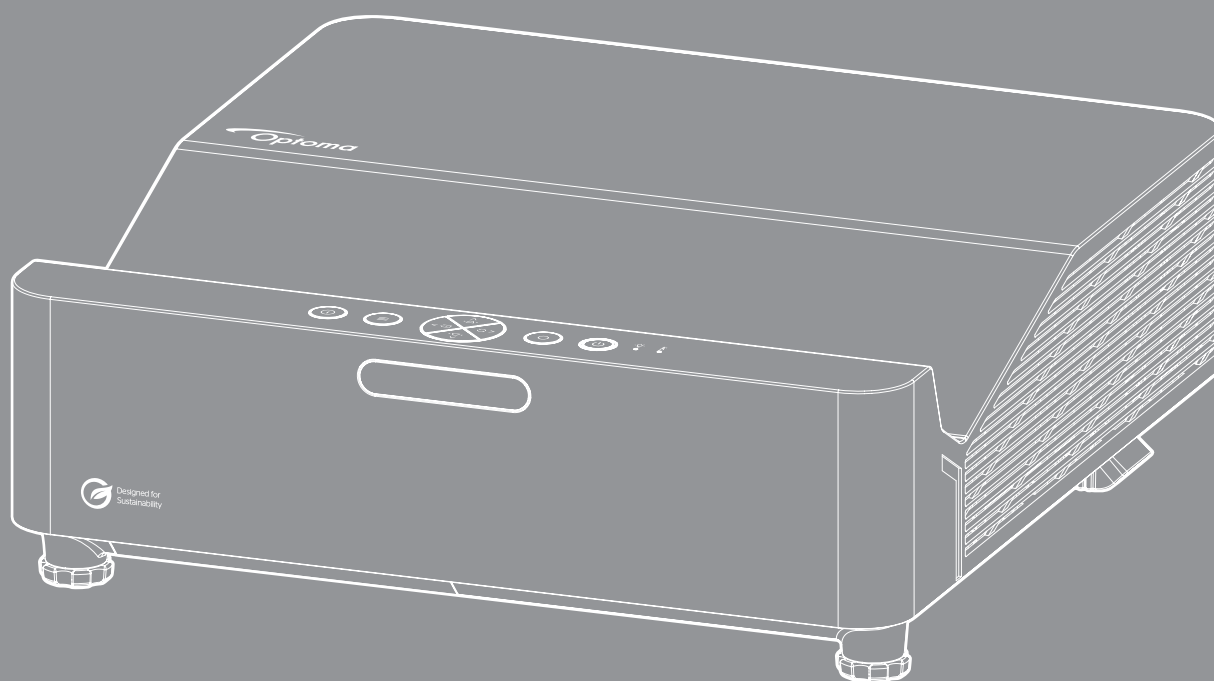




# DLP® Projector



User manual



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# SAFETY

|                                                                                   |                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. |
|  | The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.                                                          |

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

## Important Safety Instruction

- Do not 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 up to 80%
  - 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.

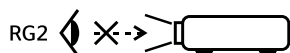
- Do not look straight into the projector lens during operation. The bright light may harm your eyes.
- This projector will detect the life of the light source itself.
- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for 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.
- Remove battery/batteries from remote control before storage. If the battery/batteries are left in the remote for long periods, they may leak.
- Do not use or store the projector in places where smoke from oil or cigarettes may be present, as it can adversely affect the quality of the projector performance.
- Please follow the correct projector orientation installation as non standard installation may affect the projector performance.
- Use a power strip and or surge protector. As power outages and brown-outs can KILL devices.

## Laser Radiation Safety Information

- This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 of IEC60825-1 : 2014 and also complies with 21 CFR 1040.10 and 1040.11 as a Risk Group 2, LIP (Laser Illuminated Projector) as defined in IEC 62471-5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.
- Complies with 21 CFR 1040.10 and 1040.11 except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.
- IEC 60825-1:2014/EN 60825-1+A11/EN50689:2021 CLASS 1 CONSUMER LASER PRODUCT RISK GROUP 2
- IEC 62471-5:2015 RISK GROUP 2

IEC 60825-1:2014, EN 60825-1:2014+A11:2021, EN 50689:2021 CLASS 1 CONSUMER LASER PRODUCT RISK GROUP 2, Complies with 21 CFR 1040.10 and 1040.11 except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5:Ed.1.0. For more information see Laser Notice No. 57, dated May 8, 2019.  
IEC 60825-1:2014 等級1雷射產品RG2危險等級  
IEC 60825-1:2014 1類激光產品RG2危險等級

**WARNING: MOUNT ABOVE THE HEADS OF CHILDREN!**  
Do not look into the beam less than 1m.  
No direct eye exposure to the beam is permitted.  
“AVERTISSEMENT:INSTALLER AU-DESSUS DE LA TETE DES ENFANTS.”  
Avertissement supplémentaire contre l'exposition oculaire pour des expositions à une distance de moins de 1m.  
「警告：安裝高於兒童頭頂！」  
請勿在距離小於1米的範圍內直視光束。嚴禁眼睛直接暴露於光束中。  
「警告：安裝高於兒童頭頂！」  
請勿在距離小於1米的範圍內直視光束。嚴禁眼睛直接暴露於光束中。



- Additional instructions to supervise children, no staring, and not use optical aids.
- Additional instructions to install above the reach of children.
- Notice is given to supervise children and to never allow them to stare into the projector beam at any distance from the projector.
- 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.
- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- 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.
- Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.

Not following the control, adjustment or operation procedure may cause damage by the the exposure of laser radiation.

## Laser Notice

IEC 60825-1:2014/EN 60825-1+A11/EN50689:2021 CLASS 1 CONSUMER LASER PRODUCT RISK GROUP 2.

The product's intended use as a consumer laser product and compliant with EN 50689:2021.

CLASS 1 CONSUMER LASER PRODUCT

EN 50689:2021

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## Trademark Recognition

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

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

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

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

## 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)

## WEEE

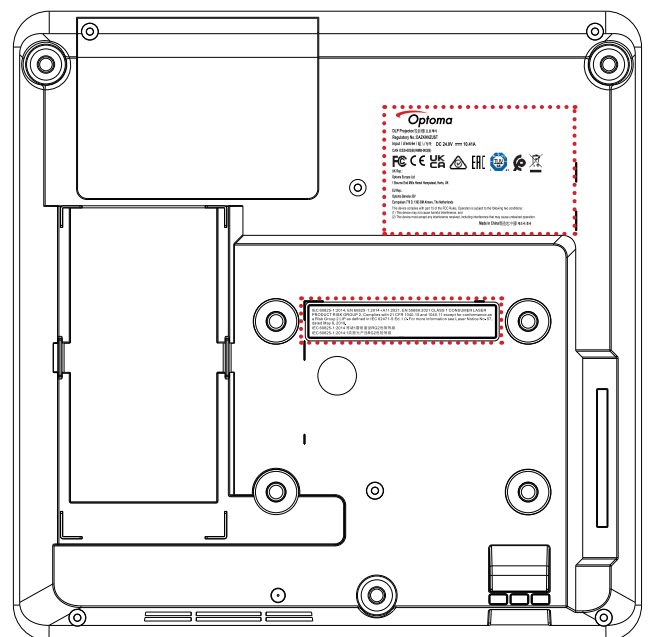
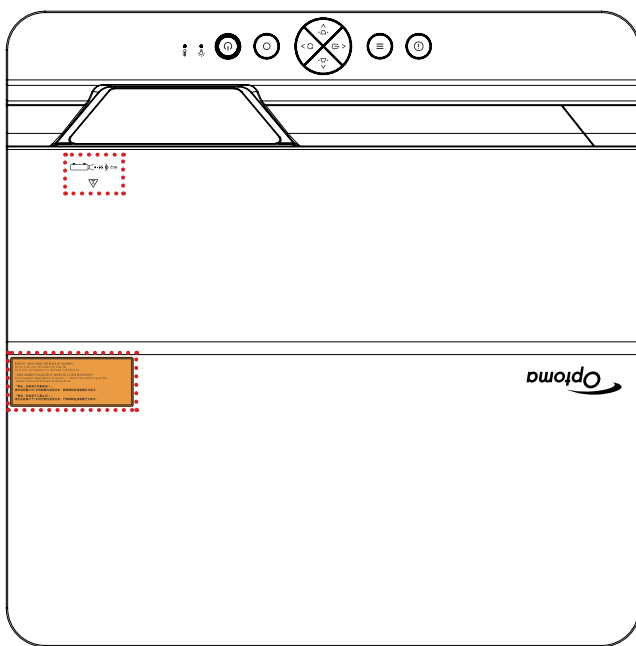
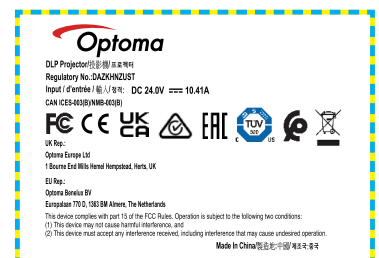


### Disposal instructions

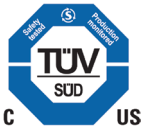
Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

## Specifications and Warning labels

Specifications and Warning labels are placed at the following location:



**Note:** For power supply, power ratings, and product information, please refer to the label on the bottom of the product.



## 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.
- Do not touch the lens with bare hands.

### CAUTION! Hot surface, Do not touch



- Do not place your hands, face, or other objects in front of the projector lens while the projector is operating. Doing so can cause the object to get extremely hot, and possibly resulting in a fire or damage due to the heat emitted from the light output. Things placed in front of the lens may overheat and burn or start a fire.
- Do not spray flammable gas to get rid of dust and dirt that accumulate in the lens. Doing so could cause a fire.



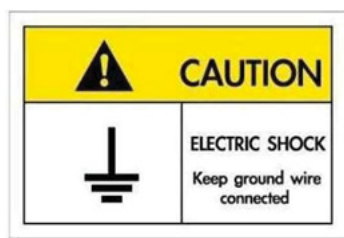
Warning: Do not use a spray containing flammable gases to remove dust or dirt from the lens. This may cause a fire due to excessive heat inside the projector.



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.



- To avoid electric shock, the unit and its peripherals must be properly grounded (earthed).
- This equipment is equipped with a three-pin grounding-type power plug.
- Do not remove the grounding pin on the power plug.
- This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.
- Do not defeat the purpose of the grounding plug.

### Ground the power cord

This device is designed to function when the power cord is grounded. If the power cord is not grounded, it may cause an electric shock. Please ensure that the power cord is directly connected to the wall socket and properly grounded.

Do not use the 2-pin plug adapter for conversion.

# INTRODUCTION

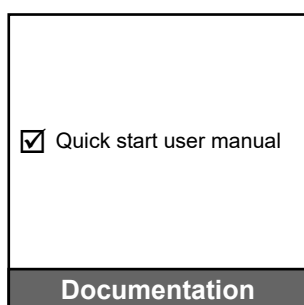
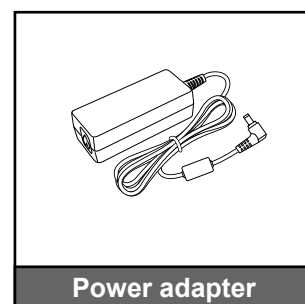
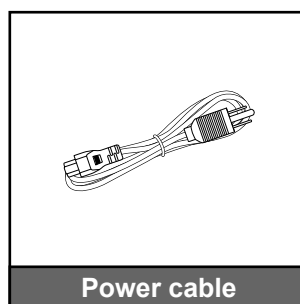
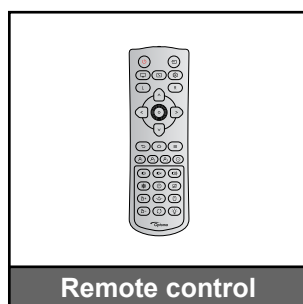
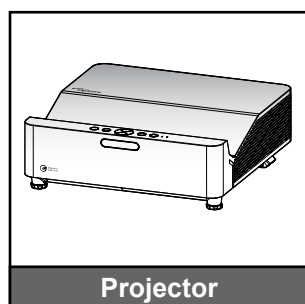
Thank you for purchasing an Optoma laser projector. For full list of features please visit the product page on our website, where you will also find additional information and documentation such as FAQs.

## 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



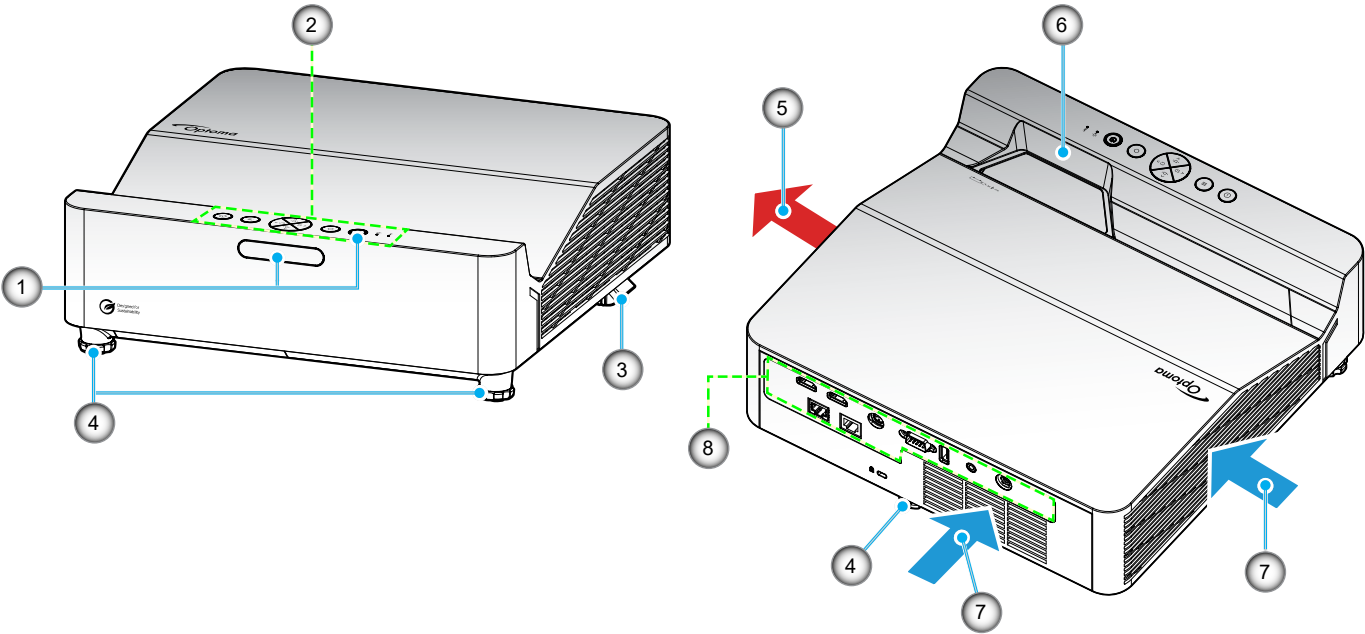
### Note:

- 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>



# INTRODUCTION

## Product Overview



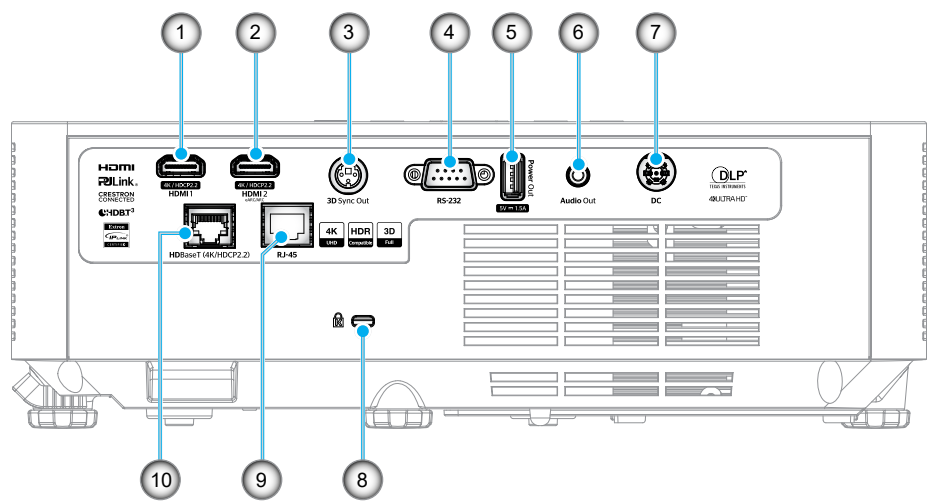
**Note:**

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

| No | Item                 | No | Item                 |
|----|----------------------|----|----------------------|
| 1. | IR Receivers         | 5. | Ventilation (outlet) |
| 2. | Keypad               | 6. | Lens                 |
| 3. | Focus Lever          | 7. | Ventilation (inlet)  |
| 4. | Tilt-Adjustment Feet | 8. | Input / Output       |

# INTRODUCTION

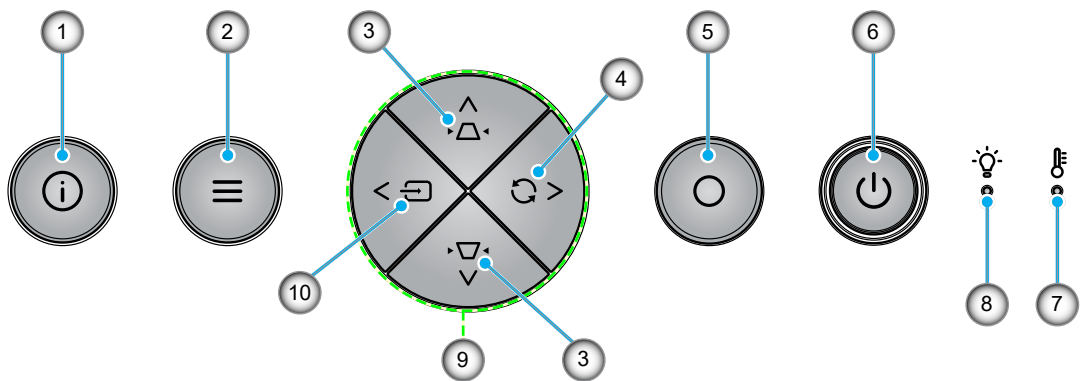
## Connections



| No | Item                              | No  | Item                           |
|----|-----------------------------------|-----|--------------------------------|
| 1. | HDMI 1 Connector                  | 6.  | Audio Out Connector            |
| 2. | HDMI 2 Connector                  | 7.  | DC Jack                        |
| 3. | 3D SYNC Out (5V, 0.75A) Connector | 8.  | Kensington™ Lock Port          |
| 4. | RS-232 Connector                  | 9.  | RJ-45 Connector                |
| 5. | USB Power Out (5V—1.5A) Connector | 10. | HDBaseT (4K/HDCP2.2) Connector |

# INTRODUCTION

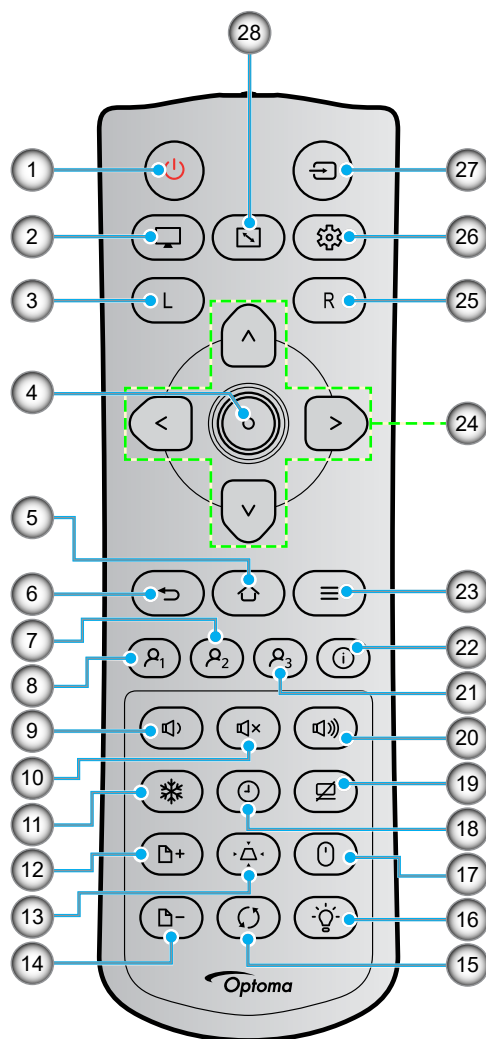
## Keypad



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

# INTRODUCTION

## Remote control



| No  | Item                | No  | Item                         |
|-----|---------------------|-----|------------------------------|
| 1.  | Power               | 15. | Resync                       |
| 2.  | Display Mode        | 16. | Light Source Mode            |
| 3.  | Mouse Left Click    | 17. | Mouse                        |
| 4.  | Enter               | 18. | Sleep Timer                  |
| 5.  | Home                | 19. | AV Mute                      |
| 6.  | Return              | 20. | Volume +                     |
| 7.  | User 2 (Assignable) | 21. | User 3 (Assignable)          |
| 8.  | User 1 (Assignable) | 22. | Information                  |
| 9.  | Volume -            | 23. | Menu                         |
| 10. | Mute                | 24. | Four Directional Select Keys |
| 11. | Freeze              | 25. | Mouse Right Click            |
| 12. | Page Up             | 26. | Setup Menu                   |
| 13. | Keystone            | 27. | Source                       |
| 14. | Page Down           | 28. | Aspect Ratio                 |

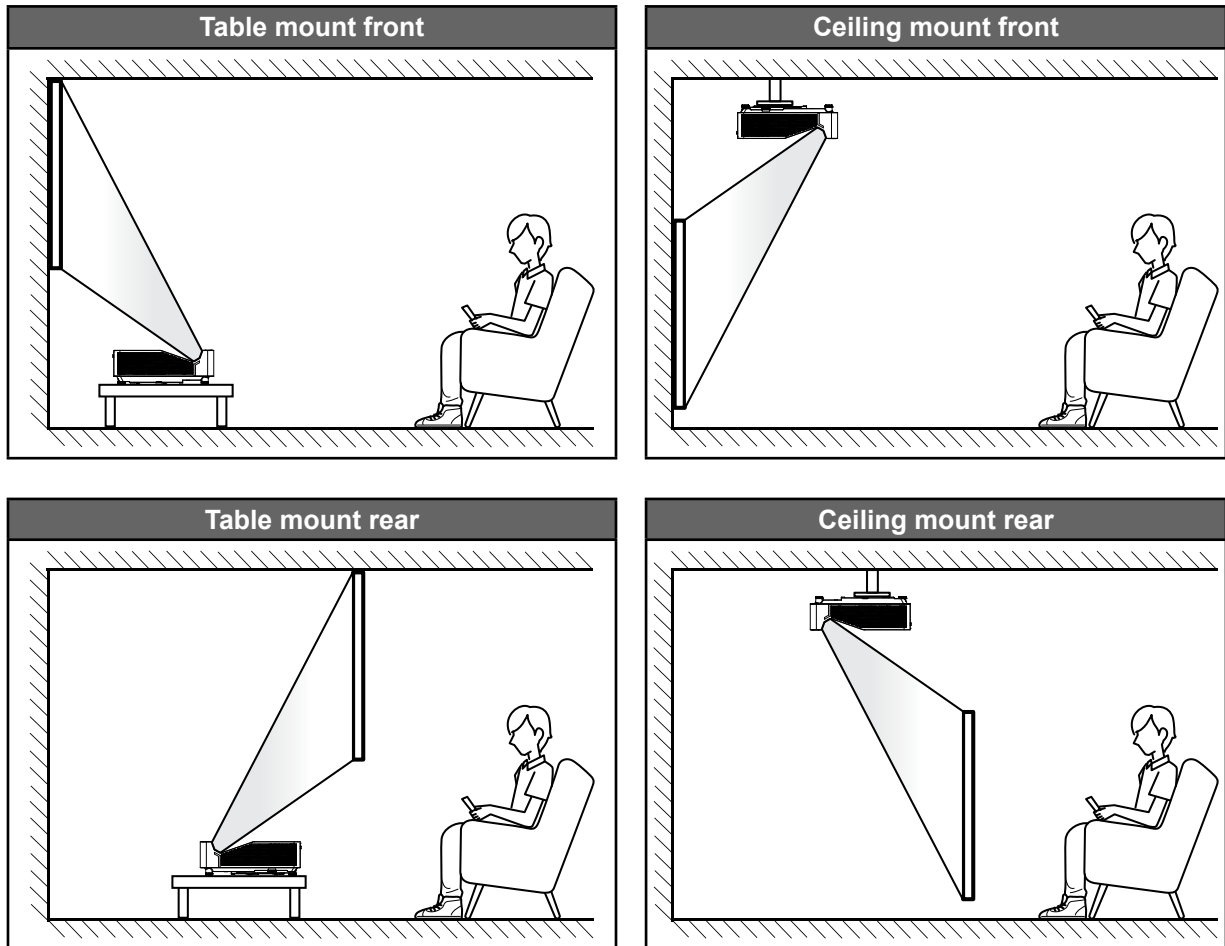
**Note:** Some keys may have no function for models that do not support these features.

# SETUP AND INSTALLATION

## Installing the projector

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

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



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

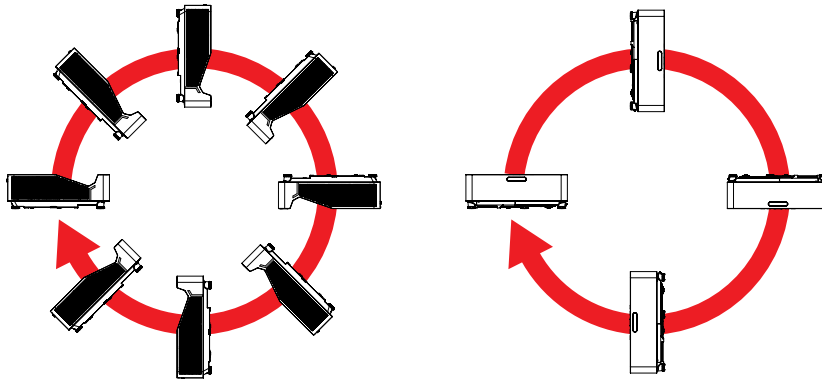
- To determine projector location for a given screen size, please refer to distance table on page 57.
- To determine screen size for a given distance, please refer to distance table on page 57.

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

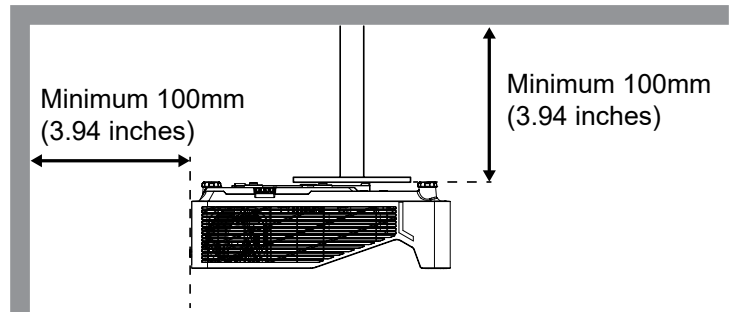
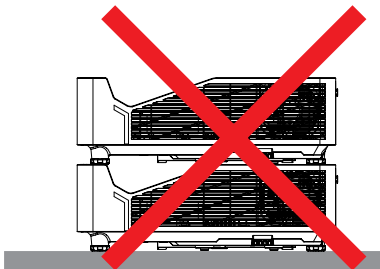
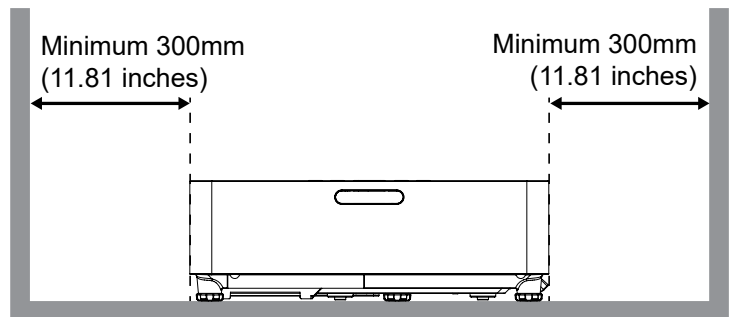
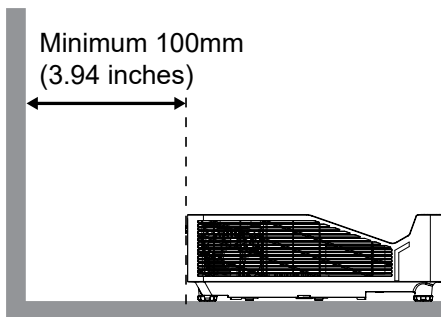
# SETUP AND INSTALLATION

## Projector installation notice

- 360° free orientation operation



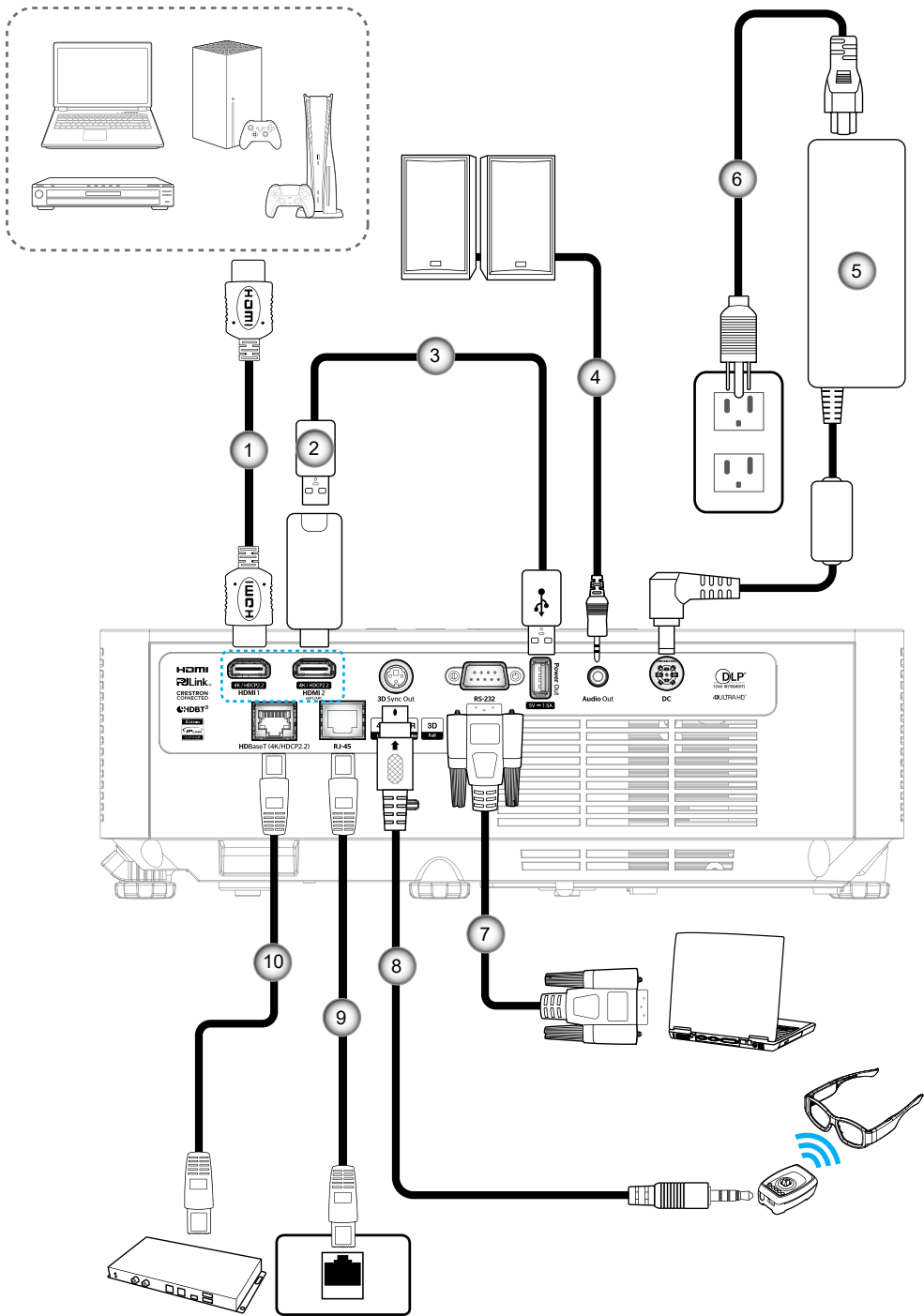
- Allow at least 30 cm clearance around the exhaust vent.



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

# SETUP AND INSTALLATION

## Connecting sources to the projector



| No | Item            | No  | Item             |
|----|-----------------|-----|------------------|
| 1. | HDMI Cable      | 6.  | Power Cable      |
| 2. | HDMI Dongle     | 7.  | RS232 Cable      |
| 3. | USB Power Cable | 8.  | 3D Emitter Cable |
| 4. | Audio Out Cable | 9.  | RJ-45 Cable      |
| 5. | Power Adapter   | 10. | RJ-45 Cable      |

**Note:** To ensure the best image quality and avoid connection errors, we recommend the use of High Speed or Premium Certified HDMI cables up to 5 meters.

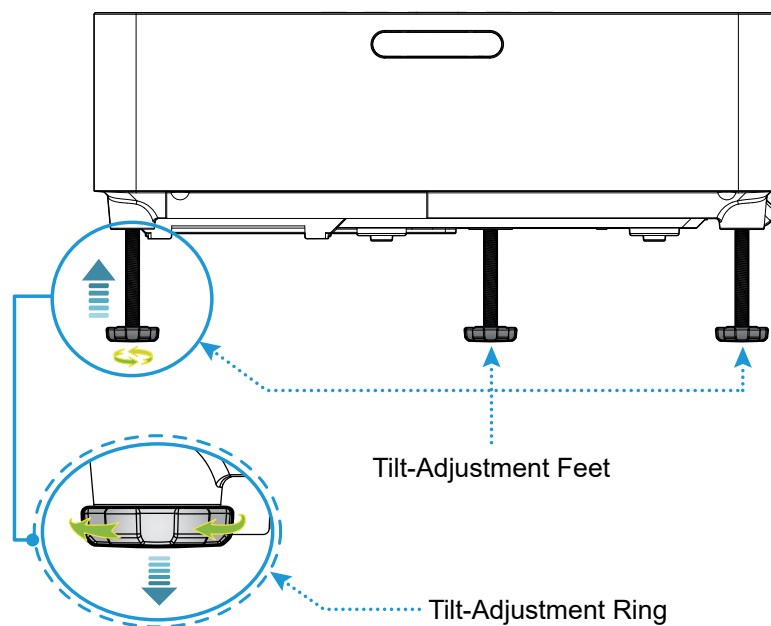
# SETUP AND INSTALLATION

## Adjusting the projector image

### Image height

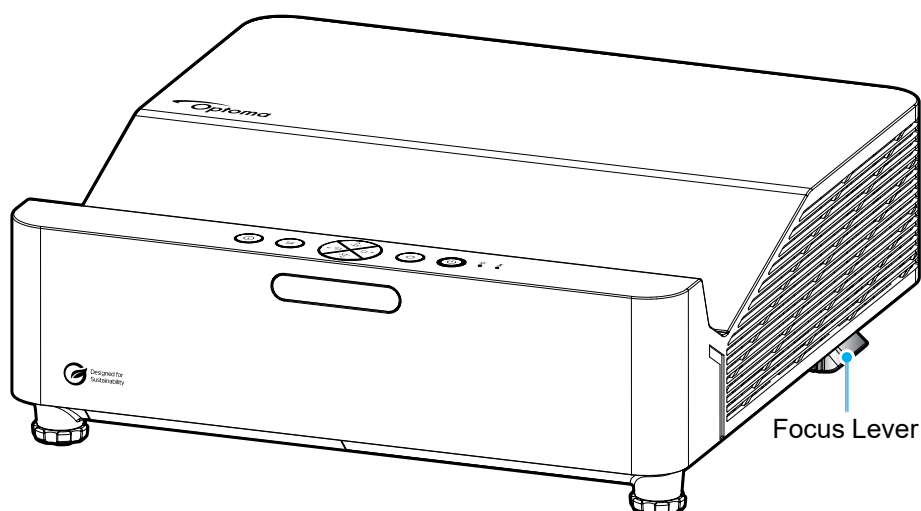
The projector is equipped with elevator feet for adjusting the image height.

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



### Focus

To adjust the focus, slide the focus lever up or down until the image is sharp and legible.



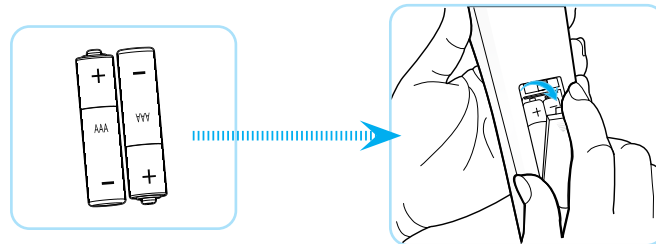
# SETUP AND INSTALLATION

## Remote setup

### Installing / replacing the batteries

Two AAA size batteries are supplied for the remote control.

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



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

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

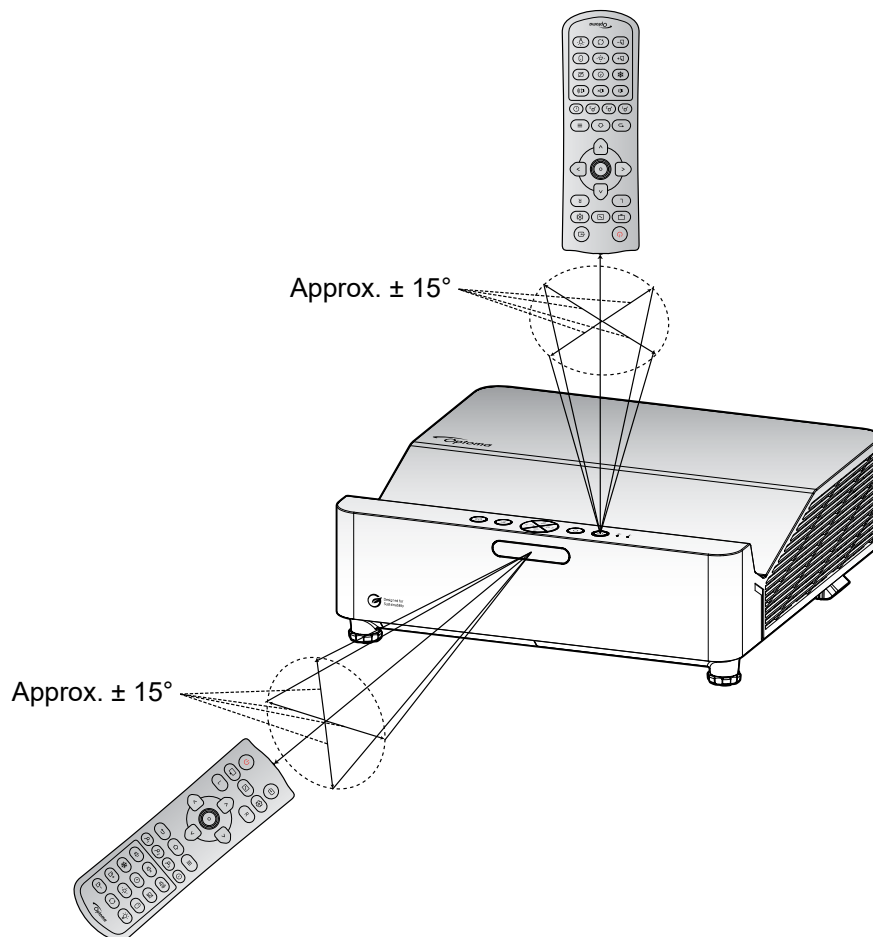
- Replacement of a battery with an incorrect type that can defeat a safeguard (AAA size battery type).
- Disposal of a battery into a fire, hot oven, mechanically crushing or cutting of a battery, may result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment 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

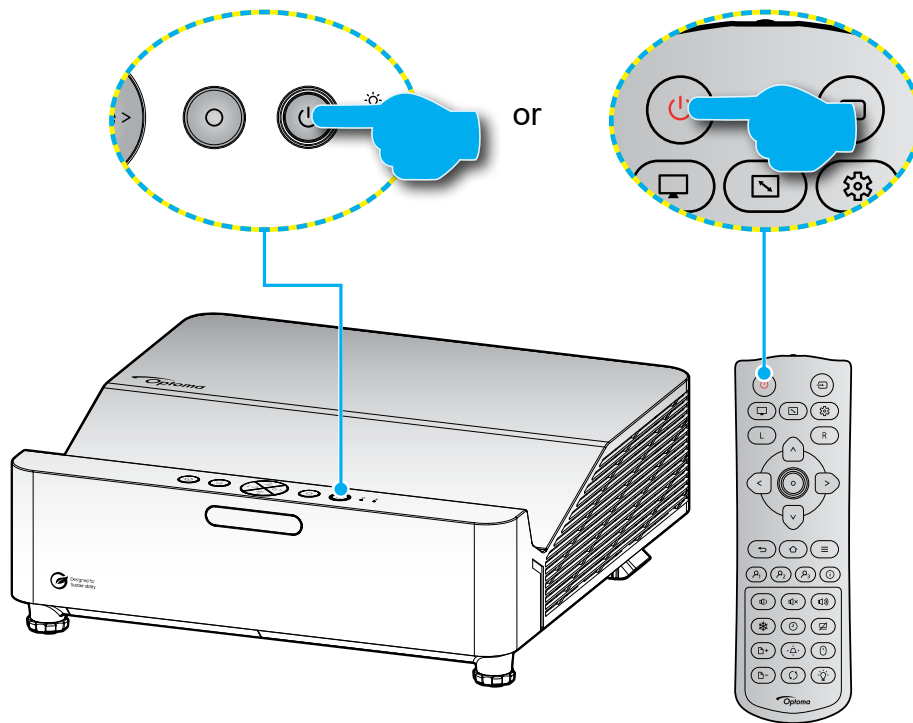
Infra-Red (IR) remote control sensor is located on the top and front sides of the projector. Ensure that the remote control is held at an angle 30 degrees perpendicular to the projector's IR remote control sensor to ensure correct functionality. The distance between the remote control and the sensor 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 away from fluorescent lamps for over 2 m or the remote controller 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

## Powering on / off the projector



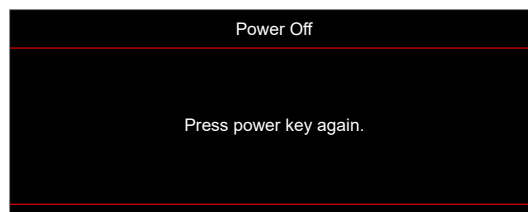
### Powering on

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

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

### Powering off

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



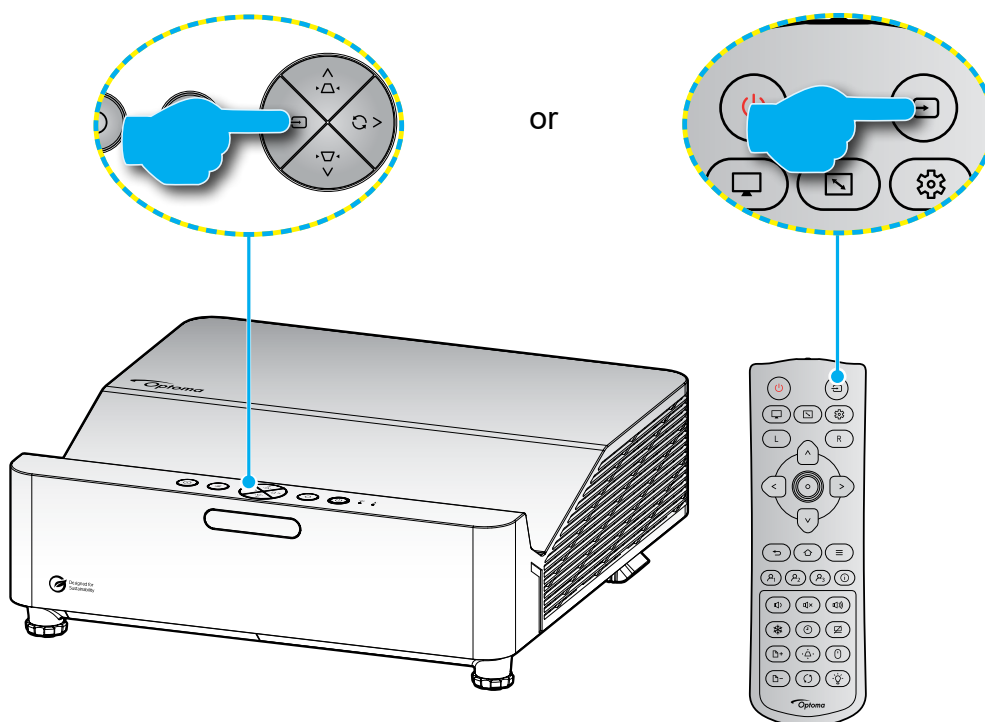
3. Press the  button again to confirm, otherwise the message will disappear after 15 seconds. When you press the  button for the second time, the projector will shut down.
4. The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the Power LED will flash blue. When the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

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

# USING THE PROJECTOR

## Selecting an input source

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

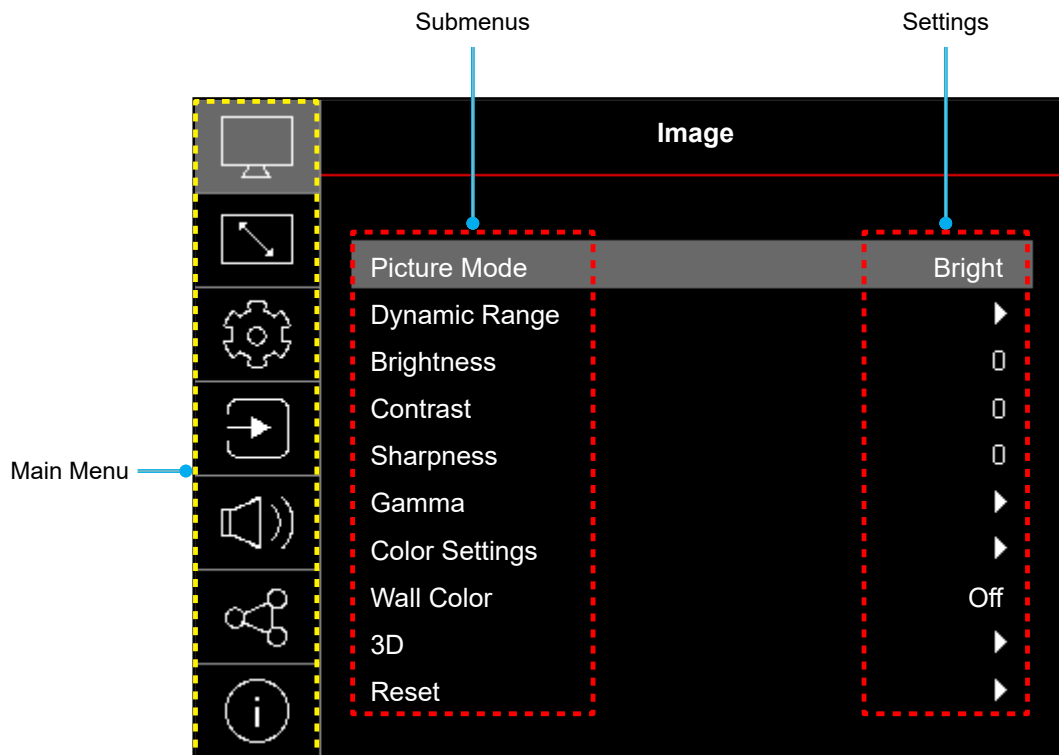


# USING THE PROJECTOR

## Menu navigation and features

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

1. To open the OSD menu, press the  $\equiv$  button on the projector keypad or remote control.
2. When OSD is displayed, use  $\wedge/\vee$  keys to select any item in the main menu. While making a selection on a particular page, press the  $\bigcirc$  button on the projector keypad or remote control to enter sub menu.
3. Use  $\lt/\gt$  keys to select the desired item in the sub menu and then press the  $\bigcirc$  button to view further settings. Adjust the settings by using  $\wedge/\vee/\lt/\gt$  keys.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press the  $\bigcirc$  button to confirm, and the screen will return to the main menu.
6. To exit, press the  $\equiv$  button again. The OSD menu will close and the projector will automatically save the new settings.



# 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 | Values                                               |
|-----------|----------------|-------------------|------------|------------|------------------------------------------------------|
| Image     | Picture Mode   |                   |            |            | Vivid                                                |
|           |                |                   |            |            | HDR                                                  |
|           |                |                   |            |            | HLG                                                  |
|           |                |                   |            |            | Cinema                                               |
|           |                |                   |            |            | Game                                                 |
|           |                |                   |            |            | Sport                                                |
|           |                |                   |            |            | Reference                                            |
|           |                |                   |            |            | Bright                                               |
|           |                |                   |            |            | DICOM SIM.                                           |
|           |                |                   |            |            | ISF Day                                              |
|           |                |                   |            |            | ISF Night                                            |
|           |                |                   |            |            | ISF 3D                                               |
|           |                |                   |            |            | 3D                                                   |
|           | Dynamic Range  | HDR               |            |            | Auto                                                 |
|           |                |                   |            |            | Off                                                  |
|           |                | HDR Brightness    |            |            | 0 ~ 10                                               |
|           | Brightness     |                   |            |            | -50 ~ 50                                             |
|           | Contrast       |                   |            |            | -50 ~ 50                                             |
|           | Sharpness      |                   |            |            | 1 ~ 15                                               |
|           | Gamma          |                   |            |            | Film                                                 |
|           |                |                   |            |            | Graphics                                             |
|           |                |                   |            |            | 1.8                                                  |
|           |                |                   |            |            | 2.0                                                  |
|           |                |                   |            |            | 2.2                                                  |
|           |                |                   |            |            | 2.4                                                  |
|           | Color Settings | Color             |            |            | -50 ~ 50                                             |
|           |                | Tint              |            |            | -50 ~ 50                                             |
|           |                | BrilliantColor™   |            |            | 1 ~ 10                                               |
|           |                | Color Temperature |            |            | Warm                                                 |
|           |                |                   |            |            | Standard                                             |
|           |                |                   |            |            | Cool                                                 |
|           |                |                   |            |            | Cold                                                 |
|           |                | CMS               | Color      |            | White / Red / Green / Blue / Cyan / Magenta / Yellow |
|           |                |                   | Hue        |            | -50 ~ 50                                             |
|           |                |                   | Saturation |            | -50 ~ 50                                             |
|           |                |                   | Gain       |            | -50 ~ 50                                             |
|           |                |                   | Reset      |            | No                                                   |
|           |                |                   |            |            | Yes                                                  |
|           |                |                   | Exit       |            |                                                      |

# USING THE PROJECTOR

| Main Menu | Sub Menu               | Sub Menu 2     | Sub Menu 3 | Sub Menu 4 | Values                                                                  |
|-----------|------------------------|----------------|------------|------------|-------------------------------------------------------------------------|
| Image     | Color Settings         | Color Space    |            |            | Auto                                                                    |
|           |                        |                |            |            | RGB(0~255)                                                              |
|           |                        |                |            |            | RGB(16~235)                                                             |
|           |                        |                |            |            | YUV                                                                     |
|           | Wall Color             |                |            |            | Off                                                                     |
|           |                        |                |            |            | Blackboard                                                              |
|           |                        |                |            |            | Light Yellow                                                            |
|           |                        |                |            |            | Light Green                                                             |
|           |                        |                |            |            | Light Blue                                                              |
|           |                        |                |            |            | Pink                                                                    |
|           |                        |                |            |            | Gray                                                                    |
|           | 3D                     | 3D Mode        |            |            | Off                                                                     |
|           |                        |                |            |            | On                                                                      |
|           |                        | 3D Sync Type   |            |            | DLP-Link                                                                |
|           |                        |                |            |            | 3D Sync                                                                 |
|           |                        | 3D Format      |            |            | Auto                                                                    |
|           |                        |                |            |            | SBS                                                                     |
|           |                        |                |            |            | Top and Bottom                                                          |
|           |                        |                |            |            | Frame Sequential                                                        |
|           |                        | 3D Sync Invert |            |            | Off                                                                     |
|           |                        |                |            |            | On                                                                      |
|           |                        | Reset          |            |            | No                                                                      |
|           |                        |                |            |            | Yes                                                                     |
|           | Reset                  |                |            |            |                                                                         |
| Display   | Projection Orientation |                |            |            | Front                                                                   |
|           |                        |                |            |            | Rear                                                                    |
|           |                        |                |            |            | Ceiling-Top                                                             |
|           |                        |                |            |            | Rear-Top                                                                |
|           | Light Source Mode      |                |            |            | Eco.                                                                    |
|           |                        |                |            |            | Power: 100% / 95% / 90% / 85% / 80% / 75% / 70% / 65% / 60% / 55% / 50% |
|           | Dynamic Black          |                |            |            | Off                                                                     |
|           |                        |                |            |            | On                                                                      |
|           | Low Latency Mode       |                |            |            | Off                                                                     |
|           |                        |                |            |            | On                                                                      |
|           | Aspect Ratio           |                |            |            | 4:3                                                                     |
|           |                        |                |            |            | 16:9                                                                    |
|           |                        |                |            |            | 21:9                                                                    |
|           |                        |                |            |            | LBX                                                                     |
|           |                        |                |            |            | Native                                                                  |
|           |                        |                |            |            | Auto                                                                    |

# USING THE PROJECTOR

| Main Menu | Sub Menu             | Sub Menu 2                                                                          | Sub Menu 3 | Sub Menu 4 | Values           |
|-----------|----------------------|-------------------------------------------------------------------------------------|------------|------------|------------------|
| Display   | Geometric Correction | V Keystone                                                                          |            |            | -5 ~ 5           |
|           |                      | H Keystone                                                                          |            |            | -5 ~ 5           |
|           |                      | Four Corners                                                                        |            |            |                  |
|           |                      | 5 x 3 Warp                                                                          |            |            |                  |
|           |                      | Reset                                                                               |            |            |                  |
|           | Digital Zoom         | Zoom                                                                                |            |            | -5 ~ 25          |
|           | Image Shift          | H  |            |            | -100 ~ 100       |
|           |                      | V  |            |            | -100 ~ 100       |
|           | Reset                |                                                                                     |            |            | No               |
|           |                      |                                                                                     |            |            | Yes              |
| Setup     | Test Pattern         |                                                                                     |            |            | Off              |
|           |                      |                                                                                     |            |            | Green Grid       |
|           |                      |                                                                                     |            |            | Magenta Grid     |
|           |                      |                                                                                     |            |            | White Grid       |
|           |                      |                                                                                     |            |            | White            |
|           | Language             |                                                                                     |            |            | English          |
|           |                      |                                                                                     |            |            | عربي             |
|           |                      |                                                                                     |            |            | Čeština          |
|           |                      |                                                                                     |            |            | Dansk            |
|           |                      |                                                                                     |            |            | Nederlands       |
|           |                      |                                                                                     |            |            | فارسی            |
|           |                      |                                                                                     |            |            | Suomi            |
|           |                      |                                                                                     |            |            | Français         |
|           |                      |                                                                                     |            |            | Deutsch          |
|           |                      |                                                                                     |            |            | ελληνικά         |
|           |                      |                                                                                     |            |            | Magyar           |
|           |                      |                                                                                     |            |            | Bahasa Indonesia |
|           |                      |                                                                                     |            |            | Italiano         |
|           |                      |                                                                                     |            |            | 日本語              |
|           |                      |                                                                                     |            |            | 한국어              |
|           |                      |                                                                                     |            |            | Norsk            |
|           |                      |                                                                                     |            |            | Polski           |
|           |                      |                                                                                     |            |            | Português        |
|           |                      |                                                                                     |            |            | Română           |
|           |                      |                                                                                     |            |            | Русский          |
|           |                      |                                                                                     |            |            | 簡體中文             |
|           |                      |                                                                                     |            |            | Español          |
|           |                      |                                                                                     |            |            | Svenska          |
|           |                      |                                                                                     |            |            | ไทย              |
|           |                      |                                                                                     |            |            | 繁體中文             |
|           |                      |                                                                                     |            |            | Türkçe           |
|           |                      |                                                                                     |            |            | Tiếng Việt       |

# USING THE PROJECTOR

| Main Menu | Sub Menu         | Sub Menu 2            | Sub Menu 3         | Sub Menu 4 | Values                                                                                           |
|-----------|------------------|-----------------------|--------------------|------------|--------------------------------------------------------------------------------------------------|
| Setup     | Menu Settings    | Menu Location         |                    |            | Top left      |
|           |                  |                       |                    |            | Top right     |
|           |                  |                       |                    |            | Center        |
|           |                  |                       |                    |            | Bottom left   |
|           |                  |                       |                    |            | Bottom right  |
|           |                  | Menu Timer            |                    |            | Off                                                                                              |
|           |                  |                       |                    |            | 5s                                                                                               |
|           |                  |                       |                    |            | 10s                                                                                              |
|           |                  |                       |                    |            | 20s                                                                                              |
|           |                  |                       |                    |            | 30s                                                                                              |
|           |                  | Information Hide      |                    |            | Off                                                                                              |
|           |                  |                       |                    |            | On                                                                                               |
|           | High Altitude    |                       |                    |            | Off                                                                                              |
|           |                  |                       |                    |            | On                                                                                               |
|           | Power Settings   | Direct Power On       |                    |            | Off                                                                                              |
|           |                  |                       |                    |            | On                                                                                               |
|           |                  | Signal Power On       |                    |            | Off                                                                                              |
|           |                  |                       |                    |            | On                                                                                               |
|           |                  | Auto Power Off (min.) |                    |            | 0 ~ 180 (1 min increments)                                                                       |
|           |                  | Sleep Timer (min.)    | Sleep Timer (min.) |            | 0 ~ 990 (30 min increments)                                                                      |
|           |                  |                       | Always On          |            | No                                                                                               |
|           |                  | Power Mode (Standby)  |                    |            | Yes                                                                                              |
|           |                  |                       |                    |            | Eco                                                                                              |
|           |                  |                       |                    |            | Active                                                                                           |
|           |                  |                       |                    |            | Active (20 mins)                                                                                 |
|           |                  |                       |                    |            | Communication                                                                                    |
|           |                  |                       |                    |            | Communication (20 mins)                                                                          |
|           | Security         | Security              |                    |            | Off                                                                                              |
|           |                  |                       |                    |            | On                                                                                               |
|           |                  | Security Timer        | Month              |            |                                                                                                  |
|           |                  |                       | Day                |            |                                                                                                  |
|           |                  |                       | Hour               |            |                                                                                                  |
|           |                  | Change Password       |                    |            |                                                                                                  |
|           | Startup Logo     |                       |                    |            | Default                                                                                          |
|           |                  |                       |                    |            | Neutral                                                                                          |
|           | Background Color |                       |                    |            | None                                                                                             |
|           |                  |                       |                    |            | Blue                                                                                             |
|           |                  |                       |                    |            | Red                                                                                              |
|           |                  |                       |                    |            | Green                                                                                            |
|           |                  |                       |                    |            | Gray                                                                                             |
|           |                  |                       |                    |            | Logo                                                                                             |

# USING THE PROJECTOR

| Main Menu | Sub Menu          | Sub Menu 2       | Sub Menu 3 | Sub Menu 4 | Values                |
|-----------|-------------------|------------------|------------|------------|-----------------------|
| Setup     | Reset             | Reset OSD        |            |            | Cancel                |
|           |                   |                  |            |            | OK                    |
|           |                   | Reset to Default |            |            | Cancel                |
|           |                   |                  |            |            | OK                    |
| Input     | Auto Source       |                  |            |            | Off                   |
|           |                   |                  |            |            | On                    |
|           | Auto Input Switch |                  |            |            | Off                   |
|           |                   |                  |            |            | On                    |
|           | HDMI CEC Settings | HDMI Link        |            |            | Off                   |
|           |                   |                  |            |            | On                    |
|           |                   | Inclusive of TV  |            |            | No                    |
|           |                   |                  |            |            | Yes                   |
|           |                   | Power On Link    |            |            | Mutual                |
|           |                   |                  |            |            | PJ → Device           |
|           |                   |                  |            |            | Device → PJ           |
|           |                   | Power Off Link   |            |            | Off                   |
|           |                   |                  |            |            | On                    |
|           | Reset             |                  |            |            | No                    |
|           |                   |                  |            |            | Yes                   |
| Audio     | Volume            |                  |            |            | 0 ~ 100               |
|           | Mute              |                  |            |            | Off                   |
|           |                   |                  |            |            | On                    |
|           | Audio Mode        |                  |            |            | Bitstream             |
|           |                   |                  |            |            | PCM                   |
|           | Reset             |                  |            |            |                       |
| Control   | Device ID         |                  |            |            | 0~99                  |
|           | Remote Settings   | IR Function      |            |            | On                    |
|           |                   |                  |            |            | Off                   |
|           |                   | User 1           |            |            | HDMI 1                |
|           |                   |                  |            |            | HDMI 2                |
|           |                   |                  |            |            | Test Pattern          |
|           |                   |                  |            |            | Brightness            |
|           |                   |                  |            |            | Contrast              |
|           |                   |                  |            |            | Sleep Timer           |
|           |                   |                  |            |            | Color Matching        |
|           |                   |                  |            |            | Color Temp            |
|           |                   |                  |            |            | Gamma                 |
|           |                   |                  |            |            | Projection            |
|           |                   |                  |            |            | Light Source Settings |
|           |                   |                  |            |            | Zoom                  |
|           |                   |                  |            |            | Freeze                |

# USING THE PROJECTOR

| Main Menu | Sub Menu        | Sub Menu 2     | Sub Menu 3 | Sub Menu 4 | Values                |
|-----------|-----------------|----------------|------------|------------|-----------------------|
| Control   | Remote Settings | User 2         |            |            | HDMI 1                |
|           |                 |                |            |            | HDMI 2                |
|           |                 |                |            |            | Test Pattern          |
|           |                 |                |            |            | Brightness            |
|           |                 |                |            |            | Contrast              |
|           |                 |                |            |            | Sleep Timer           |
|           |                 |                |            |            | Color Matching        |
|           |                 |                |            |            | Color Temp            |
|           |                 |                |            |            | Gamma                 |
|           |                 |                |            |            | Projection            |
|           |                 |                |            |            | Light Source Settings |
|           |                 |                |            |            | Zoom                  |
|           |                 |                |            |            | Freeze                |
|           |                 | User 3         |            |            | HDMI 1                |
|           |                 |                |            |            | HDMI 2                |
|           |                 |                |            |            | Test Pattern          |
|           |                 |                |            |            | Brightness            |
|           |                 |                |            |            | Contrast              |
|           |                 |                |            |            | Sleep Timer           |
|           |                 |                |            |            | Color Matching        |
|           |                 |                |            |            | Color Temp            |
|           |                 |                |            |            | Gamma                 |
|           |                 |                |            |            | Projection            |
|           |                 |                |            |            | Light Source Settings |
|           |                 |                |            |            | Zoom                  |
|           |                 |                |            |            | Freeze                |
|           | Keypad Settings | Keypad Lock    |            |            | Off                   |
|           |                 |                |            |            | On                    |
|           | LAN             | Network Status |            |            | (read only)           |
|           |                 | MAC Address    |            |            | (read only)           |
|           |                 | DHCP           |            |            | Off                   |
|           |                 |                |            |            | On                    |
|           |                 | IP Address     |            |            | 192.168.0.100         |
|           |                 | Subnet Mask    |            |            | 255.255.255.0         |
|           |                 | Gateway        |            |            | 192.168.0.254         |
|           |                 | DNS            |            |            | 192.168.0.51          |
|           |                 | Reset          |            |            |                       |

# USING THE PROJECTOR

| Main Menu   | Sub Menu              | Sub Menu 2                             | Sub Menu 3 | Sub Menu 4 | Values |  |
|-------------|-----------------------|----------------------------------------|------------|------------|--------|--|
| Control     | Control               | Crestron<br>(Port 41794)               |            |            | Off    |  |
|             |                       |                                        |            |            | On     |  |
|             |                       | Extron<br>(Port 2023)                  |            |            | Off    |  |
|             |                       |                                        |            |            | On     |  |
|             |                       | PJ Link<br>(Port 4352)                 |            |            | Off    |  |
|             |                       |                                        |            |            | On     |  |
|             |                       | AMX Device<br>Discovery<br>(Port 9131) |            |            | Off    |  |
|             |                       |                                        |            |            | On     |  |
|             | Telnet (Port 23)      |                                        |            | Off        |        |  |
|             |                       |                                        |            | On         |        |  |
|             | HTTP (Port 80)        |                                        |            | Off        |        |  |
|             |                       |                                        |            | On         |        |  |
|             | HDBaseT<br>Control    | Ethernet                               |            |            | Off    |  |
|             |                       |                                        |            |            | On     |  |
| RS232       |                       |                                        |            | Off        |        |  |
|             |                       |                                        |            | On         |        |  |
| Reset       |                       |                                        |            |            |        |  |
| Information | Regulatory            |                                        |            |            |        |  |
|             | Serial Number         |                                        |            |            |        |  |
|             | Source                |                                        |            |            |        |  |
|             | Color Info            |                                        |            |            |        |  |
|             | Light Source<br>Hours |                                        |            |            |        |  |
|             | Picture Mode          |                                        |            |            |        |  |
|             | Device ID             |                                        |            |            |        |  |
|             | Light Source<br>Mode  |                                        |            |            |        |  |
|             | FW Version            | DDP                                    |            |            |        |  |
|             |                       | MCU                                    |            |            |        |  |
|             |                       | LAN                                    |            |            |        |  |
|             |                       | HDBaseT                                |            |            |        |  |

# USING THE PROJECTOR

## Image menu

### Image picture mode menu

There are several predefined display modes that you can choose from to suit your viewing preference. Each mode has been fine-tuned by our expert colour team to ensure superior colour performance for wide range of content.

- **Vivid:** Selecting this mode balances colour saturation and brightness for a brighter display. Choose this mode for setups with ambient lighting, or where brighter images/presentations are necessary.
- **HDR / HLG:** Decodes and displays High Dynamic Range (HDR) / Hybrid Log Gamma (HLG) content for the deepest blacks, brightest whites, and vivid cinematic color using REC.2020 color gamut. This mode will be automatically enabled if HDR/HLG is set to Auto (and HDR/HLG Content is sent to projector – 4K UHD Blu-ray, 1080p/4K UHD HDR/HLG Games, 4K UHD Streaming Video). While HDR/HLG mode is active, other display modes (Cinema, Reference, etc.) cannot be selected as HDR/HLG delivers color that is highly accurate, exceeding the color performance of the other display modes.
- **Cinema:** Provides the best balance of detail and colors for watching movies.
- **Game:** Optimises your projector for maximum contrast and vivid colours allowing you to see shadow detail when playing video games.
- **Sport:** Optimises your projector for watching sports playback or playing sports games.
- **Reference:** This mode reproduces colours as close as possible the image the way the movie director intended. Color, color temperature, brightness, contrast and gamma settings are all configured to Rec.709 color gamut. Select this mode for the most accurate colour reproduction when watching movies.
- **Bright:** This mode is suitable for environments where extra-high brightness is required, such as using the projector in well-lit rooms.
- **DICOM SIM.:** This mode has been created for viewing greyscale images, perfect for viewing X-rays and scans during medical training\*.  
**Note:** *\*This projector is not suitable for use in medical diagnosis.*
- **ISF Day:** Optimize the image with the ISF Day mode to be perfectly calibrated and high picture quality.
- **ISF Night:** Optimize the image with the ISF Night mode to be perfectly calibrated and high picture quality.
- **ISF 3D:** Optimize the image with the ISF 3D mode to be perfectly calibrated and high picture quality.
- **3D:** Optimized settings for watching 3D content.  
**Note:** *To experience the 3D effect, you will need to have compatible DLP Link 3D glasses. See 3D section for more information.*

### Image dynamic range menu

#### HDR

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

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

#### HDR Brightness

Adjust the brightness of HDR Content. The impact of this setting varies based on content. Adjusting the setting to near maximum or maximum can result in a loss of image detail (content dependant).

# USING THE PROJECTOR

## Image brightness menu

Adjust the brightness of the image.

## Image contrast menu

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

## Image sharpness menu

Adjust the sharpness of the image.

## Image gamma menu

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

- **Film:** For home theater.
- **Graphics:** For PC / Photo source.
- **1.8 / 2.0 / 2.2 / 2.4:** For specific PC / Photo source.

## Image color settings menu

### Color

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

### Tint

Adjust the color balance of red and green.

### BrilliantColor™

This adjustable item utilizes a new color-processing algorithm and enhancements to enable higher brightness while providing true, more vibrant colors in picture.

### Color Temperature

Select a color temperature from Warm, Standard, Cool, or Cold.

### CMS

Select the following options:

- **Color:** Adjust the red, green, blue, cyan, yellow, magenta, and white level of the image.
- **Hue:** Adjust the color balance of red and green.
- **Saturation:** Adjust a video image from black and white to fully saturated color.
- **Gain:** Adjust the color of the image's bright areas.
- **Reset:** Return the factory default settings for color adjustment.
- **Exit:** Exit the "CMS" menu.

### Color Space

Select an appropriate color matrix type from the following: Auto, RGB(0-255), RGB(16-235), and YUV.

# USING THE PROJECTOR

## Image wall color menu

Designed to adjust the colors of the projected image when projecting on to a wall without a screen. Each mode has been fine-tuned by our expert colour team to ensure superior color performance.

There are several predefined modes that you can choose from to suit the colour of your wall. Select between off, blackboard, light yellow, light green, light blue, pink, and gray.

**Note:** *For accurate color reproduction, we recommend using a screen.*

## Image 3D menu

### **Note:**

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

### **3D Mode**

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

- **Off:** Select “Off” to turn off 3D mode.
- **On:** Select “On” to turn on 3D mode.

### **3D Sync Type**

Use this option to select 3D technology.

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

### **3D Format**

Use this option to select the appropriate 3D format content.

- **Auto:** When a 3D identification signal is detected, the 3D format is selected automatically.
- **Side by Side:** Display 3D signal in “Side-by-Side” format.
- **Top and Bottom:** Display 3D signal in “Top and Bottom” format.
- **Frame Sequential:** Display 3D signal in “Frame Sequential” format.

### **3D Sync Invert**

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

### **Reset**

Return the factory default setting for 3D settings.

- **No:** Select to cancel Reset.
- **Yes:** Select to return the factory default settings for 3D.

## Image reset menu

Return the factory default settings for image settings.

# USING THE PROJECTOR

## Display menu

### Display projection orientation menu

Select the preferred projection between front, rear, ceiling-top, and rear-top.

### Display light source mode menu

Select a light source mode depending on the installation requirements.

### Display dynamic black menu

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

### Display low latency mode menu

Enable this feature to reduce response times (input latency) during gaming to 8.6ms (1080p@120Hz). All geometry settings (example: Keystone, Four Corners) will be disabled when Low Latency Mode is enabled. For more information is below.

**Note:**

- The input lag by signals is described in the following table:
- The values in the table can vary slightly.

| Source Timing | Gaming Mode | Output Timing | Output Resolution | Input Lag |
|---------------|-------------|---------------|-------------------|-----------|
| 1080p60       | On          | 1080p60Hz     | 1080p             | 17ms      |
| 1080p120      | On          | 1080p120Hz    | 1080p             | 8.6ms*    |
| 4K60          | On          | 1080p60Hz     | 1080p             | 17ms*     |
| 1080p60       | Off         | 1080p60Hz     | 1080p             | 49.5ms    |
| 1080p120      | Off         | 1080p120Hz    | 1080p             | 25ms*     |
| 4K60          | Off         | 1080P60Hz     | 1080p             | 49.6ms*   |

# USING THE PROJECTOR

## Display aspect ratio menu

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

- **4:3**: This format is for 4:3 input sources.
- **16:9**: This format is for 16:9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- **21:9**: This format is for 21:9 input sources.
- **LBX**: This format is for non-16x9, letterbox source and if you use external 16x9 lens to display 2.35:1 aspect ratio in full resolution.
- **Native**: This format displays the original image without any scaling.
- **Auto**: Automatically selects the appropriate display format.

### 4K UHD scaling table:

| 16 : 9 screen | 480i/p                                                                                                                                                                                                                                                                               | 576i/p | 720p | 1080i/p | 2160p |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------|-------|
| 4x3           | Scale to 2880 x 2160.                                                                                                                                                                                                                                                                |        |      |         |       |
| 16x9          | Scale to 3840 x 2160.                                                                                                                                                                                                                                                                |        |      |         |       |
| LBX           | Get the central 3840 x 1620 image, and then scale to 3840 x 2160 for display.                                                                                                                                                                                                        |        |      |         |       |
| Native mode   | 1:1 mapping centered.<br>No scaling will be made; the displayed resolution depends on the input source.                                                                                                                                                                              |        |      |         |       |
| Auto          | -If source is 4:3, the screen type will be scaled to 2880 x 2160.<br>-If source is 16:9, the screen type will be scaled to 3840 x 2160.<br>-If source is 15:9, the screen type will be scaled to 3600 x 2160.<br>-If source is 16:10, the screen type will be scaled to 3456 x 2160. |        |      |         |       |

### Auto mapping rule:

|             | Input resolution |              | Auto/Scale |      |
|-------------|------------------|--------------|------------|------|
|             | H-resolution     | V-resolution | 3840       | 2160 |
| 4:3         | 800              | 600          | 2880       | 2160 |
|             | 1024             | 768          | 2880       | 2160 |
|             | 1280             | 1024         | 2880       | 2160 |
|             | 1400             | 1050         | 2880       | 2160 |
|             | 1600             | 1200         | 2880       | 2160 |
| Wide Laptop | 1280             | 720          | 3840       | 2160 |
|             | 1280             | 768          | 3600       | 2160 |
|             | 1280             | 800          | 3456       | 2160 |
| SDTV        | 720              | 576          | 2700       | 2160 |
|             | 720              | 480          | 3240       | 2160 |
| HDTV        | 1280             | 720          | 3840       | 2160 |
|             | 1920             | 1080         | 3840       | 2160 |

# USING THE PROJECTOR

## Display geometric correction menu

### V Keystone

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

### H Keystone

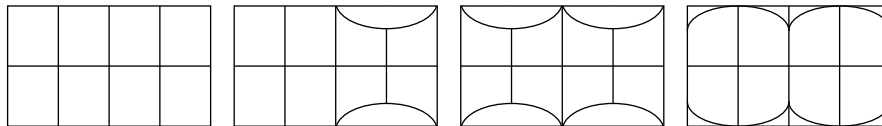
Adjust image distortion horizontally and make a squarer image. Horizontal keystone is used to correct a keystone image shape in which the left and right borders of the image are unequal in length. This is intended for use with horizontally on-axis applications.

### Four Corners

This setting allows the projected image to be adjusted from each corner to make a square image when the projection surface is not level.

### 5 x 3 Warp

Use warping to adjust the image to align with the border of the projection surface (screen) or to eliminate image distortion (cause by and uneven surface).



### Reset

Return the factory default setting for geometric correction settings.

## Display digital zoom menu

Use to reduce or magnify an image on the projection screen. Digital Zoom is not the same as optical zoom and can result in degradation of image quality.

**Note:** Zoom settings are retained on power cycle of the projector.

## Display image shift menu

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

## Display reset menu

Return the factory default settings for display settings.

# USING THE PROJECTOR

## Setup menu

### Setup test pattern menu

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

### Setup language menu

Select the multilingual OSD menu between English, Arabic, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romania, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, and Vietnam.

### Setup menu settings menu

#### Menu Location

Select the menu location on the display screen.

#### Menu Timer

Set the duration where the OSD menu stays visible on the screen.

#### Information Hide

Enable this function to hide the information message.

### Setup high altitude menu

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

### Setup power settings menu

#### Direct Power On

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

#### Signal Power On

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

#### **Note:**

- *If the “Signal Power On” option is turned “On”, the power consumption of the projector in standby mode will be over 3W.*
- *This function is applicable with HDMI source.*

#### Auto Power Off (min.)

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

# USING THE PROJECTOR

## Sleep Timer (min.)

Configure the sleep timer.

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

## Power Mode (Standby)

Set the power mode setting.

- **Eco:** Choose “Eco.” to save power dissipation further < 0.5W.
- **Active:** Choose “Active” to return to normal standby.
- **Active (20 mins):** Choose “Active (20 mins)” to let the power will decrease to less than 0.5W after 20 minutes.
- **Communication:** More power consumption that allows controlling the projector over the network.
- **Communication (20 mins):** Choose “Communication (20 mins)” to let the power will decrease to less than 0.5W after 20 minutes.

## Setup security menu

### Security

Enable this function to prompt for a password before using the projector.

- **On:** Choose “On” to use security verification when the turning on the projector.
- **Off:** Choose “Off” to be able to switch on the projector without password verification.

### Security Timer

Select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again.

### Change Password

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

## Setup startup logo menu

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

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

## Setup background color menu

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

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

# USING THE PROJECTOR

## Setup reset menu

### **Reset OSD**

Return the factory default settings for OSD menu settings.

### **Reset to Default**

Return the factory default settings for all settings.

# USING THE PROJECTOR

## Input menu

### Input auto source menu

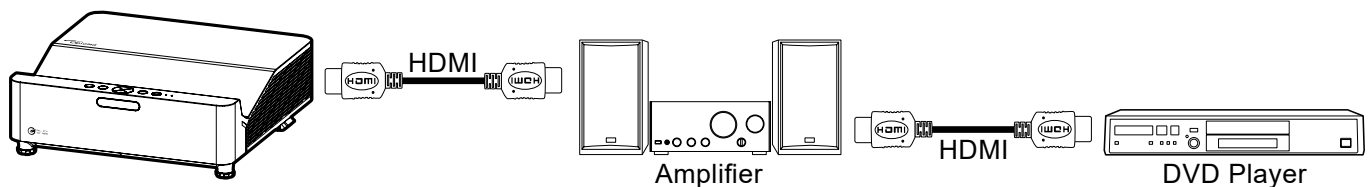
Choose this option to let the projector automatically find an available input source.

### Input auto input switch menu

When HDMI input signal is detected, the projector will automatically switch the input source.

### Input HDMI CEC settings menu

**Note:** When you connect HDMI CEC-compatible devices to the projector with HDMI cables, you can control them on the same power on or power off status using the HDMI Link control feature in the projector's OSD. This lets one device or multiple devices in a group power on or power off via HDMI Link Feature in a typical configuration, your DVD player may be connected to the projector through an amplifier or home theater system.



### HDMI Link

Enable/disable the HDMI Link function.

### Inclusive of TV

If the settings is set to "Yes" then the power on and power off link options are available.

### Power On Link

CEC power on command.

- **Mutual:** Both projector and CEC device will be turned on simultaneously.
- **PJ → Device:** The CEC device will be turned on only after the projector is switched on.
- **Device → PJ:** The projector will be switched on only after the CEC device is turned on.

### Power Off Link

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

## Input reset menu

Return the factory default settings for input settings.

# USING THE PROJECTOR

## *Audio menu*

### **Audio volume menu**

Adjust the volume level.

### **Audio mute menu**

Use this option to temporarily turn off the sound.

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

**Note:** *“Mute” function affects both internal and external speaker volume.*

### **Audio mode menu**

Select the appropriate audio mode from Bitstream and PCM.

### **Audio reset menu**

Return the factory default settings for audio settings.

# USING THE PROJECTOR

## Control menu

### Control device ID menu

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

**Note:** For a full list of RS232 commands, please refer to the RS232 user manual on our website.

### Control remote settings menu

#### IR Function

Set the IR function setting.

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

#### User 1 / User 2 / User 3

Assign the default function for User 1, User 2, or User 3 between HDMI 1, HDMI 2, Test Pattern, Brightness, Contrast, Sleep Timer, Color Matching, Color Temp, Gamma, Projection, Light Source Settings, Zoom, and Freeze.

### Control keypad settings menu

#### Keypad Lock

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

### Control LAN menu

Configure the projector’s network settings.

#### Network Status

Display the network connection status. (Read only)

#### MAC Address

Display the MAC address. (Read only)

#### DHCP

Turn on DHCP to automatically acquire IP address, subnet mask, gateway, and DNS.

#### IP Address

Assign the projector’s IP address.

#### Subnet Mask

Assign the projector’s subnet mask.

#### Gateway

Assign the projector’s gateway.

#### DNS

Assign the projector’s DNS.

# USING THE PROJECTOR

## How to use web browser to control your projector

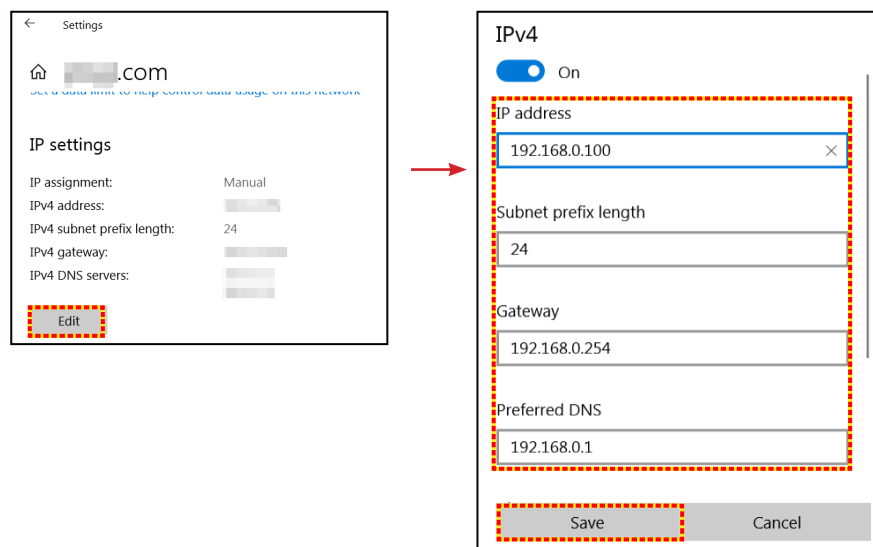
1. Turn “On” the DHCP option on projector to allow a DHCP server to automatically assign an IP address.
2. Open the web browser in your PC and type in the projector’s IP address (“Control > LAN > IP Address”).
3. Enter the user name and password, and click “Login”.  
The projector’s configuration web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

### Note:

- The default user name and password is “admin”.
- The steps in this section is based on Windows 10 operating system.

## Making a direct connection from your computer to the projector\*

1. Turn “Off” the DHCP option on the projector.
2. Configure the IP address, Subnet Mask, Gateway, and DNS on projector (“Control > LAN”).
3. Open **Network & Internet** page on your PC, and assign the identical network parameters to your PC as set on projector. Click “OK” to save the parameters.



4. Open the web browser on your PC and type in to the URL field the IP address, assigned in step 3. Then press “Enter” key.

## Reset

Reset the network settings to default factory values.

# USING THE PROJECTOR

## Control control menu

This projector can be controlled remotely by a computer or other external devices through the wired network connection. It allows the user to control one or more projectors from a remote control center, such as powering the projector on or off, and adjusting the image brightness or contrast.

Use the Control submenu to select a control device for the projector.

### **Crestron**

Control the projector with Crestron controller and related software. (Port: 41794)

For more information, please visit <http://www.crestron.com>.

### **Extron**

Control the projector with Extron devices. (Port: 2023)

For more information, please visit <http://www.extron.com>.

### **PJ Link**

Control the projector with PJLink v2.0 commands. (Port: 4352)

For more information, please visit <http://pjlink.jbmia.or.jp/english>.

### **AMX Device Discovery**

Control the projector with AMX devices. (Port: 9131)

For more information, please visit <http://www.amx.com>.

### **Telnet**

Control the projector using RS232 commands though Telnet connection. (Port: 23)

For more information, refer to “RS232 by Telnet Function” on page 52.

### **HTTP**

Control the projector with web browser. (Port: 80)

For more information, refer to “How to use web browser to control your projector” on page 43.

### **Note:**

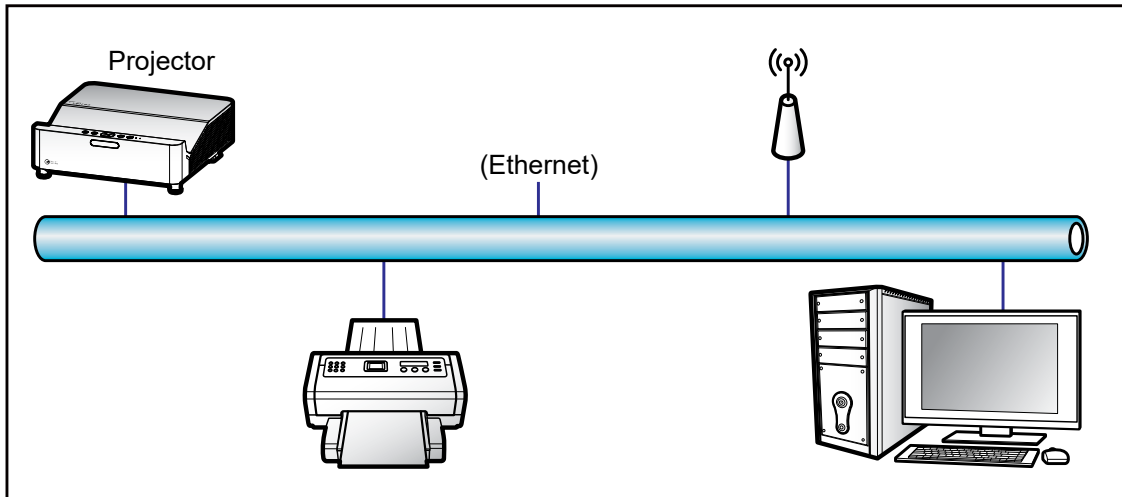
- *Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.*
- *Extron is a registered trademark of Extron Electronics, Inc. of the United States.*
- *AMX is a registered trademark of AMX LLC of the United States.*
- *PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA.*
- *For more information about the various types of external devices which can be connected to the LAN / RJ45 port and remotely control the projector, as well as the supported commands for these external devices, please contact the Support-Service directly.*

# USING THE PROJECTOR

## Setup network control settings menu

### LAN\_RJ45 function

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



### Wired LAN terminal functionalities

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

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

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

<http://www.crestron.com/>

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

<http://www.extron.com/>

This projector is supported by AMX ( Device Discovery ).

<http://www.amx.com/>

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

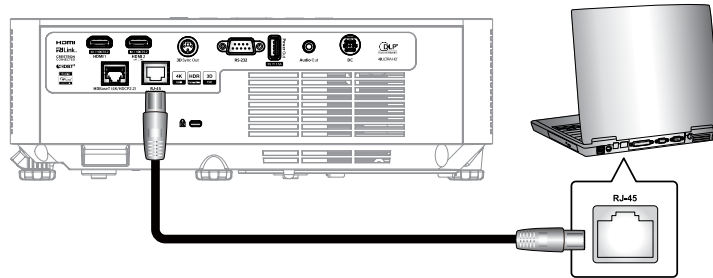
<http://pjlink.jbmia.or.jp/english/>

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

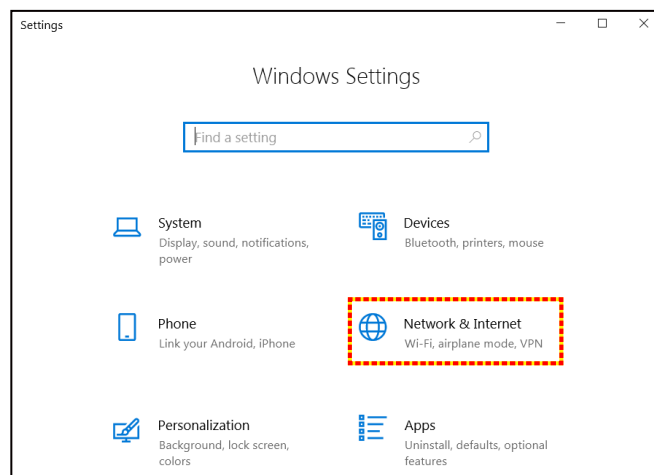
# USING THE PROJECTOR

## LAN RJ45

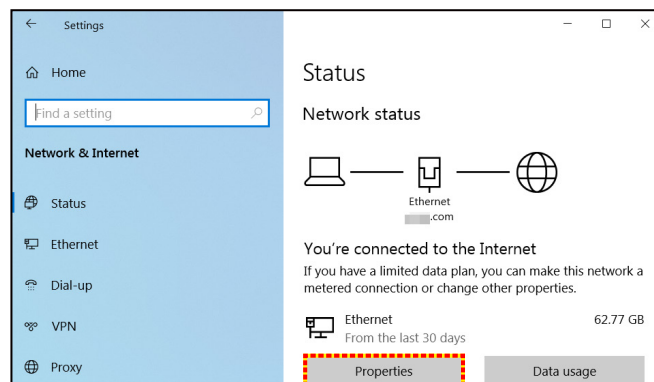
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (laptop).



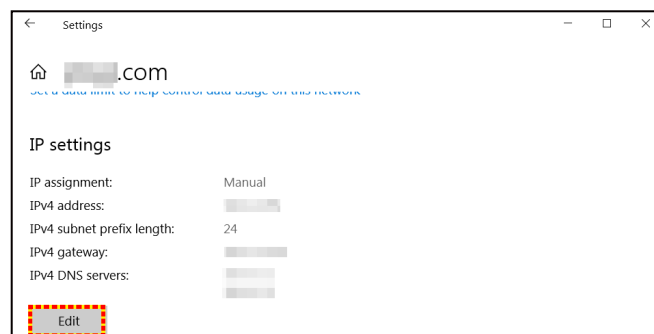
2. On the PC (Laptop), select **Start**  > **Settings**  > **Network & Internet**.



3. In the **Ethernet** section, select **Properties**.

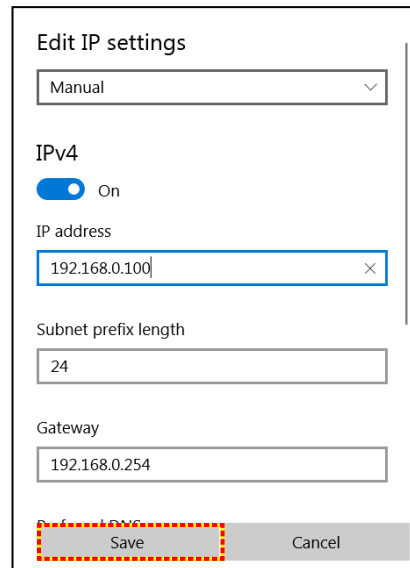


4. In the **IP settings** section, select **Edit**.



# USING THE PROJECTOR

5. Type in the IP address and Gateway, then select “Save”.



Edit IP settings

Manual

IPv4

On

IP address

192.168.0.100

Subnet prefix length

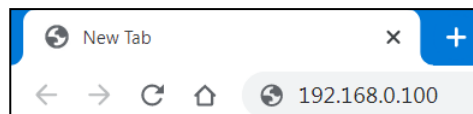
24

Gateway

192.168.0.254

Save Cancel

6. Press the “Menu” button on the projector.
7. Open on projector **Control > LAN**.
8. Enter the following connection parameters:
  - DHCP: Off
  - IP Address: 192.168.0.100
  - Subnet Mask: 255.255.255.0
  - Gateway: 192.168.0.254
  - DNS: 192.168.0.51
9. Press “Enter” to confirm settings.
10. Open a web browser, for example Microsoft Edge or Chrome with Adobe Flash Player 9.0 or higher installed.
11. In the Address bar, input the projector’s IP address: 192.168.0.100.



12. Press “Enter”.

# USING THE PROJECTOR

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

*Log in*

When you open the web page for the first time, you will see a screen like the one below. Please enter valid user password.

**Optoma** Projector Web Server  
Device Name:Optoma UHD

**General Setup**

**Change Username and Password for Webpage**

Enter Username:

Enter New Password:

Confirm new password:

- Avoid reusing passwords.
- Password cannot be blank.
- Password needs to be at least eight single-byte characters in length and use a mix of the following 3 types of letters.
  - Uppercase letters
  - Lowercase letters
  - Digits
- The username and password are used by the Web Control function. \*Changing the current settings may interrupt the connection. For details, refer to the user's manual.

**PJLink Settings**

New password:

Confirm password:

- Avoid reusing passwords.
- The password is used for the communication control via a LAN. \*Changing the current settings may interrupt the connection. For details, refer to the user's manual.

Apply

When you open the web page after entering a valid password, you will see a screen like the one below. Enter the password in the “Password” field.

**Optoma** Projector Web Server  
Device Name:Optoma UHD

**General Setup**

Username:

Password:

Login

# USING THE PROJECTOR

## System Status

The current status of the projector is displayed. You can check projector model name, firmware version, current LAN configuration, and change the interface language if needed.

The version name displayed on the web page in the diagram may differ from the actual display.

The screenshot shows the 'System Status' page of the Optoma Device Web Server. The page has a sidebar with navigation links: System Status, General Setup, Device control, Network Setup, Alert Setup, OMS, Crestron, Reset to Default, and Reboot System. The main content area displays the following information:

| Model Name |            |
|------------|------------|
| Model Name | Optoma UHD |

| Device Name |            |
|-------------|------------|
| Device Name | Optoma UHD |

| FW Version |     |
|------------|-----|
| System     | B05 |

| LAN |     |
|-----|-----|
| LAN | L02 |

| LAN Status      |                   |
|-----------------|-------------------|
| IP Address      | 192.168.0.100     |
| Subnet Mask     | 255.255.255.0     |
| Default Gateway | 192.168.0.254     |
| MAC Address     | 00:50:41:B3:75:5B |

At the bottom, there is a language dropdown menu set to 'English' and an 'Apply' button.

## General Setup

The projector name set here is also used in PJLink control. Only alphanumeric characters can be used as projector name. The maximum number of characters is 32.

You can use only alphanumeric characters in the password. The minimum number of characters is 8. If you enter an invalid character, "Invalid Character" warning is displayed.

If the characters of new password and the characters of confirm (new) password do not match, error message will be displayed. In this case, re-enter the password.

The screenshot shows the 'General Setup' page of the Optoma Device Web Server. The page has a sidebar with navigation links: System Status, General Setup, Device control, Network Setup, Alert Setup, OMS, Crestron, Reset to Default, and Reboot System. The main content area displays the following information:

Device Name:

**Change Username and Password for Webpage**

Enter Username:

Enter Old Password:

Enter New Password:

Confirm new password:

**PJLink Settings**

PJLink Password: ☐ Enable ☒ Disable

Current password:

New password:

Confirm password:

On the right side of the password fields, there are two lists of instructions:

- Change Username and Password for Webpage:**
  - Avoid reusing passwords.
  - Password cannot be blank.
  - Password needs to be at least eight single-byte characters in length and use a mix of the following 3 types of letters:
    - Uppercase letters
    - Lowercase letters
    - Digits
  - The username and password are used by the Web Control function. "Changing the current settings may interrupt the connection. For details, refer to the user's manual."
- PJLink Settings:**
  - Avoid reusing passwords.
  - The password is used for the communication control via a LAN. "Changing the current settings may interrupt the connection. For details, refer to the user's manual."

# USING THE PROJECTOR

## Device Control

You can control the projector with this item. The items for control are described in this section.  
Control button: When you click a button, the corresponding function will be performed.



Device Web Server

Device Name:Optoma UHD

Logout

Admin > Device control

System Status

General Setup

Device control

Network Setup

Alert Setup

OMS

Crestron

Reset to Default

Reboot System

Power On

Power Off

Reset

Resync

Auto Source

AV Mute

Freeze

3D Format

Auto

L/R Reverse

Input

HDMI1

Image

Brightness

0

Contrast

0

Sharpness

12

Picture Mode

Vivid

Audio

Volume

20

Management

Aspect Ratio

Auto

Auto Power Off

20

Light Source Mode

Eco

## Network Setup

Set the network of the projector.



Device Web Server

Device Name:Optoma UHD

Logout

Admin > Network Setup

System Status

General Setup

Device control

Network Setup

Alert Setup

OMS

Crestron

Reset to Default

Reboot System

IP Setup

DHCP

On

Off

IP Address

192

168

0

100

Subnet Mask

255

255

255

0

Default Gateway

192

168

0

254

DNS Servers 1

192

168

0

51

DNS Servers 2

0

0

0

0

Apply

LAN Control

Crestron

On

Off

Extron

On

Off

PJLink

On

Off

AMX

On

Off

Telnet

On

Off

Apply

# USING THE PROJECTOR

## Alert Setup

You can send email alerts when an error occurs. You can carry out settings for alert mail in this section.

1. Alert types: Check the type of error for which you want to send alert mail.
2. Alert mail notification: Check and perform the following settings:
  - SMTP Setting: Set the following:
    - a) SMTP Server: Server address (server name) (SMTP server)
    - b) From: e-mail address of the sender
    - c) User Name: User name of the mail server
    - d) Password: Mail server password.
  - Email Setting: Set the following:
    - a) Mail Subject
    - b) Mail Content
    - c) To: Enter the e-mail address of the sender.
3. Click “Apply” to fix the value.
4. Enter the IP address of projector in \*xxx.xxx.xxx.xxx.
5. Send Test Mail.

When you click [Send Test Mail], test email will be sent. The text will be “Email Test xxx.xxx.xxx.xxx \*”.

The screenshot shows the 'Alert Setup' page of the Optoma Device Web Server. The page has a header with the Optoma logo, 'Device Web Server', and 'Device Name: Optoma UHD'. A 'Logout' button is in the top right. A left sidebar contains navigation links: System Status, General Setup, Device control, Network Setup, Alert Setup (selected), OMS, Crestron, Reset to Default, and Reboot System. The main content area is titled 'Admin > Alert Setup'. It includes 'Alert Type' checkboxes for Fan Error, High Temp Warning, and Light Source Error. The 'Alert Mail Notification' checkbox is checked. Below this are two sections: 'SMTP Settings' and 'Email Settings'. The SMTP Settings section includes fields for SMTP Port (25), Encryption (radio buttons for None, SSL, STARTTLS), SMTP Server, From, Username, and Password. The Email Settings section includes fields for Mail Subject, Mail Content, and To. At the bottom right of the form are 'Apply' and 'Send Test Mail' buttons.

# USING THE PROJECTOR

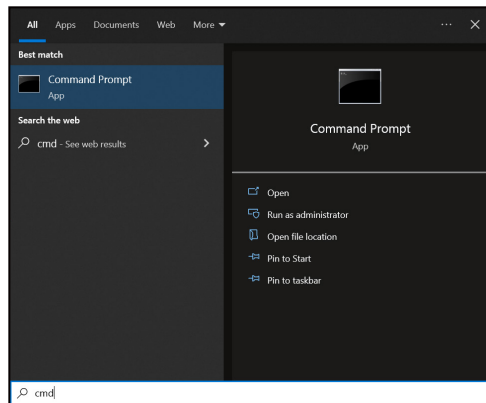
RS232 by Telnet Function

## RS232 by Telnet Function

As an alternative method of control, this projector has RS232 command control by TELNET for LAN / RJ45 interface.

### Quick Start-Guide for “RS232 by Telnet”

- Check and get the IP address on OSD of the projector.
  - Make sure that the PC / laptop can access the web-page of the projector.
  - Make sure that “Windows Firewall” setting is set to disabled in case of “TELNET” function filtering out by PC / laptop.
1. Click on **Search**  and then enter “cmd” as a search word. Press the “Enter” key.



2. Open the Command Prompt app.
3. Input the command format as follows:
  - telnet ttt.xxx.yyy.zzz 23 (“Enter” key pressed)
  - (ttt.xxx.yyy.zzz: IP-Address of the projector)
4. If Telnet-Connection ready, and user can have RS232 command input, then press the “Enter” key and Telnet connection should be ready for RS232 command control.

### Specification for “RS232 by TELNET”:

1. Telnet: TCP.
2. Telnet port: 23 (for further details, please contact the Optoma service team).
3. Telnet utility: Windows “TELNET.exe” (console mode).
4. To end the Telnet session, just close the Command Prompt app window.
5. Windows Telnet utility directly after TELNET connection ready.
  - Limitation 1 for Telnet-Control: There cannot be more than 50 bytes for successive network payload for Telnet-Control application.
  - Limitation 2 for Telnet-Control: There cannot be more than 26 bytes for successive RS232 command for Telnet-Control.
  - Limitation 3 for Telnet-Control: Minimum delay for next command must be more than 200 (ms).

# USING THE PROJECTOR

## Control HDBaseT control menu

### Ethernet/RS232

The projector can automatically detect the Ethernet or RS232 signal from the HDBaseT transmitter supplied. For an automatic detection, make sure the respective signal is enabled.

## Control reset menu

Return the factory default settings for control settings.

## *Information menu*

### Information menu

View the projector information as listed below:

- Regulatory
- Serial Number
- Source
- Color Info
- Light Source Hours
- Picture Mode
- Device ID
- Light Source Mode
- FW Version

# ADDITIONAL INFORMATION

## Compatible resolutions

### *Input Signal for HDMI/HDBaseT*

| Signal      | Resolution | Refresh Rate (Hz)  | Notes for Mac |
|-------------|------------|--------------------|---------------|
| VGA         | 640x480    | 60/67/72/75        | Mac 60/75     |
|             | 720x400    | 70                 |               |
| SVGA        | 800x600    | 56/60/72/75        | Mac 60/75     |
|             | 832x624    | 75                 | Mac 75        |
| XGA         | 1024x768   | 60/70/75/120       | Mac 60/70/75  |
| SDTV(480P)  | 720x480    | 60                 |               |
| SDTV(576P)  | 720x576    | 50                 |               |
| HDTV(720P)  | 1280x720   | 50/60/120          | Mac 60        |
| WXGA        | 1280x800   | 60                 | Mac 60        |
| SXGA        | 1280x1024  | 60/75              | Mac 60/75     |
|             | 1440x900   | 60                 |               |
| SXGA+       | 1400x1050  | 60                 |               |
| UXGA        | 1600x1200  | 60                 |               |
| HDTV(1080i) | 1920x1080  | 50/60              |               |
| HDTV(1080p) | 1920x1080  | 24/50/60/120/240Hz | Mac 60        |
| WQHD        | 2560x1440  | 120                |               |
| UHD(2160p)  | 3840x2160  | 24/30/50/60        |               |
|             | 4096x2160  | 24/60              |               |

# ADDITIONAL INFORMATION

## True 3D Video Compatibility

|                   |                    |                     |                    |                               |
|-------------------|--------------------|---------------------|--------------------|-------------------------------|
| Input resolutions | HDMI 1.4a 3D Input | Input timing        |                    |                               |
|                   |                    | 1280 x 720P @ 50Hz  | Top-and-Bottom     |                               |
|                   |                    | 1280 x 720P @ 60Hz  | Top-and-Bottom     |                               |
|                   |                    | 1280 x 720P @ 50Hz  | Frame packing      |                               |
|                   |                    | 1280 x 720P @ 60Hz  | Frame packing      |                               |
|                   |                    | 1920 x 1080i @ 50Hz | Side-by-Side(Half) |                               |
|                   |                    | 1920 x 1080i @ 60Hz | Side-by-Side(Half) |                               |
|                   |                    | 1920 x 1080P @ 24Hz | Top-and-Bottom     |                               |
|                   |                    | 1920 x 1080P @ 24Hz | Frame packing      |                               |
|                   | HDMI 1.3           | 1920 x 1080i @ 50Hz | Side-by-Side(Half) | SBS mode is on                |
|                   |                    | 1920 x 1080i @ 60Hz |                    |                               |
|                   |                    | 1280 x 720P @ 50Hz  |                    |                               |
|                   |                    | 1280 x 720P @ 60Hz  |                    |                               |
|                   |                    | 800 x 600 @ 60Hz    |                    |                               |
|                   |                    | 1024 x 768 @ 60Hz   |                    |                               |
|                   |                    | 1280 x 800 @ 60Hz   | Top-and-Bottom     | TAB mode is on                |
|                   |                    | 1920 x 1080i @ 50Hz |                    |                               |
|                   |                    | 1920 x 1080i @ 60Hz |                    |                               |
|                   |                    | 1280 x 720P @ 50Hz  |                    |                               |
|                   |                    | 1280 x 720P @ 60Hz  |                    |                               |
|                   |                    | 800 x 600 @ 60Hz    |                    |                               |
|                   |                    | 1024 x 768 @ 60Hz   |                    |                               |
|                   |                    | 1280 x 800 @ 60Hz   | Frame Sequential   | 3D format is Frame sequential |
|                   |                    | 1024 x 768 @ 120Hz  |                    |                               |
|                   |                    | 1280x 720 @ 120Hz   |                    |                               |

### Note:

- If 3D input is 1080p@24Hz, the DMD should replay with integral multiple with 3D mode
- 1080i@25Hz and 720p@50Hz will run in 100Hz; other 3D timing will run in 120Hz.
- 1080p@24Hz will run 144Hz.

# ADDITIONAL INFORMATION

## EDID (Digital)

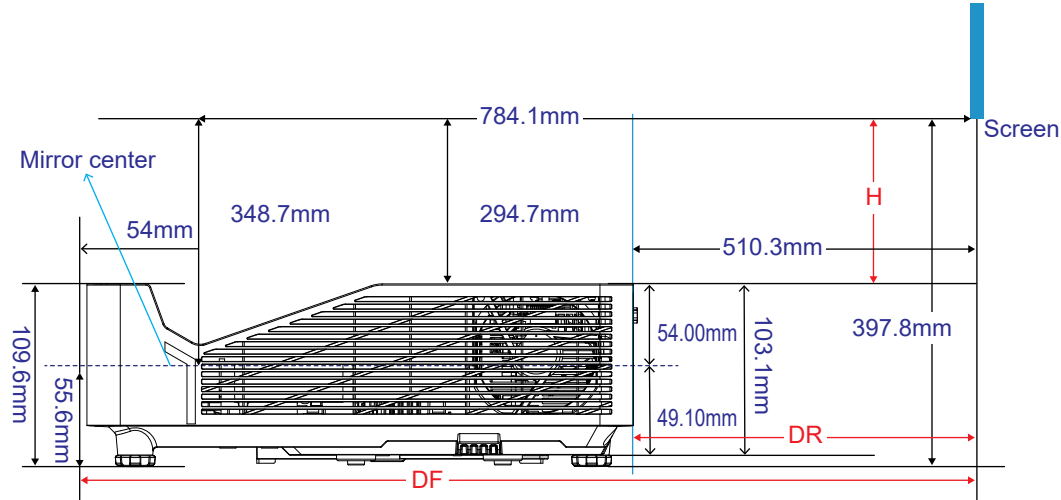
| HDMI 1/2 & HDBaseT for 2.0 |          |                         |        |                       |        |                       |        |                       |        |
|----------------------------|----------|-------------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|--------|
| B0 /<br>Established Timing |          | B0 /<br>Standard Timing |        | B0 /<br>Detail Timing |        | B1 /<br>Video Mode    |        | B1 /<br>Detail Timing |        |
| Resolution                 | V [Hz]   | Resolution              | V [Hz] | Resolution            | V [Hz] | Resolution            | V [Hz] | Resolution            | V [Hz] |
| 720x400                    | 70.0     | 1024x768                | 120.0  | 3840x2160             | 60.0   | 640x480p 4:3          | 60.0   | 2560x1440             | 120.00 |
| 640x480                    | 60.0     | 1280x720                | 60.0   |                       |        | 720x576p 16:9         | 50.0   | 1920x1080             | 240.00 |
| 640x480                    | 66.6(67) | 1280x720                | 120.0  |                       |        | 720x480p 16:9         | 60.0   |                       |        |
| 640x480                    | 72.0     | 1280x800                | 60.0   |                       |        | 1280x720p 16:9        | 50.0   |                       |        |
| 640x480                    | 75.0     | 1280x1024               | 60.0   |                       |        | 1280x720p 16:9        | 60.0   |                       |        |
| 800x600                    | 56.0     | 1440x900                | 60.0   |                       |        | 1920x1080i 16:9       | 60.0   |                       |        |
| 800x600                    | 60.0     | 1400x1050               | 60.0   |                       |        | 1920x1080i 16:9       | 50.0   |                       |        |
| 800x600                    | 72.0     | 1600x1200               | 60.0   |                       |        | 1920x1080p 16:9       | 24.0   |                       |        |
| 800x600                    | 75.0     |                         |        |                       |        | 1920x1080p 16:9       | 50.0   |                       |        |
| 832x624                    | 75.0     |                         |        |                       |        | 1920x1080p 16:9       | 60.0   |                       |        |
| 1024x768                   | 60.0     |                         |        |                       |        | 1920x1080p 16:9       | 120.0  |                       |        |
| 1024x768                   | 70.0     |                         |        |                       |        | 2560x1080p 64:27      | 50.0   |                       |        |
| 1024x768                   | 75.0     |                         |        |                       |        | 2560x1080p 64:27      | 60.0   |                       |        |
| 1280x1024                  | 75.0     |                         |        |                       |        | 3840x2160p 16:9       | 24.0   |                       |        |
| 1152x870                   | 75.0     |                         |        |                       |        | 3840x2160p 16:9       | 30.0   |                       |        |
|                            |          |                         |        |                       |        | 3840x2160p 16:9       | 50.0   |                       |        |
|                            |          |                         |        |                       |        | 3840x2160p 16:9       | 60.0   |                       |        |
|                            |          |                         |        |                       |        | 4096x2160p<br>256:135 | 24.0   |                       |        |
|                            |          |                         |        |                       |        | 4096x2160p<br>256:135 | 60.0   |                       |        |

| Audio Data                 | eARC | ARC | LPCM |
|----------------------------|------|-----|------|
| Format                     |      |     |      |
| LPCM(IEC 60958 PCM[30,31]) | V    | V   | V    |
| Dolby Digital              | V    | V   |      |
| DTS                        |      | V   |      |
| Dolby Digital Plus         | V    | V   |      |
| DTS-HD                     | V    |     |      |
| Dolby TrueHD/MAT           | V    |     |      |

# ADDITIONAL INFORMATION

## Image size and projection distance

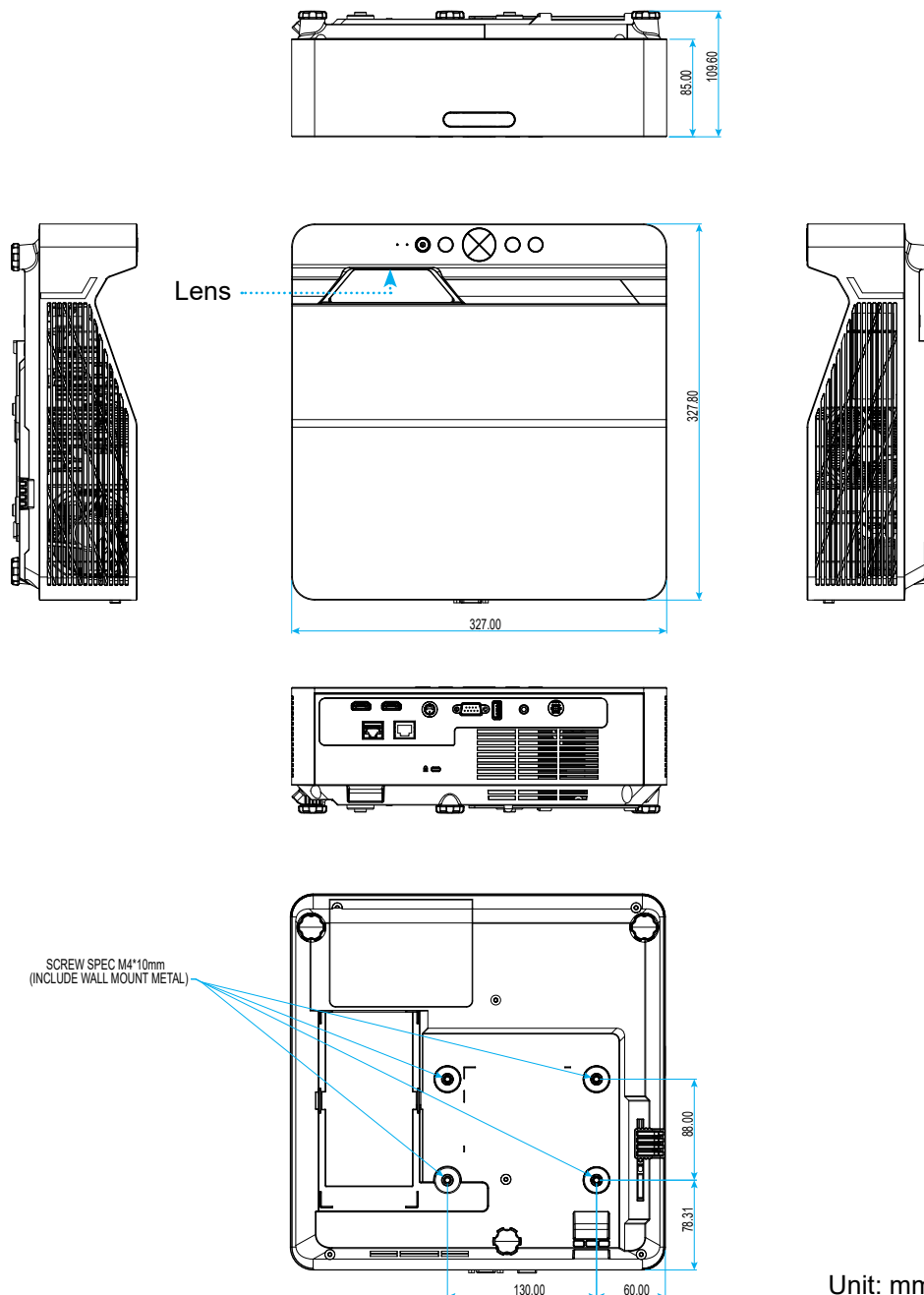
| Image Size<br>(inch) | DF    |        | DR    |        | H<br>Offset=115% ~ 125% |                |
|----------------------|-------|--------|-------|--------|-------------------------|----------------|
|                      | m     | inch   | m     | inch   | m                       | inch           |
| 100                  | 0.614 | 24.177 | 0.286 | 11.271 | 0.133 ~ 0.257           | 5.228 ~ 10.131 |
| 110                  | 0.670 | 26.382 | 0.342 | 13.476 | 0.151 ~ 0.288           | 5.963 ~ 11.356 |
| 120                  | 0.726 | 28.587 | 0.398 | 15.682 | 0.17 ~ 0.32             | 6.699 ~ 12.582 |
| 130                  | 0.782 | 30.792 | 0.454 | 17.887 | 0.189 ~ 0.351           | 7.434 ~ 13.808 |
| 140                  | 0.838 | 32.997 | 0.510 | 20.092 | 0.208 ~ 0.436           | 8.17 ~ 17.159  |
| 150                  | 0.894 | 35.202 | 0.566 | 22.297 | 0.226 ~ 0.467           | 8.905 ~ 18.385 |



# ADDITIONAL INFORMATION

## Projector dimensions and ceiling mount installation

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



Unit: mm

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



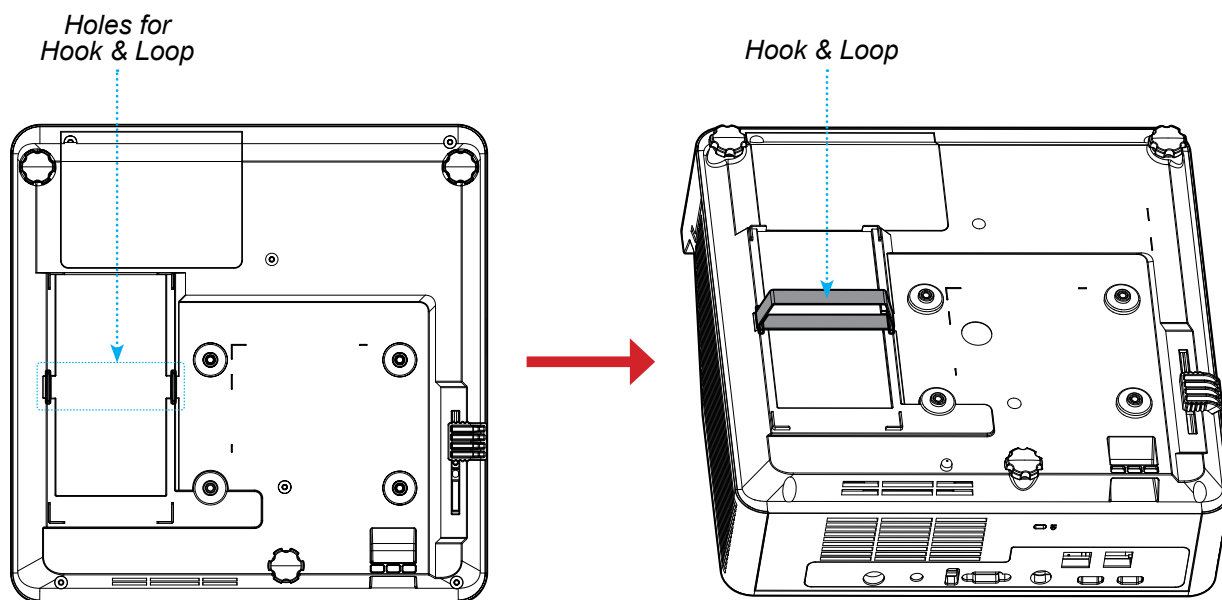
Warning:

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

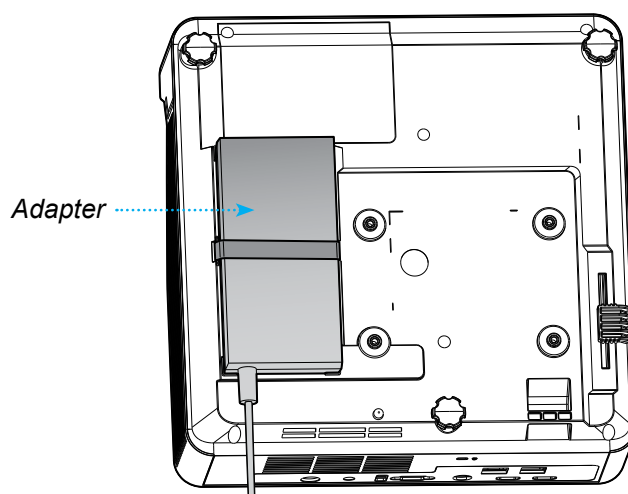
# ADDITIONAL INFORMATION

For ceiling mounting, you could purchase a cable tie whose length is over 350mm to fix the AC adapter if needed.

1. Install the cable tie to the designated holes on the bottom of the projector. Then place the AC adapter onto its slot.

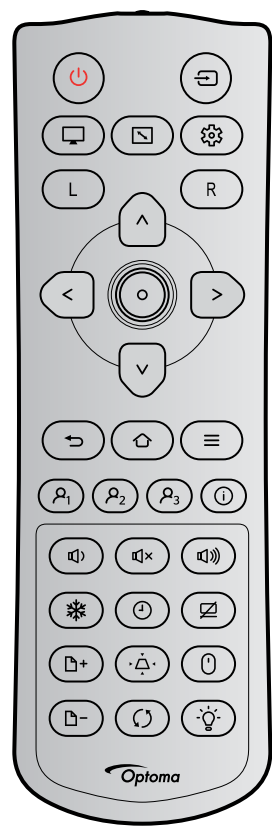


2. Place the AC adapter onto its slot, then secure it with the cable tie.



# ADDITIONAL INFORMATION

## IR remote control codes



| Key               |                                                                                     | Repeat Format | NEC Code    |        |        |        | Description                                            |
|-------------------|-------------------------------------------------------------------------------------|---------------|-------------|--------|--------|--------|--------------------------------------------------------|
|                   |                                                                                     |               | Custom Code |        | Data   |        |                                                        |
|                   |                                                                                     |               | Byte 1      | Byte 2 | Byte 3 | Byte 4 |                                                        |
| Power             |  | F1            | 32          | CD     | 02     | FD     | Press to turn on / off the projector.                  |
| Source            |  | F1            | 32          | CD     | C3     | 3C     | Press to select an input signal.                       |
| Display Mode      |  | F1            | 32          | CD     | 5      | FA     | Press to change the Display mode of a displayed image. |
| Aspect Ratio      |  | F1            | 32          | CD     | 64     | 9B     | Press to change the aspect ratio of a displayed image. |
| Setup Menu        |  | F1            | 32          | CD     | A8     | 57     | Press to enter the Setup menu.                         |
| Mouse Left Click  | L                                                                                   | F1            | 32          | CD     | CB     | 34     | Left Mouse Button                                      |
| Mouse Right Click | R                                                                                   | F1            | 32          | CD     | CC     | 33     | Right Mouse Button                                     |

# ADDITIONAL INFORMATION

| Key                                  |     | Repeat Format | NEC Code    |        |        |        | Description                                                                                                                                    |
|--------------------------------------|-----|---------------|-------------|--------|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |     |               | Custom Code |        | Data   |        |                                                                                                                                                |
|                                      |     |               | Byte 1      | Byte 2 | Byte 3 | Byte 4 |                                                                                                                                                |
| Four directional select keys (Up)    | ⤴   | F2            | 32          | CD     | 11     | EE     | Press to select items or make adjustments to your selection.                                                                                   |
| Four directional select keys (Left)  | ⬅   | F2            | 32          | CD     | 10     | EF     |                                                                                                                                                |
| Four directional select keys (Right) | ➡   | F2            | 32          | CD     | 12     | ED     |                                                                                                                                                |
| Four directional select keys (Down)  | ⬇   | F2            | 32          | CD     | 14     | EB     |                                                                                                                                                |
| Enter                                | ⓪   | F1            | 32          | CD     | 0F     | F0     | Confirm your item selection.                                                                                                                   |
| Return                               | ↩   | F1            | 32          | CD     | 0D     | F2     | Press to return to the previous menu.                                                                                                          |
| Home                                 | 🏠   | F1            | 32          | CD     | A0     | 5F     | Press to return to the main menu when OSD in sub menu.<br>- No function when no OSD display.<br>- No function when shortcut menu is displayed. |
| Menu                                 | ☰   | F1            | 32          | CD     | 0E     | F1     | Press to display or exit the on-screen display menus.                                                                                          |
| User 1                               | Ⓐ₁  | F1            | 32          | CD     | 36     | C9     | Press to enter the assigned function.                                                                                                          |
| User 2                               | Ⓐ₂  | F1            | 32          | CD     | 65     | 9A     | Press to enter the assigned function.                                                                                                          |
| User 3                               | Ⓐ₃  | F1            | 32          | CD     | 66     | 99     | Press to enter the assigned function.                                                                                                          |
| Information                          | ℹ   | F1            | 32          | CD     | 25     | DA     | Press to enter the Information menu.                                                                                                           |
| Volume -                             | 🔊-  | F2            | 32          | CD     | 8F     | 70     | Press to decrease the volume.                                                                                                                  |
| Mute                                 | 🔊×  | F1            | 32          | CD     | 52     | AD     | Press to momentarily turn off / on the audio.                                                                                                  |
| Volume +                             | 🔊+) | F2            | 32          | CD     | 8C     | 73     | Press to increase the volume.                                                                                                                  |
| Freeze                               | ❄   | F1            | 32          | CD     | 6      | F9     | Press to freeze the projector image.                                                                                                           |
| Sleep Timer                          | ⌚   | F1            | 32          | CD     | 63     | 9C     | Press to set the countdown timer.                                                                                                              |
| AV Mute                              | 🔊/  | F1            | 32          | CD     | 3      | FC     | Press to hide / unhide the screen picture and turn off / on audio.                                                                             |
| Page Up                              | 📄+  | F2            | 32          | CD     | C1     | 3E     | Press to page up.                                                                                                                              |
| Keystone                             | ⤴·⤵ | F1            | 32          | CD     | 7      | F8     | Press to adjust image distortion caused by tilting the projector.                                                                              |
| Mouse                                | 🖱   | F1            | 32          | CD     | 3E     | C1     | Press to On / Off the USB mouse function.                                                                                                      |
| Page Down                            | 📄-  | F2            | 32          | CD     | C2     | 3D     | Press to page down.                                                                                                                            |

# ADDITIONAL INFORMATION

| Key               |                                                                                   | Repeat Format | NEC Code    |        |        |        | Description                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|---------------|-------------|--------|--------|--------|-----------------------------------------------------------------------------------------------|
|                   |                                                                                   |               | Custom Code |        | Data   |        |                                                                                               |
|                   |                                                                                   |               | Byte 1      | Byte 2 | Byte 3 | Byte 4 |                                                                                               |
| Resync            |  | F1            | 32          | CD     | C4     | 3B     | Press to automatically synchronize the projector to the input source.                         |
| Light Source Mode |  | F1            | 32          | CD     | 0A     | F5     | Press to automatically adjust the picture brightness to give an optimum contrast performance. |

# ADDITIONAL INFORMATION

## Troubleshooting

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

### Image problems

-  *No image appears on-screen*
- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
  - Ensure the pins of connectors are not crooked or broken.
  - Ensure that the "Mute" feature is not turned on.
-  *Image is out of focus*
- Slide the focus lever up or down until the image is sharp and legible. (Please see page 18).
  - Make sure the projection screen is between the required distance from the projector. (Please refer to page 57).
-  *The image is stretched when displaying 16:9 DVD title*
- When you play anamorphic DVD or 16:9 DVD, the projector will show the best image in 16: 9 format on projector side.
  - If you play 4:3 format DVD title, please change the format as 4:3 in projector OSD.
  - Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.
-  *Image is too small or too large*
- Move the projector closer to or further from the screen.
  - Press "Menu" on the projector panel, go to "Display → Aspect Ratio". Try the different settings.
-  *Image has slanted sides:*
- If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen.
-  *Image is reversed*
- Select "Display → Projection Orientation" from the OSD and adjust the projection direction.

# ADDITIONAL INFORMATION

## Other problems



*The projector stops responding to all controls*

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

## Remote control problems



*If the remote control does not work*

- Check the operating angle of the remote control is pointed within  $\pm 15^\circ$  to the IR receiver on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 6 m (19.7 ft) of the projector.
- Make sure batteries are inserted correctly.
- Replace batteries if they are exhausted.

# ADDITIONAL INFORMATION

## Warning indicators

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

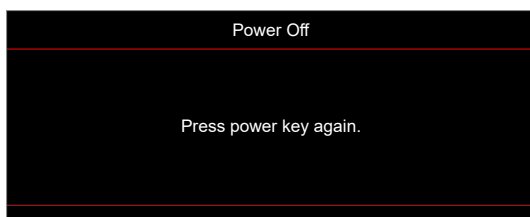
- “Lamp” LED indicator is lit red and if “Power” indicator flashes red.
- “Temp” LED indicator is lit red and if “Power” indicator flashes red. This indicates the projector has overheated. Under normal conditions, the project can be switched back on.
- “Temp” LED indicator flashes red and if “Power”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

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

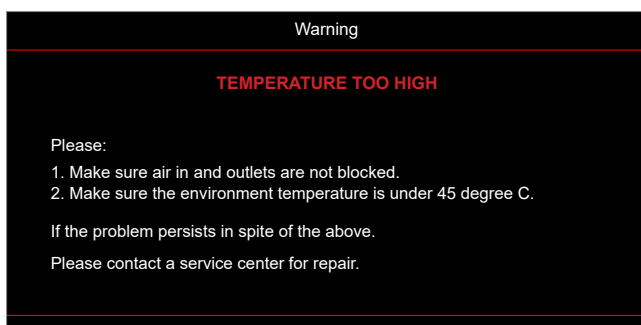
## LED lightning messages

| Message                             | Power LED       |                                                                                                       | Temp LED     | Lamp LED     |
|-------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------|--------------|--------------|
|                                     | (Red)           | (Blue)                                                                                                | (Red)        | (Red)        |
| Standby state<br>(Input power cord) | Breathing light |                                                                                                       |              |              |
| Power on (Warming)                  |                 | Flashing<br>(0.5 sec off /<br>0.5 sec on)                                                             |              |              |
| Power on and Lamp lighting          |                 | Steady light                                                                                          |              |              |
| Power off (Cooling)                 |                 | Flashing<br>(0.5 sec off /<br>0.5 sec on). Back to<br>red steady light when<br>cooling fan turns off. |              |              |
| Error (Lamp failure)                | Flashing        |                                                                                                       |              | Steady light |
| Error (Fan failure)                 | Flashing        |                                                                                                       | Flashing     |              |
| Error (Over temp.)                  | Flashing        |                                                                                                       | Steady light |              |

- Power off:



- Temperature warning:



# ADDITIONAL INFORMATION

## Specifications

| Item                      |              | Description                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Resolution         |              | 3840x2160 (with 4-Way Actuator)                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum Resolution        |              | HDMI(HDMI 2.0): 3840x2160@60Hz                                                                                                                                                                                                                                                                                                                                                                       |
| Lens                      | Throw ratio  | 0.253                                                                                                                                                                                                                                                                                                                                                                                                |
|                           | F-stop       | 2.44                                                                                                                                                                                                                                                                                                                                                                                                 |
|                           | Focal length | -3.7mm                                                                                                                                                                                                                                                                                                                                                                                               |
|                           | Zoom range   | Fixed zoom                                                                                                                                                                                                                                                                                                                                                                                           |
| Image size                |              | 100" ~ 150" optimized @140"                                                                                                                                                                                                                                                                                                                                                                          |
| Projection distance       |              | 510mm± 5% @140"                                                                                                                                                                                                                                                                                                                                                                                      |
| I/Os                      |              | <ul style="list-style-type: none"> <li>• HDMI In 2.0 x2</li> <li>• USB Type-A x1 (5V/1.5A, dedicated for power out/TI FW upgraded)</li> <li>• 3D Sync Out x1 (Mini DIN 3-pin connector)</li> <li>• LAN Control In/Out x1 (RJ-45 connector)</li> <li>• HDBaseT In x1 (RJ-45 connector)</li> <li>• Audio Out x1 (ø3.5mm Phone jack)</li> <li>• RS232 x1 (D-sub 9-pin)</li> <li>• DC-In jack</li> </ul> |
| Colour                    |              | 1073.4 Million color                                                                                                                                                                                                                                                                                                                                                                                 |
| Scan rate                 |              | <ul style="list-style-type: none"> <li>• Horizontal scan rate: 15KHz ~ 150KHz</li> <li>• Vertical scan rate: 24Hz ~240Hz</li> </ul>                                                                                                                                                                                                                                                                  |
| Speaker                   |              | 15W x1, output power 8W ±10%                                                                                                                                                                                                                                                                                                                                                                         |
| Power consumption         |              | <ul style="list-style-type: none"> <li>• Typical: (Spoke mode) <ul style="list-style-type: none"> <li>⇒ 255W ±15% @110VAC</li> <li>⇒ 250W ±15% @220VAC</li> </ul> </li> <li>• Typical: (ECO mode) <ul style="list-style-type: none"> <li>⇒ 180W ±15% @110VAC</li> <li>⇒ 178W ±15% @220VAC</li> </ul> </li> </ul>                                                                                     |
| Input current             |              | DC 24V, 10.41A                                                                                                                                                                                                                                                                                                                                                                                       |
| Installation orientations |              | 360° projection + portrait                                                                                                                                                                                                                                                                                                                                                                           |
| Dimensions (W x D x H)    |              | <ul style="list-style-type: none"> <li>• Without feet: 327 x 327.8 x 85 mm</li> <li>• With feet: 327 x 327.8 x 109.6 mm</li> </ul>                                                                                                                                                                                                                                                                   |
| Weight                    |              | <ul style="list-style-type: none"> <li>• 4.2 ±0.5 kg (net)</li> <li>• 6.7 ±0.5 kg (gross)</li> </ul>                                                                                                                                                                                                                                                                                                 |
| 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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