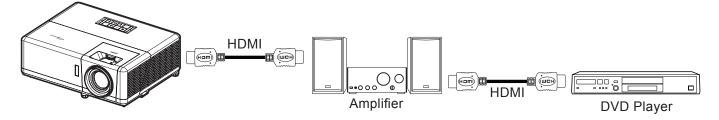
Change Password

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.

Setup test pattern menu

Test Pattern

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

Setup remote settings menu

IR Function

Set the IR function setting.

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

Remote Code

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

F1/F2/F3

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

Setup projector ID menu

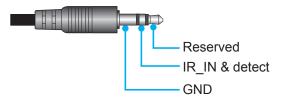
Projector ID

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

Setup 12V trigger menu

12V Trigger

Use this function to enable or disable the trigger.



- Off: Choose "Off" to disable the trigger.
- On: Choose "On" to enable the trigger.

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".

Menu Settings

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

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

Auto Source

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

Input Source

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

Input Name

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

High Altitude

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

Display Mode Lock

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

Keypad Lock

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

Information Hide

Enable this function to hide the information message.

- Off: Choose "Off" to show the "searching" message.
- On: Choose "On" to hide the info message.

Logo

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

- Default: The default startup screen.
- Neutral: Logo is not displayed on startup screen.
- User: Use the stored picture as the startup screen.

Background Color

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

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

Setup reset OSD menu

Reset OSD

Return the factory default settings for OSD menu settings.

Reset to Default

Return the factory default settings for all settings.

Network menu

Network LAN menu

Network Status

Display the network connection status (read-only).

MAC Address

Display the MAC address (read-only).

DHCP

Use this option to enable or disable the DHCP function.

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

Note: Exiting OSD will automatically apply the entered values.

IP Address

Display the IP address.

Subnet Mask

Display subnet mask number.

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

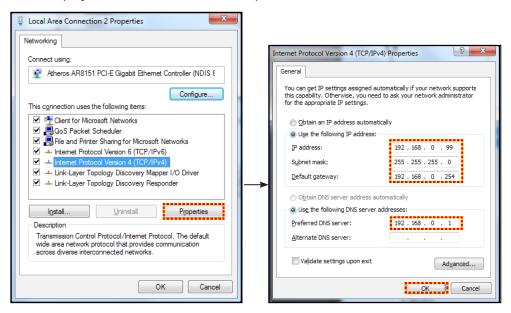
- 1. Turn "On" the DHCP option on projector to allow a DHCP server to automatically assign an IP address.
- Open the web browser in your PC and type in the projector's IP address ("Network > LAN > IP 2. Address").
- 3. Enter the user name and password, and click "Login". The projector's configuration web interface opens.

Note:

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

Making a direct connection from your computer to the projector*

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



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).

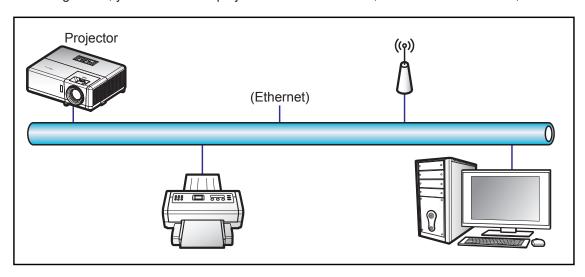
HTTP

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

Setup network control settings menu

LAN RJ45 function

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



Wired LAN terminal functionalities

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

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

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

http://www.crestron.com/

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

http://www.extron.com/

This projector is supported by AMX (Device Discovery).

http://www.amx.com/

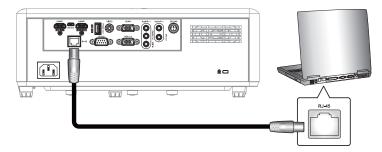
This projector supports all commands of PJLink Class1 (Version 1.00).

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

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

LAN RJ45

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



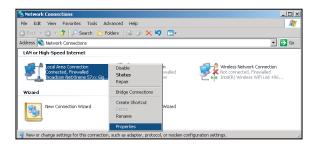
2. On the PC (Laptop), select **Start > Control Panel > Network Connections**.



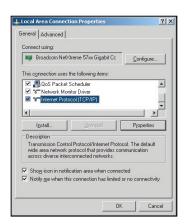
3. Right-click on the Local Area Connection, and select Property.



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



5. Click "Properties".



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



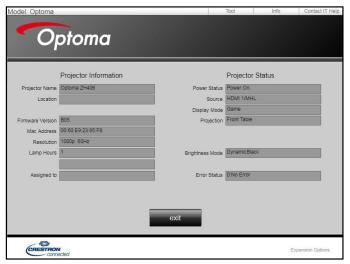
- 7. Press the "Menu" button on the projector.
- 8. Open on projector Network > LAN.
- 9. Enter the following connection parameters:
 - DHCP: Off
 - IP Address: 192.168.0.100
 - Subnet Mask: 255.255.255.0
 - Gateway: 192.168.0.254
 - DNS: 192.168.0.51
- Press "Enter" to confirm settings. 10.
- Open a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

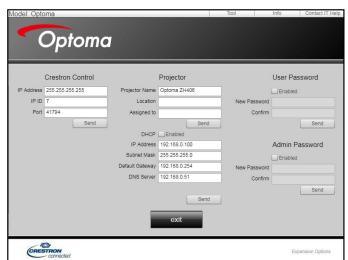
Information page



Main page



Tool page



Contact IT helpdesk



RS232 by Telnet Function

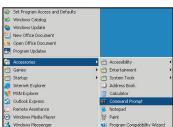
There is alternative RS232 command control way, in projector so called "RS232 by TELNET" for LAN / RJ45 interface.

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.



- 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)
- If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the 3. RS232 command will be workable.

Specification for "RS232 by TELNET":

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

Info menu

Info menu

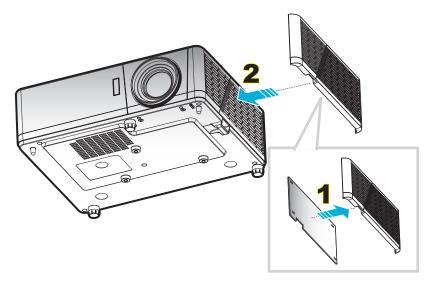
View the projector information as listed below:

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

MAINTENANCE

Installing and cleaning the dust filter

Installing the dust filter



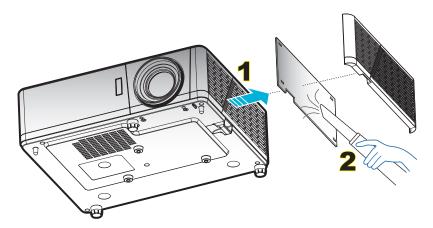
Note: Dust filters are only required/supplied in the selected regions with excessive dust.

Cleaning the dust filter

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

Procedure:

- Switch off the power to the projector by pressing the "O" button on the projector keypad or the "O" 1. button on the remote control.
- 2. Disconnect the power cord.
- 3. Pull the dust filter compartment downwards to remove it out from the bottom of the projector. 1
- 4. Carefully remove the air filter. Then clean or replace the dust filter. 2
- 5. To install the dust filter, reverse the previous steps.



Compatible resolutions

Digital

B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Video Mode	B1 / Detail Timing)
720 x 400 @ 70Hz	SVGA:	Native timing:	640 x 480p @ 60Hz	720 x 480p @ 60Hz
640 x 480 @ 60Hz	800 x 600 @ 120Hz	XGA: 1024 x 768 @ 60Hz	720 x 480p @ 60Hz	1280 x 720p @ 60Hz
640 x 480 @ 67Hz	1024 x 768 @ 120Hz	WXGA: 1280 x 800 @ 60Hz; 1280 x 720 @ 60Hz	1280 x 720p @ 60Hz	1366 x 768 @ 60Hz
640 x 480 @ 72Hz	1280 x 800 @ 60Hz	1080P: 1920 x 1080 @ 60Hz	1920 x 1080i @ 60Hz	1920 x 1080i @ 50Hz
640 x 480 @ 75Hz	1280 x 1024 @ 60Hz	WUXGA: 1920 x 1200 @ 60Hz	720(1440) x 480i @ 60Hz	1920 x 1080p @ 60Hz
800 x 600 @ 56Hz	1680 x 1050 @ 60Hz		1920 x 1080p @ 60Hz	
800 x 600 @ 60Hz	1280 x 720 @ 60Hz		720 x 576p @ 50Hz	
800 x 600 @ 72Hz	1280 x 720 @ 120Hz		1280 x 720p @ 50Hz	
800 x 600 @ 75Hz	1600 x 1200 @ 60Hz		1920 x 1080i @ 50Hz	
832 x 624 @ 75Hz			720(1440) x 576i @ 50Hz	
1024 x 768 @ 60Hz	XGA/WXGA:		1920 x 1080p @ 50Hz	
1024 x 768 @ 70Hz	800 x 600 @ 120Hz		1920 x 1080p @ 24Hz	
1024 x 768 @ 75Hz	1440 x 900 @ 60Hz		1920 x 1080p @ 30Hz	
1280 x 1024 @ 75Hz	1024 x 768 @ 120Hz			
1152 x 870 @ 75Hz	1280 x 800 @ 60Hz			
	1280 x 1024 @ 60Hz			
	1680 x 1050 @ 60Hz			
	1280 x 720 @ 60Hz			
	1280 x 720 @ 120Hz			
	1600 x 1200 @ 60Hz			
	1080P/WUXGA:			
	1280 x 720 @ 60Hz			
	1280 x 800 @ 60Hz			
	1280 x1024 @ 60Hz			
	1400 x 1050 @ 60Hz			
	1600 x 1200 @ 60Hz			
	1280 X 768 @ 60Hz			
	1440 x 900 @ 60Hz			
	1280 x 720 @ 120Hz			
	1024 x 768 @ 120Hz			

Analog

B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Detail Timing
720 x 400 @ 70Hz	SVGA:	Native timing:	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	800 x 600 @ 120Hz	XGA: 1024 x 768 @ 60Hz	
640 x 480 @ 67Hz	1024 x 768 @ 120Hz	WXGA: 1280 x 800 @ 60Hz; 1280 x 720 @ 60Hz	
640 x 480 @ 72Hz	1280 x 800 @ 60Hz	1080P: 1920 x 1080 @ 60Hz	
640 x 480 @ 75Hz	1280 x 1024 @ 60Hz	WUXGA: 1920 x 1200 @ 60Hz	
800 x 600 @ 56Hz	1680 x 1050 @ 60Hz		
800 x 600 @ 60Hz	1280 x 720 @ 60Hz		
800 x 600 @ 72Hz	1280 x 720 @ 120Hz		
800 x 600 @ 75Hz	1600 x 1200 @ 60Hz		
832 x 624 @ 75Hz			
1024 x 768 @ 60Hz	XGA/WXGA:		
1024 x 768 @ 70Hz	800 x 600 @120Hz		
1024 x 768 @ 75Hz	1440 x 900 @ 60Hz		
1280 x 1024 @ 75Hz	1024 x 768 @ 120Hz		
1152 x 870 @ 75Hz	1280 x 800 @ 60Hz		
	1280 x 1024 @ 60Hz		
	1680 x 1050 @ 60Hz		
	1280 x 720 @ 60Hz		
	1280 x 720 @ 120Hz		
	1600 x 1200 @ 60Hz		
	1080P/WUXGA:		
	1280 x 720 @ 60Hz		
	1280 x 800 @ 60Hz		
	1280 x1024 @ 60Hz		
	1400 x 1050 @ 60Hz		
	1600 x 1200 @ 60Hz		
	1280 X 768 @ 60Hz		
	1440 x 900 @ 60Hz		
	1280 x 720 @ 120Hz		
	1024 x 768 @ 120Hz		

True 3D video compatibility

		Input timing					
		1280 x 720P @ 50Hz	Top-and-Bottom				
		1280 x 720P @ 60Hz	720P @ 60Hz Top-and-Bottom				
	LIDMI 4.4	1280 x 720P @ 50Hz Frame packing					
	HDMI 1.4a 3D Input	1280 x 720P @ 60Hz Frame packing					
	ozpat	1920 x 1080i @ 50Hz	Side-by-Side(Half)				
		1920 x 1080i @ 60Hz	Side-by-Side(Half)				
		1920 x 1080P @ 24Hz	Top-and-Bottom				
		1920 x 1080P @ 24Hz	Frame packing				
		1920 x 1080i @ 50Hz					
		1920 x 1080i @ 60Hz					
Input		1280 x 720P @ 50Hz					
resolutions		1280 x 720P @ 60Hz	Side-by-Side(Half)	SBS mode is on			
		800 x 600 @ 60Hz					
		1024 x 768 @ 60Hz					
		1280 x 800 @ 60Hz					
	HDMI 1.3	1920 x 1080i @ 50Hz					
		1920 x 1080i @ 60Hz					
		1280 x 720P @ 50Hz					
		1280 x 720P @60Hz	Top-and-Bottom	TAB mode is on			
		800 x 600 @ 60Hz					
		1024 x 768 @ 60Hz					
		1280 x 800 @ 60Hz					
		480i	HQFS	3D format is Frame sequential			

Note:

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

Image size and projection distance

WXGA model

Diagonal	Screen Size (W x H)				Projection Distance (D)				Offset (Hd)	
Length Size of (16:9)	(r	(m) (i		(inch)		(m) (fee		et)		ι (πu)
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)
19.7	0.42	0.27	16.71	10.44	NA	1.0	NA	3.28	0.03	1.18
40	0.86	0.54	33.92	21.2	1.3	2.0	4.27	6.56	0.07	2.76
50	1.08	0.67	42.40	26.5	1.6	2.5	5.25	8.20	0.09	3.54
60	1.29	0.81	50.88	31.8	1.9	3.0	6.23	9.84	0.10	3.94
70	1.51	0.94	59.36	37.1	2.2	3.5	7.22	11.48	0.12	4.72
80	1.72	1.08	67.84	42.4	2.5	4.1	8.20	13.45	0.13	5.12
90	1.94	1.21	76.32	47.7	2.8	4.6	9.19	15.09	0.15	5.91
100	2.15	1.35	84.80	53	3.2	5.1	10.50	16.73	0.16	6.30
120	2.58	1.62	101.76	63.6	3.8	6.1	12.47	20.01	0.20	7.87
150	3.23	2.02	127.20	79.5	4.7	7.6	15.42	24.93	0.25	9.84
180	3.88	2.42	152.64	95.4	5.7	9.1	18.70	29.86	0.30	11.81
200	4.31	2.69	169.60	106	6.3	10.1	20.67	33.14	0.34	13.39
250	5.38	3.37	212.00	132.5	7.9	NA	25.92	NA	0.41	16.14
315.8	6.80	4.25	267.80	167.4	10.0	NA	32.81	NA	0.53	20.87

Note: Zoom Ratio: 1.6x

1080P model

Diagonal	Screen Size (W x H)				Projection Distance (D)				Offset (Hd)	
Length Size of (16:9)	(r	n)	(in	ch)	(r	n)	(fe	et)	Olise	ι (πα)
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)
20.2	0.45	0.25	17.61	9.9	NA	1.0	NA	3.28	0.04	1.57
40	0.89	0.5	34.86	19.6	1.2	2.0	3.94	6.56	0.08	3.15
50	1.11	0.62	43.58	24.5	1.6	2.5	5.25	8.20	0.10	3.94
60	1.33	0.75	52.29	29.4	1.9	3.0	6.23	9.84	0.12	4.72
70	1.55	0.87	61.01	34.3	2.2	3.5	7.22	11.48	0.14	5.51
80	1.77	1	69.73	39.2	2.5	4.0	8.20	13.12	0.16	6.30
90	1.99	1.12	78.44	44.1	2.8	4.5	9.19	14.76	0.18	7.09
100	2.21	1.25	87.16	49	3.1	5.0	10.17	16.40	0.19	7.48
120	2.66	1.49	104.59	58.8	3.7	6.0	12.14	19.69	0.24	9.45
150	3.32	1.87	130.74	73.5	4.7	7.4	15.42	24.28	0.30	11.81
180	3.98	2.24	156.88	88.2	5.6	8.9	18.37	29.20	0.36	14.17
200	4.43	2.49	174.32	98.1	6.2	9.9	20.34	32.48	0.40	15.75
250	5.53	3.11	217.89	122.6	7.8	NA	25.59	NA	0.50	19.69
320.4	7.09	3.99	279.25	157.1	10.0	NA	32.81	NA	0.64	25.20

Note: Zoom Ratio: 1.6x

1080p Short Throw model

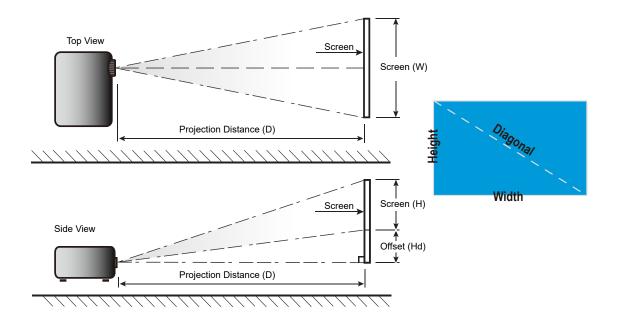
Diagonal		Screen Size (W x H)				Projection Distance (D)				Offset (Hd)	
Length Size of (16:9)	(n	n)	(in	ch)	(n	n)	(fe	et)	Olise	ι (πα)	
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)	
36.4	0.81	0.45	31.73	17.85	NA	0.4	NA	1.31	0.08	3.15	
40	0.89	0.5	34.86	19.6	0.4	0.4	1.31	1.31	0.08	3.15	
50	1.11	0.62	43.58	24.5	0.5	0.5	1.64	1.64	0.10	3.94	
60	1.33	0.75	52.29	29.4	0.7	0.7	2.30	2.30	0.12	4.72	
70	1.55	0.87	61.01	34.3	0.8	0.8	2.62	2.62	0.14	5.51	
80	1.77	1	69.73	39.2	0.9	0.9	2.95	2.95	0.16	6.30	
90	1.99	1.12	78.44	44.1	1.0	1.0	3.28	3.28	0.18	7.09	
100	2.21	1.25	87.16	49	1.1	1.1	3.61	3.61	0.19	7.48	
120	2.66	1.49	104.59	58.8	1.3	1.3	4.27	4.27	0.24	9.45	
150	3.32	1.87	130.74	73.5	1.6	1.6	5.25	5.25	0.30	11.81	
180	3.98	2.24	156.88	88.2	2.0	2.0	6.56	6.56	0.36	14.17	
200	4.43	2.49	174.32	98.1	2.2	2.2	7.22	7.22	0.40	15.75	
250	5.53	3.11	217.89	122.6	2.7	NA	8.86	NA	0.50	19.69	
300.5	6.65	3.74	261.91	147.3	3.3	NA	10.83	NA	0.60	23.62	

Note: Zoom Ratio: 1.0x

WUXGA model

Diagonal		Screen Si	ze (W x H)		Projection Distance (D)				Offset (Hd)	
Length Size of (16:9)	(r	n)	(inch)		(m)		(feet)			
Screen	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(inch)
29.2	0.63	0.39	24.76	15.48	NA	1.0	NA	3.28	0.04	1.57
40	0.86	0.54	33.92	21.2	1.0	1.4	3.28	4.59	0.05	1.97
50	1.08	0.67	42.40	26.5	1.3	1.7	4.27	5.58	0.07	2.76
60	1.29	0.81	50.88	31.8	1.6	2.1	5.25	6.89	0.08	3.15
70	1.51	0.94	59.36	37.1	1.8	2.4	5.91	7.87	0.10	3.94
80	1.72	1.08	67.84	42.4	2.1	2.7	6.89	8.86	0.10	3.94
90	1.94	1.21	76.32	47.7	2.3	3.1	7.55	10.17	0.12	4.72
100	2.15	1.35	84.80	53	2.6	3.4	8.53	11.15	0.13	5.12
120	2.58	1.62	101.76	63.6	3.1	4.1	10.17	13.45	0.16	6.30
150	3.23	2.02	127.20	79.5	3.9	5.1	12.80	16.73	0.20	7.87
180	3.88	2.42	152.64	95.4	4.7	6.2	15.42	20.34	0.25	9.84
200	4.31	2.69	169.60	106	5.2	6.8	17.06	22.31	0.27	10.63
250	5.38	3.37	212.00	132.5	6.5	8.6	21.33	28.22	0.33	12.99
300	6.46	4.04	254.40	159	7.8	NA	25.59	NA	0.40	15.75
383.7	8.26	5.17	325.38	203.4	10.0	NA	32.81	NA	0.51	20.08

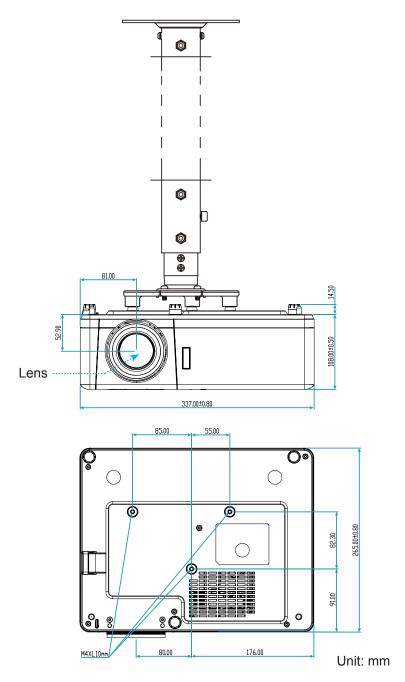
Note: Zoom Ratio: 1.3x



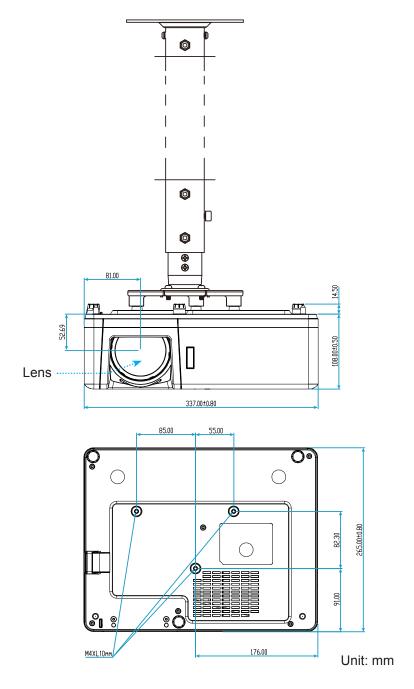
Projector dimensions and ceiling mount installation

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

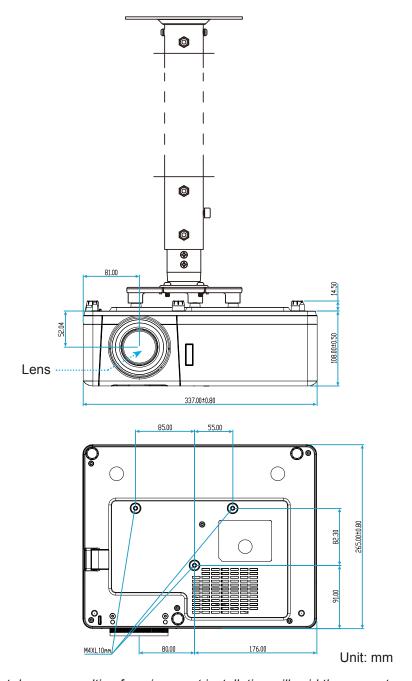
1080p/WXGA model



1080p Short Throw model



WUXGA model



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



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

IR remote codes



	5					
Key	Printing-key definition	BYTE1	BYTE2	BYTE3	BYTE4	Repeat
	deminion	customer 0	customer 1	data 0	data 1	
Power On 🖰	On	32	CD	02	#BYTE3	F2
Power Off	Off	32	CD	2E	#BYTE3	F2
Geometric Correction	Geometric Correction	32	CD	96	#BYTE3	F2
PIP/PBP	PIP/PBP	32	CD	78	#BYTE3	F2
F1	F1	32	CD	26	#BYTE3	F2
F2	F2	32	CD	27	#BYTE3	F2
Mode	Mode	32	CD	95	#BYTE3	F2
F	Up arrow	32	CD	C6	#BYTE3	F2
Four directional	Down arrow	32	CD	C7	#BYTE3	F2
select keys (∱/♣/↔)	Left arrow	32	CD	C8	#BYTE3	F2
	Right arrow	32	CD	C9	#BYTE3	F2
Enter	Enter	32	CD	C5	#BYTE3	F2
AV Mute	AV Mute	32	CD	03	#BYTE3	F2
Information	Info.	32	CD	25	#BYTE3	F2

			Key	code		
Key	Printing-key definition	BYTE1	BYTE2	BYTE3	BYTE4	Repeat
	deminition	customer 0	customer 1	data 0	data 1	
Laser *	Laser	N/A	N/A	N/A	N/A	N/A
Source	Source	32	CD	18	#BYTE3	F2
F3	F3	32	CD	66	#BYTE3	F2
Re-Sync	Re-Sync	32	CD	04	#BYTE3	F2
Volume	Volume +	32	CD	09	#BYTE3	F2
volume	Volume -	32	CD	0C	#BYTE3	F2
D Zoom	D Zoom +	32	CD	08	#BYTE3	F2
D ZOOIII	D Zoom -	32	CD	0B	#BYTE3	F2
Menu	Menu	32	CD	88	#BYTE3	F2
Format	Format	32	CD	15	#BYTE3	F2
Freeze	Freeze	32	CD	06	#BYTE3	F2
Remote	Remote ID	3201~	3299		N/A	
Remote	Remote All	320	CD			
VGA / 1	1/VGA	32	CD	8E	#BYTE3	F2
S-Video / 2	2/S-Video	32	CD	1D	#BYTE3	F2
HDMI1 / 3	3/HDMI1	32	CD	16	#BYTE3	F2
HDMI2	HDMI2	32	CD	9B	#BYTE3	F2
HDBaseT / 4	4/HDBaseT	32	CD	70	#BYTE3	F2
Video / 5	5/Video	32	CD	1C	#BYTE3	F2
DVI / 6	6/DVI	32	CD	19	#BYTE3	F2
HDMI3	HDMI3	32	CD	98	#BYTE3	F2
BNC / 7	7/BNC	32	CD	1A	#BYTE3	F2
YPbPr / 8	8/YPbPr	32	CD	17	#BYTE3	F2
Display Port / 9	9/DisplayPort	32	CD	9F	#BYTE3	F2
3D / 0	0/3D	32	CD	89	#BYTE3	F2

Troubleshooting

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

Image problems

- ? No image appears on-screen
 - Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
 - Ensure the pins of connectors are not crooked or broken.
 - Ensure that the "Mute" feature is not turned on.
- ? Image is out of focus
 - Turn the focus ring/focus lever clockwise or counterclockwise until the image is sharp and legible. (Please see page 19).
 - Make sure the projection screen is between the required distance from the projector. (Please refer to pages 61-63).
- ? The image is stretched when displaying 16:9 DVD title
 - When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16:9 format on projector side.
 - If you play the LBX format DVD title, please change the format as LBX in projector OSD.
 - If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.
 - Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.
- ? Image is too small or too large
 - Turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size. (Please see page 19).
 - Move the projector closer to or further from the screen.
 - Press "Menu" on the projector panel, go to "Display → Aspect Ratio". Try the different settings.
- ? Image has slanted sides:
 - If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
- ? Image is reversed
 - Select "Setup → Projection" from the OSD and adjust the projection direction.

Other problems

- The projector stops responding to all controls
 - If possible, turn off the projector, then unplug the power cord and wait at least 20 seconds before reconnecting power.

Remote control problems

- If the remote control does not work
 - Check the operating angle of the remote control is pointed within ±30° to the IR receiver on the projector.
 - Make sure there are not any obstructions between the remote control and the projector. Move to within 12 m (39.4 ft) of the projector.
 - Make sure batteries are inserted correctly.
 - Replace batteries if they are exhausted.

Warning indicators

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

- "Lamp" LED indicator is lit red and if "Power" indicator flashes red.
- "Temp" LED indicator is lit red and if "Power" indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- "Temp" LED indicator flashes red and if "Power" indicator flashes red.

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

LED lightning messages

Massaga	Powe	r LED	Temp LED	Lamp LED
Message	(Red)	(Blue)	(Red)	(Red)
Standby state (Input power cord)	Steady light			
Power on (Warming)		Flashing (0.5 sec off / 0.5 sec on)		
Power on and Lamp lighting		Steady light		
Power off (Cooling)		Flashing (0.5 sec off / 0.5 sec on). Back to red steady light when cooling fan turns off.		
Quick Resume(100 secs)		Flashing (0.25 sec off / 0.25 sec on)		
Error (Lamp failure)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over temp.)	Flashing		Steady light	

Power off:



Temperature warning:



Specifications

Optical	Description
Maximum resolution	WUXGA
Native resolution	1080pWXGAWUXGA
Lens	Manual zoom and manual focus
Image size (diagonal)	 WXGA: 36.1" ~ 301.2" 1080p: 37" ~ 301.4" WUXGA: 29" ~ 300.3" 1080p Short Throw: 37" ~ 300"
Projection distance	 WXGA: 1.2m to 7.7m (optimized@1.53m) 1080p: 1.2m to 7.5m (optimized@1.53m) WUXGA: 1.0m to 7.9m (optimized wide 80"@2.2m) 1080p Short Throw: 0.4m to 3.31m (optimized 89"@0.984m)

Electrical	Description					
	• HDMI 1.4a					
	• HDMI 2.0b / MHL 2.2					
	VGA In					
Inputs	Video (RCA connector (Y))					
	Audio In 3.5mm					
	Microphone					
	USB Type-A for power USB 5V/1.5A					
	VGA Out					
Outputs	Audio Out 3.5mm					
Outputs	• 12V Trigger					
	• 3D Sync					
	Micro USB					
Control	• RS232					
	RJ-45 (support web control)					
Color reproduction	1073.4 Million color					
Scan rate	Horizontal scan rate: 15.375~91.146 KHz					
Scarrate	 Vertical scan rate: 50~85 Hz (120Hz for 3D feature projector) 					
Built-in speaker	Yes, 10W					
Power requirement	100 - 240V ±10%, AC 50/60Hz					
Input current	3.0A					

Mechanical	Description
Installation orientation	Front, Rear, Ceiling, Rear-top
Dimensions	 337mm (W) x 265mm (D) x 108mm (H) (without feet) 337mm (W) x 265mm (D) x 119.3mm(H) (with feet)
Weight	4.6 ±0.5kg
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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For service or support, please contact your local office.

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