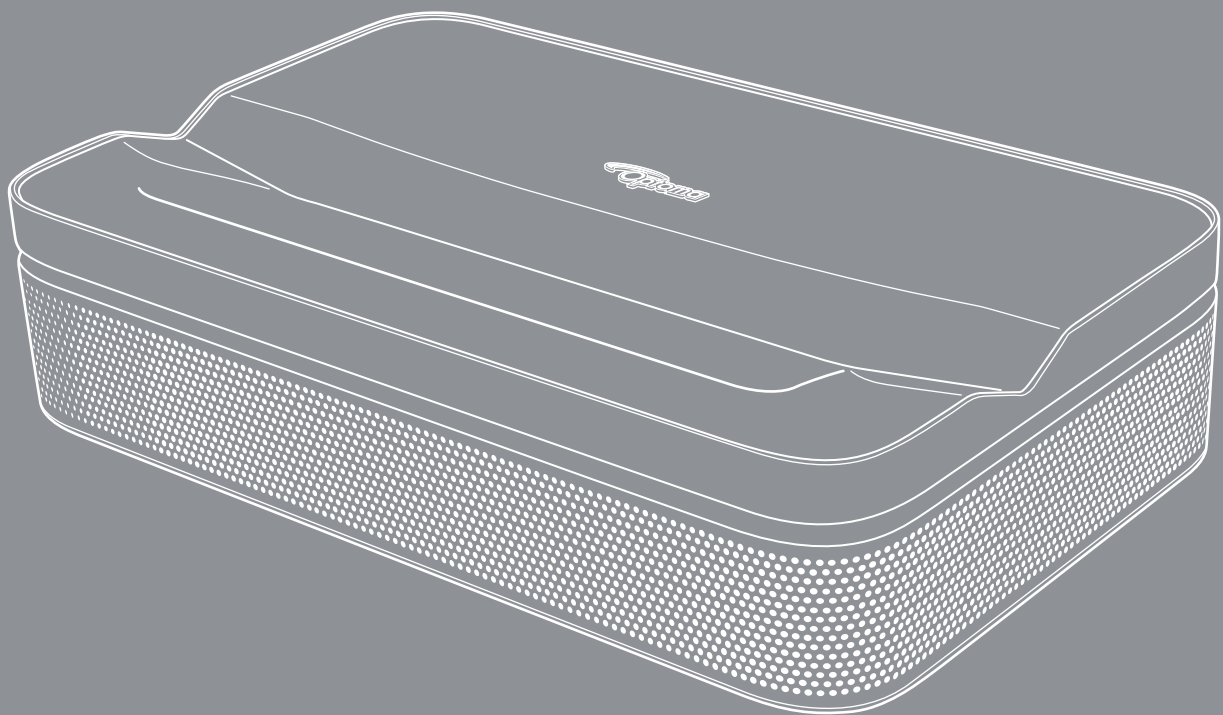


# Triple Laser Ultra Short Throw Home Theater Projector

## User manual



### Disclaimer

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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 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 0°C ~ 40°C
    - (ii) Relative humidity is 10% ~ 85%
    - (iii) Storage and transportation ambient temperature: -10°C ~ 50°C
    - (iv) Altitude is not higher than 5000m (air pressure not less than 80kPa)
  - 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 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.
- **CAUTION**  
Risks of explosion if the battery is replaced by an incorrect type:
  - replacement of a battery with an incorrect type that can defeat a safeguard.
  - disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
  - leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
  - a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- 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

- Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
- This projector has built-in Class module. Disassembly or modification is very dangerous and should never be attempted.

- Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.
- Notice is given to use caution when using the remote control for starting the projector while in front of the projection lens.
- Notice is given to the user to avoid the use of optical aids such as binoculars or telescopes inside the beam.
- 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 harm by exposure to possible laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.
- Not following the control, adjustment or operation procedure may cause damage by exposure to possible laser radiation.

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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.

## 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 numérique de la classe B est conforme à 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)

## Declaration of Conformity for RED

Hereby, Optoma corporation declares that the radio equipment type of this product is in compliance with Directive 2014/53/EU (UK: Radio Equipment Regulations 2017 (S.I. 2017/1206)). The full text of the EU Declaration of Conformity is available upon request.

Please visit our website for the full text of the EU declaration of conformity.

## WEEE

### Disposal instructions



This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

## UKCA

**UK  
CA**

Satisfies all the technical regulations applicable to the product within the scope of UK Radio Equipment Regulations (SI 2017/1206); UK Electrical Equipment (Safety) Regulations (SI 2016/1101); and UK Electromagnetic Compatibility Regulations (SI 2016/1091).

## RF Frequency Range

Bluetooth: 2402MHz – 2480MHz

2.4GHz Wi-Fi: 2412MHz – 2472MHz

5GHz Wi-Fi: 5150MHz–5250MHz, 5250MHz–5350MHz, 5470MHz–5725MHz, 5725MHz–5850MHz

## RF EIRP

Bluetooth: EIRP <20dBm

2.4GHz Wi-Fi: EIRP <20dBm

5GHz Wi-Fi:

- 5150-5250MHz: EIRP <23dBm
- 5250–5350MHz: EIRP <20dBm
- 5470-5725MHz: EIRP <20dBm
- 5725–5850MHz: EIRP <13.98dBm

## WLAN Function Restriction

This device complies with relevant RF radiation exposure limits when positioned at least 20cm away from your body.

Use Restriction: The WLAN function for this device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range in following countries:

This device can be operated in all Member States, without infringing applicable requirements on the use of radio spectrum.

|                                                                                     |    |    |    |    |    |    |    |    |        |    |    |    |
|-------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|--------|----|----|----|
|  | AT | BE | BG | CH | CY | CZ | DK | DE | EE     | EL | ES | FI |
|                                                                                     | FR | HR | HU | IE | IS | IT | LI | LT | LU     | LV | MT | NL |
|                                                                                     | NO | PL | PT | RO | SE | SI | SK | TR | UK(NI) |    |    |    |
|  | UK |    |    |    |    |    |    |    |        |    |    |    |
|                                                                                     |    |    |    |    |    |    |    |    |        |    |    |    |

## 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.



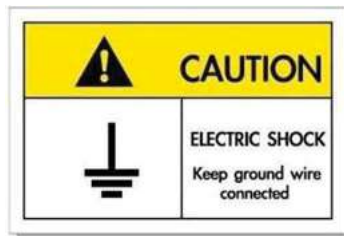
Warning: Do not clean the lens if the projector is warming up as this may cause the lens' surface film to peel off.



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



Warning: Mount above the heads of children. The use of a ceiling mount is recommended with this product to place it above the eyes of children.



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

# INTRODUCTION

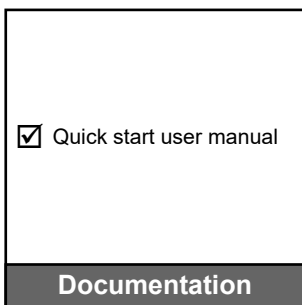
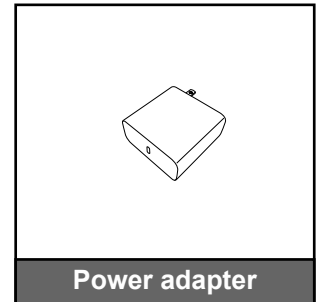
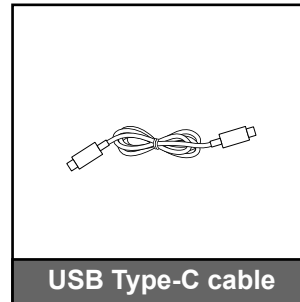
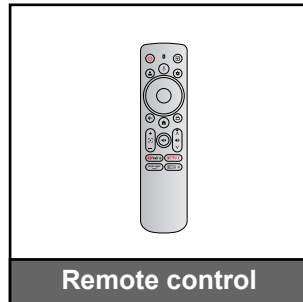
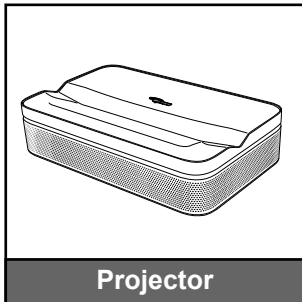
Thank you for purchasing an Optoma laser projector. For full list of features please visit the product page on our website, where you will also find additional information and documentation such as FAQs.

## 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



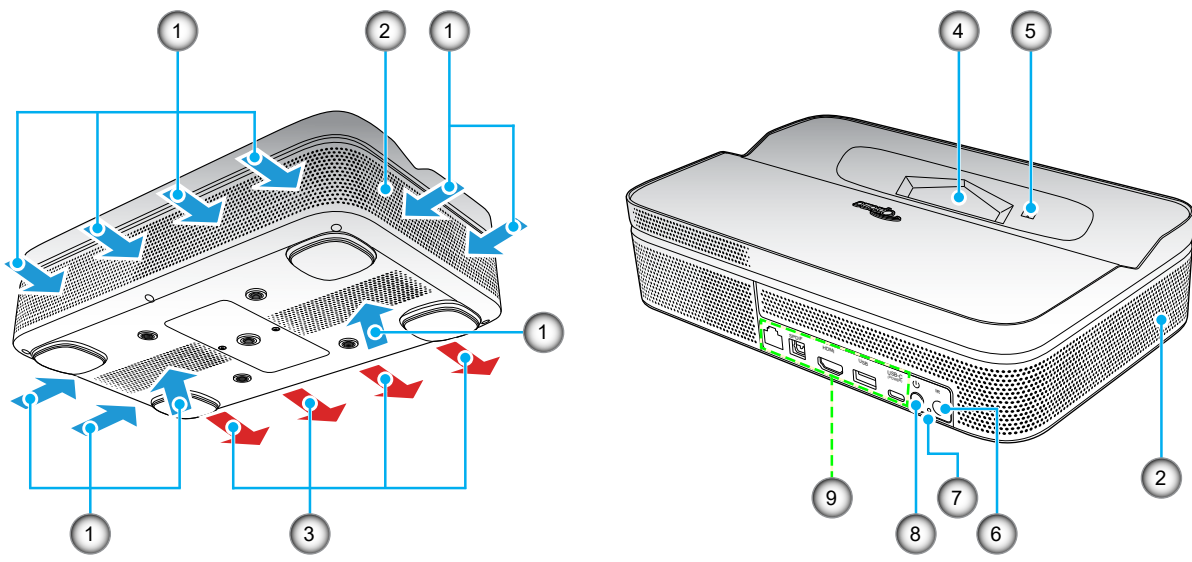
#### Note:

- For access to the setup information, user manual, warranty information, and product updates – please scan the QR Code or visit the following URL:  
<https://www.optoma.com/support/download>
- Power cable and optional accessories may vary by country.



# INTRODUCTION

## Product Overview



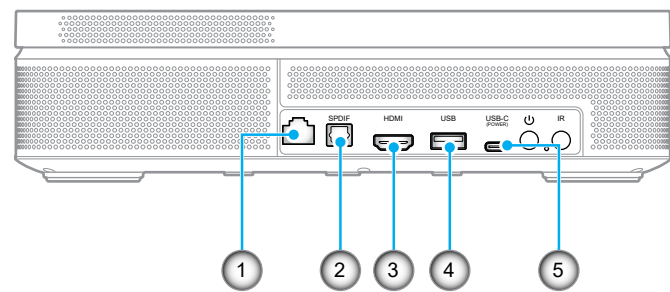
**Note:**

- Do not block projector intake and exhaust vents.
- When operating the projector in an enclosed space, allow at least 15 cm clearance around the intake and exhaust vents.

| No | Item                 | No | Item           |
|----|----------------------|----|----------------|
| 1. | Ventilation (inlet)  | 6. | IR Receiver    |
| 2. | Speakers             | 7. | Power LED      |
| 3. | Ventilation (outlet) | 8. | Power Button   |
| 4. | Lens                 | 9. | Input / Output |
| 5. | TOF Module           |    |                |

# INTRODUCTION

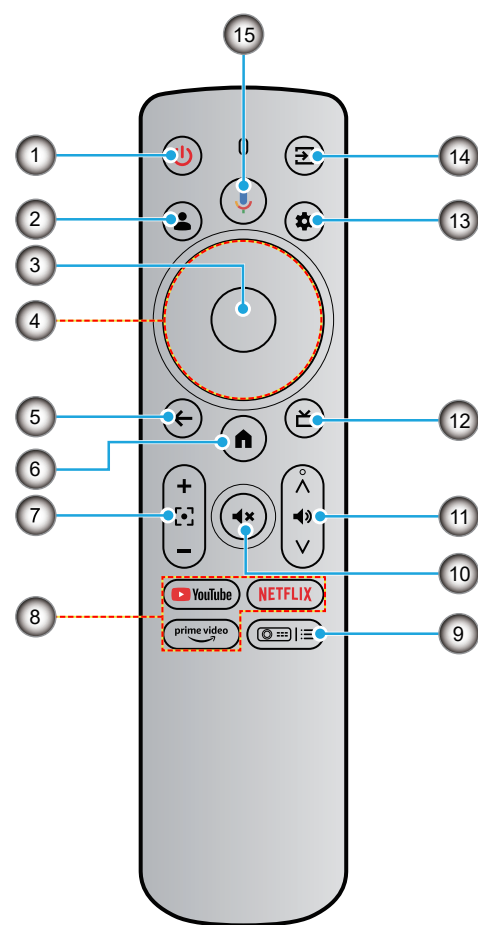
## Connections



| No | Item               | No | Item                                                                    |
|----|--------------------|----|-------------------------------------------------------------------------|
| 1. | RJ-45 Connector    | 4. | USB Type-A Power Out (5V/1A)<br>(For multi-media pen drive, FW upgrade) |
| 2. | SPDIF Connector    | 5. | USB Type-C Connector (For Power input)                                  |
| 3. | HDMI 2.0 Connector |    |                                                                         |

# INTRODUCTION

## Remote Control



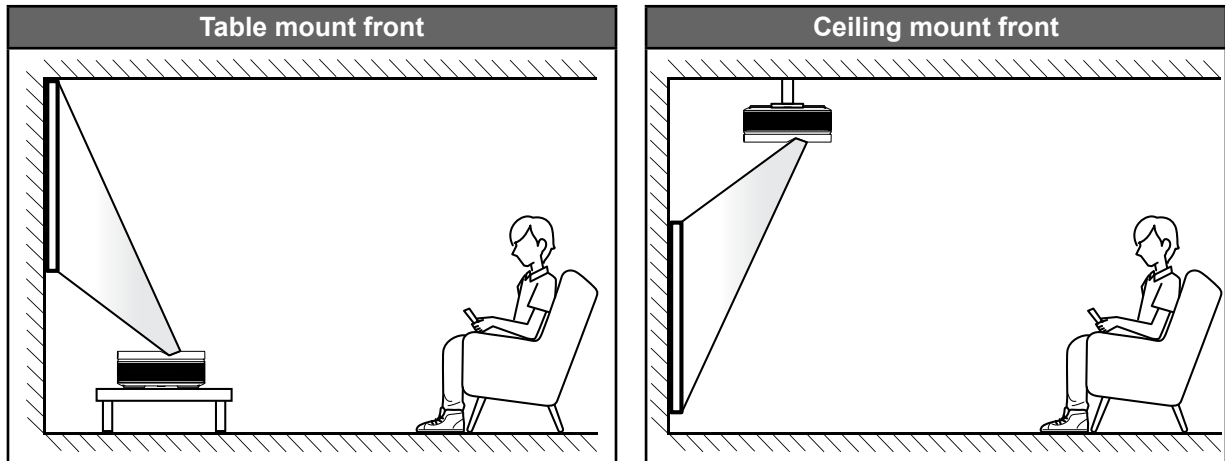
| No | Item                         | No  | Item                          |
|----|------------------------------|-----|-------------------------------|
| 1. | Power                        | 9.  | Projector Settings (Shortcut) |
| 2. | User Profile                 | 10. | Mute                          |
| 3. | OK                           | 11. | Volume                        |
| 4. | Four Directional Select Keys | 12. | Live TV*                      |
| 5. | Back                         | 13. | Settings (Dash board)         |
| 6. | Home                         | 14. | Input Source                  |
| 7. | Focus                        | 15. | Google Assistant              |
| 8. | Streaming Apps               |     |                               |

**Note:** The remote control supports both infrared (IR) and Bluetooth transmissions.  
\*US Only. For regions where Live TV is unavailable, this key may direct to other input sources."

# SETUP AND INSTALLATION

## Installing the Projector

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.

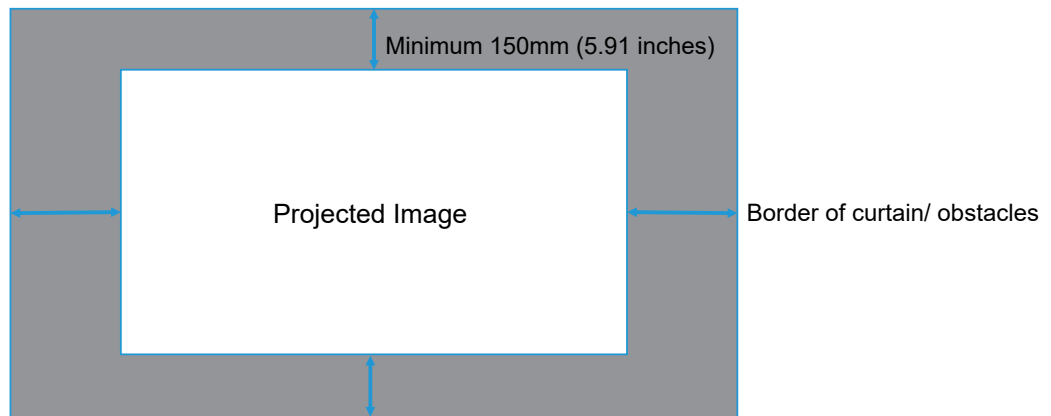
- To determine projector location for a given screen size, please refer to distance table on page 54.
- To determine screen size for a given distance, please refer to distance table on page 54.

**Note:** *Placing the projector further from the screen or projection surface will proportionally increase the image size and offset.*

# SETUP AND INSTALLATION

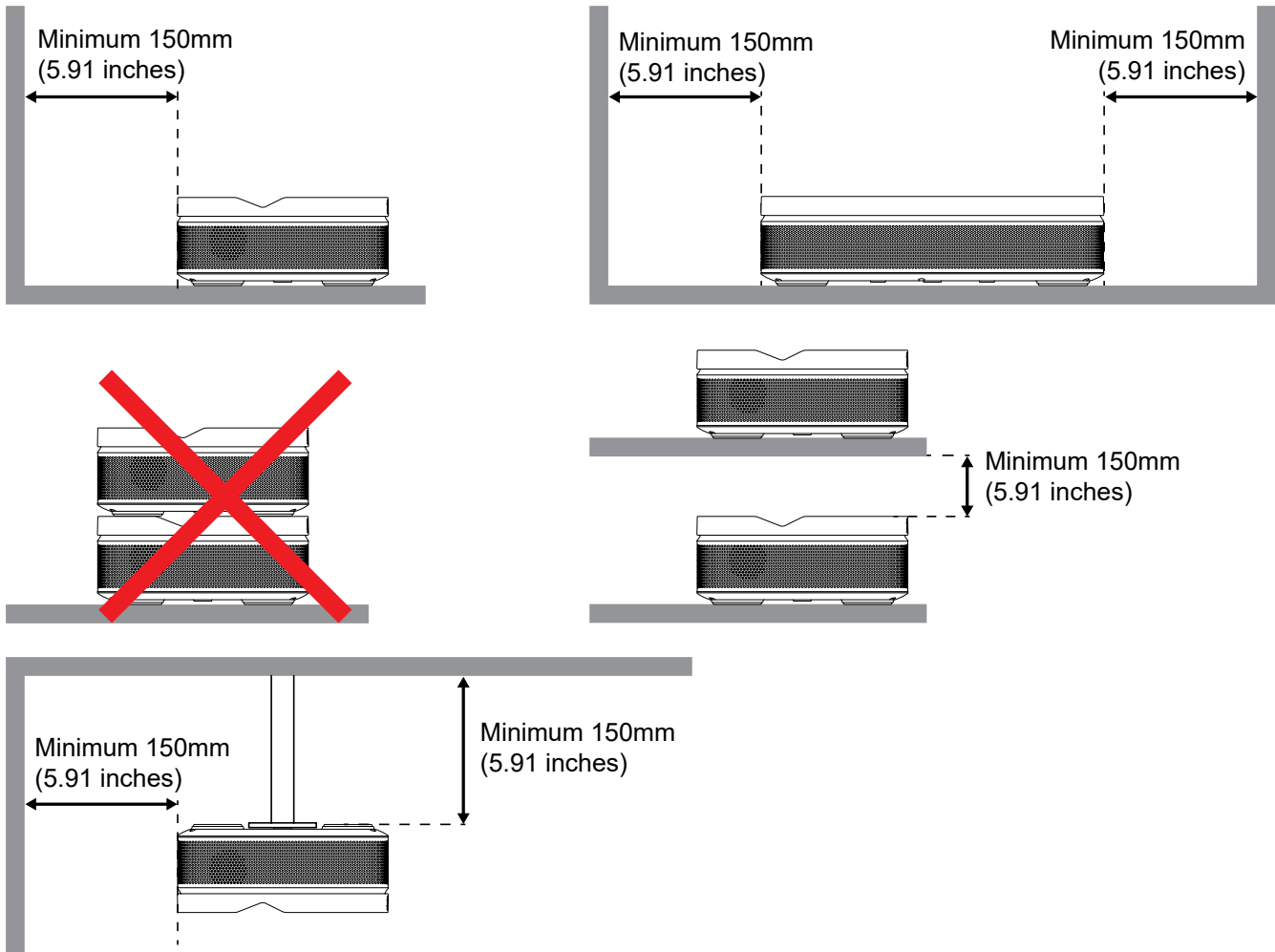
**Note:**

- *Ensure that the projector is positioned at the following specifications:*
  - a. The projected surface is flat and perpendicular to the ground.*
  - b. Ensure that the keystone correction angle is within the specific range:  $\pm 10^\circ$  horizontal,  $\pm 5^\circ$  vertical, and  $\pm 10^\circ$  roll.*
  - c. The further away the projector is placed from the screen the projected image size increases and vertical offset also increases proportionally.*
  - d. Keep at least 15 cm clearance of the projected image from the border of the curtain or obstacles.*



# SETUP AND INSTALLATION

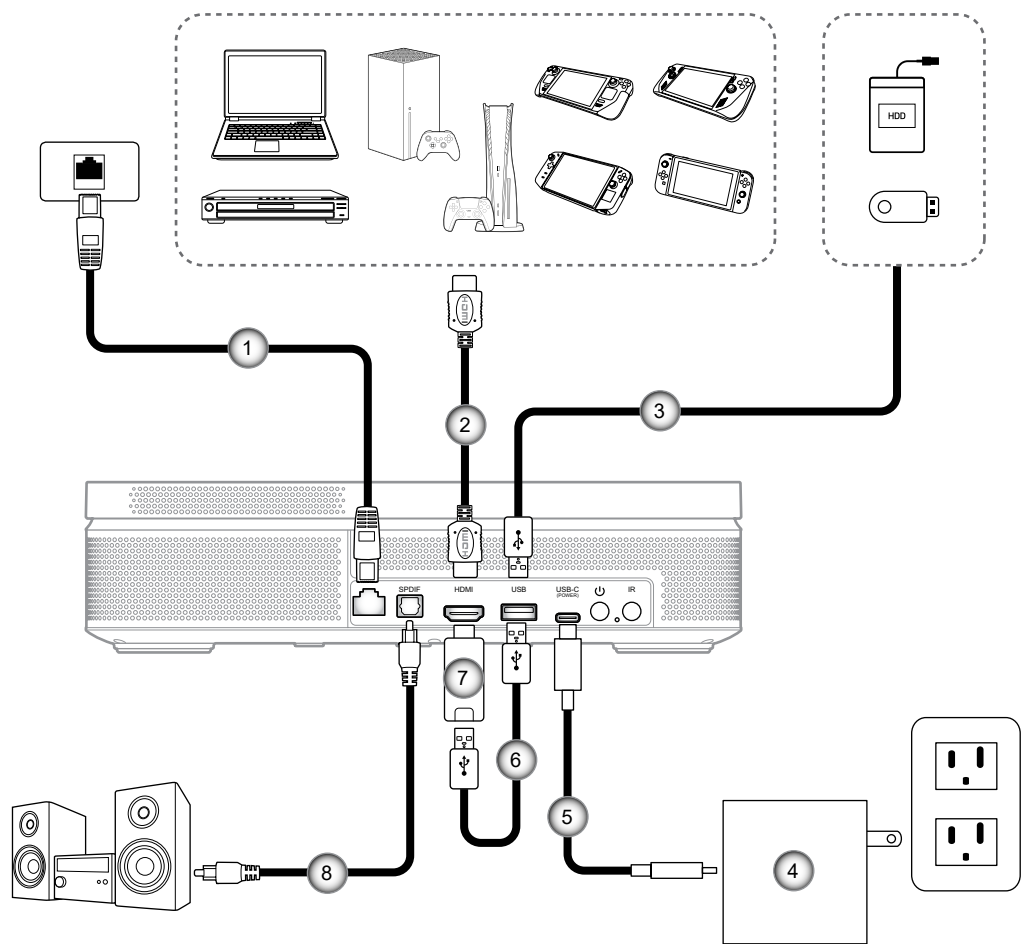
- Allow at least 15 cm clearance around the exhaust vent.



- 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 within the acceptable operation temperature range.

# SETUP AND INSTALLATION

## Connecting Sources to the Projector



| No | Item          | No | Item             |
|----|---------------|----|------------------|
| 1. | RJ-45 Cable   | 5. | USB Type-C Cable |
| 2. | HDMI Cable    | 6. | USB Power Cable  |
| 3. | USB Cable     | 7. | HDMI Dongle      |
| 4. | Power Adapter | 8. | S/PDIF Out Cable |

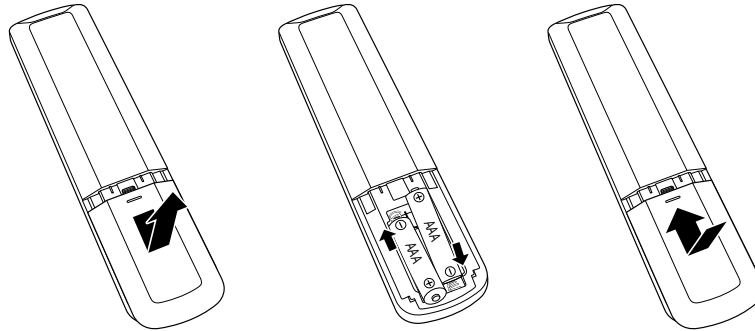
**Note:** To ensure the best image quality and avoid connection errors, we recommend the use of “Ultra High Speed HDMI Cable” with HDMI 2.0 certification up to 5 meters.

# SETUP AND INSTALLATION

## 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:** To ensure safe operation, please observe the following precautions:

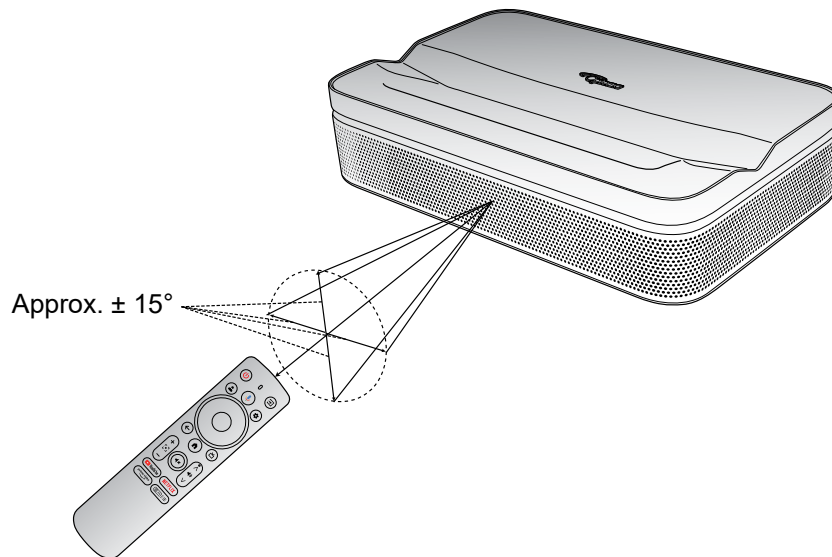
- Replacement of a battery with an incorrect type that can defeat a safeguard (AAA size battery type).
- Disposal of a battery into a fire, hot oven, mechanically crushing or cutting of a battery, may result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause a chemical leak in the old batteries.
- Remove batteries as soon as they are depleted. Chemicals that leak from a battery which comes into contact with your 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 are not using the remote control for an extended period of time, please remove the batteries to reduce risk of chemical leak.

# SETUP AND INSTALLATION

## Effective range

Infra-Red (IR) remote control sensor is located on the front and rear sides of the projector. Ensure that the remote control is held at an angle 15 degrees perpendicular to the projector's IR remote control sensor to ensure correct functionality. The distance between the remote control and the sensor should not be longer than 6 meters (19.7 feet).

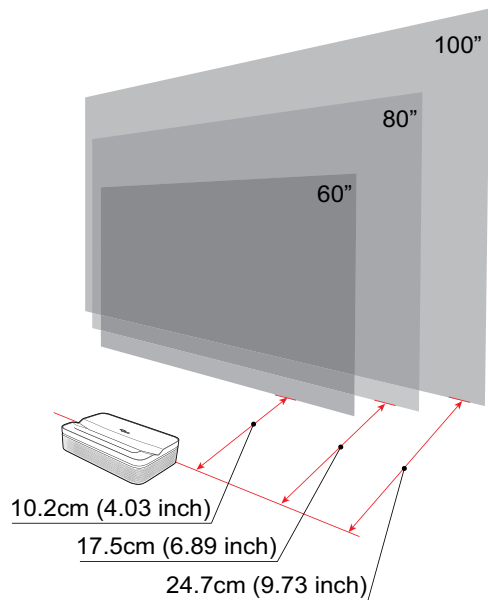
- Make sure that there are no obstacles between the remote control and the IR sensor on the projector that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being directly shined on by sunlight or fluorescent lamps.
- Please keep the remote controller at least 2m away from fluorescent lamps or it may 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 of one another, the remote control might become ineffective.



# USING THE PROJECTOR

## Placement

Place the projector on a stable, flat surface in front of the projection surface. It is recommended to use a flat and white projection surface. Refer to the table below to determine the distance between the projector and the projection surface, and the corresponding projection size:



| Size                       | 60 inches                       | 80 inches                       | 100 inches                      |
|----------------------------|---------------------------------|---------------------------------|---------------------------------|
| Screen<br>(Length x Width) | 133 x 75 cm<br>(4.36 x 2.46 ft) | 177 x 100 cm<br>(5.8 x 3.28 ft) | 21 x 124 cm<br>(7.25 x 4.06 ft) |

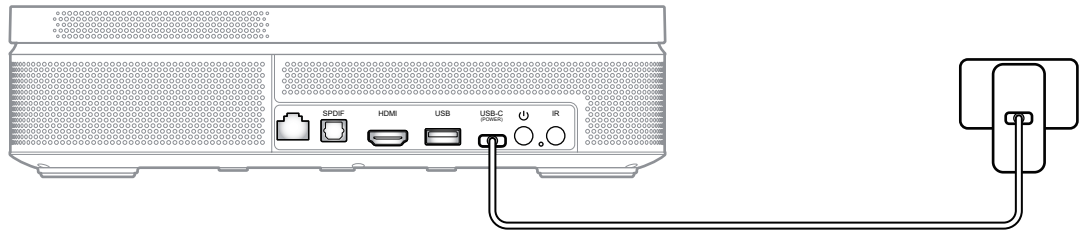
**Note:** The best recommended projection size is 80 inches.

# USING THE PROJECTOR

## Charge Your Projector

This projector comes with an integrated battery. Before using the projector for the first time, make sure to fully charge the battery to 100%.

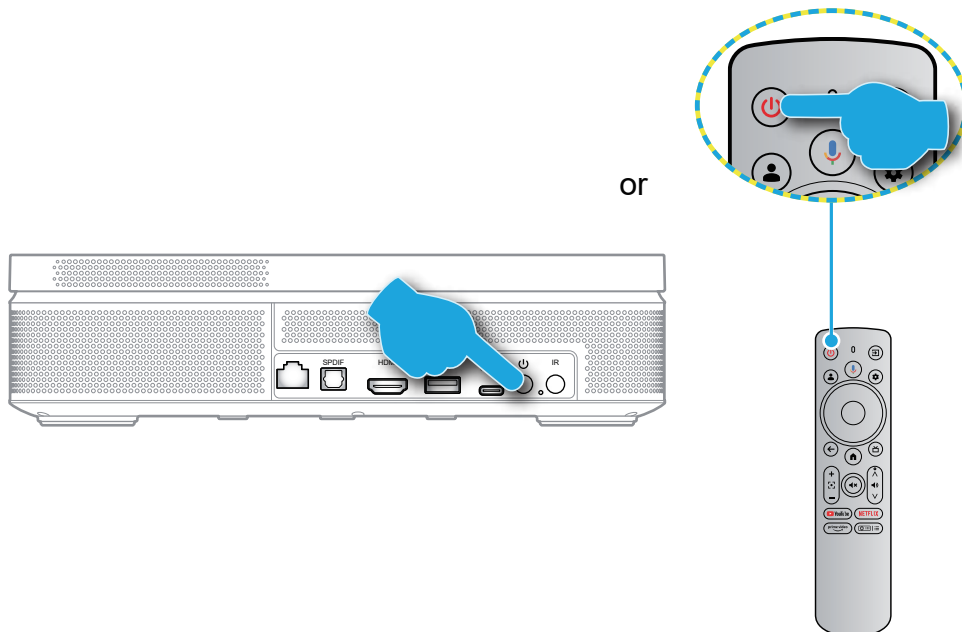
1. Connect one end of the USB Type-C cable to the power adapter. Then connect the other end of the cable to the USB Type-C connector of the projector.
2. Plug the power adapter to the power outlet. The Power LED will light up (red), indicating the battery is being charged.



When the Power LED turns green, this indicates the battery is fully charged.

## Power On

Press the  button on the projector or the  button on the remote control to turn on the projector.



A start up screen will display in approximately 10 seconds.

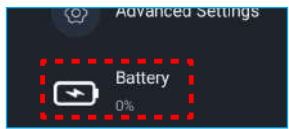
### Note:

- The first time the projector is turned on, you will be prompted to select the preferred language, pair the remote control via Bluetooth, and other settings.
- Although your remote has some functionality via IR, Bluetooth pairing is required for full functionality.



# USING THE PROJECTOR

- To view the current battery status, simply press the  on the remote control and check on the **[Battery]** option.



| Battery Icon                                                                      | Battery Status         |
|-----------------------------------------------------------------------------------|------------------------|
|  | Battery Level (0%-19%) |
|  | Battery Level (20-39%) |
|  | Battery Level (40-59%) |
|  | Battery Level (60-79%) |
|  | Battery Level (80-99%) |
|  | Battery Level (100%)   |
|  | Charging (0%-100%)     |
|  | Fully Charged (100%)   |

# USING THE PROJECTOR

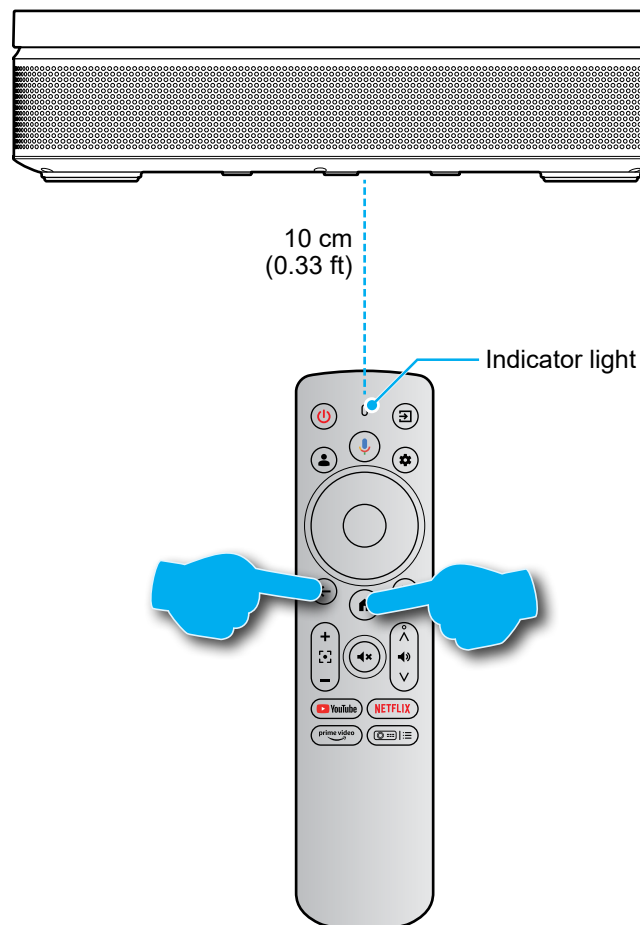
## Standby Mode / Power Off

- Press the  button on the projector or the  button on the remote control to enter Standby mode.
- Press and hold the  button on the projector or the  button on the remote control for 3 seconds to turn off the projector.

## Remote Control Bluetooth Pairing

When using the projector for the first time, follow the on-screen instructions to pair the remote control via Bluetooth with your projector.

1. Wait for the Bluetooth pairing prompt on the screen. Then bring the remote control within 10 cm (0.33 ft) from the projector.
2. Press and hold the  and  buttons on the remote control simultaneously until the indicator light starts flashing. Then release both buttons.



3. When you see pairing successful message on screen, this indicates the remote control is successfully paired.

### Note:

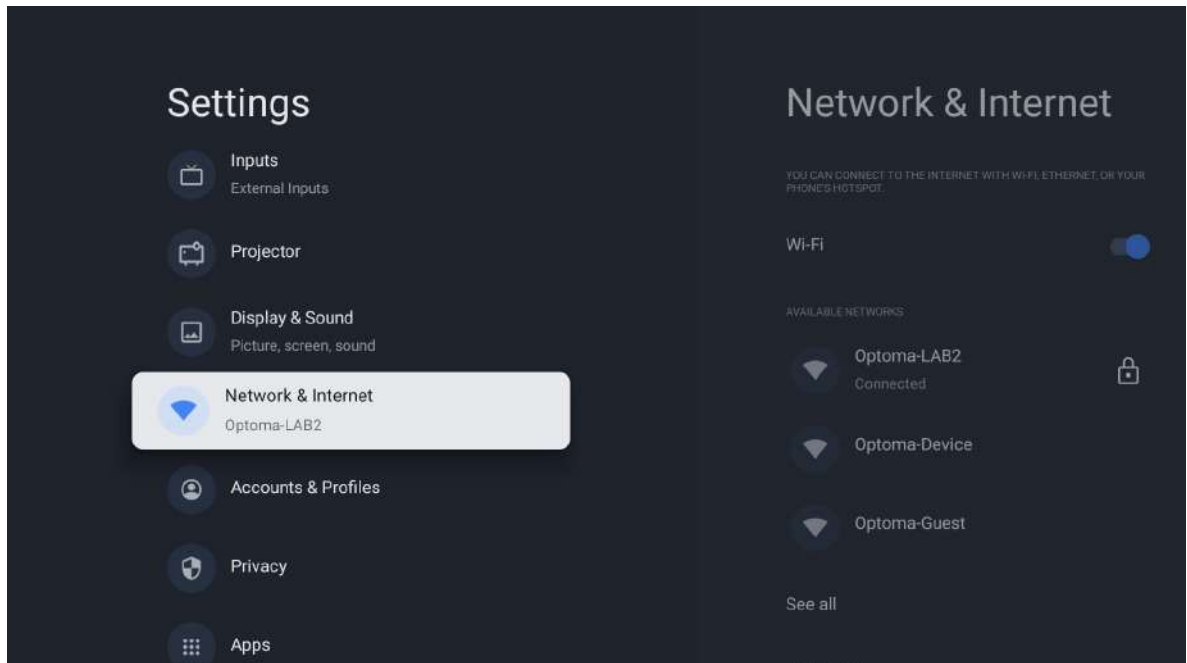
- If the pairing is unsuccessful, repeat the above steps until the remote control indicator light stops flashing.
- Voice search functionality on the remote control is only available after the remote control has been paired to the projector by Bluetooth.

# USING THE PROJECTOR

## Network Settings

1. Press the  button on the remote control. Then select **[All settings ** > **[Network & Internet]**.
2. Turn on the Wi-Fi function.
3. Choose your network to connect. Then enter the correct password.

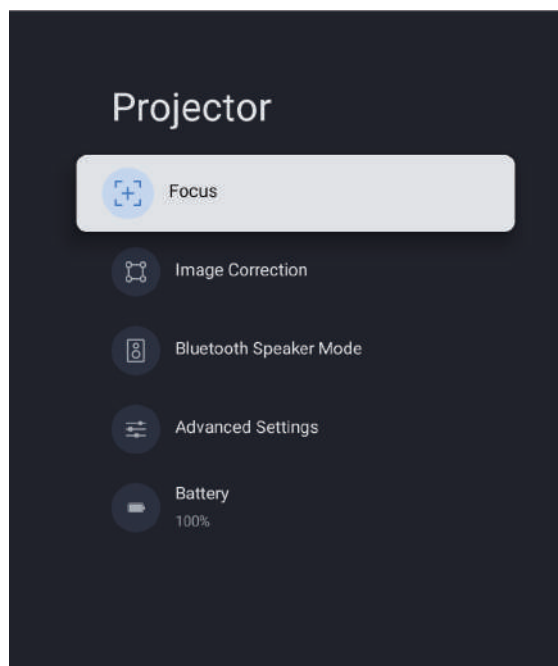
**Note:** *It is highly recommended to connect to 5GHz Wi-Fi network whenever possible.*



# USING THE PROJECTOR

## Focus Settings

Press the  button on the remote control. Then select [**Focus**] and choose the focus adjustment type.

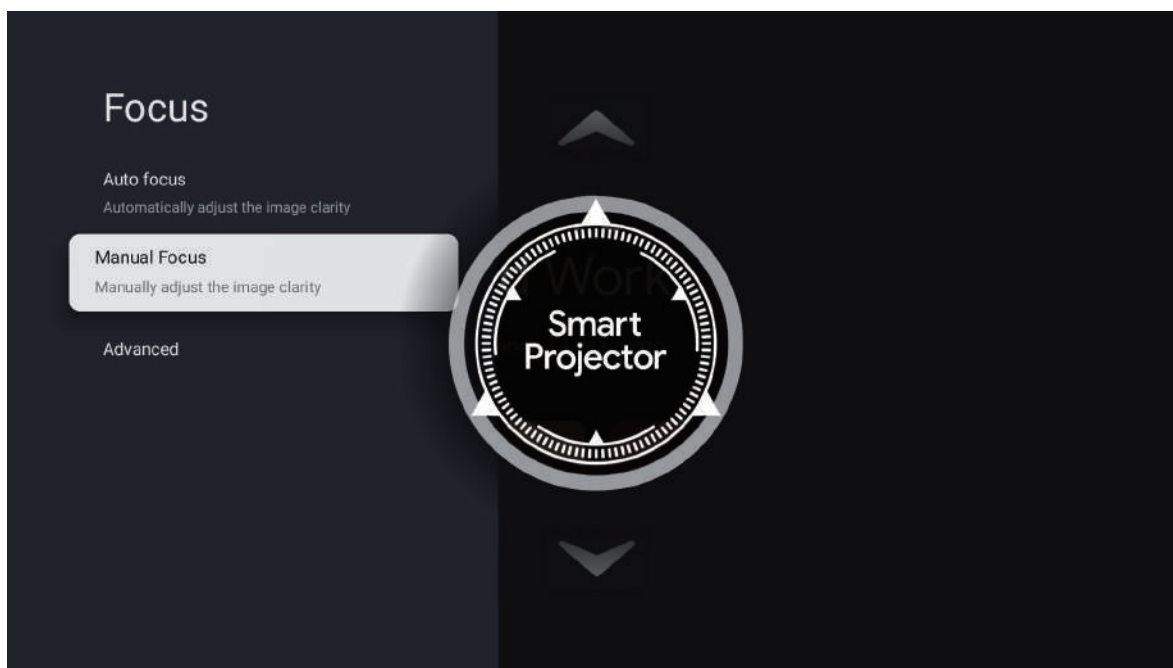


### Auto focus

Select [**Auto focus**] to trigger the autofocus function. The projector will adjust focus automatically.

### Manual focus

Select [**Manual Focus**] and use the ▲/▼ button on the remote control to adjust the focus until the image is clear and sharp.



# USING THE PROJECTOR

## Image Correction Settings

### Keystone Correction

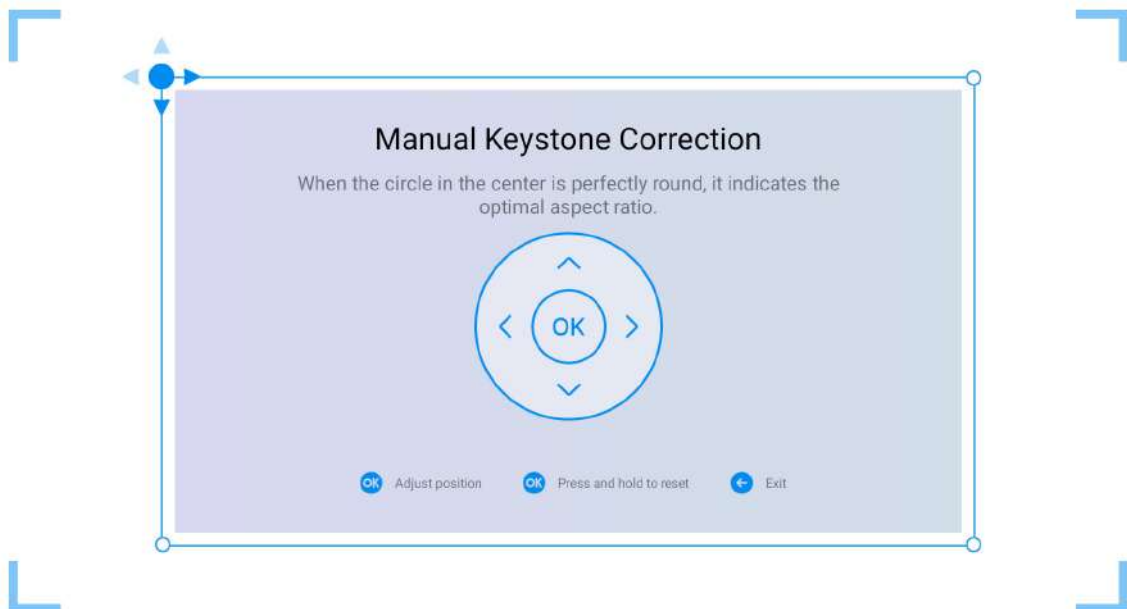
Press the  button on the remote control. Then select **[Image Correction]** and choose the keystone correction type.

### Auto Keystone Correction

Select **[Auto Keystone Correction]** to trigger the auto keystone function. The screen will automatically be corrected.

### Manual Keystone Correction

Select **[Manual Keystone Correction]** and use the  button to adjust the four points and the image shape.

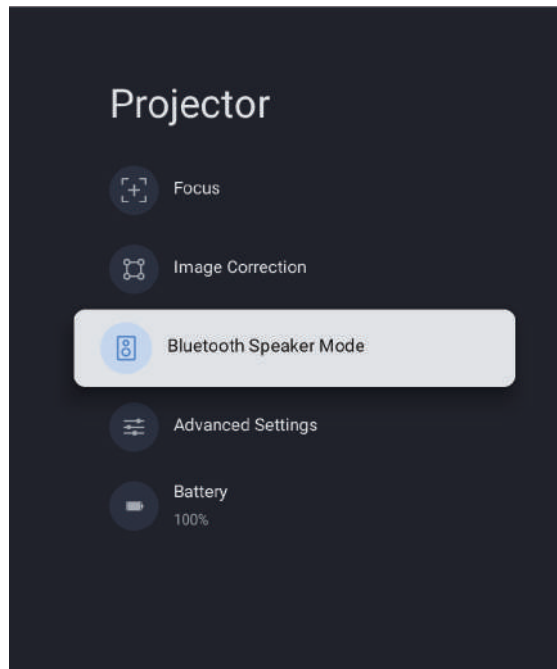


Auto Keystone Correction is an assist feature designed improve image alignment when projecting on various projection surfaces. Optimal performance when using this feature depends on a few factors such as projection angle, projector placement, and projection surface conditions.

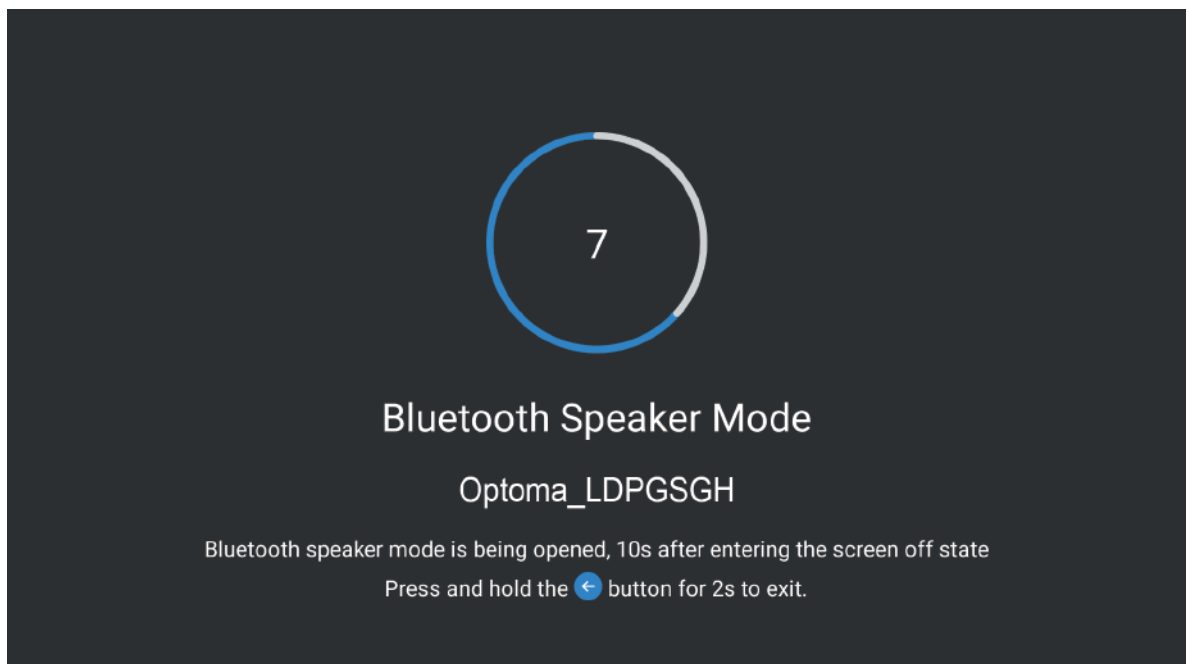
# USING THE PROJECTOR

## Bluetooth Speaker Mode

1. Press the  button on the remote control. Then select **[Bluetooth Speaker Mode]**.

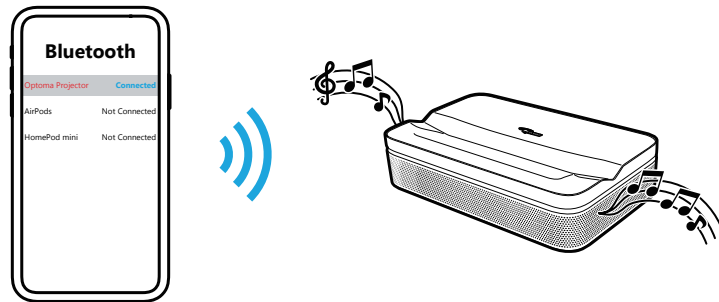


2. Pair your mobile device with the projector using the Bluetooth function.

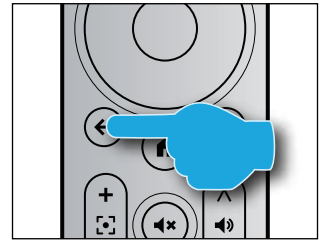


# USING THE PROJECTOR

3. When you hear “Bluetooth connection successful”, the projector can play music from your mobile phone.



**Note:** Press and hold the  key on the remote control for 2 seconds to disconnect the Bluetooth connection.



## Google Assistant

With Google Assistant feature, you can use your voice command to find movies, streaming apps, play music, and control the projector. Ask Google Assistant to find a specific title, search by genre, or get personalized recommendations. Even get answers on screen, control smart home devices, and more.

Press the  button on the remote control to get started.



# USING THE PROJECTOR

## Screen Mirroring with Google Cast™

### Screen mirroring with Google Cast

With Google Cast, you can stream entertainment from your favorite apps on your phone, tablet, or laptop to your projector.

1. Connect your device and the projector to the same wireless network.
2. Open a Google Cast-enabled app on your device.
3. Select the content you would like to cast, then tap the Cast icon (  ).
4. Select [**Optoma\_LDPGSGH**] to connect. The projector will display the video from your device.

**Note:** Due to copyright restrictions, certain content cannot be cast to the projector. You can stream the content on the projector by installing same applications from Apps tab.

# USING THE PROJECTOR

## Home Screen Overview

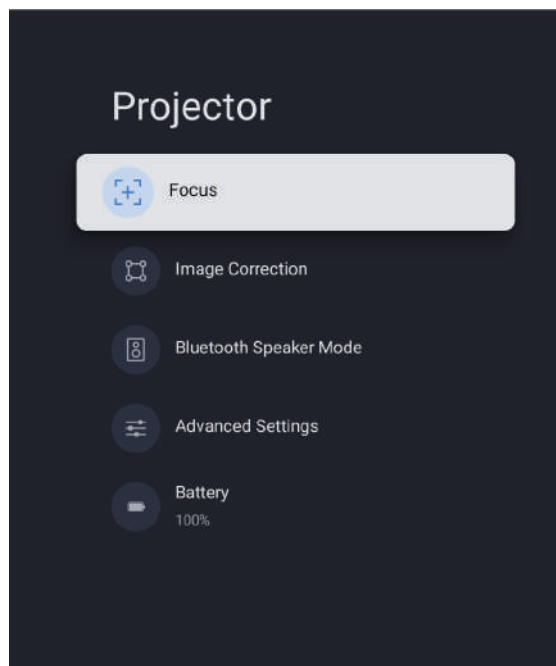
To navigate the home screen, simply use the buttons on the remote control.

You can return to the home screen at any time by pressing the  button on the remote control, regardless of your position in the user interface.



## Shortcut Settings

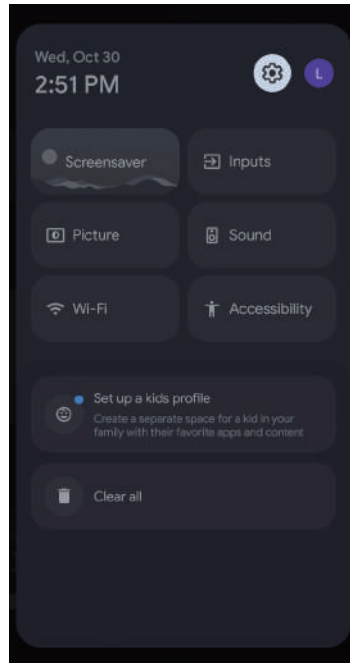
To access the shortcut Settings, press the  on the remote control.



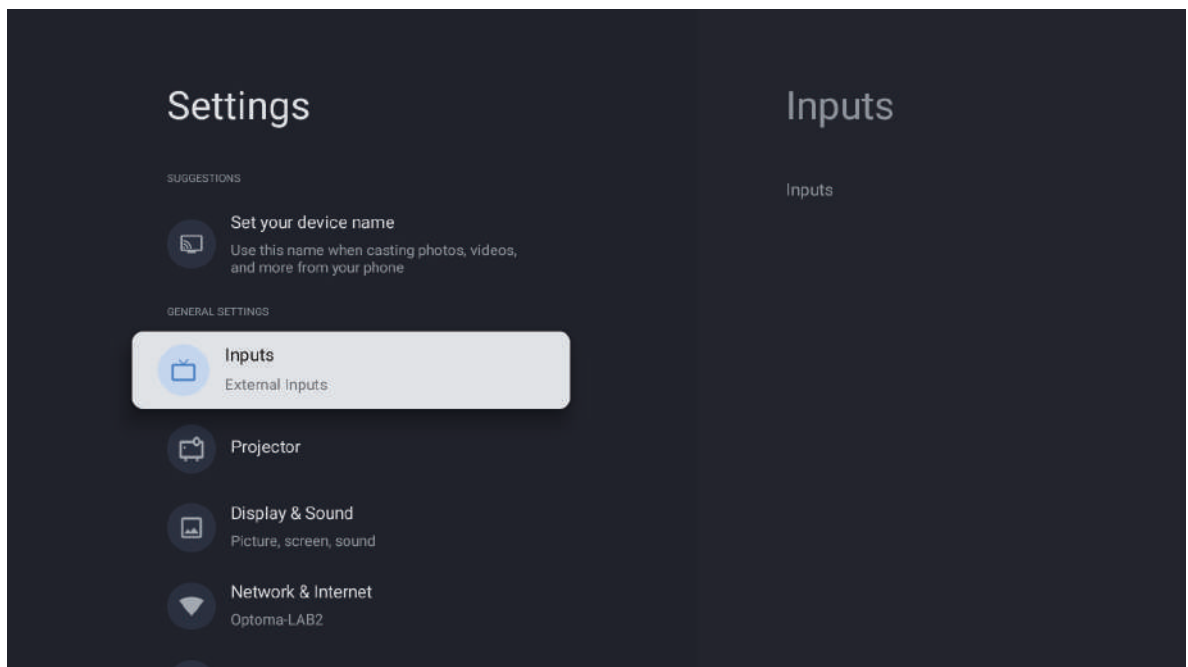
# USING THE PROJECTOR

## Settings Menu

1. Press the  button on the remote control. The dash board appears on the screen.



2. Select  and press the **OK** button to enter the **All settings** menu.



**Note:** You can also access this menu by pressing the  on the remote control. Then select **[All Settings]**.

3. Press the  button to select menu options. Then press the **OK** button to enter the option list or the corresponding submenu.
4. Press the  button to return to the previous menu.

**Note:** Press the  button to close the Settings menu and return to the home screen.

# USING THE PROJECTOR

## OSD Menu tree

**Note:** The OSD menu tree items and features are subject to models and region. Optoma reserve the right to add or remove items to improve product performance without notice.

| Main Menu       | Sub Menu               | Sub Menu 2                 | Sub Menu 3                              | Sub Menu 4 |
|-----------------|------------------------|----------------------------|-----------------------------------------|------------|
| Inputs          | Inputs                 | HDMI                       | Show this input                         |            |
|                 |                        |                            | HDMI1                                   |            |
|                 |                        |                            | Blu-ray                                 |            |
|                 |                        |                            | Cable                                   |            |
|                 |                        |                            | DVD                                     |            |
|                 |                        |                            | Game console                            |            |
|                 |                        |                            | Aux                                     |            |
|                 |                        |                            | Custom name                             |            |
|                 |                        | HDMI control               | on /off                                 |            |
|                 |                        | Device auto power off      | on/off                                  |            |
|                 |                        | TV auto power on           | on/off                                  |            |
|                 |                        | HDMI EDID Version          | EDID 1.4/ EDID 2.0/ Auto EDID           |            |
|                 |                        | CEC Device List            |                                         |            |
| Projector       | Focus                  | Auto focus                 |                                         |            |
|                 |                        | Manual Focus               |                                         |            |
|                 |                        | Advanced                   | Auto Focus at Startup                   | on/off     |
|                 |                        |                            | Auto Focus When Moving                  | on/off     |
|                 | Image Correction       | Auto Keystone Correction   |                                         |            |
|                 |                        | Manual Keystone Correction |                                         |            |
|                 |                        | Zoom & Shift               | Zoom                                    |            |
|                 |                        |                            | Image Reposition                        |            |
|                 |                        | Reset to Default Image     |                                         |            |
|                 |                        | Advanced                   | Auto Keystone Correction At Startup     | on/off     |
|                 |                        |                            | Auto Keystone Correction After Movement | on/off     |
|                 | Bluetooth Speaker Mode |                            |                                         |            |
|                 | Advanced Settings      | Projection Mode            | Front                                   |            |
|                 |                        |                            | Front Ceiling                           |            |
|                 |                        |                            | Rear                                    |            |
|                 |                        |                            | Rear Ceiling                            |            |
|                 |                        | Remote Control             | Remote Control Battery Level            |            |
|                 |                        |                            | Remote Control Version                  |            |
|                 | Battery                |                            |                                         |            |
| Display & Sound | Picture                | Brightness                 | Auto                                    |            |
|                 |                        |                            | Bright                                  |            |
|                 |                        |                            | Standard                                |            |
|                 |                        |                            | Eco                                     |            |
|                 |                        | Standard                   |                                         |            |
|                 |                        | Vivid                      |                                         |            |
|                 |                        | Movie                      |                                         |            |
|                 |                        | Natural                    |                                         |            |

# USING THE PROJECTOR

| Main Menu          | Sub Menu                  | Sub Menu 2           | Sub Menu 3                                  | Sub Menu 4 |
|--------------------|---------------------------|----------------------|---------------------------------------------|------------|
| Display & Sound    | Picture                   | Custom               | Contrast                                    | 0-100      |
|                    |                           |                      | Saturation                                  | 0-100      |
|                    |                           |                      | Sharpness                                   | 0-20       |
|                    |                           |                      | Color Gain                                  | Red Gain   |
|                    |                           |                      |                                             | Green Gain |
|                    |                           |                      |                                             | Blue Gain  |
|                    |                           |                      | Gamma                                       | Normal     |
|                    |                           |                      |                                             | Dark       |
|                    |                           |                      |                                             | Bright     |
|                    |                           | Game Mode            | on/off                                      |            |
|                    |                           | Reset to Default     |                                             |            |
|                    | Screen                    | Full                 |                                             |            |
|                    |                           | Unscaled             |                                             |            |
|                    |                           | 4:3                  |                                             |            |
|                    |                           | Movie expand 14:9    |                                             |            |
|                    |                           | Movie expand 16:9    |                                             |            |
|                    | Sound                     | Standard             |                                             |            |
|                    |                           | Movie                |                                             |            |
|                    |                           | Music                |                                             |            |
|                    |                           | Sport                |                                             |            |
|                    |                           | Custom               | Balance                                     |            |
|                    |                           |                      | Bass                                        |            |
|                    |                           |                      | Treble                                      |            |
|                    |                           | Surround             | On/Off                                      |            |
|                    |                           | System Sound         | On/Off                                      |            |
|                    |                           | Expert Settings      | Auto Volume Control                         |            |
|                    | Audio Output              | Digital Output       | Auto                                        |            |
|                    |                           |                      | Bypass                                      |            |
|                    |                           |                      | PCM                                         |            |
|                    |                           |                      | Dolby Digital Plus                          |            |
|                    |                           |                      | Dolby Digital                               |            |
|                    |                           | Digital Output Delay | 0-250                                       |            |
| Network & Internet | Wi-Fi                     | on/off               |                                             |            |
|                    | See all                   |                      |                                             |            |
|                    | Add new network           |                      |                                             |            |
|                    | Data Saver                | on/off               |                                             |            |
|                    | Data usage and alerts     | Data usage           |                                             |            |
|                    |                           | Date alerts          | Every 100MB / Every 500MB / Every 1GB / off |            |
|                    | Scanning always available | on/off               |                                             |            |
|                    | ETHERNET                  |                      | Not Connected/ Connected                    |            |
|                    | Proxy Settings            | None                 |                                             |            |
|                    |                           | Manual               |                                             |            |

# USING THE PROJECTOR

| Main Menu           | Sub Menu                | Sub Menu 2                | Sub Menu 3                                 | Sub Menu 4 |
|---------------------|-------------------------|---------------------------|--------------------------------------------|------------|
| Network & Internet  | IP settings             | DHCP                      |                                            |            |
|                     |                         | Static                    |                                            |            |
|                     | Wake configs            | WoW                       | on/off                                     |            |
|                     |                         | WoL                       | on/off                                     |            |
|                     |                         | WoC                       | on/off                                     |            |
| Accounts & Profiles |                         |                           |                                            |            |
| Privacy             | Location                | Location status           | Use Wi-Fi to estimate location / Off       |            |
|                     |                         |                           | Off                                        |            |
|                     |                         | Scanning always available | on/off                                     |            |
|                     | Usage & diagnostics     | On/Off                    |                                            |            |
|                     | Ads                     |                           |                                            |            |
|                     | Google Assistant        | Voice Control             | on/off                                     |            |
|                     |                         | View permissions          |                                            |            |
|                     |                         | Personal results          | on/off                                     |            |
|                     |                         | Searchable apps           |                                            |            |
|                     |                         | SafeSearch filter         | on/off                                     |            |
|                     | Payment & Purchases     | Purchase authentication   | Yes, with PIN / Yes, with password / Never |            |
|                     | App permissions         | Contacts                  |                                            |            |
|                     |                         | Phone                     |                                            |            |
|                     |                         | Camera                    |                                            |            |
|                     |                         | Files and media           |                                            |            |
|                     |                         | Other permissions         |                                            |            |
|                     | Special app access      | Energy optimization       |                                            |            |
|                     |                         | Usage access              |                                            |            |
|                     |                         | Notification access       |                                            |            |
|                     |                         | All files access          |                                            |            |
|                     |                         | Display over other apps   |                                            |            |
|                     |                         | Modify system settings    |                                            |            |
|                     |                         | Turn screen on            |                                            |            |
|                     | Security & Restrictions | Unknown sources           |                                            |            |
| Apps                | See all apps            |                           |                                            |            |
|                     | App permissions         | Contacts                  |                                            |            |
|                     |                         | Phone                     |                                            |            |
|                     |                         | Camera                    |                                            |            |
|                     |                         | Files and media           |                                            |            |
|                     |                         | Other permissions         |                                            |            |
|                     | Special app access      | Energy optimization       |                                            |            |
|                     |                         | Usage access              |                                            |            |
|                     |                         | Notification access       |                                            |            |
|                     |                         | All files access          |                                            |            |
|                     |                         | Display over other apps   |                                            |            |
|                     |                         | Modify system settings    |                                            |            |
|                     |                         | Turn screen on            |                                            |            |
|                     | Security & Restrictions | Unknown sources           |                                            |            |

# USING THE PROJECTOR

| Main Menu | Sub Menu     | Sub Menu 2                         | Sub Menu 3                          | Sub Menu 4 |
|-----------|--------------|------------------------------------|-------------------------------------|------------|
| System    | About        | System Update                      |                                     |            |
|           |              | Device name                        |                                     |            |
|           |              | Reset                              | Factory reset                       |            |
|           |              | Status                             | IP address                          |            |
|           |              |                                    | Device MAC address                  |            |
|           |              |                                    | Bluetooth address                   |            |
|           |              |                                    | Serial number                       |            |
|           |              |                                    | Up time                             |            |
|           |              | Legal Information                  | Open source licenses                |            |
|           |              |                                    | Google legal                        |            |
|           |              |                                    | System WebView licenses             |            |
|           |              |                                    | Consumer Information                |            |
|           |              | Model                              |                                     |            |
|           |              | Android TV™ OS version             |                                     |            |
|           |              | Android TV OS security patch level |                                     |            |
|           |              | Kernel version                     |                                     |            |
|           |              | Android TV OS build                |                                     |            |
|           |              | Netflix ESN                        |                                     |            |
|           |              | Software Version                   |                                     |            |
|           | Date & Time  | Automatic date & time              | Use network provided time           |            |
|           |              |                                    | Off                                 |            |
|           |              | Set date                           |                                     |            |
|           |              | Set time                           |                                     |            |
|           |              | Set time zone                      |                                     |            |
|           | Language     | list                               | Use 24-hour format                  | on/off     |
|           |              |                                    |                                     |            |
|           | Keyboard     | Current keyboard                   |                                     |            |
|           |              | Gboard Settings                    | Current version                     |            |
|           |              |                                    | Languages                           |            |
|           |              |                                    | Terms of service                    |            |
|           |              |                                    | Privacy policy                      |            |
|           |              |                                    | Open source licenses                |            |
|           |              |                                    | Share usage statistics              | on/off     |
|           |              | Manage keyboards                   |                                     |            |
|           | Storage      | Internal shared storage            |                                     |            |
|           |              | Free up storage                    |                                     |            |
|           | Ambient mode | Start now                          |                                     |            |
|           |              | Google Photos                      |                                     |            |
|           |              | Art gallery                        |                                     |            |
|           |              | Experimental                       |                                     |            |
|           |              | Weather                            | Hide / °C / °F / Both               |            |
|           |              | Time                               | Hide / Show                         |            |
|           |              | Personal photo data                | Hide / Show                         |            |
|           |              | Portrait Google Photos             | Hide / Show / Show pairs            |            |
|           |              | Personal photo curation            | All albums / Live albums only       |            |
|           |              | Sideshow speed                     | 5s / 10s / 30s / 1m / 3m / 5m / 10m |            |

# USING THE PROJECTOR

| Main Menu | Sub Menu       | Sub Menu 2                        | Sub Menu 3                                 | Sub Menu 4  |
|-----------|----------------|-----------------------------------|--------------------------------------------|-------------|
| System    | Power & Energy | Power on behavior                 | Google TV home screen                      |             |
|           |                |                                   | Last used input                            |             |
|           |                | Power & Energy                    | When inactive<br>Automatically turn off TV | 15 minutes  |
|           |                |                                   |                                            | 20 minutes  |
|           |                |                                   |                                            | 30 minutes  |
|           |                |                                   |                                            | 1 hour      |
|           |                |                                   |                                            | 4 hours     |
|           |                |                                   |                                            | 8 hours     |
|           |                |                                   |                                            | 12 hours    |
|           |                |                                   |                                            | 24 hours    |
|           |                |                                   |                                            | Never       |
|           |                | Power                             | Sleep Timer                                | Off         |
|           |                |                                   |                                            | 10 Minutes  |
|           |                |                                   |                                            | 20 Minutes  |
|           |                |                                   |                                            | 30 Minutes  |
|           |                |                                   |                                            | 40 Minutes  |
|           |                |                                   |                                            | 50 Minutes  |
|           |                |                                   |                                            | 60 Minutes  |
|           |                |                                   |                                            | 90 Minutes  |
|           |                |                                   |                                            | 120 Minutes |
|           |                |                                   | Picture off                                |             |
|           |                |                                   | Switch Off Timer                           | Off         |
|           |                |                                   |                                            | 30 Minutes  |
|           |                |                                   |                                            | 60 Minutes  |
|           |                |                                   |                                            | 90 Minutes  |
|           |                |                                   |                                            | 120 Minutes |
|           |                |                                   |                                            | 150 Minutes |
|           |                |                                   |                                            | 180 Minutes |
|           |                |                                   |                                            | 210 Minutes |
|           |                |                                   |                                            | 240 Minutes |
|           |                |                                   | Auto Sleep                                 | Never       |
|           |                |                                   |                                            | 4 hours     |
|           |                |                                   |                                            | 6 hours     |
|           |                |                                   |                                            | 8 hours     |
|           |                | Timer                             | Power On Timer Type                        | Off         |
|           |                |                                   |                                            | On          |
|           |                |                                   |                                            | Once        |
|           |                |                                   | Auto Power On Time                         |             |
|           |                |                                   | Power Off Timer Type                       | Off         |
|           |                |                                   |                                            | On          |
|           |                |                                   |                                            | Once        |
|           |                |                                   | Auto Power Off Time                        |             |
|           | Cast           | Always / While Casting /<br>Never |                                            |             |
|           | System Sound   | on/off                            |                                            |             |

# USING THE PROJECTOR

| Main Menu            | Sub Menu               | Sub Menu 2                    | Sub Menu 3              | Sub Menu 4 |
|----------------------|------------------------|-------------------------------|-------------------------|------------|
| System               | Restart                | Restart                       |                         |            |
|                      |                        | Cancel                        |                         |            |
| Accessibility        | TalkBack               | Enable                        | on/off                  |            |
|                      |                        | Configuration                 |                         |            |
|                      | Text to speech         | Speech Services by Google     |                         |            |
|                      |                        | Engine configuration          |                         |            |
|                      |                        | Speech rate                   |                         |            |
|                      |                        | Listen to an example          |                         |            |
|                      |                        | Default language status       |                         |            |
|                      | Accessibility shortcut | Enable accessibility shortcut | on/off                  |            |
|                      |                        | Shotcut service               | TalkBack/ Switch Access |            |
|                      | Switch Access          | Enable                        | on/off                  |            |
|                      |                        | Configuration                 |                         |            |
|                      | Captions               | Display                       | on/off                  |            |
|                      |                        | Language                      |                         |            |
|                      |                        | Text size                     | Very small              |            |
|                      |                        |                               | Small                   |            |
|                      |                        |                               | Normal                  |            |
|                      |                        |                               | Large                   |            |
|                      |                        |                               | Very large              |            |
|                      |                        | CAPTION STYLE                 |                         |            |
|                      |                        | White on black                |                         |            |
|                      |                        | Black on white                |                         |            |
|                      |                        | Yellow on black               |                         |            |
|                      |                        | Yellow on blue                |                         |            |
|                      |                        | Custom                        | Font family             |            |
|                      |                        |                               | Text color              |            |
|                      |                        |                               | Text opacity            |            |
|                      |                        |                               | Edge type               |            |
|                      |                        |                               | Edge color              |            |
|                      |                        |                               | Show background         |            |
|                      |                        |                               | Background color        |            |
|                      |                        |                               | Background opacity      |            |
|                      |                        |                               | Show window             |            |
|                      |                        |                               | Window color            |            |
|                      |                        |                               | Window opacity          |            |
|                      | High contrast text     | on/off                        |                         |            |
| Remotes & Acessories | Pair accessory         | Searching for accessories     |                         |            |
| Help & Feedback      | Send feedback          |                               |                         |            |

# USING THE PROJECTOR

## Inputs menu

### Inputs

Configure the input source to related settings.

#### HDMI

Specify the HDMI device type connected to the HDMI port.

#### HDMI control

Enable this function to allow the projector to control the HDMI devices.

#### Device auto power off

Enable this function to power off the HDMI device when the projector turns off.

#### TV auto power on

Enable this function to power on the HDMI device when the projector turns on.

#### HDMI EDID Version

Select the HDMI EDID version.

#### CEC Device List

Display the CEC device list.

# USING THE PROJECTOR

## Projector menu

### Focus

Before making the adjustment, ensure that the projector is positioned at the following specifications:

- a. The projector is placed on a flat surface and parallel to the ground.
- b. The projected surface is flat and perpendicular to the ground.

#### Auto focus

Automatically adjust the image clarity. For more information, see page 26.

#### Manual Focus

Manually adjust the image clarity. For more information, see page 26.

#### Advanced

Configure the advanced focus adjustment settings.

- **Auto Focus at Startup:** Enable this function to automatically adjust the focus when the projector powers on.
- **Auto Focus When Moving:** Enable this function to automatically adjust the focus when you move the projector.

## Image Correction

### Auto Keystone Correction

Automatically perform the keystone correction. For more information, see page 27.

#### **Note:**

- *The image size will reduce slightly when adjusting the horizontal and vertical keystone.*
- *Ensure that the projected surface is flat.*

### Manual Keystone Correction

Manually adjust the image distortion caused by tilting the projector. For more information, see page 27.

### Zoom & Shift

Configure the zoom and image shift related settings.

- **Zoom:** Reduce or magnify an image on the projection screen.
- **Image Reposition:** Adjust the position of the projected image.

### Reset to Default Image

Return the factory default setting for image correction settings.

#### Advanced

Configure the advanced auto keystone correction settings.

- **Auto Keystone Correction At Startup:** Enable this function to automatically perform the keystone correction when the projector powers on.
- **Auto Keystone Correction After Movement:** Enable this function to automatically perform the keystone correction when you move the projector.

# USING THE PROJECTOR

## Bluetooth Speaker Mode

Configure the Bluetooth speaker mode by pairing your mobile device with the projector using the Bluetooth function. For more information, see page 28.

## Advanced Settings

Configure the projection mode and view the remote control information.

- **Projection Mode:** Select the preferred projection mode. For more information, see page 15.
- **Remote Control:** View the battery level and version of the remote control.

## Battery

View the battery level of the projector.

# USING THE PROJECTOR

## Display & Sound menu

### Picture

#### Brightness

Set the brightness mode based on the ambient brightness.

#### PICTURE MODE

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

- **Standard:** Select this mode for optimizing the balance between brightness and color reproduction.
- **Vivid:** Select this mode for emphasizing color.
- **Movie:** Select this mode for home theater.
- **Natural:** Select this mode for natural-looking colors.
- **Custom:** Manually configure the picture settings such as contrast, saturation, sharpness, color gain, and gamma.

#### Game Mode

Enable this function to increase the brightness and response time level for enjoying video games.

#### Reset to Default

Return the factory default setting for picture settings.

### Screen

Select the aspect ratio of the displayed image.

- **Full:** This format fills the screen, regardless of aspect ratio.
- **Unscaled:** This format displays the original image without any scaling.
- **4:3:** This format is for 4:3 input sources.
- **Movie expand 14:9:** This format is for Movie expand 14:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- **Movie expand 16:9:** This format is for Movie expand 16:9 input sources.

**Note:** *This menu option is only available for HDMI input source.*

#### Scaling table:

| 16:9 screen | 480i/p                                       | 576i/p | 720p | 1080i/p |
|-------------|----------------------------------------------|--------|------|---------|
| 4x3         | Scale to 1440 x 1080                         |        |      |         |
| 14x9        | Scale to 1680 x 1080                         |        |      |         |
| 16x9        | Scale to 1920 x 1080                         |        |      |         |
| 21x9        | N/A                                          |        |      |         |
| 32x9        | N/A                                          |        |      |         |
| V-Stretch   | N/A                                          |        |      |         |
| Full screen | N/A                                          |        |      |         |
| Auto        | If source is 4:3, auto resize to 1440 x 1080 |        |      |         |

# USING THE PROJECTOR

Auto mapping rule:

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

## Sound

### Sound

Select the appropriate sound mode.

- **Standard:** Select this mode for music playback.
- **Movie:** Select this mode for watching a movie playback.
- **Music:** Select this mode for regular music playback.
- **Sport:** Select this mode for watching sports events.
- **Custom:** Manually configure the audio settings such as balance, bass, and treble

### Surround

Select to enable surround sound audio.

### System Sound

Enable this function to turn on the system sound notifications.

### Expert Settings

Enable [Auto Volume Control] function to control volume automatically.

## Audio Output

### Digital Output

Set the audio output format.

### Digital Output Delay

Adjust the delay of the digital audio output to synchronize the sound with the video.

# USING THE PROJECTOR

## Network & Internet menu

### Wi-Fi

Configure the wireless network settings.

#### Wi-Fi

Enable this feature to turn on Wi-Fi.

#### AVAILABLE NETWORKS

Select your desired wireless access point. Select [See all] to display all the list.

#### Add new network

Manually enter a wireless network name, select the type of security mode, and enter password.

### Data Saver

Enable this option to automatically adjust the video quality to use less mobile data. This function will monitor and limit your network traffic.

### Data usage and alerts

View how much data that has been used today. You also can set data alert notification.

### Scanning always available

Enable this option to let Google's location service and other apps scan for networks, even when the Wi-Fi is off.

## ETHERNET

Configure the wired network settings and view the network connection status.

#### Proxy Settings

Configure the proxy server settings.

#### IP settings

Select [DHCP] if you want the projector to obtain IP address and other connection parameters automatically from your network. Otherwise, select [Static] if you want to manually configure the IP settings for your network connection.

### Wake configs

Enable the desired function to wake up the projector via wireless network (WoW), wake up the projector via network control over LAN connection (WoL), or wake up the projector through Google Cast (WoC).

## Accounts & Profiles menu

Sign in with your Google Account. After you are signed in, you can then manage user profiles and kids profiles.

# USING THE PROJECTOR

## Privacy menu

### Location

#### Location status

Enable or disable the system to use the Wi-Fi function to estimate the projector location.

#### Scanning always available

Enable this option to let Google's location service and other apps scan for networks, even when Wi-Fi is off.

### Usage & diagnostic

Enable this option to automatically send the diagnostic information to Google, such as crash reports and usage data from your device, app, and Google Cast. You can adjust these permissions at any time from the device settings.

### Ads

Manage your ads settings, such as resetting your advertising ID.

### Google Assistant

#### Voice Control

Enable this option to use your voice to find what to watch, get information, and control your device.

#### View permissions

Use this function to review and manage your activity.

#### Personal results

Use this function to allow Google Assistant to read or show specific results for any shared Google Assistant device.

#### Searchable apps

Select which apps to include in the search results.

#### SafeSearch filter

Enable this option to use SafeSearch filter which can block inappropriate or explicit images from your Google Search results.

### Payment & Purchases

Manage your account and purchases through the Google Play Store app on your mobile device. You can also configure the settings by using a web browser (for example, go to [g.co/ManageWallet](https://g.co/ManageWallet) to set the payment methods).

#### Purchase authentication

Enable this option to prevent unauthorized purchases on this device.

### App permissions

View the app permissions to access various features such as Contacts, Phone, Camera, Files and media, and more.

# USING THE PROJECTOR

## **Special app access**

### **Energy optimization**

Enable the option to optimize the energy use.

### **Usage access**

Enable the option to track what other apps you are using and how often.

### **Notification access**

Enable the option to read all notifications, including personal information such as contact names and the text messages you receive.

### **All files access**

Enable the option to read, modify, and delete all files in this device or any connected storage volumes.

### **Display over other apps**

Enable the option to display on top of other apps you are using. It may interfere with your use of those apps or change the way they seem to behave or appear.

### **Modify system settings**

Enable the option to modify the system settings.

### **Turn screen on**

Enable the option to turn the screen on. If granted, the app may turn on the screen at any time without your explicit intent.

## **Security & Restrictions**

### **Unknown sources**

Allow installation of apps from sources other. Your device and personal data are more vulnerable to attack by apps from unknown sources.

# USING THE PROJECTOR

## **Apps menu**

### **See all apps**

View all apps that have been installed in the device.

### **App permissions**

View the app permissions to access various features such as Contacts, Phone, Camera, Files and media, and more.

### **Special app access**

Configure app permissions and access. For more information, see page 46.

### **Security & Restrictions**

Restrict the installation of apps from unknown sources. For more information, see page 46.

# USING THE PROJECTOR

## System menu

### About

Check for firmware upgrades and update the system, view and rename the device, perform factory reset, view device status, view legal information, view the model name, view Android TV OS related information, and view the software version.

### Date & Time

#### Automatic date & time

Enable or disable automatic date and time.

**Note:** *This settings only applies when connected to the Internet.*

#### Set date

If the [Automatic date & time] setting is disabled, you can manually set the date.

#### Set time

If the [Automatic date & time] setting is disabled, you can manually set the time.

#### Set time zone

Select the time zone.

#### Use 24-hour format

Set the time format.

### Language

Select the on-screen display language.

### Keyboard

#### Current keyboard

View the current keyboard.

#### Gboard Settings

Configure Gboard Keyboard Settings.

#### Manage keyboards

Manage available virtual keyboards.

### Storage

#### Internal shared storage

View and manage the device storage.

#### Free up storage

Free up the storage space on the device by clearing cache (temporary files) or uninstalling unwanted apps.

# USING THE PROJECTOR

## **Ambient mode**

### **Start now**

Activate a screen saver immediately.

### **CHANNELS**

Select the photos source for the screen saver.

### **Weather**

Display or hide the weather information in the screen saver.

### **Time**

Display or hide the time of day in the screen saver.

### **Personal photo data**

Display or hide the owner's name and the album name.

### **Portrait Google Photos**

Display or hide the portrait orientation photos from Google Photos.

### **Personal photo curation**

Automatically curate the contents of your albums.

### **Sideshow speed**

Set the slideshow speed.

## **Power & Energy**

### **Power on behavior**

Select the screen to start when powering on the projector.

### **Power & Energy**

Set the countdown timer interval. When there is no signal being sent to the projector, the countdown timer will start. The projector will automatically power off when the countdown has finished.

### **Power**

Configure the sleep timer, picture off, switch off timer, and auto sleep settings.

### **Timer**

Schedule the timer to automatically power on or off the device.

## **Google Cast**

Select to show a notification on all Android™ devices connected to your Wi-Fi and let others to control the media when casting from an external device.

## **System Sound**

Enable/disable the system sound.

## **Restart**

Restart the projector.

# USING THE PROJECTOR

## Accessibility menu

### TalkBack

Enable the option to use a screen reader. You can also configure the TalkBack related settings.

### Text to speech

Configure Text-to-Speech related settings.

### Accessibility shortcut

Enable the option to use an accessible shortcut.

**Note:** To start an accessible feature, press and hold the  and  buttons on the remote control at the same time for 3 seconds.

### Switch Access

Enable the option to turn on the switch function. You can also configure the Switch Access related settings.

## Captions

### Display

Enable the option to turn on the captions.

### Language

Set the subtitle language.

### Text size

Set the default font size for the subtitle.

### CAPTION STYLE

Set the caption related settings.

### High contrast text

Enable the option to turn on the high-contrast text.

# USING THE PROJECTOR

## Remotes & Accessories menu

### Pair accessory

Search for Bluetooth accessories and pair them with your projector.

**Note:** *To pair the remote control with your projector, see page 24.*

## Help & Feedback menu

### Send feedback

Use the on-screen keyboard to describe the issue and send the feedback. Otherwise, press and hold the  button on the remote control to easily send the feedback.

**Note:** *For more information, visit Google TV Help at [g.co/tv/help](https://g.co/tv/help).*

# ADDITIONAL INFORMATION

## Compatible Solutions

### EDID (Digital)

| HDMI 1.4 (2K)         |          |        |                    |        |              |                  |        |
|-----------------------|----------|--------|--------------------|--------|--------------|------------------|--------|
| B0/Established Timing |          |        | B0/Standard Timing |        |              | B0/Detail Timing |        |
| Resolution            | V [Hz]   | H [Hz] | Resolution         | V [Hz] | Aspect ratio | Resolution       | V [Hz] |
| 720x400               | 70.0     | 31.5   | 1280x1024          | 60.0   | 5:04         | 1920x1080        | 60.0   |
| 720x400               | 88.0     | 39.6   | 800x600            | 60.0   | 4:03         |                  |        |
| 640x480               | 60.0     | 31.5   | 1024x768           | 60.0   | 4:03         |                  |        |
| 640x480               | 66.6(67) | 34.9   | 1440x1152          | 60.0   | 16:10        |                  |        |
| 640x480               | 72.0     | 37.9   |                    |        |              |                  |        |
| 640x480               | 75.0     | 37.5   |                    |        |              |                  |        |
| 800x600               | 56.0     | 35.1   |                    |        |              |                  |        |
| 800x600               | 60.0     | 37.9   |                    |        |              |                  |        |
| 800x600               | 72.0     | 48.1   |                    |        |              |                  |        |
| 800x600               | 75.0     | 46.9   |                    |        |              |                  |        |
| 832x624               | 75.0     | 46.9   |                    |        |              |                  |        |
| 1024x768              | 87.0     | 70.2   |                    |        |              |                  |        |
| 1024x768              | 60.0     | 48.4   |                    |        |              |                  |        |
| 1024x768              | 70.0     | 56.5   |                    |        |              |                  |        |
| 1024x768              | 75.0     | 60.0   |                    |        |              |                  |        |
| 1280x1024             | 75.0     | 80.0   |                    |        |              |                  |        |
| 1152x870              | 75.0     | 67.6   |                    |        |              |                  |        |

| HDMI 1.4 (2K)       |        |                  |        |                            |
|---------------------|--------|------------------|--------|----------------------------|
| B1/Video Mode       |        | B1/Detail Timing |        | Audio Data                 |
| Resolution          | V [Hz] | Resolution       | V [Hz] | Format                     |
| 640x480p 4:3        | 60.0   | 720x480p 16:9    | 60.0   | LPCM(IEC 60958 PCM[30,31]) |
| 720x480p 16:9       | 60.0   | 720x576p 16:9    | 50.0   | AC-3                       |
| 1280x720p 16:9      | 60.0   | 1280x720p 16:9   | 50.0   | Dolby Digital+(E_AC3)      |
| 1920x1080i 16:9     | 60.0   |                  |        |                            |
| 720(1440)x480i 16:9 | 60.0   |                  |        |                            |
| 1920x1080p 16:9     | 60.0   |                  |        |                            |
| 720x576p 16:9       | 50.0   |                  |        |                            |
| 1280x720p 16:9      | 50.0   |                  |        |                            |
| 1920x1080i 16:9     | 50.0   |                  |        |                            |
| 720(1440)x576i 16:9 | 50.0   |                  |        |                            |
| 1920x1080p 16:9     | 50.0   |                  |        |                            |
| 1920x1080p 16:9     | 24.0   |                  |        |                            |
| 1920x1080p 16:9     | 30.0   |                  |        |                            |
| 720x480p 4:3        | 60.0   |                  |        |                            |
| 720(1440)x480i 4:3  | 60.0   |                  |        |                            |
| 720x576p 4:3        | 50.00  |                  |        |                            |
| 720(1440)x576i 4:3  | 50.00  |                  |        |                            |

# ADDITIONAL INFORMATION

| HDMI 2.0 (4K)         |          |        |                    |        |              |                  |        |
|-----------------------|----------|--------|--------------------|--------|--------------|------------------|--------|
| B0/Established Timing |          |        | B0/Standard Timing |        |              | B0/Detail Timing |        |
| Resolution            | V [Hz]   | H [Hz] | Resolution         | V [Hz] | Aspect ratio | Resolution       | V [Hz] |
| 720x400               | 70.0     | 31.5   | 256x192            | 123.0  | 16:09        | 3840x2160        | 60.0   |
| 720x400               | 88.0     | 39.6   | 256x192            | 123.0  | 16:09        | 3840x2160        | 24.0   |
| 640x480               | 60.0     | 31.5   | 2288x1430          | 61.0   | 16:10        |                  |        |
| 640x480               | 66.6(67) | 34.9   | 256x192            | 92.0   | 16:10        |                  |        |
| 640x480               | 72.0     | 37.9   |                    |        |              |                  |        |
| 640x480               | 75.0     | 37.5   |                    |        |              |                  |        |
| 800x600               | 56.0     | 35.1   |                    |        |              |                  |        |
| 800x600               | 60.0     | 37.9   |                    |        |              |                  |        |
| 800x600               | 72.0     | 48.1   |                    |        |              |                  |        |
| 832x624               | 75.0     | 46.9   |                    |        |              |                  |        |
| 800x600               | 75.0     | 46.9   |                    |        |              |                  |        |
| 1024x768              | 87.0     | 70.2   |                    |        |              |                  |        |
| 1024x768              | 60.0     | 48.4   |                    |        |              |                  |        |
| 1024x768              | 70.0     | 56.5   |                    |        |              |                  |        |
| 1024x768              | 75.0     | 60.0   |                    |        |              |                  |        |
| 1280x1024             | 75.0     | 80.0   |                    |        |              |                  |        |
| 1152x870              | 75.0     | 67.6   |                    |        |              |                  |        |

| HDMI 2.0 (4K)       |        |                  |        |                           |
|---------------------|--------|------------------|--------|---------------------------|
| B1/Video Mode       |        | B1/Detail Timing |        | Audio Data                |
| Resolution          | V [Hz] | Resolution       | V [Hz] | Format                    |
| 1920x1080i 16:9     | 60.0   | 720x480p 16:9    | 60.00  | LPCM(IEC 60958 PCM[30,31] |
| 1280x720p 16:9      | 50.0   |                  |        | AC-3                      |
| 720x480p 16:9       | 50.0   |                  |        | Dolby Digital+(E_AC3)     |
| 640x480p 4:3        | 60.0   |                  |        |                           |
| 720x576p 16:9       | 50.0   |                  |        |                           |
| 1280x720p 16:9      | 50.0   |                  |        |                           |
| 1920x1080i 16:9     | 50.0   |                  |        |                           |
| 720(1440)x480i 16:9 | 50.0   |                  |        |                           |
| 1920x1080p 16:9     | 60.0   |                  |        |                           |
| 1920x1080p 16:9     | 50.0   |                  |        |                           |
| 1920x1080p 16:9     | 24.0   |                  |        |                           |
| 1920x1080p 16:9     | 30.0   |                  |        |                           |

## MAC

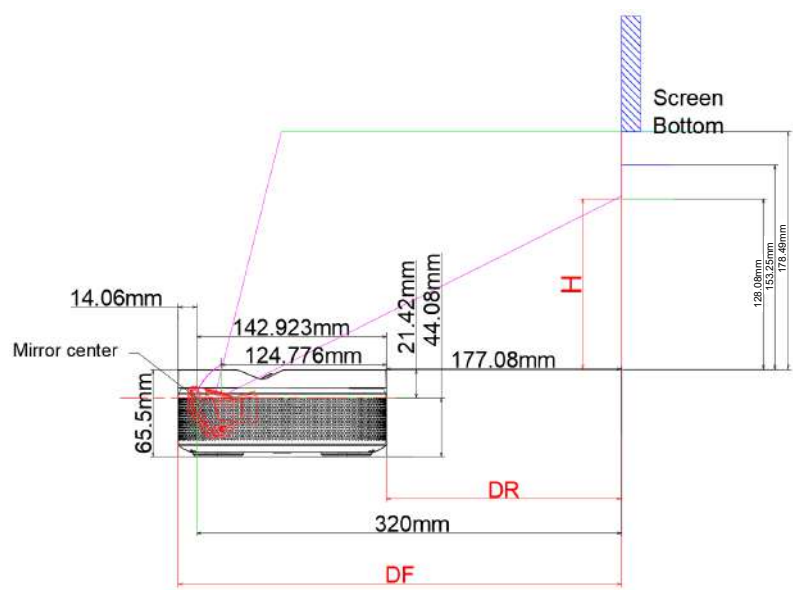
| Resolution   | V [Hz]             |
|--------------|--------------------|
| 640 x 480    | 60                 |
| 720x576      | 50                 |
| 800 x 600    | 60                 |
| 1024 x 768   | 60/120             |
| 1280 x 720p  | 60/120             |
| 1920 x 1080p | 24/25/30/50/60/120 |

# ADDITIONAL INFORMATION

## Image Size and Projection Distance

| Image Size | DF<br>Tolerance: 0 |        | DR    |       | H<br>Offset=130% |       | H<br>Offset=135% |       | H<br>Offset=140% |       |
|------------|--------------------|--------|-------|-------|------------------|-------|------------------|-------|------------------|-------|
|            | inch               | m      | inch  | m     | inch             | m     | inch             | m     | inch             | m     |
| 60"        | 0.259              | 10.207 | 0.102 | 4.027 | 0.091            | 3.569 | 0.109            | 4.305 | 0.128            | 5.040 |
| 70"        | 0.296              | 11.656 | 0.139 | 5.475 | 0.109            | 4.305 | 0.131            | 5.163 | 0.153            | 6.021 |
| 80"        | 0.332              | 13.073 | 0.175 | 6.893 | 0.128            | 5.044 | 0.153            | 6.025 | 0.178            | 7.006 |
| 90"        | 0.369              | 14.530 | 0.212 | 8.349 | 0.147            | 5.784 | 0.175            | 6.888 | 0.203            | 7.993 |
| 100"       | 0.404              | 15.908 | 0.247 | 9.727 | 0.166            | 6.522 | 0.197            | 7.750 | 0.228            | 8.977 |

**Note:** All projectors will have tolerance. If you need the most accurate value, please measure the device directly.



# ADDITIONAL INFORMATION

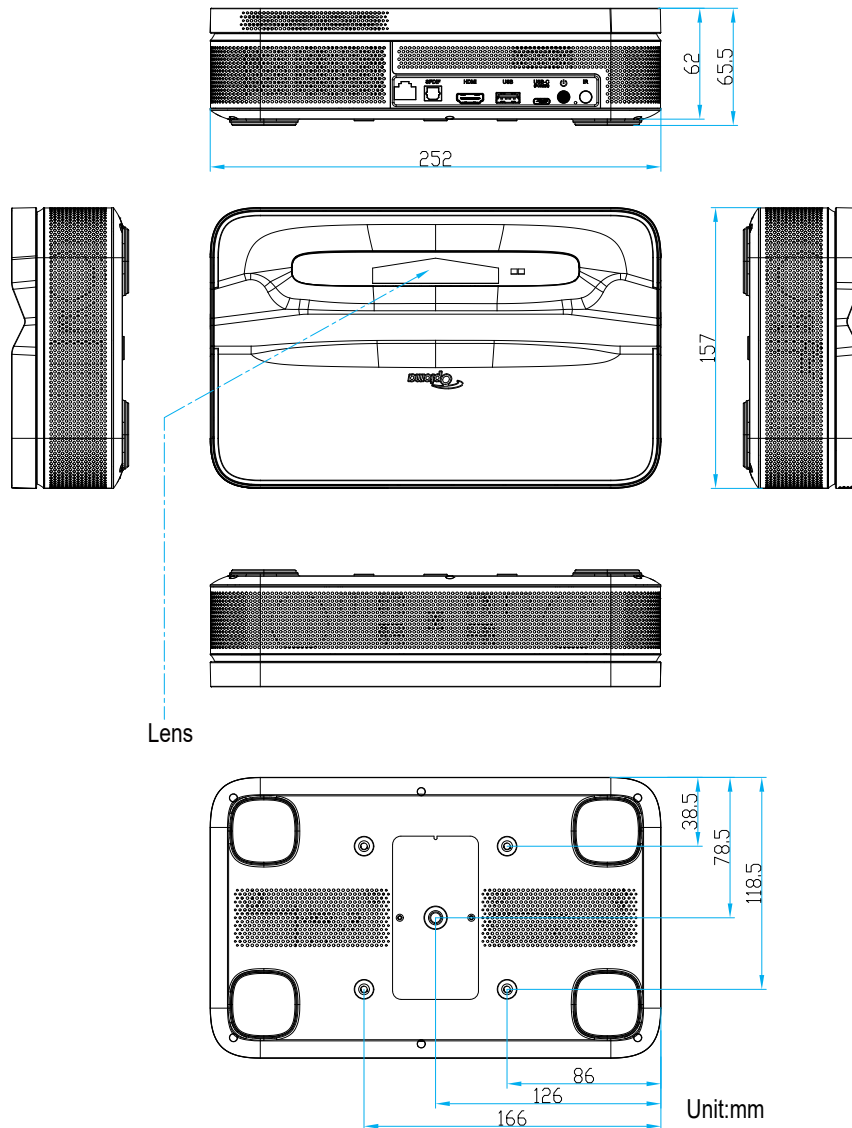
## Projector Dimensions and Ceiling Mount Installation

Ceiling screw socket:

- Use M5\*5mm to fix

PTZ bracket socket:

- Use 5mm British 1/4-20\*1/4 thread screws to fix



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



Warning:

- Be sure to keep at least 15 cm gap between the ceiling and the bottom of the projector.
- Avoid installing the projector near a heat source.

# ADDITIONAL INFORMATION

## IR Remote Codes



| Key              |           | IR Code | Usage Page | Usage ID | Description                                                                    |
|------------------|-----------|---------|------------|----------|--------------------------------------------------------------------------------|
| Power            |           | 0x0A    | 0x0C       | 0x0030   | Press to power on / switch to Standby mode.                                    |
| Input Source     |           | 0x08    | 0x07       | 0x0041   | Press to select an input signal.                                               |
| Google Assistant |           | 0x74    | 0x0C       | 0x0221   | Press and hold the button while speaking.                                      |
| User Profile     |           | 0x59    | 0x0C       | 0x019C   | Press to view the profile page.                                                |
| Settings         |           | 0x61    | 0x07       | 0x006E   | Press to access the Settings dash board.                                       |
| OK               | <b>OK</b> | 0x1F    | 0x0C       | 0x0041   | Press to confirm the selection.                                                |
| Up               |           | 0x00    | 0x0C       | 0x0042   | Use the buttons to select item or make adjustment according to your selection. |
| Down             |           | 0x01    | 0x0C       | 0x0043   |                                                                                |
| Right            |           | 0x02    | 0x0C       | 0x0045   |                                                                                |
| Left             |           | 0x03    | 0x0C       | 0x0044   |                                                                                |
| Back             |           | 0x1C    | 0x0C       | 0x0224   | Press to return to the previous page.                                          |
| Home             |           | 0x0C    | 0x0C       | 0x0223   | Press to access the Home Screen.                                               |
| Live TV*         |           | 0x1E    | 0x0C       | 0x008D   | Press to enter the live guide page.                                            |
| Focus +          |           | 0x42    | 0x07       | 0x006C   | Press to adjust the focus.                                                     |
| Focus -          |           | 0x43    | 0x07       | 0x006D   |                                                                                |
| Mute             |           | 0x0D    | 0x0C       | 0x00E2   | Press to turn off/on the projector built-in speaker.                           |

\*US Only. For regions where Live TV is unavailable, this key may direct to other input sources.

## ADDITIONAL INFORMATION

| Key                            |                                                                                   | IR Code | Usage Page | Usage ID | Description                                      |
|--------------------------------|-----------------------------------------------------------------------------------|---------|------------|----------|--------------------------------------------------|
| Volume +                       |  | 0x58    | 0x0C       | 0x00E9   | Press to adjust the volume level.                |
| Volume -                       |                                                                                   | 0x5D    | 0x0C       | 0x00EA   |                                                  |
| YouTube                        |  | 0x4D    | 0x0C       | 0x0007   | Press to launch the video streaming app.         |
| NetFlix                        |  | 0x4E    | 0x0C       | 0x0008   | Press to launch the video streaming app.         |
| Prime Video                    |  | 0x2E    | 0x07       | 0x003E   | Press to launch the video streaming app.         |
| Projector Settings (Shortcuts) |  | 0x38    | 0x07       | 0x003F   | Press to access projector setting shortcut menu. |

# ADDITIONAL INFORMATION

## Troubleshooting

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

-  *No audio output*
- Check if the projector is in mute mode. If so, press the  button on the remote control again to unmute projector.
  - Check if your mobile device is successfully paired with the projector via Bluetooth. For more information, see page 28.
-  *No image output*
- Press the  button at the rear of the projector. The power indicator light will turn on if the projector enters the projection mode successfully.
  - Ensure that the power adapter has specified power output.
-  *No network*
- Check the internet connection status in the **[Network & Internet]** option. For more information, see page 25.
  - Ensure that the network cable is correctly inserted to the RJ-45 connector of the projector.
  - Ensure that the router is correctly configured.
-  *Fuzzy image*
- Adjust the focus or keystone correction of the projector.
  - Make sure the projection distance is in the effective focal range of the projector. For more information, see page 54.
  - Remove the dust or dirt from the lens with a blower or soft-bristled brush.
-  *Non-rectangular image*
- Place the projector perpendicular to the screen/wall if the keystone correction function is not used.
  - Use the keystone correction function to adjust the image shape. For more information, see page 27.
-  *Automatic keystone correction failure*
- Make sure the TOF module on the front glass cover of the projector is not blocked or smudged.
  - Move the projector until it is perpendicular to the projection surface and try again.
-  *Automatic focus failure*
- Make sure the TOF module on the front glass cover of the projector is not blocked or smudged.
  - Move the projector back and forth until the projector is in recommended projection distance. For more information, see page 54.

# ADDITIONAL INFORMATION



## *Remote control unresponsive*

- Make sure the batteries are installed correctly and not drained.
- Remove any obstructions between your projector and remote control.
- Ensure the remote control is successfully paired with the projector via Bluetooth.
- Make sure no button is pressed or stuck and check if the power indicator is still on. If yes, please contact the customer support or local service center.



## *Connect the Bluetooth devices*

- Press the  button on the remote control and select  to enter the **All settings** menu. Open the **[Remotes & Accessories]** option to check the Bluetooth device list. Then select **[Pair accessory]** to pair with other Bluetooth device.



## *Cannot power on the projector*

- The projector will enter the protection mode if the internal battery runs out. In this case, make sure the projector is connected to power supply and then press and hold the  button on the projector or the  button on the remote control for 3 seconds to power on the projector. In other cases, please contact customer support or local service center.



## *Others*

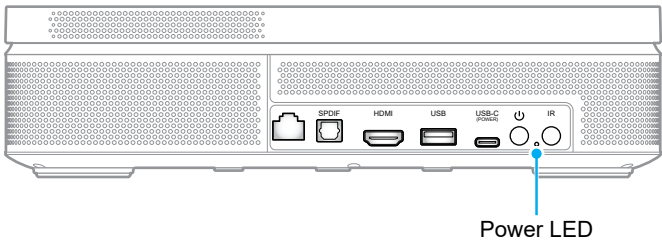
- Please feel free to contact us.

# ADDITIONAL INFORMATION

## Warning Indicators

Refer to the “Troubleshooting” section for the common issues. If the problem persists, please contact your nearest service center for assistance.

### Power LED Indicator Guide



| LED Status  | On                                                                                                                                                                                                | Off               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Description | <b>Power on (Battery mode):</b> <ul style="list-style-type: none"><li>in projection (<b>blue</b>)</li><li>battery low (<b>red</b>)</li></ul>                                                      | Power off/Standby |
|             | <b>Power on (Plug in the adapter):</b> <ul style="list-style-type: none"><li>in projection / battery charging (<b>red</b>)</li><li>in projection / battery fully charged (<b>green</b>)</li></ul> |                   |
|             | <b>Power off:</b> <ul style="list-style-type: none"><li>battery charging (<b>red</b>)</li><li>battery fully charged (<b>green</b>)</li></ul>                                                      |                   |

## Warning Message

- Projector Overheating



# ADDITIONAL INFORMATION

## Specifications

| Item                      | Description                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technology                | Texas Instrument DMD, 0.23" 1080p DMD                                                                                                                                                                                                                                                                                                                             |
| Output resolution         | 1080p Full HD (1920x1080)                                                                                                                                                                                                                                                                                                                                         |
| Maximum input resolution  | Graphic up to 3840 x 2160 @60Hz (HDMI port) 4K HDR Input is supported with external HDMI Source. Projector will display content in 1080p HDR.                                                                                                                                                                                                                     |
| Lens                      | <ul style="list-style-type: none"><li>• Throw ratio: 0.18</li><li>• F-stop: 2.1</li><li>• Focal length: 0.9143 mm</li></ul>                                                                                                                                                                                                                                       |
| Offset                    | 135% ±5%                                                                                                                                                                                                                                                                                                                                                          |
| Image size                | 60" ~ 100"                                                                                                                                                                                                                                                                                                                                                        |
| Projection distance       | 26cm ~ 40cm (10.2" ~ 15.9")                                                                                                                                                                                                                                                                                                                                       |
| Lens                      | <ul style="list-style-type: none"><li>• HDMI 2.0 x1</li><li>• USB A x1 (5V/1A)</li><li>• S/PDIF</li><li>• LAN</li><li>• USB C x1 (power in)</li></ul>                                                                                                                                                                                                             |
| Colour                    | 1073.4 Million color                                                                                                                                                                                                                                                                                                                                              |
| Scan rate                 | <ul style="list-style-type: none"><li>• Horizontal scan rate: 15 kHz – 135 kHz</li><li>• Vertical scan rate: 24 ~ 60Hz (60Hz for 1080P)</li></ul>                                                                                                                                                                                                                 |
| Speaker                   | 10W x2 (max output 7W)                                                                                                                                                                                                                                                                                                                                            |
| Power consumption         | 110V (Typical W; BTU): <ul style="list-style-type: none"><li>• 85W ±10%(note:include charging); BTU/hr 1 ±5%</li><li>• 60W ±15%(note:include charging); BTU/hr 1.5 ±5%</li></ul> 220V (Typical W; BTU): <ul style="list-style-type: none"><li>• 85W ±10%(note:include charging); BTU/hr 1 ±5%</li><li>• 60W ±15%(note:include charging); BTU/hr 1.5 ±5%</li></ul> |
| Power requirement         | AC 100~240V ±10%, 50/60Hz                                                                                                                                                                                                                                                                                                                                         |
| Input power               | 20V 5A                                                                                                                                                                                                                                                                                                                                                            |
| Installation orientations | Front, Rear, Ceiling-top, Rear-top                                                                                                                                                                                                                                                                                                                                |
| Dimensions (W x D x H)    | 252 x 157 x 62 mm (99.21 x 61.81 x 24.41 inches)                                                                                                                                                                                                                                                                                                                  |
| Weight                    | 1.72 kg (3.79 lbs)                                                                                                                                                                                                                                                                                                                                                |
| Environmental             | Operating in 0°~40°C, 10% to 85% humidity (non-condensing)                                                                                                                                                                                                                                                                                                        |

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

# ADDITIONAL INFORMATION

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