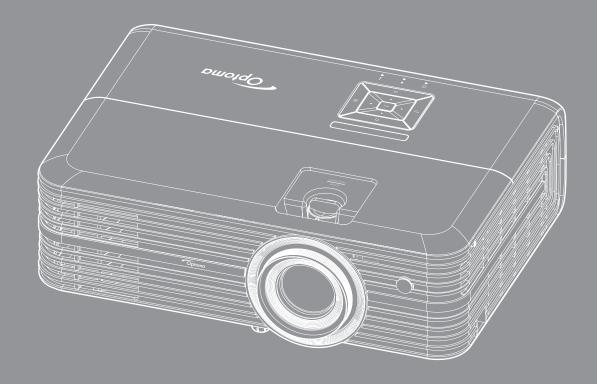


# DLP® Projector









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### SAFETY

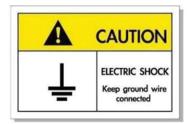


The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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.

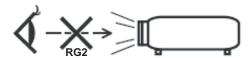
Please follow all warnings, precautions and maintenance as recommended in this user's guide.



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

### **Important Safety Instruction**

• To prolong the effective life of the lamp, make sure to keep the lamp on for at least 60 seconds and avoid performing force shutdown.



Do not stare into the beam, RG2.

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

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture. Do not
  install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers
  that emits heat.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- Do not use under the following conditions:
  - In extremely hot, cold or humid environments.
    - (i) Ensure that the ambient room temperature is within  $5^{\circ}$ C ~  $40^{\circ}$ 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 could melt, cause burns or start a fire.
- Please do not open or disassemble the projector as this may cause electric shock.
- Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- See projector enclosure for safety related markings.
- The unit should only be repaired by appropriate service personnel.
- Only use attachments/accessories specified by the manufacturer.
- Do not look into straight into the projector lens during operation. The bright light may harm your eyes.
- When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages 56-57.
- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Reset the "Lamp Reset" function from the on-screen display "Lamp Settings" menu after replacing the lamp module.
- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- When the lamp is approaching to the end of its life time, the message "Lamp life exceeded." will show
  on the screen. Please contact your local reseller or service center to change the lamp as soon as
  possible.
- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the unit.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

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

- Do not setup the projector in places where it might be subjected to vibration or shock.
- Do not touch the lens with bare hands.
- Remove battery/batteries from remote control before storage. If the battery/batteries are left in the remote for long periods, they may leak.
- Do not use or store the projector in places where smoke from oil or cigarettes may be present, as it can adversely affect the quality of the projector performance.
- Please follow the correct projector orientation installation as non standard installation may affect the projector performance.
- Use a power strip and or surge protector. As power outages and brown-outs can KILL devices.

### Cleaning the lens

- Before cleaning the lens, be sure to turn off the projector and unplug the power cord to allow it to completely cool down.
- Use a compressed air tank to remove the dust.

- Use a special cloth for cleaning lens and gently wipe the lens. Do not touch the lens with your fingers.
- Do not use alkaline/acid detergents or volatile solvents such as alcohol for cleaning lens. If the lens is damaged due to the cleaning process, it is not covered by the warranty.



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



Warning: Do not clean the lens if the projector is warming up as this may cause the lens' surface film to peel off.



Warning: Do not wipe or tap the lens with a hard object.

### 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.

Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

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

#### **FCC**

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

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

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

#### **Notice: Shielded cables**

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

#### Caution

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

#### **Operation Conditions**

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

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

#### **Notice: Canadian users**

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

Remarque à l'intention des utilisateurs canadiens

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

### **Declaration of Conformity for EU countries**

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

#### **WEEE**



#### **Disposal instructions**

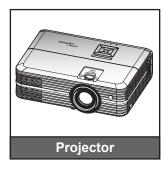
Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

## **Package Overview**

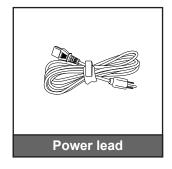
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

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

#### Standard accessories





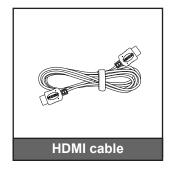


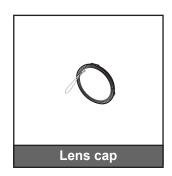


#### Note:

- The actual remote control may vary depending on the region.
- The remote control is shipped with the battery.
- \* For European warranty Information, please visit www.optoma.com.

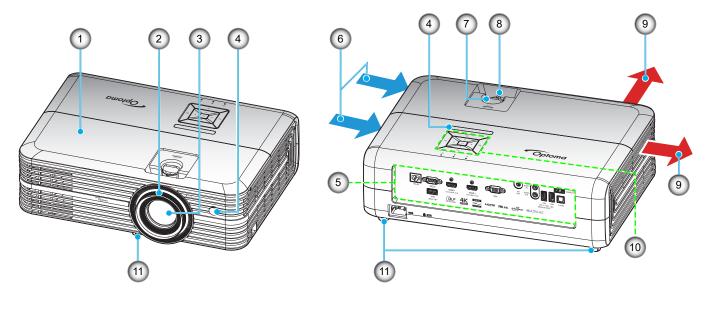
## **Optional accessories**

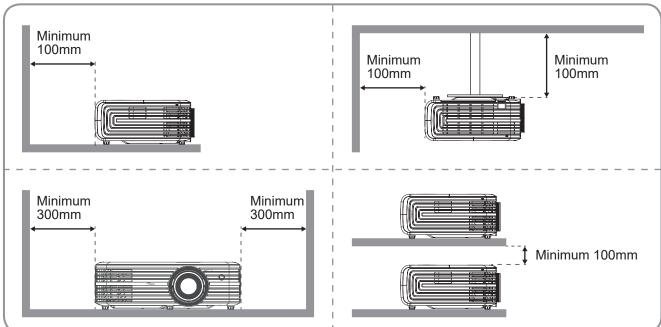




Note: Optional accessories vary depending on model, specification and region.

### **Product Overview**



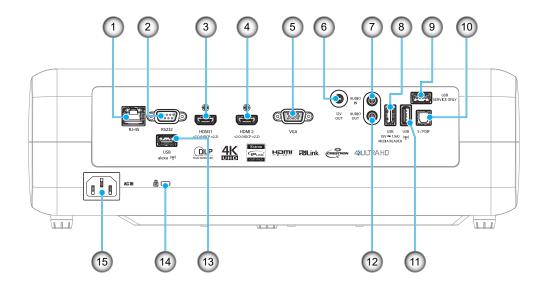


#### Note:

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

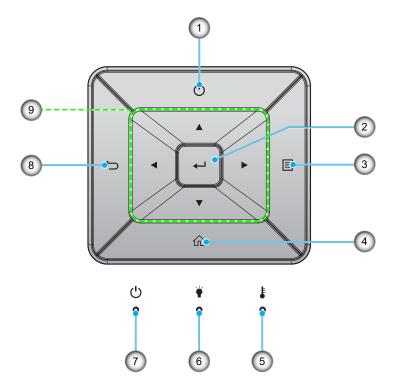
No	Item	No	Item
1.	Top Cover	7.	Lens Shift Dial
2.	Focus Ring	8.	Zoom Lever
3.	Lens	9.	Ventilation (outlet)
4.	IR Receiver	10.	Keypad
5.	Input / Output	11.	Tilt-Adjustment Foot
6.	Ventilation (inlet)		

## **Connections**



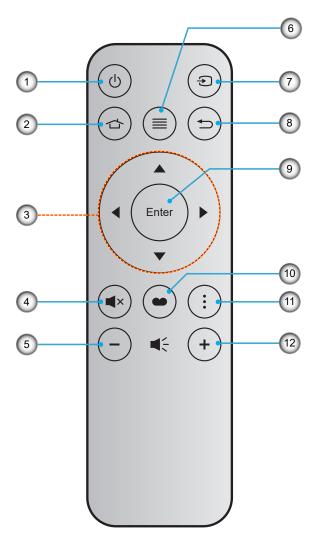
No	Item	No	Item
1.	RJ-45 Connector	9.	Service Connector
2.	RS232 Connector	10.	S/PDIF Connector
3.	HDMI 1 Connector	11.	USB2.0 Connector
4.	HDMI 2 Connector	12.	AUDIO OUT Connector
5.	VGA Connector	13.	USB-A Connector
6.	12V OUT Connector	14.	Kensington™ Lock Port
7.	AUDIO IN Connector	15.	Power Socket
8.	USB Power Out (5V-1.5A) / USB3.0 Connector		

## Keypad



No	Item	No	Item
1.	Power	6.	Lamp LED
2.	Enter	7.	On/Standby LED
3.	Menu	8.	Return
4.	Home	9.	Four Directional Select Keys
5.	Temp LED		

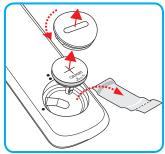
### Remote control



No	Item	No	Item
1.	Power On / Off	7.	Source
2.	Home	8.	Return
3.	Four Directional Select Keys	9.	Enter
4.	Mute	10.	Display Mode
5.	Volume -	11.	Option
6.	Menu	12.	Volume +

#### Note:

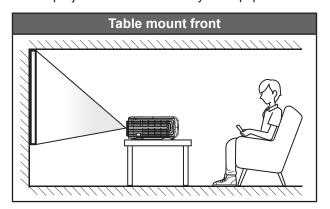
- Some keys may have no function for models that do not support these features.
- Before using the remote control for the first time, remove the transparent insulation tape. See page 17 for battery installation.

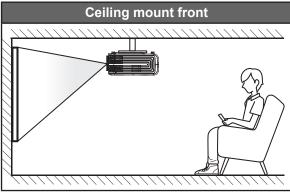


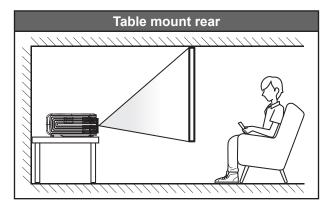
## Installing the projector

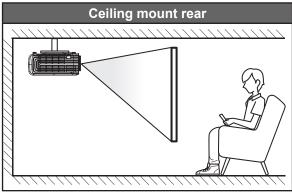
Your projector is designed to be installed in one of four possible positions.

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









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

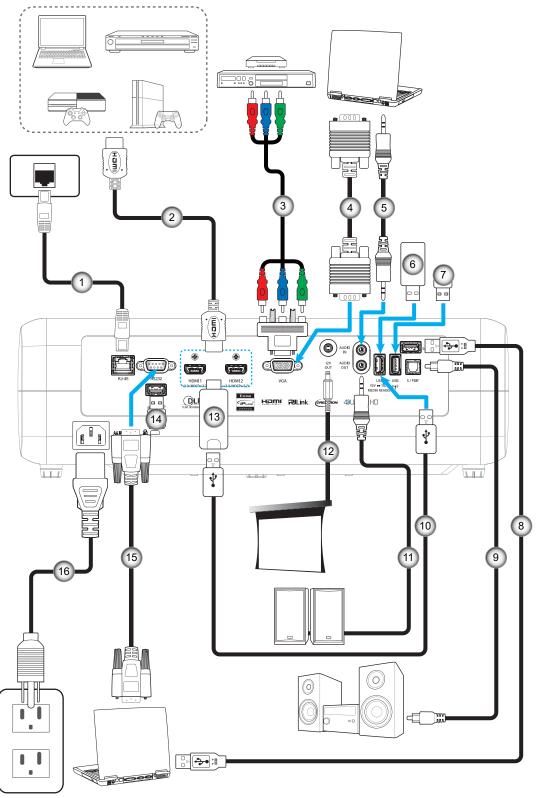
- How to determine projector location for a given screen size, please refer to distance table on page 60.
- How to determine screen size for a given distance, please refer to distance table on page 60.

**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



No	Item
1.	RJ-45 Cable
2.	HDMI Cable
3.	RCA Component Cable
4.	VGA In Cable

No	Item
5.	Audio In Cable
6.	USB Flash Drive
7.	Wi-Fi Dongle for Wi-Fi Display
8.	USB Cable for Service

NO	item
9.	S/PDIF Out Cable
10.	USB Power Cable
11.	Audio Out Cable
12.	12V DC Jack

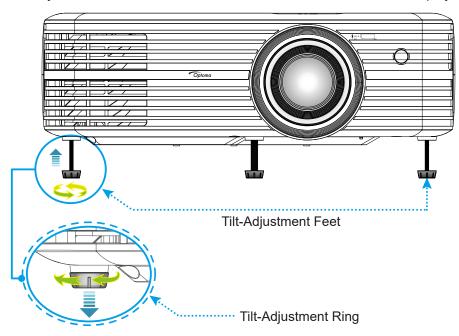
No	Item
13.	HDMI Dongle
14.	Wi-Fi Dongle for Alexa
15.	RS232 Cable
16.	Power Cord

### Adjusting the projector image

## Image height

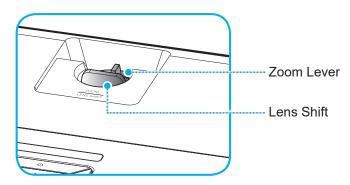
The projector is equipped with elevator feet for adjusting the image height.

- 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.

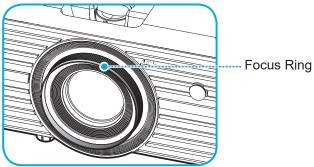


## Zoom, lens shift, and focus

- To adjust the image size and position, do the following:
  - a. To adjust the image size, turn the zoom lever clockwise or counterclockwise to increase or decrease the projected image size.
  - b. 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 clockwise or counterclockwise until the image is sharp and legible.

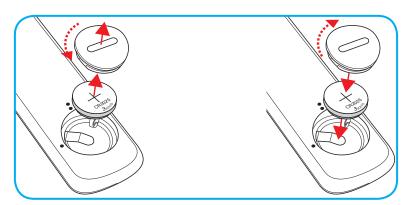


Note: The projector will focus at a distance of 1.2m to 8.1m.

### Remote setup

### Installing / replacing the battery

- 1. Use a coin to turn the battery cover counterclockwise until the cover opens.
- 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. Then use a coin to turn the battery cover clockwise to lock it in place.



#### **CAUTION:**

To ensure safe operation, please observe the following precautions:

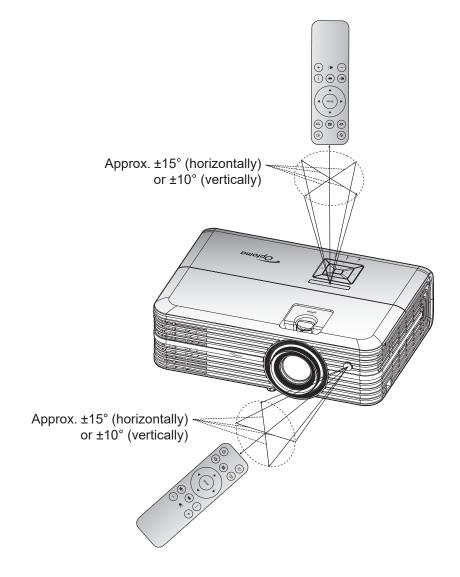
- Use CR2025 type battery.
- Avoid contact with water or liquid.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new battery.
- Risk of an explosion if battery is replaced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

### **Effective range**

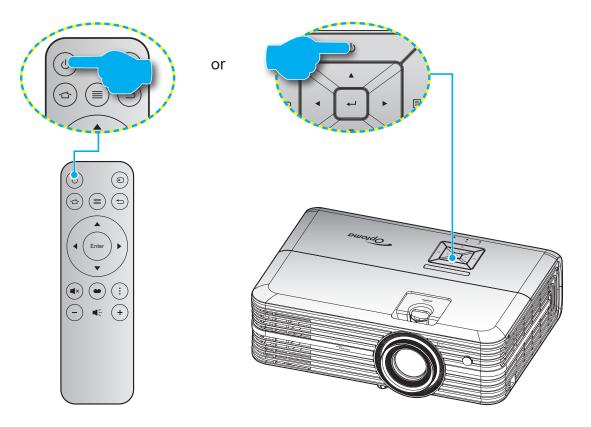
Infra-Red (IR) remote control sensor is located on top of the projector. Ensure to hold the remote control at an angle within 30° (horizontally) or 20° (vertically) perpendicular to the projector's IR remote control sensor to function correctly. The distance between the remote control and the sensor should not be longer than 7 meters (~22 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 10 meters (~32 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 7 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 "O" button on the projector keypad or the remote control.
- A start up screen will display in approximately 10 seconds and the On/Standby LED will be flashing 3. blue.

The first time the projector is turned on, you will be prompted to do the initial setup including selecting the preferred language, projection orientation, and power mode settings.



[Select Language]



[Select Projection Mode]



OTA Server Location

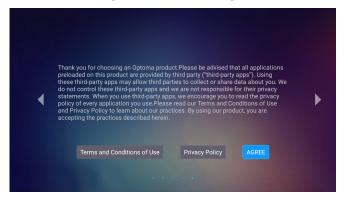
Server 1

Server 2

Please select your OTA (over the air) Server location for future firmware updates.
If you are located in China, please select "Server 2", otherwise select "Server 1".

[Select Power Mode]

[Select OTA Sever]



[Agreement]

## **Powering off**

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



- 3. Press the " button again to confirm, otherwise the message will disappear after 15 seconds. When you press the " button for the second time, the projector will shut down.
- 4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/ Standby LED will flash 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 "🖒" 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 "2" button on the remote control to select the desired input.



#### Home screen overview

The Home screen is displayed every time you start the projector. From the main Home screen, it basically divided into 3 main categories: Projector, Application, and Settings.

To navigate the Home screen, simply use the buttons on the remote control or the projector keypad.

You can return to the main Home screen at any time by pressing the ightharpoonup on the remote control or ightharpoonup on the projector keypad, regardless of what page you are on.

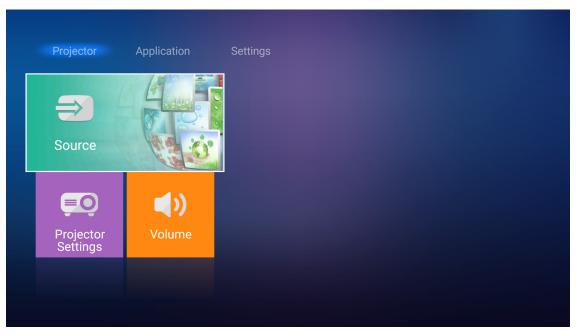


## **Projector settings**

On the Projector home screen, you can change the input source, configure the projector settings, and adjust the volume level.

### Selecting an input source

Besides pressing the "2" button on the remote control to select the desired input, you can also change the input source by selecting **Source** option. Then press **Enter** on the remote control or  $\longleftarrow$  on the projector keypad to enter the Source menu.



The available input source options appear on the screen.

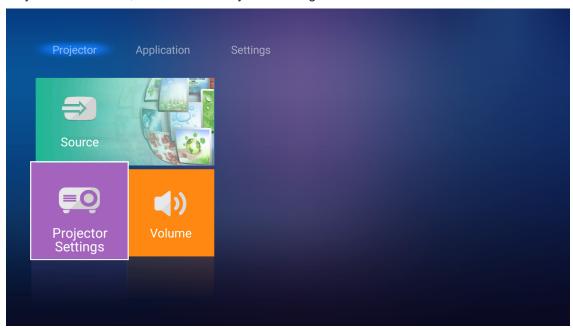


Select the desired input source and press **Enter** on the remote control or ← on the projector keypad to confirm the selection.

Note: By default, the input source is set to Media.

### Configure the projector settings

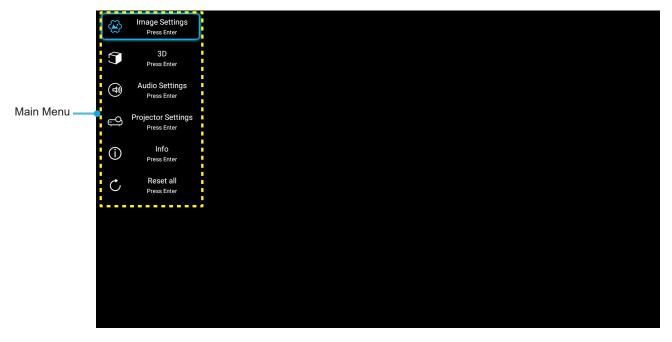
Select **Projector Settings** to manage various device configurations including configuring the device settings, viewing the system information, and restore the system settings.



#### **General menu navigation**

Press Enter on the remote control or ← on the projector keypad to enter the Projector Settings menu.

**Note:** You can also directly access the **Projector Settings** menu by pressing  $\equiv$  on the remote control or  $\equiv$  on the projector keypad.



2. When OSD is displayed, use ▲▼ keys to select any item in the main menu. While making a selection on a particular page, press **Enter** on the remote control or ← on the projector keypad to enter submenu.

- Use ▲▼ keys to select the desired item in the sub menu and then press **Enter** or ← to view further 3. settings. Adjust the settings by using ◀▶ keys.
- 4. Select the next item to be adjusted in the sub menu and adjust as described above.
- Press **Enter** or **←** to confirm, and the screen will return to the main menu. 5.
- 6. To exit, press ≡ or ≡ again. The OSD menu will close and the projector will automatically save the new settings.

#### OSD Menu tree

Level 1	Level 2	Level 3	Level 4	Value
				Cinema
				HDR
				HLG
				HDR SIM.
				Game
	Display Mode			Reference
				Bright
				User
				3D
				ISF Day
				ISF Night
		LIDD/III C		Auto [Default]
		HDR/HLG		Off
				Bright
		HDR Picture Mode		Standard [Default]
	D ai. Dan	HDR Picture Mode		Film
0.45	Dynamic Range			Detail
Image Settings		HLG Picture Mode		Bright
				Standard [Default]
				Film
				Detail
	Brightness			-50 ~ +50
	Contrast			-50 ~ +50
	Sharpness			1 ~ 15
	Color			-50 ~ +50
	Tint			-50 ~ +50
				Film
				Video
				Graphics
	Gamma [Not 3D Mode]			Standard(2.2)
				1.8
				2.0
				2.4
	Gamma [3D Mode]			3D

Level 1	Level 2	Level 3	Level 4	Value
		BrilliantColor™		1 ~ 10
				D55
				D65
				D75
		Color Temperature		D83
				D93
				Native
				Native
				HDTV
		Color Gamut		Presentation
				Cinema
				Game
				Auto [Default]
		Color Space [Not HDMI Input]		RGB
				YUV
				Auto [Default]
		Color Space [HDMI		RGB(0~255)
	Color Settings	Input]		RGB(16~235)
	3			YUV
				Red [Default]
				Green
Image Settings				Blue
image detailigs			Color	Cyan
		Color Matching		Yellow
				Magenta
				White
			Hue or Red Gain	-50 ~ +50 [Default:0]
			Saturation or Green Gain	-50 ~ +50 [Default:0]
			Gain or Blue Gain	-50 ~ +50 [Default:0]
		RGB Gain / Bias	Red Gain	-50 ~ +50 [Default:0]
			Green Gain	-50 ~ +50 [Default:0]
			Blue Gain	-50 ~ +50 [Default:0]
		NOD Gailly blas	Red Bias	-50 ~ +50 [Default:0]
			Green Bias	-50 ~ +50 [Default:0]
			Blue Bias	-50 ~ +50 [Default:0]
		Frequency		-50 ~ +50 (depends on signal)
	Signal  Dynamic Black	Phase		0 ~ 31 (depends on signal)
		H. Position		-50 ~ +50 (depends on signal)
		V. Position		-50 ~ +50 (depends on signal)
				On [Default]
				Off

Level 1	Level 2	Level 3	Level 4	Value
	Deighton M- 1			Eco.
	Brightness Mode			Bright
	Digital Zoom			-5 ~ 25 [Default:0]
				4:3
	1.00			16:9
	Aspect Ratio			Native
Image Settings				Auto [Default]
				Off
				Low
	PureMotion			Middle
				High
	Reset			
	0D.M. I			On
	3D Mode			Off [Default]
				Auto [Default]
				SBS
3D	3D Format			Top and Bottom
				Frame Packing
				On
	3D Sync Invert			Off [Default]
	1			On [Default]
	Internal Speaker			Off
	Adia Ot			On
Audio Settings	Audio Out			Off [Default]
	Musta			On
	Mute			Off [Default]
	Volume			0 ~ 10 [Default:5]
		Lamp Hour		Read-Only [Range 0 ~ 9999]
		Lamp Reset		Yes
	Lamp Settings			No [Default]
		Laman Damindan		On [Default]
Projector Settings		Lamp Reminder -		Off
		Filter Usage Hour		Read-Only [Range 0 ~ 9999]
				Off [Default]
	Filter Settings			300hr
		Filter Reminder		500hr
				800hr
				1000hr
		Filter Reset		Yes
				No [Default]

Level 1	Level 2	Level 3	Level 4	Value
		Direct Power On		On
				Off [Default]
		Auto Power Off		On [Default]
				Off
	Power Settings	Sleep Timer(min.)		Off(0) ~ 990 (30 min increments) [Default: Off]
				Eco. [Default]
		Power Mode(Standby)		Active
				Full Power Active
		Projector ID		0 ~ 99 [Default: 0]
				None [Default]
				Grid (Green)
		Test Pattern		Grid (Magenta)
				Grid (White)
Projector Settings				White
	Others	Projection Mode		Front [Default]
				Rear 👞
				Front-Ceiling
				Rear-Ceiling
		HDMI EDID		2.0 [Default]
				1.4
		HDMI/VGA/USB Disk		Notification
				Source Auto-change [Default]
				None
		High Altitude		On
				Off [Default]
		12V Trigger		On
				Off [Default]

Level 1	Level 2	Level 3	Level 4	Value
	Regulatory			
	Serial Number			
	Source			HDMI1 / HDMI2 / VGA / Component / Media
	Resolution			
	Display Mode			None / Cinema / HDR/ HDR SIM. / Game / Reference / Bright / User / 3D / ISF Day / ISF Night
	Brightness Mode			
Info	Power Mode(Standby)			Eco. / Active / Full Power Active
	Lamp Hour	Bright		"0 hr" ~ "99999 hr"
		Eco.		"0 hr" ~ "99999 hr"
		Dynamic		"0 hr" ~ "99999 hr"
		Total		"0 hr" ~ "299997 hr"
	Filter Usage Hour			"0 hr" ~ "99999 hr"
	Projector ID			0 ~ 99
	Color Depth			
	Color Format			
Info	FW Version	System		
		LAN		
		MCU		
Reset All				

### Image settings menu

#### Display mode

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

- Cinema: Provides the best colors for watching movies.
- 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.
- HLG: For HDR movies with Hybrid Log content.
- HDR SIM.: Enhances non-HDR content with simulated High Dynamic Range (HDR). Choose this
  mode to enhance gamma, contrast, and color saturation for non-HDR content (720p and 1080p
  Broadcast/Cable TV, 1080p Blu-ray, non-HDR Games, etc). This mode can ONLY be used with nonHDR content.
- Game: Select this mode to increase the brightness and response time level for enjoying video games.
- **Reference**: This mode is intended to reproduce as close as possible the image the way the movie director intended. Color, color temperature, brightness, contrast and gamma settings are all configured to standard reference levels. Select this mode to watch a video.
- Bright: Maximum brightness from PC input.
- User: Memorize user's settings.
- **3D**: To experience the 3D effect, you need to have 3D glasses. Make sure a Blu-ray 3D DVD player is installed.
- ISF Day: Optimize the image with the ISF Day mode to be perfectly calibrated and high picture quality.
- ISF Night: Optimize the image with the ISF Night mode to be perfectly calibrated and high picture quality.

Note: For access and calibration of ISF daytime and night viewing modes, please contact your local dealer.

#### **Dynamic Range**

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

#### ➤ HDR/HLG

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

#### > 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.
- Detail: Choose this mode for improved detail and image sharpness in dark scenes.

#### > HLG Picture Mode

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

#### **Brightness**

Adjust the brightness of the image.

#### **Contrast**

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

#### **Sharpness**

Adjust the sharpness of the image.

#### Color

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

#### **Tint**

Adjust the color balance of red and green.

#### **Gamma**

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

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

Note: These options are only available if the 3D mode function is disabled. In 3D mode, user can only select 3D 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 D55, D65, D75, D83, D93, or Native.
- Color Gamut: Select an appropriate color gamut from Native, HDTV, Presentation, Cinema, or Game.
- 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.
- Color Matching: Adjust hue, saturation, and gain for the red, green, blue, cyan, yellow, magenta, or white color.
- RGB Gain/Bias: This settings allows to configure the brightness (gain) and contrast (bias) of an image.

#### <u>Signal</u>

Adjust the signal options.

- 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.

#### **Dynamic Black**

Use to automatically adjust the picture brightness to give optimum contrast performance.

#### **Brightness Mode**

Adjust the brightness mode settings.

- **Eco**: Choose "Eco" to dim the projector lamp which will lower power consumption and extend the lamp life.
- **Bright**: Choose "Bright" to increase the brightness.

#### **Digital Zoom**

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

#### **Aspect ratio**

Select the aspect ratio of the displayed image.

- 4:3: This format is for 4:3 input sources.
- 16:9: This format is for 16:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- Native: This format displays the original image without any scaling.
- **Auto**: Automatically selects the appropriate display format.

#### 4K UHD scaling table:

16 : 9 screen	480i/p	576i/p	720p	1080i/p	2160p	
4x3	Scale to 2880 x 2	Scale to 2880 x 2160.				
16x9	Scale to 3840 x 2	Scale to 3840 x 2160.				
Native mode	1:1 mapping centered.  No scaling will be made; the displayed resolution depends on input source.					
Auto	-If source is 4:3, the screen type will be scaled to 2880 x 2160.					
	-If source is 16:9, the screen type will be scaled to 3840 x 2160.					
	-If source is 16:10, the screen type will be scaled to 3456 x 2160.					

#### Auto mapping rule:

	Input resolution		Auto/Scale	
	H-resolution	V-resolution	3840	2160
	640	480	2880	2160
	800	600	2880	2160
4:3	1024	768	2880	2160
4.3	1280	1024	2880	2160
	1400	1050	2880	2160
	1600	1200	2880	2160
Wide Laptop	1280	720	3840	2160
	1280	768	3600	2160
	1280	800	3456	2160
SDTV	720	576	2700	2160
	720	480	3240	2160

LIDTV	1280	720	3840	2160
אוטח	1920	1080	3840	2160

#### **PureMotion**

Use to preserve a natural motion of the displayed image.

#### Reset

Return the factory default settings for color settings.

#### 3D menu

**Note:** The maximum resolution is 1080P (4K resolution is not supported).

#### 3D Mode

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

#### **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 Packing: Display 3D signal in "Frame Packing" format.

#### **3D Sync Invert**

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

### Audio settings menu

#### **Internal Speaker**

Choose "On" or "Off" to turn on or off the internal speaker.

#### **Audio Out**

Choose the "On" or "Off" to turn on or off the audio out.

#### **Mute**

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.

#### **Volume**

Adjust the audio volume level.

### Projector settings menu

#### **Lamp Settings**

- Lamp Hour: Display the projection time.
- Lamp Reset: Resets the lamp hour counter after replacing the lamp.
- **Lamp Reminder**: Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 200 hours before suggested replacement of lamp.

#### **Filter Settings**

- Filter Usage Hour: 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.

#### **Power Settings**

- 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.
- **Auto Power Off**: Choose "On" to activate Auto Power Off mode. When no signal is detected or the projector is left idle for 20 minutes, the projector will automatically power off.
- **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).
- Power Mode(Standby): Set the power mode setting.
  - Eco.: Choose "Eco." to save power dissipation further < 0.5W.</li>
  - Active: Choose "Active" to return to normal standby (LAN on, Wi-Fi off).
  - Full Power Active: Choose "Full Power Active" to return to normal standby (LAN on, Wi-Fi on).

#### **Others**

- Projector ID: ID definition can be set up by menu (range 0-99), and allow user control an individual projector by using RS232 command.
- **Test Pattern**: Select the test pattern from Grid (Green), Grid (Magenta), Grid (White), White or disable this function (None).
- Projection Mode: Select the preferred projection between Front, Rear, Front-Ceiling, and Rear-Ceiling.
- HDMI EDID: Select the HDMI EDID type from 2.0 or 1.4.
  - Note: If you experience abnormal color issue, please adjust the EDID setting.
- HDMI/VGA/USB Disk: Define how the system will react when one of the input sources (HDMI/VGA/USB flash drive) is connected to the projector.
  - **Notification**: Choose "Notification" to display the input switching confirmation message when an input source is detected.
  - **Source Auto-change**: Choose "Source Auto-change" to automatically switch to the currently detected input source.
  - **None**: Choose "None" to manually switch the input source.
- **High Altitude**: When "On" is selected, the fans will spin faster. This feature is useful in high altitude areas where the air is thin.

**12V Trigger**: Use this function to enable or disable the trigger.



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

#### Info menu

View the projector information as listed below:

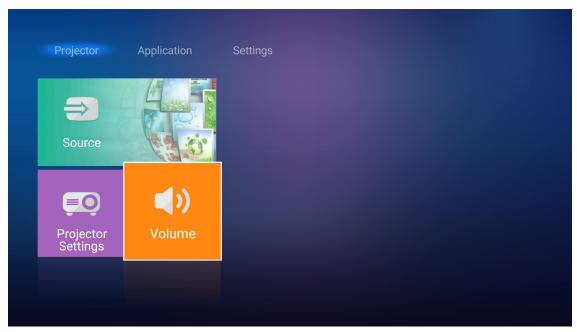
- Regulatory
- Serial Number
- Source
- Resolution
- Display Mode
- Brightness Mode
- Power Mode(Standby)
- Lamp Hour
- Filter Usage Hour
- Projector ID
- Color Depth
- Color Format
- FW Version

#### Reset all menu

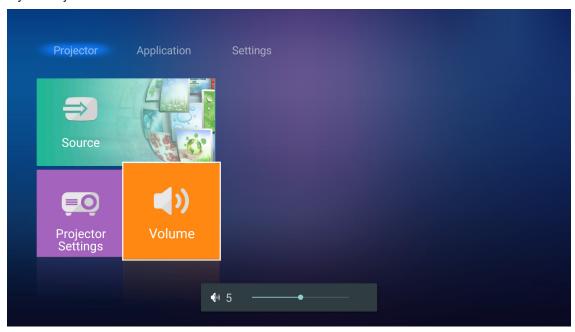
Return the factory default settings for all settings.

### Adjusting the volume level

Select **Volume** to adjust the audio volume level. Then press **Enter** on the remote control or **\leftrightarrow** on the projector keypad to enter the **Volume** menu.



Use **◄▶** keys to adjust the desired volume level.



Note: You can set the volume level to 0 to activate the mute function.

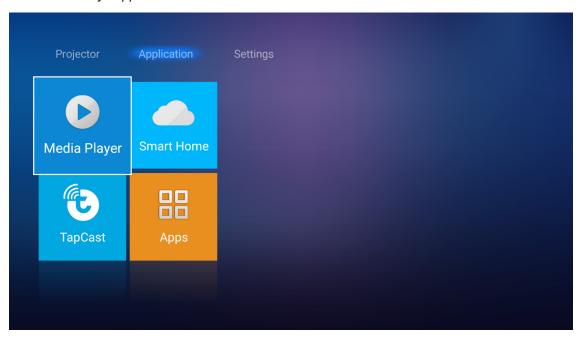
### **Application settings**

On the Application home screen, you can view the multimedia files, register the projector to the Device Cloud, and stream media files wirelessly. To switch to the Application home screen, select one of the main categories and use **◄▶** keys to select **Application**.

### Playing multimedia files

Select Media Player to browse multimedia files stored in the USB flash drive after connecting to projector.

Note: USB format is only supported on FAT and FAT32.



### **Multimedia support format**

#### **Photo**

Image Type (Ext name)	Sub Type	Maximum Pixels
lnog / lng	Baseline	8000 x 8000
Jpeg / Jpg	Progressive	6000 x 4000
PNG	Non-interlace	6000 x 4000
PNG	Interlace	6000 x 4000
ВМР		6000 x 4000

#### **Audio**

Music Type (Ext name)	Sample Rate (KHz)	Bit Rate (Kbps)
MP3	16~48	8~320
WMA	8~48	128~320
ADPCM-WAV	8~48	32~384
PCM-WAV	8~48	64~1536
AAC	8~48	8~48

### Video

File Format	Video Format	Decode Maximum Resolution	Maximum Bit Rate (bps)	Profile
MPG, MPEG	MPEG1/2	1920 x 1080 60fps	40M bps	MP@HP
MOV, MP4, MKV	H.264	4096 x 2176 30fps	135M bps	MP/HP @Level 5.1
AVI, MOV, MP4	MPEG4	1920 x 1080 60fps	40M bps	SP/ASP@Level 5.1
AVI, MP4, MOV, MKV	MJPEG	1920 x 1080 30fps	10M bps	Baseline
WMV, ASF	VC-1	1920 x 1080 60fps	40M bps	SP/MP/AP
3GP, MP4, AVI, MOV	H.263	1920 x 1080 60fps	40M bps	
MP4, MOV, MKV	HEVC/H.265	4096 x 2176 60fps	100M bps	Main/Main10 Profile, High Tier @Level 5.1
MKV	VP8	1920 x 1080 60fps	20M bps	
IVIINV	VP9	4096 x 2176 60fps	100M bps	Profile0,2
MP4, MOV, TS, TRP, TP	AVS	1920 x 1080 60fps	40M bps	Jizhun profile @Level 6.0

### **Document**

Document Format	Support Version and Format	Pages/Lines Limitation	Size Limitation	
PDF	PDF 1.0 ~ 1.7 and above	Up to 1500 pages (One File)	Up to 100MB	
	Kingsoft Writer Document (*.wps)			
	Kingsoft Writer Template (*.wpt)			
	Microsoft Word 97/2000/XP/2003 Document (*.doc)			
	Microsoft Word 97/2000/XP/2003 Template (*.dot)			
	RTF Files (*.rtf)		Up to 150MB	
	Text Files (*.txt, *.log, *.lrc, *.c, *.cpp, *.h, *.asm, *.s, *.java, *.asp, *.prg, *.bat, *.bas, *.cmd)			
	Web Page Files (*.html, *.htm)	Since WPS Projector does		
	Single Web Page Files (*.mht, *.mhtml)	not load the MS/Word files all at one time, there is no		
Word	Microsoft Word 2007/2010 Document (*.docx)	obvious limitation on the		
	Microsoft Word 2007/2010 Template (*.dotx)	number of pages and rows		
	Microsoft Word 2007/2010 Macro-Enabled Document (*.docm)	of files.		
	Microsoft Word 2007/2010 Macro-Enabled Template (*.dotm)			
	XML Files (*.xml)			
	OpenDocument Text (*.odt)			
	Works 6-9Document (*.wtf)			
	Works 6.0&7.0 (*.wps)			

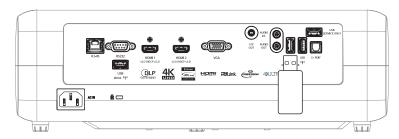
Document Format	Support Version and Format	Pages/Lines Limitation	Size Limitation	
	Kingsoft Spreadsheets Files (*.et)			
	Kingsoft Spreadsheets Template (*.ett)			
	Microsoft Excel 97/2000/XP/2003 Workbook (*.xls)			
	Microsoft Excel 97/2000/XP/2003 Template (*.xlt)			
Excel	Text Files (*.csv)	Row Limit: up to 65,535 Column Limit: up to 256	Up to 20MB	
Excei	Web Pages (*.htm, *.html)	Sheet: up to 200	Up to 30MB	
	XML Files (*.xml)			
	Microsoft Excel 2007/2010 Files (*.xlsx, *.xlsm)			
	Microsoft Excel 2007/2010 Template (*.xltx)			
	Microsoft Excel 2007/2010 Binary Workbook (*.xlsb)			
	Kingsoft Presentation Files (*.dps)			
	Kingsoft Presentation Templates (*.dpt)		Up to 30MB	
	Microsoft PowerPoint 97/2000/XP/2003 Presentations (*.ppt, *.pps)			
PowerPoint	Microsoft PowerPoint 97/2000/XP/2003 Presentation Templates (*.pot)	Up to 1500 pages (One File)		
	Microsoft PowerPoint 2007/2010 Presentations (*.pptx, *.ppsx)			
	Microsoft PowerPoint 2007/2010 Presentations Template (*.potx)			

#### Note:

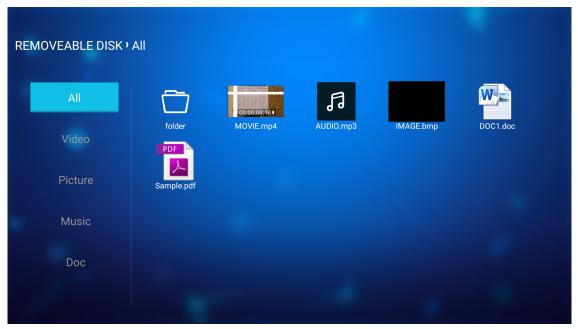
- Decoding may take a while for large files with complex contents.
- Objects embedded in files cannot be activated or viewed.
- For Microsoft Word
  - No support for advanced settings, such as drawing plug-in or table background settings.
  - Contents outside the defined borders in Microsoft Word will not be displayed.
  - Not support Bold Text in Simplified Chinese font.
- For Microsoft PowerPoint
  - Slide effects not supported.
  - Password-protected sheets are not protected.
- For Microsoft Excel
  - Worksheets are displayed individually and sequentially when the workbook has multiple worksheets.
  - Page layout and numbering may be changed during decoding.

### **Entering the multimedia mode**

1. Insert a USB flash drive to the USB connector on the rear side of the projector.



The available files appears on the screen.



Note: To manually enter the multimedia mode, select Application > Media Player.

2. Browse and select the file you want to view.

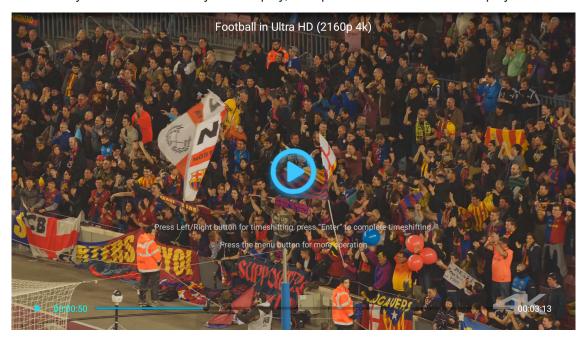
#### **Playing Videos**

1. From the left panel, select Video to browse all video files.



If there are several folders, press ▲▼◀▶ keys to select the desired folder, then press Enter/← to view the subfolder content.

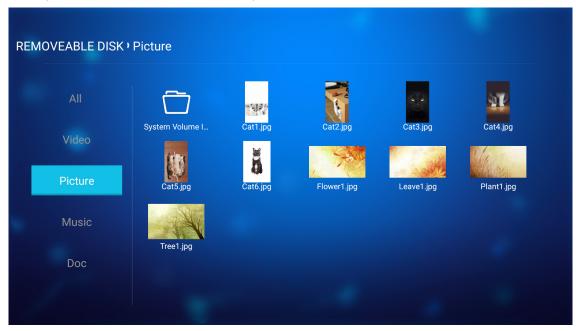
Press ▲▼◀▶ keys to select the video you want play, then press **Enter/←** to start the playback. 2.



- Press **Enter**/← to pause the playback. While the video is being paused:
  - Press **◄►** keys to rewind or fast forward the video.
  - To resume, press **Enter**/**←**.
- To stop playback at any time, press .

#### **Viewing Photos**

1. From the left panel, select **Picture** to browse all picture files.



If there are several folders, press  $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$  keys to select the desired folder, then press **Enter**/ $\hookleftarrow$  to view the subfolder content.

2. Press ▲▼◀▶ keys select a photo, then press **Enter/←** to view the photo in full screen.

### Photo Options

While viewing the photo in full screen:

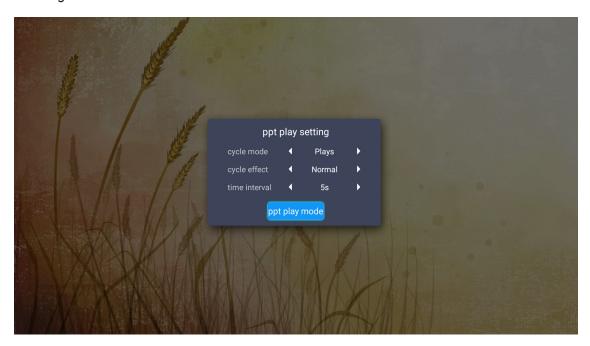
- Use ◀▶ keys to view the previous or next photo.
- Press Enter/← to access the quick menu.



- Select ppt play mode to configure the slide show settings.
- Select rotate photo to rotate the photo 90-degree clockwise.

- Select **enlarge photo** to magnify the view of a photo.
- Select **Previous** to view the previous photo.
- Select **Next** to view the next photo.

#### Slide show Settings



### cycle mode

Set the slide show mode option.

#### cycle effect

Select the transition effect between each slide displays.

#### time interval

Set the interval time between each slide displays.

### ppt play interval

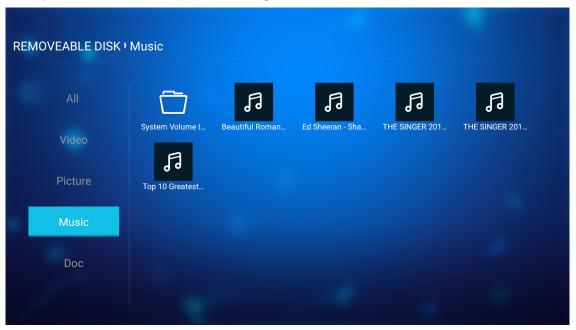
Select to start the slide show.

#### Note:

- To pause the slide show, press Enter/ ←.
- To stop the slide show, press 🗢 .

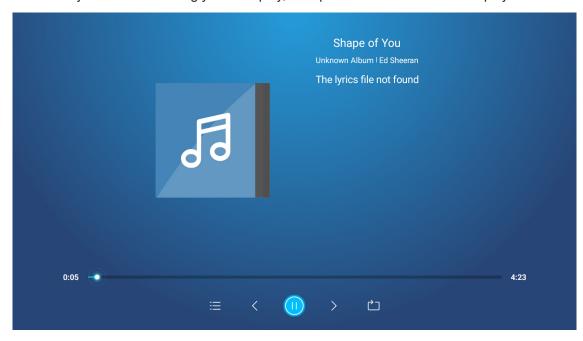
#### **Playing Music**

1. From the left panel, select **Music** to browse all songs or audio files.



If there are several folders, press  $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$  keys to select the desired folder, then press **Enter**/ $\hookleftarrow$  to view the subfolder content.

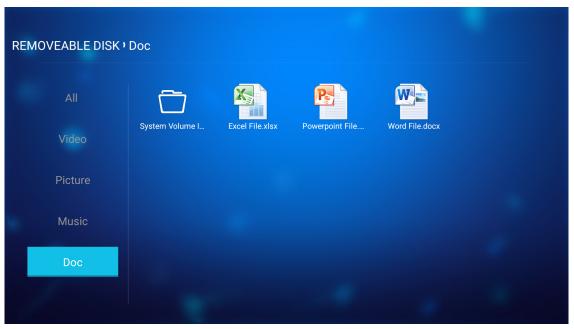
2. Press ▲▼◀▶ keys to select the song you want play, then press **Enter/←** to start the playback.



- To pause the playback, select ⊕ and press Enter/←. To resume, select ⊕ and press Enter/
- To skip to the previous/next track, select ⟨/⟩ and press Enter/←.
- To switch the play mode, select ☐ and press **Enter**/ repeatedly to select the desired mode.
- To stop playback at any time, press <sup>♠</sup>.

#### **Viewing Document**

1. From the left panel, select **Doc** to browse all document files.



If there are several folders, press ▲▼◀▶ keys to select the desired folder, then press Enter/← to view the subfolder content.

2. Press ▲▼◀▶ kevs to select the document you want to view, then press Enter/← to open the file.



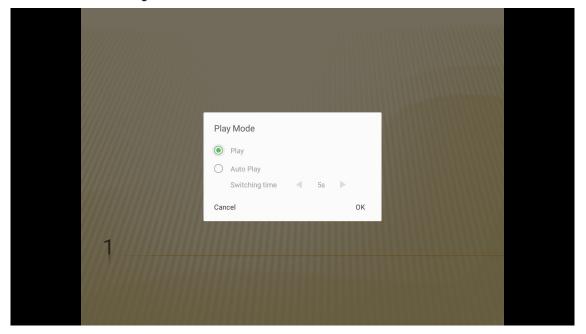
LOS ANGELES (Wednesday, Dec. 6, 2017) - The LA Galaxy have finalized their 2018 preseason schedule, the club announced today. Ahead of their 23<sup>rd</sup> season in Major League Soccer, the team will participate in two exhibition matches at StubHub Center and one at Orange County Great Park in Irvine, Calif., hosting New York City FC, Vancouver Whitecaps FC and the San Jose Earthquakes during February before the team's 2018 MLS Regular Season opening match in

March.

2018 LA Galaxy Season Ticket Members will receive access to the three LA Galaxy preseason exhibition games. Tickets to the Galaxy's matches at StubHub Center against New York City FC (Feb. 10) and Vancouver Whitecaps FC (Feb. 24) will go on sale to the general public beginning Tuesday, Dec. 12 at 10 a.m. PT. The mezzanine level will be closed for the preseason matches. Beginning today, Galaxy Season Ticket Members

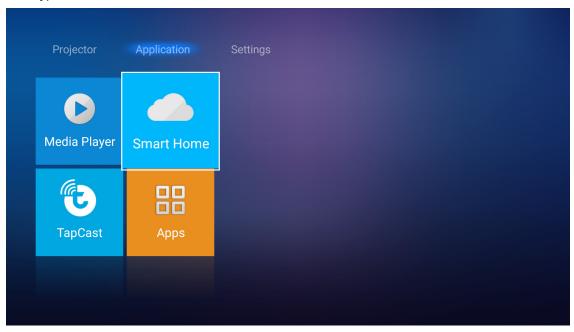
- Press ▲▼◀▶ keys to scroll the page up/down or navigate the page.
- To close the document at any time, press  $\stackrel{\bullet}{\supset}$ .

**Note:** When opening a Powerpoint file, the Play Mode menu will appear on the screen. Then select the desired play mode and select **OK** to start browsing the file.

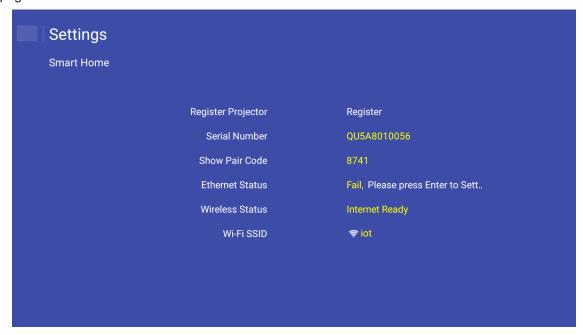


### Registering the projector to Device Cloud

Select **Smart Home** to register the projector to the Device Cloud. Then press **Enter** on the remote control or ← on the projector keypad to enter the **Smart Home** menu.

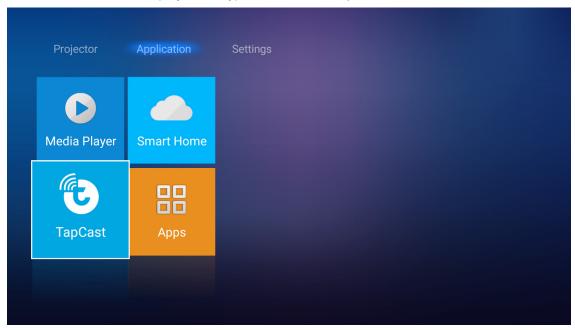


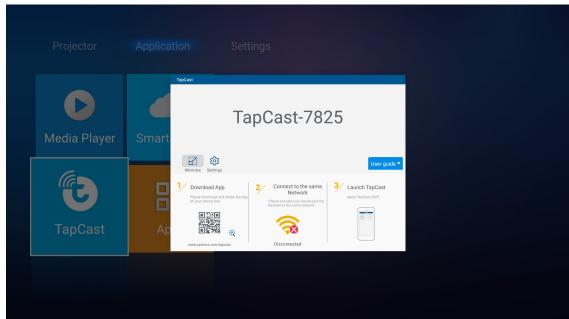
The current setting parameters are displayed on the screen. To register the projector to the Device Cloud, please refer to page 70.



### **Wireless Media Streaming**

Select **TapCast** to project your mobile device display to the projector through Wi-Fi connection. Then press **Enter** on the remote control or — on the projector keypad to enter the **TapCast** screen.





1. When using TapCast function for the first time, download and install the TapCast application into your mobile device.

Note: You can scan the QR code shown on the screen.

- 2. On the projector, insert the Wi-Fi dongle and go to **Settings > Network > Wireless Setting (Wi-Fi Display)**. Then set the **Wi-Fi** setting to ON.
- 3. Connect the projector to an available network. For details, please refer to page 51.
- 4. On your mobile device, enable the Wi-Fi function. Then connect to the same network as the projector. **IMPORTANT!** 
  - The projector and your mobile device must be connected to the same Wi-Fi network.
  - During the Wi-Fi Display operation, make sure that you have access to the internet.

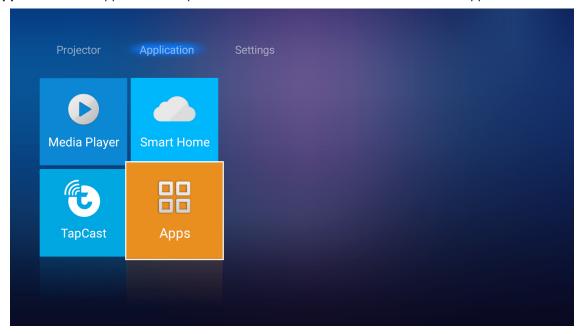
Note: The connection method may varies depending on the dongle type. Please refer to its documentation for details.

- 5. Launch "TapCast" application and connect to your dongle.
- 6. Once connected, the mobile device display will be projected on the screen.

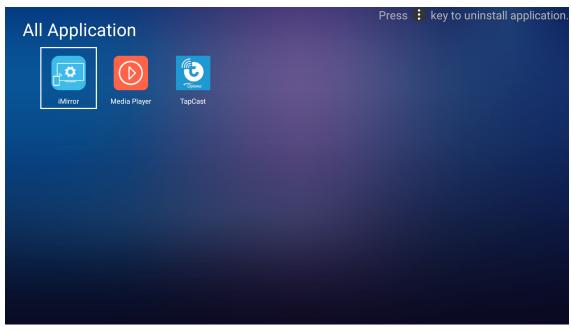
### **Application settings**

### Accessing all apps

Select **Apps** to view the apps list. Then press **Enter** on the remote control to enter the Apps menu.



Use ◀▶ keys to select the desired application. Then press **Enter** on the remote control to launch the selected application.

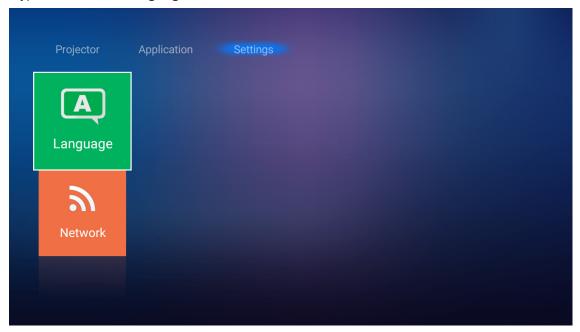


### **General settings**

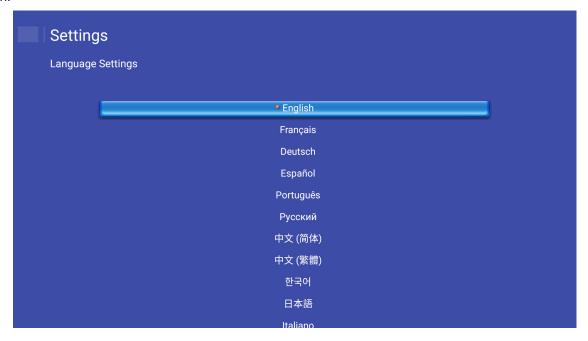
On the **Settings** home screen, you can set the on-screen display (OSD) language and configure the network settings. To switch to the **Settings** home screen, select one of the main categories and use **◄▶** keys to select **Settings**.

### **Changing the OSD language**

Select **Language** to set the on-screen display language. Then press **Enter** on the remote control or  $\longleftarrow$  on the projector keypad to enter the **Language** menu.

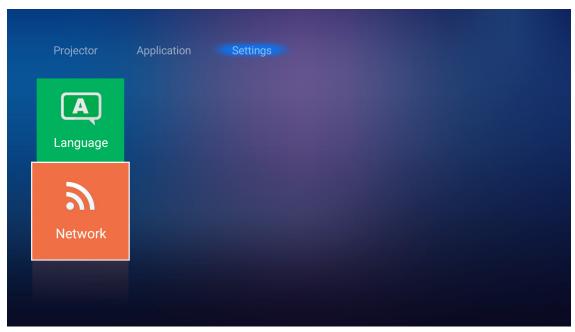


The available languages appear on the screen. Select the desired language and press **Enter**/← to confirm the selection.

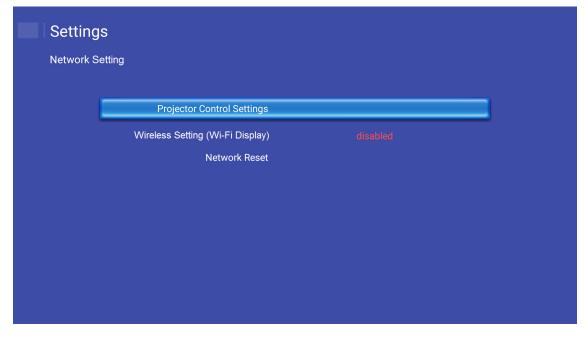


### Configuring the network settings

Select **Network** to configure the network setting. Then press **Enter** on the remote control or ← on the projector keypad to enter the **Network** menu.



Select Projector Control Settings. Then perform the necessary settings.

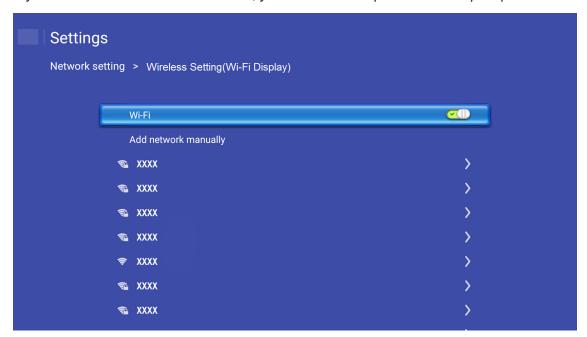


Note: To configure the wireless connection, select Wireless Setting (Wi-Fi Display) and do the following:

a. Insert a Wi-Fi dongle first, and then enable the Wi-Fi function.

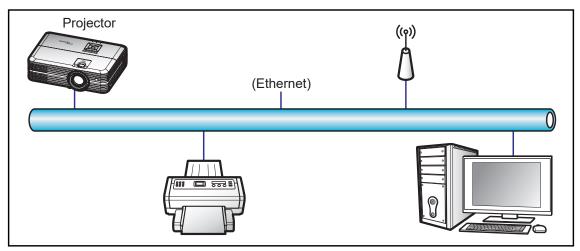
b. Connect to an available Wi-Fi network from the list.

If you connect to a secure Wi-Fi network, you must enter the password when prompted.



#### **LAN RJ45 function**

For simplicity and ease of operation, the projector provides diverse networking and remote management features.



#### **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).

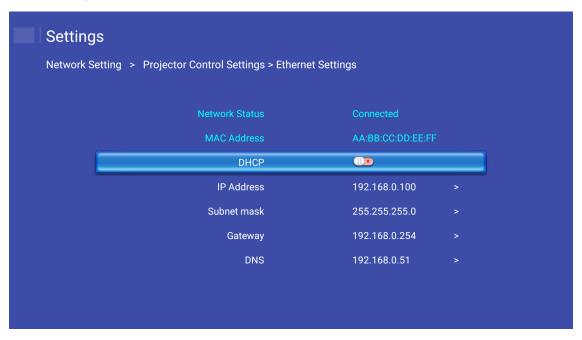
http://www.amx.com/

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

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

### **Ethernet Settings**

Configure the network parameters.



DHCP: Off

IP Address: 192.168.0.100

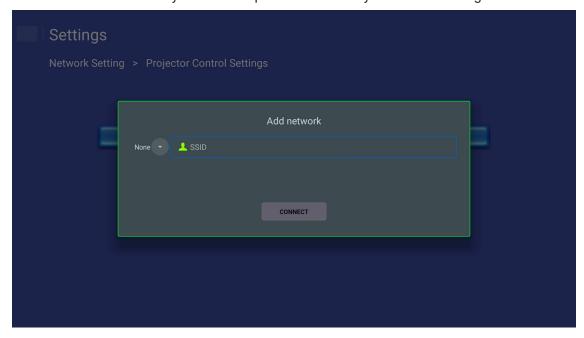
Subnet Mask: 255.255.255.0

Gateway: 192.168.0.254

DNS: 192.168.0.51

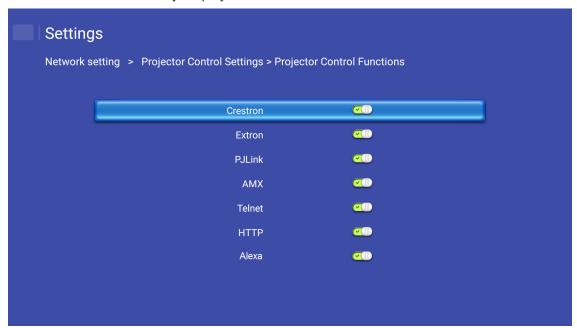
#### **Wireless Settings**

Connect to other Alexa devices after you have complete the necessary connection settings.



### **Projector Control Functions**

Configure how to monitor and control your projector over the network.



### **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.



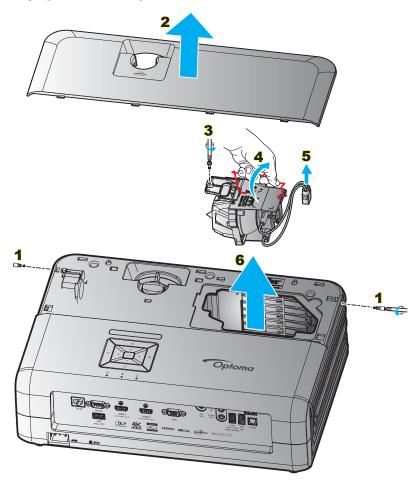
Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



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:

- Switch off the power to the projector by pressing the "()" button on the projector keypad or the remote 1.
- 2. Allow the projector to cool down for at least 30 minutes.
- 3. Disconnect the power cord.
- 4. Remove the 2 screws securing the top cover. 1
- 5. Remove the top cover. 2
- 6. Remove 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.
- Lamp Reset: (i) Press "Menu" → (ii) Select "Projector Settings" → (iii) Select "Lamp Settings" → (iv) 12. Select "Lamp Reset" → (v) Select "Yes".

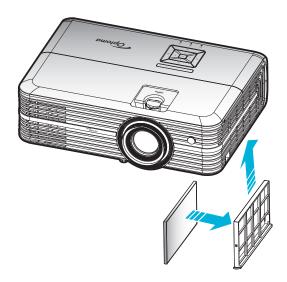
#### Note:

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

## **MAINTENANCE**

### Installing and cleaning the dust filter

### Installing the dust filter



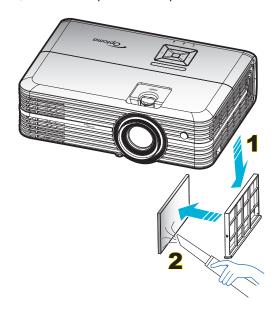
Note: Dust filters are only required/supplied in the selected regions with excessive dust.

## Cleaning the dust filter

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

#### Procedure:

- 1. Switch off the power to the projector by pressing the "🖰" button on the projector keypad or 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 (HDMI 1.4)

Native resolution: 1920 x 1080 @ 60Hz

Established Timing	Standard Timing	Descriptor Timing	Supported Video Mode	Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	1920 x 1080 @ 60Hz (default)	720 x 480i @ 60Hz 16:9	1920 x 1080p @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz		720 x 480p @ 60Hz 4:3	
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz		720 x 480p @ 60Hz 16:9	
640 x 480 @ 72Hz	1920 x 1200 @ 60Hz (reduced)		720 x 576i @ 50Hz 16:9	
640 x 480 @ 75Hz	1366 x 768 @ 60Hz		720 x 576p @ 50Hz 4:3	
800 x 600 @ 56Hz			720 x 576p @ 50Hz 16:9	
800 x 600 @ 60Hz			1280 x 720p @ 60Hz 16:9	
800 x 600 @ 72Hz			1280 x 720p @ 50Hz 16:9	
800 x 600 @ 75Hz			1920 x 1080i @ 60Hz 16:9	
832 x 624 @ 75Hz			1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 60Hz			1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 70Hz			1920 x 1080p @ 50Hz 16:9	
1024 x 768 @ 75Hz			1920 x 1080p @ 24Hz 16:9	
1280 x 1024 @ 75Hz			3840 x 2160 @ 24Hz	
1152 x 870 @ 75Hz			3840 x 2160 @ 25Hz	
			3840 x 2160 @ 30Hz	
			4096 x 2160 @ 24Hz	

### Digital (HDMI 2.0)

Native resolution: 1920 x 1080 @ 60Hz

B0 / Established Timing	B0 / Standard Timing	B1 / Video Mode	B1 / Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	720 x 480i @ 60Hz 16:9	1920 x 1080p @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz	720 x 480p @ 60Hz 4:3	
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz	720 x 480p @ 60Hz 16:9	
640 x 480 @ 72Hz	1920 x 1200 @ 60Hz (reduced)	720 x 576i @ 50Hz 16:9	
640 x 480 @ 75Hz	1366 x 768 @ 60Hz	720 x 576p @ 50Hz 4:3	
800 x 600 @ 56Hz		720 x 576p @ 50Hz 16:9	
800 x 600 @ 60Hz		1280 x 720p @ 60Hz 16:9	
800 x 600 @ 72Hz		1280 x 720p @ 50Hz 16:9	
800 x 600 @ 75Hz		1920 x 1080i @ 60Hz 16:9	
832 x 624 @ 75Hz		1920 x 1080i @ 50Hz 16:9	
1024 x 768 @ 60Hz		1920 x 1080p @ 60Hz 16:9	
1024 x 768 @ 70Hz		1920 x 1080p @ 50Hz 16:9	
1024 x 768 @ 75Hz		1920 x 1080p @ 24Hz 16:9	
1280 x 1024 @ 75Hz		3840 x 2160 @ 24Hz	
1152 x 870@ 75Hz		3840 x 2160 @ 25Hz	
		3840 x 2160 @ 30Hz	
		3840 x 2160 @ 50Hz	
		3840 x 2160 @ 60Hz	
		4096 x 2160 @ 24Hz	
		4096 x 2160 @ 25Hz	

B0 / Established Timing	B0 / Standard Timing	B1 / Video Mode	B1 / Detail Timing
		4096 x 2160 @ 30Hz	
		4096 x 2160 @ 50Hz	
		4096 x 2160 @ 60Hz	

Note: Support 1920 x 1080 @ 50Hz.

### Analog

Native resolution: 1920 x 1080 @ 60Hz

B0 / Established Timing	B0 / Standard Timing	B0 / Detail Timing	B1 / Detail Timing
720 x 400 @ 70Hz	1280 x 720 @ 60Hz	1920 x 1080 @ 60Hz (default)	1366 x 768 @ 60Hz
640 x 480 @ 60Hz	1280 x 800 @ 60Hz		
640 x 480 @ 67Hz	1280 x 1024 @ 60Hz		
640 x 480 @ 72Hz	1400 x 1050 @ 60Hz		
640 x 480 @ 75Hz	1600 x 1200 @ 60Hz		
800 x 600 @ 56Hz			
800 x 600 @ 60Hz			
800 x 600 @ 72Hz			
800 x 600 @ 75Hz			
832 x 624 @ 75Hz			
1024 x 768 @ 60Hz			
1024 x 768 @ 70Hz			
1024 x 768 @ 75Hz			
1280 x 1024 @ 75Hz			
1152 x 870 @ 75Hz			

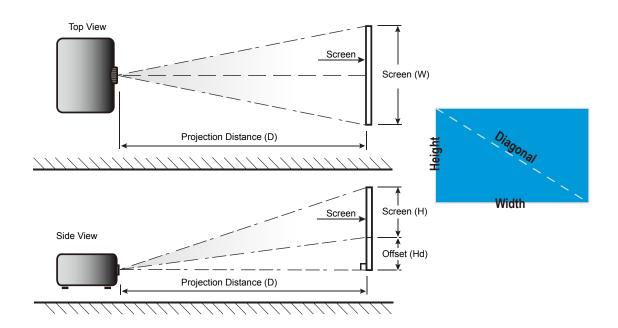
Note: Support 1920 x 1080 @ 50Hz.

#### 3D timing for HDMI1.4b 3D supported

tilling for Tibilit.46 3D supported							
2D Supported Frame Rate	Timing	Format					
59/60Hz option	1920 x 1080p	Frame packing					
		Side-by-Side (Half)					
		Top-and-Bottom					
	1920 x 1080i	Frame packing					
		Side-by-Side (Half)					
		Top-and-Bottom					
50Hz option	1920 x 1080p	Frame packing					
		Side-by-Side (Half)					
		Top-and-Bottom					
	1920 x 1080i	Frame packing					
		Side-by-Side (Half)					
		Top-and-Bottom					
23.98/24Hz option	1920 x 1080p	Frame packing					
		Side-by-Side (Half)					
		Top-and-Bottom					

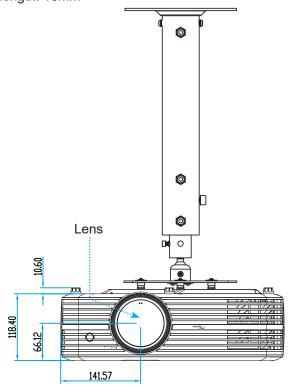
## Image size and projection distance

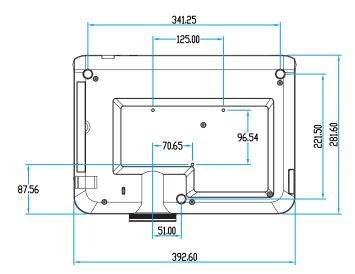
	Screen Size W x H				Projection Distance (D)				Officet (UD)	
Diagonal length (inch) size of 16:9 Screen	(m)		(inch)		(m)		(feet)		Offset (HD)	
01 10.3 0010011	Width	Height	Width	Height	Wide	Tele	Wide	Tele	(m)	(feet)
30	0.66	0.37	25.97	14.61	-	1.05	-	3.44	0.02	0.07
40	0.89	0.50	34.86	19.61	1.07	1.41	3.51	4.62	0.03	0.09
60	1.33	0.75	52.29	29.42	1.61	2.11	5.27	6.93	0.04	0.13
70	1.55	0.87	61.01	34.32	1.88	2.46	6.15	8.08	0.05	0.16
80	1.77	1.00	69.73	39.22	2.14	2.82	7.03	9.23	0.05	0.18
90	1.99	1.12	78.44	44.12	2.41	3.17	7.91	10.39	0.06	0.20
100	2.21	1.25	87.16	49.03	2.68	3.52	8.78	11.54	0.07	0.22
120	2.66	1.49	104.59	58.83	3.21	4.22	10.54	13.85	0.08	0.27
150	3.32	1.87	130.74	73.54	4.02	5.28	13.18	17.31	0.10	0.34
180	3.98	2.24	156.88	88.25	4.82	6.34	15.81	20.78	0.12	0.40
200	4.43	2.49	174.32	98.05	5.36	7.04	17.57	23.08	0.14	0.45
250	5.53	3.11	217.89	122.57	6.70	8.80	21.96	28.85	0.17	0.56
300.6	6.65	3.74	262.00	147.37	8.05	-	26.40	-	0.21	0.68



### 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.



#### Warning:

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

### IR remote codes



Key		Key num	MTX.	Format	Data0	Data1	Data2	Data3	Description
Power on / off	Ф	K12	04	F1	32	CD	71	8E	Refer to the "Power On/ Off the Projector" section on page 19.
Source	Ð	K3	11	F1	32	CD	18	E7	Press 🔁 to select an input signal.
Home	合	K13	03	F1	32	CD	92	6D	Press 🖒 to return to the Home screen.
Menu		K8	17	F1	32	CD	0E	F1	Press $\equiv$ to launch the on-screen display (OSD) menu. To exit OSD, press $\equiv$ again.
Return	<b>→</b>	K4	10	F1	32	CD	86	79	Press 🗢 to return to the previous page.
Up		K7	18	F2	32	CD	11	EE	
Left	•	K14	02	F2	32	CD	10	EF	Use ▲ ▼ ◀▶ to select items or make
Right	•	K5	09	F2	32	CD	12	ED	adjustments to your selection.
Down		K2	19	F2	32	CD	14	EB	
Enter	Enter	K9	16	F1	32	CD	0F	F0	Confirm your item selection.
Mute	■×	K15	01	F1	32	CD	52	AD	Press     × to turn off/on the projector built-in speaker.
Display Mode	•	K10	15	F1	32	CD	91	6E	Press   to display the Display Mode menu.  To exit the Display Mode menu, press   again.
Option	:	K6	08	F1	32	CD	25	DA	Press to configure the Smart TV settings.
Volume -	-	K11	12	F2	32	CD	0C	F3	Press – to decrease the volume.
Volume +	+	K1	05	F2	32	CD	09	F6	Press + to increase the volume.

### **Troubleshooting**

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

### Image problems

- No image appears on-screen
  - Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
  - Ensure the pins of connectors are not crooked or broken.
  - Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section on pages 56-57.
  - Ensure that the "Mute" feature is not turned on.
- Image is out of focus
  - Adjust the Focus Ring on the projector lens. Please see page 17.
  - Make sure the projection screen is between the required distance from the projector. (Please refer to page 60).
- 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 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 Settings-->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 "Projector Settings-->Projection Mode" from the OSD and adjust the projection direction.
- Blurry double image
  - Make sure "Display Mode" is not 3D to avoid normal 2D image appear blurry double image.

- ? Two images, side-by-side format
  - Set the "3D" --> "3D Format" to "SBS".

### Other problems

- ? The projector stops responding to all controls
  - If possible, turn off the projector, then unplug the power cord and wait at least 20 seconds before reconnecting power.
- ? Lamp burns out or makes a popping sound
  - When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section on pages 56-57.

### Remote control problems

- ? If the remote control does not work
  - Check the operating angle of the remote control is pointed within ±15° (horizontally) or ±10° (vertically) to the IR receiver on the projector.
  - Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (~22 ft) of the projector.
  - Make sure battery is inserted correctly.
  - Replace battery if it is 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	On/Standby LED		Temp LED	Lamp LED
	(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.		
Error (Lamp failure)	Flashing			Steady light
Error (Fan failure)	Flashing		Flashing	
Error (Over temp.)	Flashing		Steady light	
Standby State (Burn in mode)		Flashing		
Burn in (Warming)		Flashing		
Burn in (Cooling)		Flashing		
Burn in (Lamp lighting)		Flashing (3 sec on / 1 sec off)		
Burn in (Lamp off)		Flashing (1 sec on / 3 sec off)		

Power off:



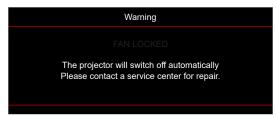
Temperature warning:



Lamp warning:



Fan failed:



Power down warning:



## **Specifications**

Optical	Description		
	- Graphic up to 2160p@60Hz		
Maximum resolution	- Maximum Resolution: HDMI1 (2.0): 2160p@60Hz		
	HDMI2 (2.0): 2160p@60Hz		
Native resolution	(w/o actuator) 1920x1080		
Lens	Manual zoom and manual focus		
Image size (diagonal)	34.1"~302.4", optimized@wide 82"(2.2m)		
Projection distance	1.2~8.1m, optimized@1.61m		

Electrical	Description
Inputs	- HDMI V2.0 x2
	- VGA IN
	- Audio In 3.5mm
	- USB-A x2 (1 for Service, 1 for Alexa)
	- USB3.0 (for 5V PWR 1.5A or USB/Wi-Fi dongle)
	- USB2.0
	- RS232C male (9-pin D-SUB)
	- RJ-45 (support web control)
Outputs	- Audio Out 3.5mm
	- SPDIF Out (2 channels PCM)
	- 12V Trigger (3.5mm jack)
Color reproduction	1073.4 Million color
Scan rate	Horizontal scan rate: 15.375 ~ 91.146 KHz
	Vertical scan rate: 24 ~ 85 Hz (120Hz for 3D feature projector)
Built-in speaker	2x 5W speakers
Power requirement	100 - 240V ±10%, AC 50/60Hz
Input current	3.8A-1.0A

Mechanical	Description	
Installation orientation	Front, Rear, Ceiling - Front, Rear - top	
Dimensions (W x D x H)	- 392.6 x 281.6 x 118.4 mm (without feet)	
	- 392.6 x 281.6 x 129 mm (with feet)	
Weight	6.5 ±0.5 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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