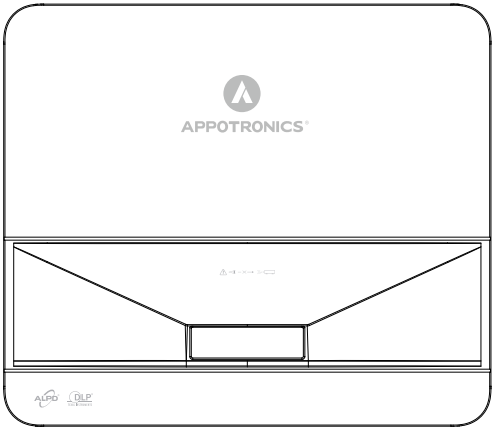
# Ultra Short Throw Laser Projector User Manual

AL-UK535A




- Pleas  read this manual carefully before using this product and keep it properly for future reference.
- Please read "Important Safety Instructions" carefully before using this product

# Declaration

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## Warranty

Under normal use and storage conditions, Shenzhen Appotronics Corporation Ltd. provides warranty on any materials and process defects of this product. Proof of purchase date must be provided when you require the warranty service. If this product is found to be defective during the warranty period, the sole obligation of Shenzhen Appotronics Corporation Ltd. and the exclusive remedy are to replace any defective parts (including service charge). When you find the product you purchase is defective, immediately notify the dealer to obtain the warranty service.
IMPORTANT: If the customer fails to use this product in accordance with the written instructions, the above warranty will not apply. Ensure that the ambient humidity is between 10% and 90% and the ambient temperature is between 0°C and 40°C. Avoid using this projector in a dusty environment.
For additional information, please visit www.appotronics.com.

Important: Si le client n'utilise pas le produit conformément aux instructions écrites, la garantie ci - dessus ne s'appliquera pas. En particulier, l'humidité ambiante doit être comprise entre 10 et 90% et la température entre 0 et 40 ºC. N'utilisez pas le projecteur dans un environnement poussiéreux.

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# Important Safety Instructions

## General Safety Instructions

- Please read this manual carefully before using this equipment and keep it for future reference.
- All warnings listed on this projector and listed in this manual should be observed.
- Strictly observe all instructions on operations and usage.
- Strictly observe all local installation standards.

## Security Tips

This device complies with international safety standards UL 62368-1, CSA C22.2 No. 62368-1. These standards are safety standards for information technology equipment that are subject to stringent requirements for the use of critical safety components, components, materials and insulators in order to protect the user and operator from the following hazards:

- Electric shock
- Energy-related hazards
- Fire
- Heat-related hazards
- Mechanical hazards
- Radiation
- Chemical hazards

Only qualified maintenance personnel who are familiar with such hazards can open the product shell to perform maintenance operations.

Terms:

- Maintenance personnel:
  Refer to the professional personnel who may use the training and skills to avoid possible harms to themselves or others when they are in the maintenance contact area or the device in the restricted contact area has obvious dangers.
- Users:
  Refer to all persons except maintenance personnel.

# Important Safety Instructions

Instructions gÕnÕrales de sécuritÕ
Lisez attentivement ce manuel avant d'utiliser cet appareil et conservez - le pour rÕfÕrence future.
L'équipement doit être installé, exploité et entretenu par des professionnels qualifiés autorisés par la sociétÕ.
Tous les avertissements énumérés dans ce projecteur et dans ce manuel doivent être respectÕs.
Suivez strictement toutes les instructions d'utilisation et d'utilisation.
Strict respect de toutes les normes d'installation locales.

Conseils de sécuritÕ
Cet appareil est conforme à la norme de sécurité internationale ul 62368 - 1, CSA c22.2 No. 62368 - 1. Il s'agit de normes de sécurité pour les équipements de technologie de l'information qui imposent des exigences strictes pour l'utilisation de composants, de composants, de matériaux et d'isolants de sécurité critiques afin de protÕger les utilisateurs et les opérateurs contre:

- électrocution
- risques liés à l'Õnergie
- le feu
- dangers liés à la chaleur
- risques mécaniques
- rayonnement
- risques chimiques

En outre, ces normes augmentent les limites sur de nombreux aspects tels que les niveaux de montée en tempÕrature interne et externe, les niveaux de rayonnement, la stabilité mécanique et la rÕsistance, la structure périphérique et les dispositifs de protection contre l'incendie. Même si le fonctionnement normal de l'appareil est dÕfaillant, un seul test de simulation de défaut peut garantir que l'appareil peut utiliser des fusibles, des disjoncteurs thermiques, des dispositifs de protection contre les surintensités et des dispositifs similaires pour fournir une protection adéquate au corps humain.
Ce manuel est destiné aux utilisateurs autorisés uniquement à des fins professionnelles et ces personnes doivent être familiarisées avec les dangers potentiels que ce produit peut prÕsenter. Seul un personnel d'entretien qualifié et familier avec ces dangers peut ouvrir le boîtier du produit pour les opérations d'entretien.

Termes:
Personnel de maintenance:
Désigne un professionnel qui peut utiliser sa formation et ses compÕtences pour éviter de se blesser ou de blesser d'autres personnes lorsqu'il existe un danger évident pour l'entretien d'un équipement dans une zone de contact ou dans une zone de contact restreinte.
Utilisateurs:
Désigne tout le personnel sauf le personnel de maintenance.

# Important Safety Instructions

## ■ Preventing the risk of electric shock

- The projector should use AC power. Make sure that the main voltage and capacitance match the rated power of the projector. If the installation environment cannot meet the AC power requirements, please contact the electrician.
- The installation can only be carried out by qualified technical personnel in accordance with local electrical codes and regulations.
- This device uses a three-terminal power cable that includes a single-phase line that protects the ground wire (PE). If the installation environment cannot meet the AC power requirements, please contact the electrician. Do not ignore the role of grounding.
- Turn off the power to the projector and unplug the power cord to cut off all power connections from the projector.
- If you need to extend the cable, use a power cable with the current rated value not lower than that of the projector. If the rated value of the power cable is lower than the current value of the projector, it may cause overheating.
- Do not disassemble the projector. When it needs to be maintained or repaired, hand it over to a trained and authorized service person.
- Do not spill any liquid on the projector.
- To better protect the product during thunderstorms or when it is not used for a long period of time, unplug the power plug from the wall socket. This can prevent lightning or power line surges from causing damage to the projector.

## ■ Preventing personal injury

- To prevent personal injury and physical damage, refer to this manual and all the labels on the system before plugging the power plug into the electrical outlet, or commissioning the projector.
- To prevent injury, ensure that the lens and all covers are installed correctly.
- Before attempting to move or remove the projector, turn off the projector and unplug the power plug from the wall socket.
- When you need to turn off the projector to access internal parts, you must disconnect the power cable from the power supply. If the projector's power input is not accessible (for example, in ceiling-mounted installation mode), install a common disconnect device that is easily accessible in the fixed wiring.
- As with any bright source, do not stare into the direct beam, RG2 IEC 62471-5:2015.
- Do not observe the end of the laser beam while the device is running. Laser radiation is harmful to the human eye and may cause injury.

# Important Safety Instructions

Instructions de sécurité importantes
Protection contre les risques d'Òlectrocution
Le projecteur doit utiliser une alimentation secteur. Assurez - vous que la tension principale et la capacité correspondent à la puissance nominale du projecteur. Si l'environnement d'installation ne répond pas aux exigences d'alimentation ca, contactez un électricien.
L'installation ne peut être effectuée que par un technicien qualifié conformément aux codes et rÒglementations électriques locaux.
L'appareil utilise un câble d'alimentation à trois extrÒmités, qui comprend une ligne monophasée protÒgeant le fil de terre (PE). Si l'environnement d'installation ne répond pas aux exigences d'alimentation ca, contactez un électricien. Ne nÒgligez pas le rôle de la mise à la terre.
Éteignez le projecteur et débranchez le cordon d'alimentation pour couper toutes les connexions d'alimentation du projecteur.
Si vous avez besoin d'un câble d'extension, utilisez un cordon d'alimentation dont le courant nominal n'est pas inférieur à celui du projecteur. Si le cordon d'alimentation est évalué en dessous de la valeur actuelle du projecteur, il peut provoquer une surchauffe.
Ne démontez pas le projecteur. Lorsque l'entretien ou les rÒparations sont nÒcessaires, confiez - les à un personnel de service formé et autorisÒ.
Ne pas éclabousser de liquide sur le projecteur.
Pour mieux protÒger le produit en cas d'orage ou de non - utilisation prolongée, dÒbranchez la prise électrique de la prise murale. Cela empêche la foudre ou les surtensions du cordon d'alimentation d'endommager le projecteur.

Protection contre les blessures personnelles
Pour éviter les blessures et les dommages physiques, reportez - vous à ce manuel et à toutes les étiquettes du système avant de brancher une prise électrique dans une prise électrique ou de déboguer Le projecteur.
Pour éviter les blessures, assurez - vous que la lentille et tous les couvercles sont correctement installÒs.
Éteignez le projecteur et débranchez la prise électrique de la prise murale avant d'essayer de le déplacer ou de le retirer.
Lorsque vous devez éteindre le projecteur pour accéder aux composants internes, vous devez déconnecter le cordon d'alimentation de l'alimentation. Si vous ne pouvez pas accéder à l'entrée d'alimentation du projecteur (par exemple, en mode de montage au plafond), installez un dispositif de déconnexion universel facilement accessible dans le câblage fixe.
Comme pour toute source lumineuse, ne regardez pas le faisceau lumineux direct, rg2 IEC 62471 - 5: 2015.
Ne regardez pas la fin du faisceau laser pendant que l'appareil est en marche. Le rayonnement laser est nocif pour l'œil humain et peut causer des dommages.

# Important Safety Instructions

## ■ Preventing damages to the projector

- When using the projector, be sure to open the lens shutter or remove the lens cover.
- If there is any abnormality in the projector, unplug the power cable immediately. Do not continue to use the projector when it comes to smoke or makes strange noise or odor. In this case, immediately unplug the power cable and then contact the dealer.
- Keep the original shipping box and packing material. You can use it again when you need to transport the equipment. In order to maximize the protection of the equipment, re-package it in accordance with the original packaging at the factory.
- Before cleaning the device, unplug the power plug from the electrical outlet. Do not use cleaners or spray cleaners, but use a damp cloth for cleaning. Do not use irritating solvents, such as thinners, gasoline, or corrosive cleaners, as they can cause damage to the case. You can use a damp cloth and a mild detergent to remove stubborn stains.
- To ensure maximum optical performance and resolution, the projection lens is coated with a special anti-reflective coating, so avoid touching the lens. If you need to remove dust from the lens, use a soft cloth instead of a damp cloth, cleanser or thinner.
- Do not place this projector on an unstable vehicle, shelf or table. Because it will cause serious damage once the projector is dropped. Functions may be affected. Therefore, you should replace them. For example, damages such as cracks or deep scratches may occur.

## ■ Preventing fire

- The design and manufacture of the projector conforms to the most stringent safety requirements. Putting the flammable material near the projector may cause the material to ignite itself, causing a fire. Once fire occurs, be sure to use sand, $CO_2$ or dry powder fire extinguishers. Do not use water to fire when an electrical fire occurs.
- It is advisable to leave a "quarantine" around all the outer surfaces of the projector. No flammable material shall be placed in this area. Do not use any material to cover the projector or lens while the projector is working.
- Do not block the vents around the projector. Do not place paper or other objects in the range of 10 cm (4 inches) around the projector.
- The slots on the projector are used for ventilation and heat dissipation. To ensure reliable operation of the projector and to prevent it from overheating, do not block or cover these slots. The projector should not be attached to walls or other similar surfaces to prevent clogging of these slots. The projector should not be placed near the radiator or heat regulator. Unless the ventilation is good, the projector should not be placed in the embedded device or enclosed device.
- If the projector is not used for a long period of time, remove the power cable.

# Important Safety Instructions

**Prévention des dommages au projecteur**
Assurez - vous d'ouvrir l'obturateur de l'objectif ou de retirer le capuchon de l'objectif lorsque vous utilisez le projecteur.
Si le projecteur prÕsente des anomalies, débranchez immédiatement le cordon d'alimentation. Ne continuez pas à utiliser le projecteur lorsqu'il fume ou émet des bruits ou des odeurs étranges. Dans ce cas, débranchez immédiatement le cordon d'alimentation et contactez votre revendeur.
Conservez la boîte d'expédition d'origine et les matériaux d'emballage. Vous pouvez l'utiliser à nouveau lorsque vous avez besoin de transporter l'Õquipement. Pour une protection maximale de l'Õquipement, veuillez le reconditionner dans l'emballage d'origine de votre usine.
DÕbranchez la prise électrique de la prise électrique avant de nettoyer l'appareil. N'utilisez pas de détergent ou de Spray nettoyant, utilisez plutôt un chiffon humide pour le nettoyage. Ne pas utiliser de solvants irritants,
Ou des nettoyants agressifs, car ils peuvent endommager le boîtier. Vous pouvez enlever les taches tenaces avec un chiffon humide et un nettoyant doux.
Pour garantir des performances optiques et une résolution maximales, l'objectif de projection est revÙtu d'un revÙtement antireflet spécial, évitant ainsi tout contact avec l'objectif. Si vous avez besoin d'enlever la poussière de vos lentilles, utilisez un chiffon doux au lieu d'un chiffon humide, d'un nettoyant ou d'un diluant.
Ne placez pas ce projecteur sur un véhicule instable, une étagÕre ou une table. Parce qu'une fois que le projecteur tombe, il peut causer de graves dommages. La fonctionnalité peut être affectée. Vous devez donc les remplacer. Par exemple, des dommages tels que des fissures ou des rayures profondes peuvent survenir.

**Ignifuge**
Les projecteurs sont conçus et fabriqués pour rÕpondre aux exigences de sécurité les plus strictes. Placer un matériau inflammable près du projecteur peut provoquer une inflammation spontanée du matériau, provoquant un incendie. Une fois
Utilisez toujours un extincteur à sable, au dioxyde de carbone ou à poudre sèche en cas d'incendie. Ne pas éteindre avec de l'eau en cas d'incendie électrique.
Il est recommandé de laisser une "zone d'isolement" autour de toutes les surfaces extÕrieures du projecteur. Aucun matériau inflammable ne doit être placé dans cette zone.
N'utilisez aucun matériau pour couvrir le projecteur ou l'objectif pendant que le projecteur fonctionne.
Ne pas obstruer les évents autour du projecteur. Ne placez pas de papier ou d¯autres objets à moins de 10 cm (4 Po) autour du projecteur.
Fentes sur le projecteur pour la ventilation et la dissipation de chaleur. Pour assurer un fonctionnement fiable du projecteur et l'empêcher de surchauffer, ne pas obstruer ou masquer ces emplacements. Le projecteur ne doit pas être fixé à un mur ou à une autre surface similaire pour empêcher ces emplacements de se boucher. Le projecteur ne doit pas être placé à proximité d'un radiateur ou d'un rÕgulateur de chaleur. Le projecteur ne doit pas être placé dans un appareil encastré ou fermé, à moins que la ventilation ne soit bonne.
La salle de projection doit être bien ventilée ou équipée d'un dispositif de refroidissement pour éviter l'accumulation de chaleur. L'air chaud sortant du projecteur doit pouvoir être Õvacué à l'extérieur du bâtiment.
Si le projecteur n'est pas utilisé pendant une longue période, débranchez le cordon d'alimentation.

# Important Safety Instructions

## FCC RF Radiation Exposure Statement:

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user’ s authority to operate the equipment.

Note: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user 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 equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This product is not a gerenal customer product and is limited to operate in a specific scene.

Avertissement: les utilisateurs doivent être conscients que les changements ou modifications qui ne sont pas expressément approuvés par la partie responsable de la réglementation de l'OCDE peuvent entraîner l'incapacité de l'utilisateur à utiliser l'appareil.

Remarque: cet appareil a été testé pour répondre aux limites des appareils numériques de classe B conformément à la partie 15 des règles de la FCC. Ces restrictions visent à assurer une protection raisonnable des installations résidentielles contre les perturbations nuisibles. L'appareil produit, utilise et émet de l'énergie RF qui, si elle n'est pas installée et utilisée conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si l'appareil cause des interférences nuisibles à la réception de la radio ou de la télévision (qui peuvent être déterminées en éteignant et en allumant l'appareil), l'utilisateur est encouragé à tenter de corriger les interférences en prenant une ou plusieurs des mesures suivantes:
- redirection ou repositionnement de l'antenne de réception.
- augmenter l'intervalle entre l'appareil et le récepteur.
- Connecter l'appareil à une prise sur un circuit différent de celui auquel le récepteur est connecté.
- consultez votre revendeur ou un technicien radio / tv expérimenté pour obtenir de l'aide.

Ce produit n'est pas un produit de client général et est limité à fonctionner dans des scénarios spécifiques.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

# Important Safety Instructions

## Déclaration d'exposition aux rayonnements RF de la FCC:

L'appareil est conforme aux limites d'exposition aux radiations spécifiées par la FCC pour les environnements non contrôlés. Lors de l'installation et de l'utilisation de cet appareil, la distance minimale entre le radiateur et toute partie du corps doit être de 20 cm.

## FCC Compliance Statement:

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.

Déclaration de conformité FCC:
Cet appareil est conforme à la partie 15 des règles de la FCC. Les opérations sont soumises aux deux conditions suivantes:
(1) L'appareil ne provoque pas d'interférences nuisibles et
(2) l' appareil doit accepter toute interférence reçue, y compris celles qui peuvent entraîner un fonctionnement indésirable.

## ISED Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada' s licence-exempt RSS(s). Operation is subject to the following two conditions:
1.This device may not cause interference.
2.This device must accept any interference, including interference that may cause undesired operation of the device.

## Déclaration ISDE

L' émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L' exploitation est autorisée aux deux conditions suivantes :
1.L' appareil ne doit pas produire de brouillage;
2.L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil ettoutes les personnes.

the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour uneutilisation à l' intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

# Important Safety Instructions

## CE Statement

European Community (EC) directives conformity
This product complies with the requirements of EU Directives 2014/35/EU, 2014/30/EU, 2011/65/EU and Commission Regulation (EC) No 1275/2008 and harmonized standards of the these laws of the Member States relating to safety of electrical equipment, electromagnetic compatibility and eco-design requirement and on the restriction of the use of certain hazardous substances.

A declaration of conformity to the requirements of the Directives is available upon request from the Authorized Representative.
This product satisfies the Class B limits of EN 55032 and safety requirements of EN 60950.

## WEEE Directive

<Waste Electrical and Electronic Product Recycling Management Regulations>
Send the product to the local qualified recycling units when it is discarded.
<Waste battery>
This product contains the battery. Send the product to the local qualified recycling units when it is discarded.

## Meaning of Laser Safety Label

⚠ Caution

- Do not stare into the beam.
- Ne regardez pas dans le faisceau.
- RG2

Laser radiation warning sign
Panneau d'avertissement de rayonnement laser

# Overview

## About This Manual

Repair: Only trained and qualified service technicians (understand laser safety, UV radiation, high voltage and connected circuits that create all the potential hazards) can open the projector for repair.

Disclaimer: Appotronics Co., Ltd. has endeavored to ensure the accuracy and reliability of the information provided in this document. However, as the product continues to improve, the information in this document is subject to change without notice. Appotronics Co., Ltd. is not responsible for omissions or inaccurate information. The updated version of this document is issued on a regular basis as needed. Please contact Appotronics Co., Ltd. to obtain the latest version.

## Safety Warnings and Guides

- Labels and Tags
- Etiquettes et étiquettes

Observe and follow all warnings and instructions marked on the projector.
Observez et suivez tous les avertissements et instructions marqués sur le projecteur.

Caution – As with any bright light source, do not stare into the beam, RG2 IEC 62471-5:2015
Avertissement – comme pour toute source lumineuse vive, ne regardez pas le faisceau, RG2 IEC62471 - 5: 2015

Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure
Avertissement - l'utilisation de procédures de contrôle, de réglage ou d'exécution autres que celles spécifiées dans le présent document peut entraîner une exposition dangereuse aux rayonnements

Laser-illuminated projectors – although generally Class 1 laser products during operation – usually contain Class 4 embedded lasers. Service shall be performed only by authorized, trained servicing personnel (IEC 60825-1).
Les projecteurs d'éclairage Laser - Bien qu'ils soient généralement des produits laser de classe 1 pendant lefonctionnement - contiennent généralement des Lasers intégrés de classe 4. L'entretienne doit être effectué que par dupersonnel d'entretien autorisé et qualifié (IEC 60825 - 1).

Optical Radiation warning symbol, Hazard RG2.
Symbole d'avertissement de rayonnement optique, danger RG2.

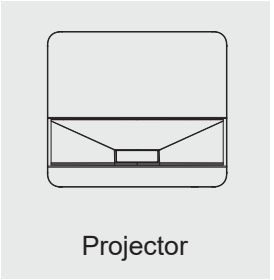
- General Warning Information
- Avertissement général

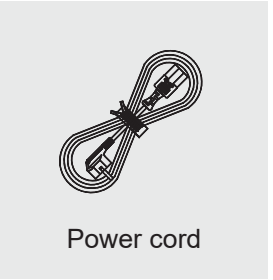
This symbol alerts users to notice important information about the operation and maintenance. Please read this information carefully to avoid problems.
Ce symbole rappelle à l'utilisateur des informations importantes sur l'exploitation et l'entretien. Veuillez lire attentivement cette information pour éviter tout problème.

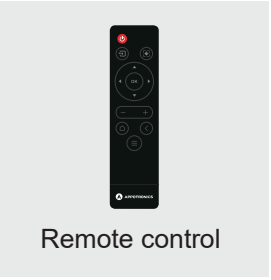
# Overview

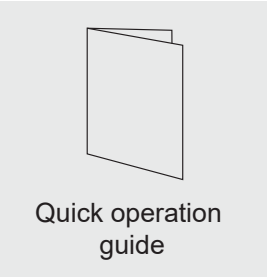
## Packing List

This product is delivered with all the items shown below. Check the packaging to ensure that the items are complete. If any items are missing, please contact the dealer immediately.




**⚠Caution**

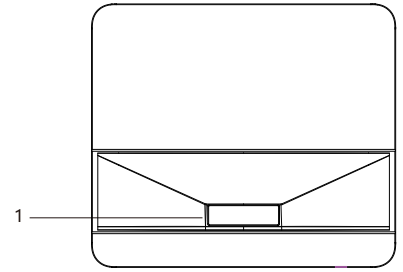
- Because of the differences in the application in each country (region), the products delivered to some regions may come with different accessories.

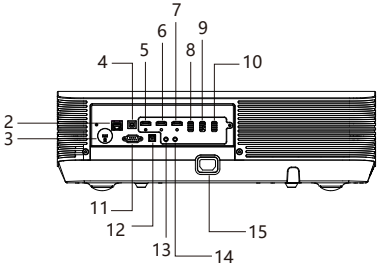
**⚠Avertissement:**

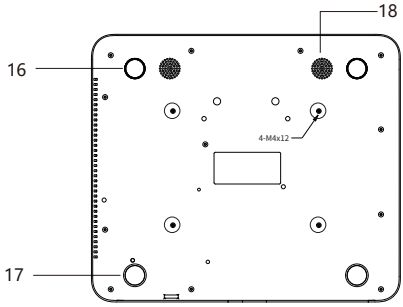
- En raison des applications différentes dans chaque pays (région), les produits livrés dans certaines régions peuvent être livrés avec des accessoires différents.

# Overview

## Projector Appearance




1 Projection lens
2 RJ45 network cable port
3 Kensington anti-theft lock slot
4 USB B port
5 HDMI1 input port
6 HDMI2 input port
7 HDMI3 input port
8 USB 1 port
9 USB 2 port
10 USB 3 port
11 RS232 control port
12 S/PDIF output port
13 AUDIO OUT port
14 AUDIO IN port
15 Power cable port
16 Adjustable wheel
17 Fixed wheel
18 Bell mouth

Support frame for Ceiling
Mount Screw: 4*M4
Depth: 12
Unit: mm

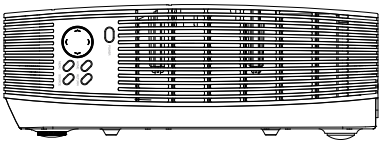
**⚠ Warning**

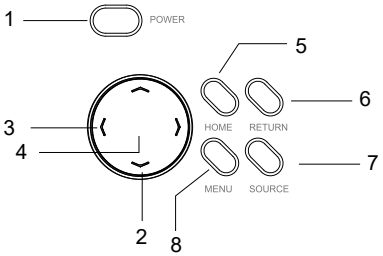
- Connect the equipment to a socket-outlet with earthing connection by means of a power cord.
  The socket-outlet shall be installed near the equipment and shall be easily accessible. Disconnect the power plug before cleaning your projector.

- Connectez l'appareil à une prise avec connexion à la terre via un cordon d'alimentation.
  La prise doit être installée à proximité de l'appareil et doit être facilement accessible. Débranchez la prise électrique avant de nettoyer le projecteur.

# Overview

## Control Device and Functions






1. Power key (power-on/off)

Press the key to power on the device. In the power-on state, press the key twice to power off the device.

2. Arrow keys (∧ up, ∨ down)

When the user menu is displayed, you can select the desired menu item.

3. Volume key/arrow keys (< left, > right)

Select items left and right using "<" or ">". Adjust volume using "<" or ">".

4. OK

Select/confirm the current value or item.

5. Home

Press this key to return to the home page.

6. Return

Press this key to return to the previous layer.

7. Source

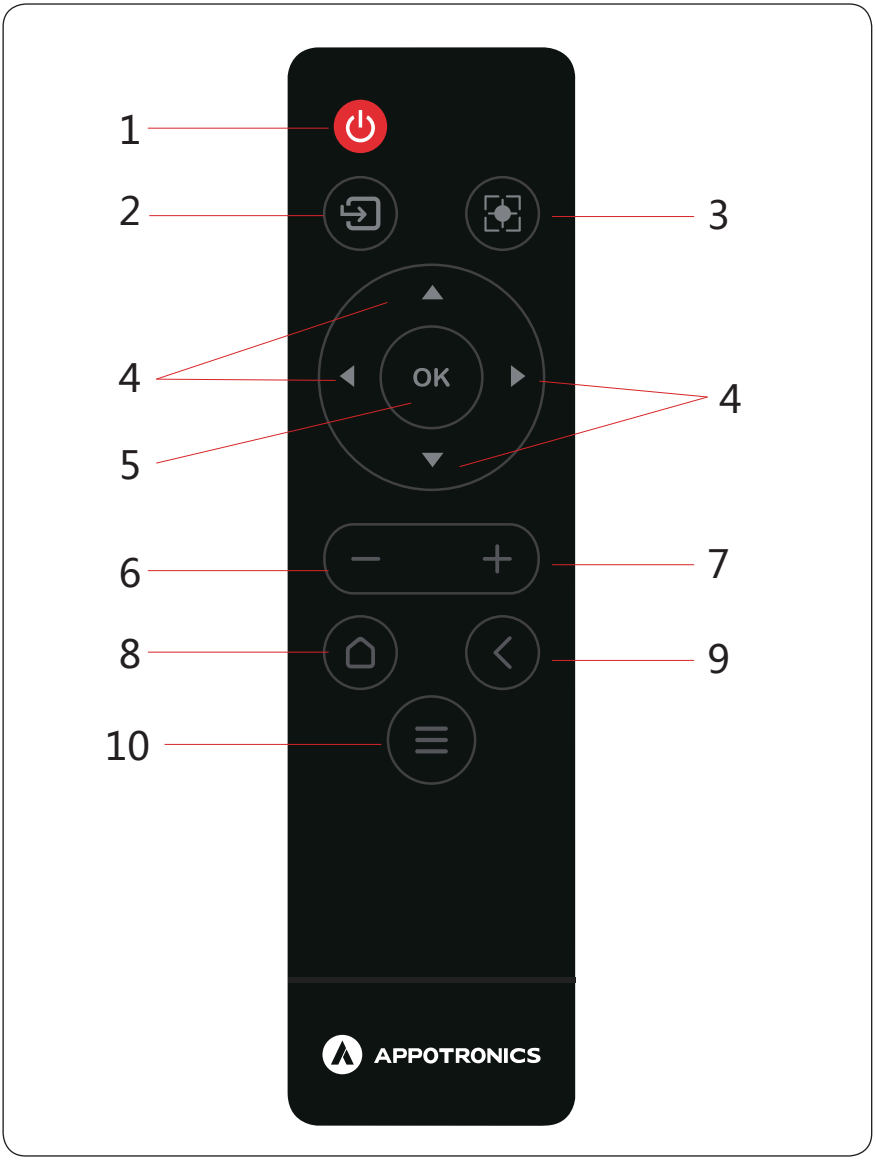
Switch to select different signal sources.

8. Menu key

Opens the OSD menu, exits and saves the menu settings.

# Overview

## Remote Control



# Overview

## 1. Power

In standby mode, if you press this key, the device
is powered on; in power-on mode, if you press this key, the screen prompts for the power-off operation.
Press the power key to shut down the device.

## 2. Source

The input source can be set to HDMI1, HDMI2, HDMI3.

## 3. Electric focus

Press to pop up the electric focus prompt box, and then press ← and → to adjust the focus.

## 4. ← ↑ ↓ → (arrow keys)

You can use ↑ and↓ to scroll up and down,← to select

from the left or decrease the value, and → to select from the right or increase the value.

## 5.OK

Select to confirm the current value or item.

## 6.volume-

Press Volume - to decrease the volume level.

## 7. volume+

Press Volume + to increase the volume.

## 8.Home

Press the home button to return to the home page.

## 9. Return

Press the retu rn key to return to the menu or the previous step, and double-click the return key to switch between the blank screen and the picture source.

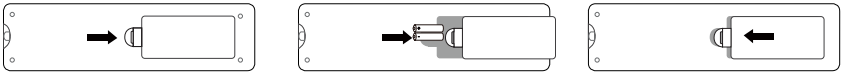
## 10. Menu

On the HDMI interface or the system video player interface, short press or long press the menu key to display the OSD menu, and long press the menu key in other interfaces to display the OSD menu.

# Overview

## Replacing the Battery of the Remote Control

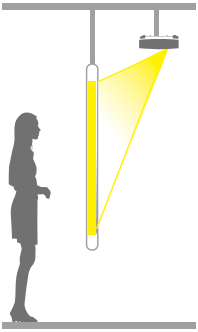
- To open the battery cover, turn the remote control with the back facing up, and pull the battery cover as indicated by the arrowhead in the figure to remove the battery cover.
- Remove the old battery (if necessary) and install the two AAA batteries at the bottom of the battery compartment. The anode of the battery is towards the (+) direction, and the cathode is towards the (-) direction.
- Reattach the battery cover as indicated by the arrowhead in the figure.



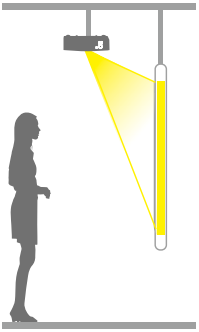
# Installation

## Installation Modes

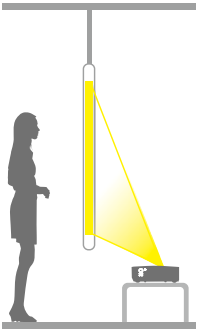
The projector supports four projection modes. You can install the projector according to the installation position. Before changing the projection mode, shut down the projector, change the projection mode, and then start up the projector. The projection mode can be preset to table front. You can also select another projection mode from the menu.



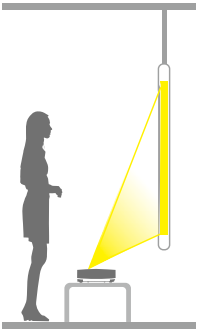
Ceiling rear
Hang the projector on the wall or ceiling and project the picture from the rear of the semi-transparent projection screen.



Ceiling front
Hang the projector on the wall or ceiling and project the picture from the front of the projection screen.



Desktop rear
The projection is on the rear of the semi-transparent projection screen.



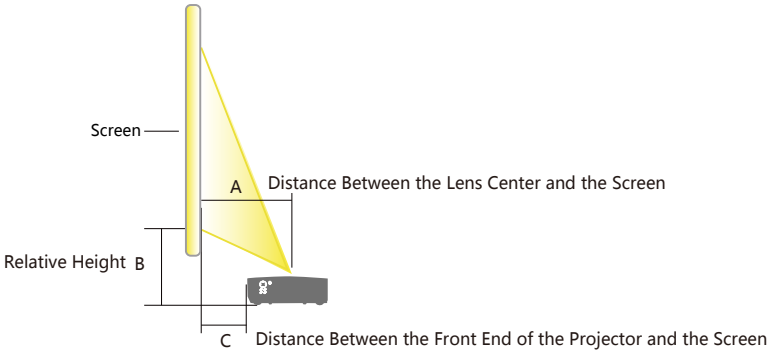
Desktop front
The projection is in the front of the projection screen.

- Please use four M4*10 screws to secure the installation.

# Installation

## Installation Distance

Determine the projection distance according to the model differences and screen dimensions as specified in the following table.




| Resolution | Screen size (inch) | Screen size (mm) | Distance from the lens center to the screen A (mm) | Relative height B (mm) | Distance from the front end of the projector to the screen C (mm) |
|---|---|---|---|---|---|
| 4K (3840x2160) | 80 | 1771×996 | 388±12 | 328±24 | 69±12 |
| | 90 | 1992×1121 | 439±14 | 359±27 | 120±14 |
| | 100 | 2214×1245 | 490±15 | 390±30 | 171±15 |
| | 120 | 2657×1494 | 592±18 | 451±36 | 273±18 |

# Installation

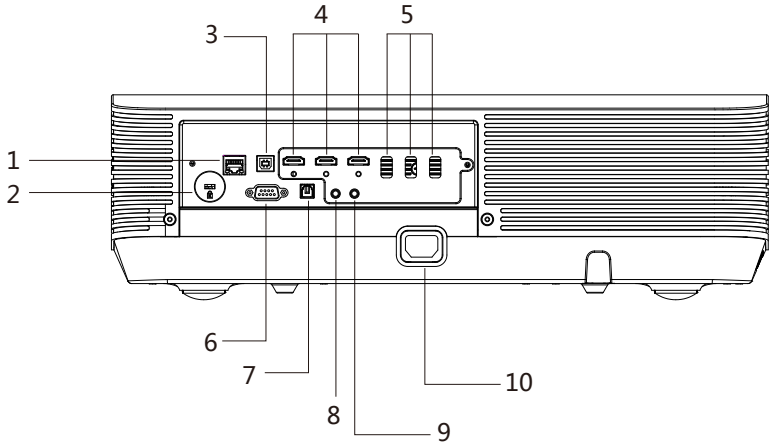
**⚠Warning**

- Special installation methods are required to suspend the projector on the wall or ceiling. If not properly installed, the projector may fall and cause accidents and injuries.
- If the mounting point on the wall or ceiling hanger frame uses adhesive to prevent the screws from loosening, or the projector is lubricated with lubricating oil or other oil, the projector case may break, causing the projector to fall. This may cause the person standing under the hanger frame to be seriously injured and the projector may be damaged. When installing or adjusting the hanger frame, do not use adhesive to prevent the screws from loosening and do not use lubricating oil or other oil.
- Do not cover the projector's air inlet or air outlet. If any air outlet is covered, the internal temperature may rise and result in system shutdown.
- To ensure the performance and safety of the projector, the installation of the lifting bracket must be carried out by qualified technical personnel.

- Des méthodes spéciales d'installation sont nécessaires pour accrocher Le projecteur au mur ou au plafond. S'il n'est pas installé correctement, le projecteur peut tomber et causer des accidents et des blessures.
- Le boîtier du projecteur peut se fissurer et le projecteur peut tomber si les points de montage sur le mur ou le cintre du plafond sont fixés avec de l'adhésif pour empêcher les vis de se desserrer ou si le projecteur est lubrifié avec de l'huile lubrifiante ou d'autres huiles. Cela peut causer de graves blessures aux personnes debout sous le cintre et peut endommager le projecteur. Lors de l'installation ou du réglage des cintres, n'utilisez pas d'adhésif pour empêcher les vis de se desserrer et n'utilisez pas d'huile lubrifiante ou autre.
- Ne couvrez pas l'entrée ou la sortie d'air du projecteur. Si l'une des sorties d'air est couverte, la température interne peut augmenter et entraîner l'arrêt du système.
- Pour assurer la performance et la sécurité du projecteur, un support de levage doit être installé par un technicien qualifié.

# Connect the device

## Terminals and Interfaces




1. RJ45 network cable port

2. ensington anti-theft lock slot

3. USB B port
   – Projector upgrade interface.

4. HDMI1、HDMI2、HDMI3 input port
   – HDMI signal input port.

5. USB1、USB2、USB3 port
   – HOST type port, connect U disk, mobile hard disk, keyboard and mouse, and other USB slave devices.

6. RS232 control port
   – Connect the central control device.

7. S/PDIFoutput port
   – S/PDIF optical digital audio output.

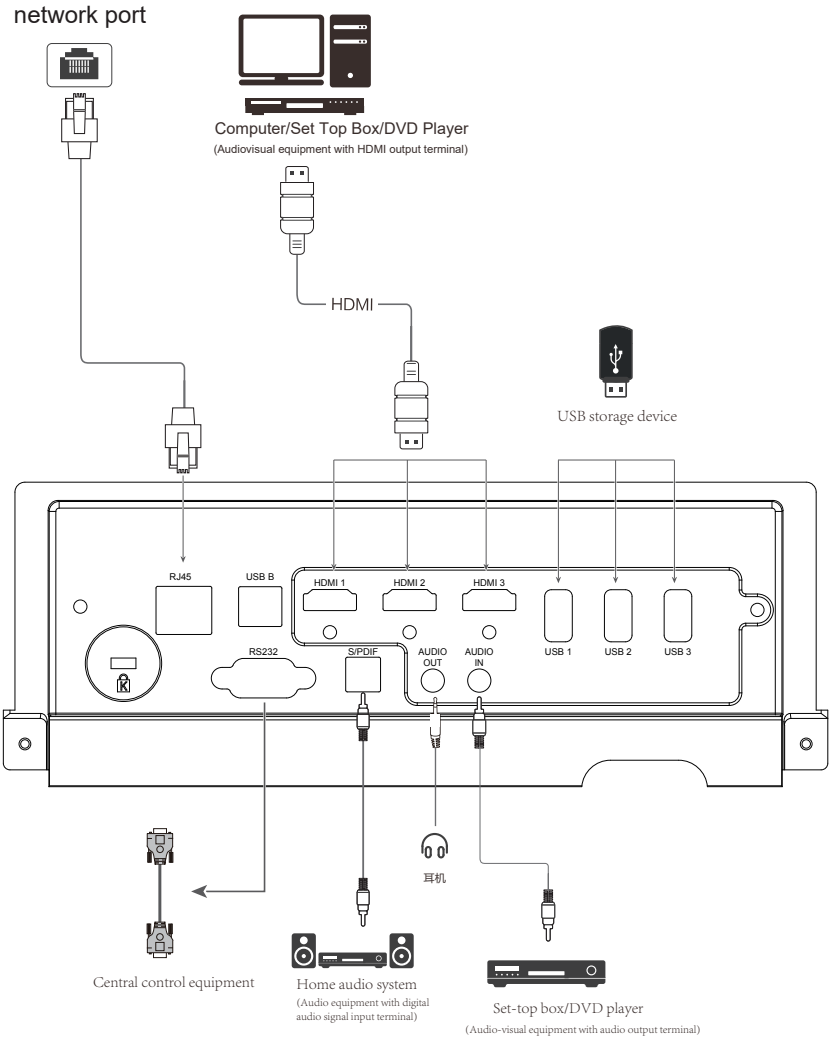
8. AUDIO OUTport
   – Audio output port.

9. AUDIO INport
   – Audio input port.

10. Power cable port
    – Connect the power supply.

# Connect the device

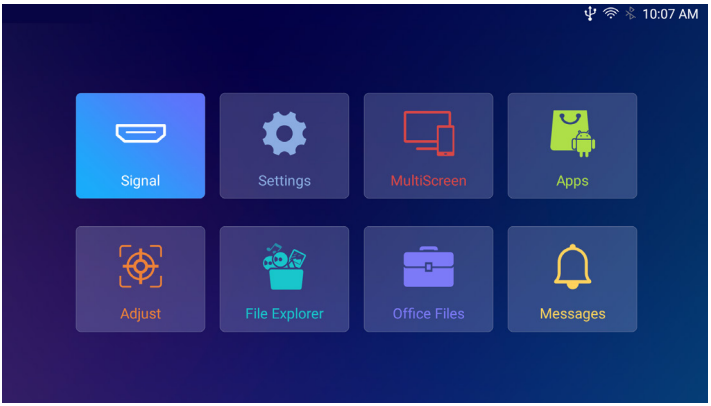
## Terminal connection



# Operation

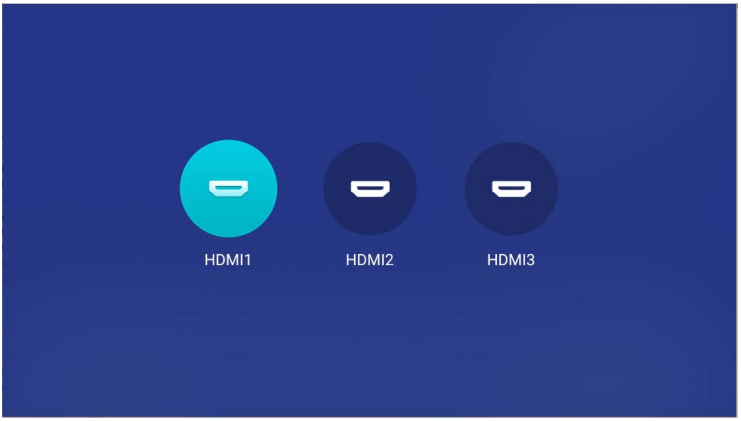
## Main Page

After the device is energized, the main page is displayed. The upper right corner displays the icon of the connected external storage device (the icon of external storage device such as USB 濆獎drive is displayed after connected), network connection icon, Bluetooth icon, and current time.
The main page displays the signal source icon, system settings icon, multiscreen icon, app icon, electric zoom icon, 牕痛management icon, 瞏牕e 牕痛icon and message icon.




## Signal Source

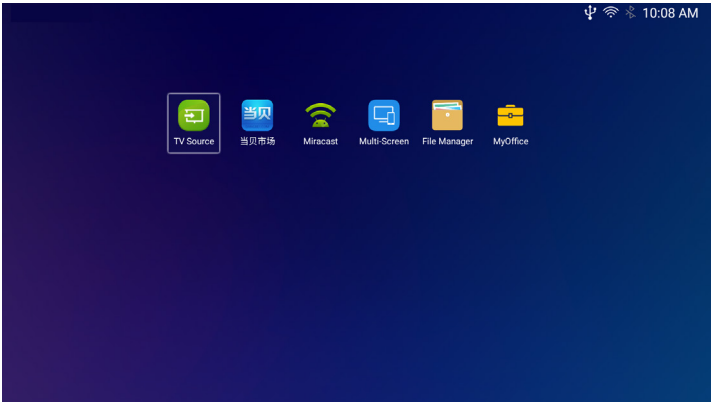
After the DVD, set-top box or laptop computer is connected to the HDMI port, select the corresponding HDMI option to enter the signal source page.
After you select Signal Source, HDMI1, HDMI2, and HDBaseT are displayed in sequence.



# Operation

## Apps

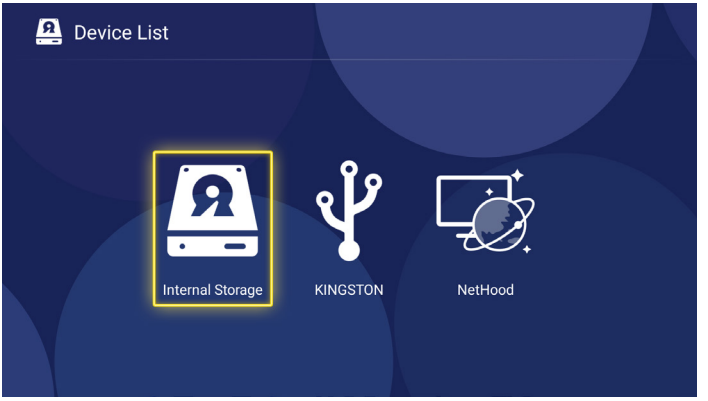
After you click the Apps icon, all apps preset in the system, including the apps installed by the user, are displayed.



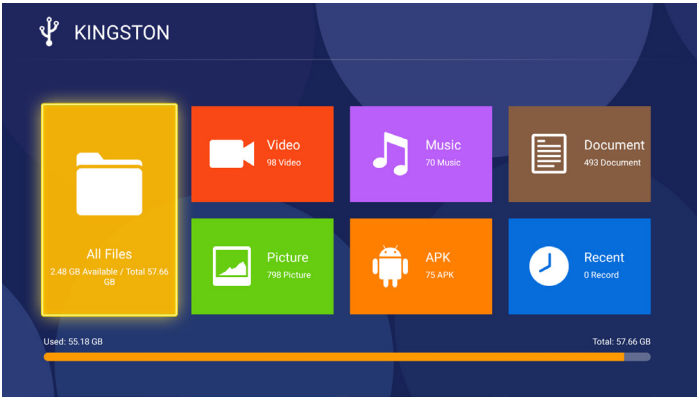

## File Explorer

You can access the connected external storage devices on the File Explorer page, and access the images, music, videos, and 牕痛禶ved on the external storage devices.

1. After the external storage device is connected, the File Explorer page displays the name of the currently connected device.

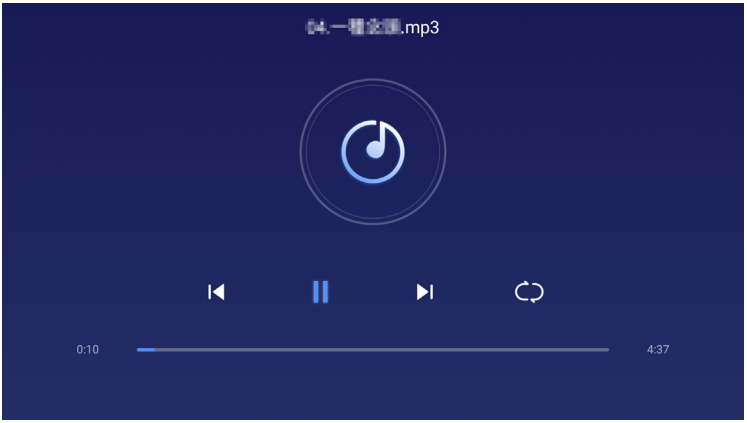


2. After you click the name of the external storage device, you can see the corresponding videos, music, 隐痛秘nages, APK and other content.



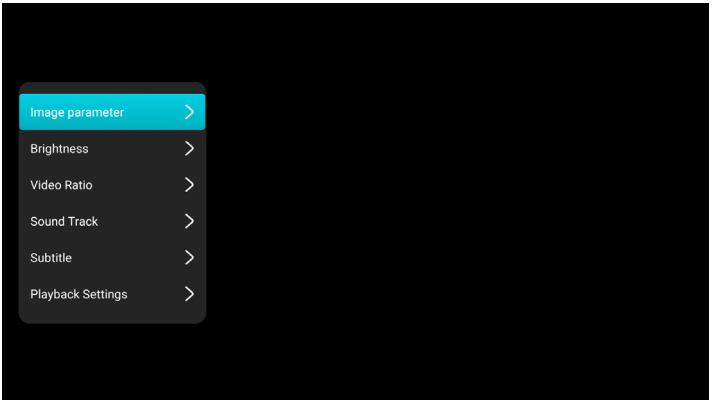

3. Select an image to browser. You can also press the menu button to perform the Delete, Rotate, Slide Show, and View Details operations.

4. When playing the music, you can switch to the previous/next song, pause the music, and switch the playback modes.

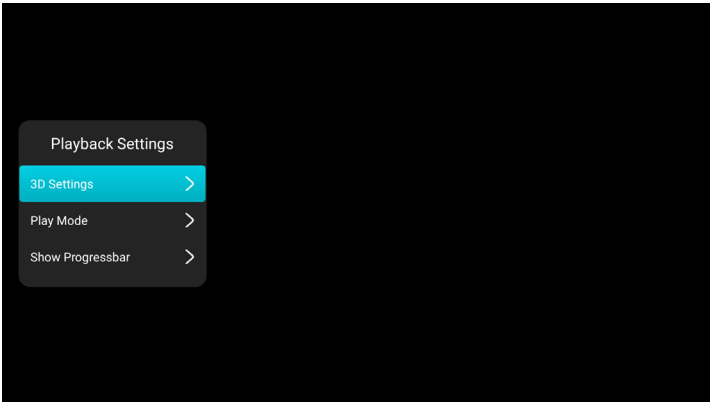



5. When playing the video, you can switch to the previous/next video, pause the video, or switch the videos.

6. If you press the menu button, you can set Image Parameter, Brightness, Video Ratio, Sound Track, Subtitle, and Playback Settings.




The image parameters are the same as those in Display Settings > Image Parameters.
Brightness Mode: Standard, Demo, and Eco
Video Ratio: Adaptive Screen and Full Screen
Sound Track: You can select a sound track.
Subtitle: You can select an add-on subtitle.
The following 悤狼e shows the Playback Settings.

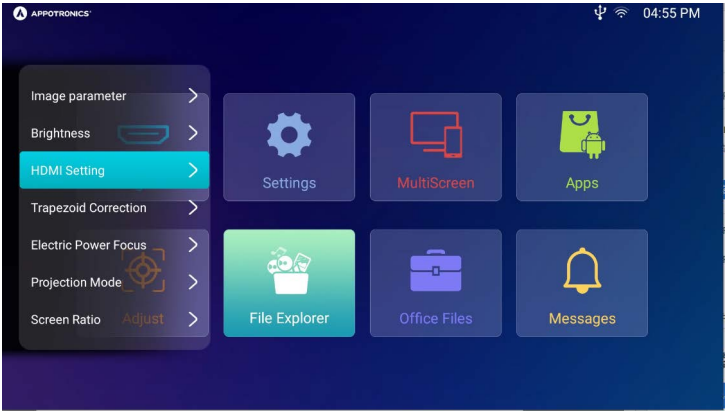



| Playback Settings | |
|---|---|
| Function | Attribute Value |
| 3D Settings | 3D 故燼eft Right, Top Bottom, Frame Encapsulation, 3D Type, Eye reversal, and 3D Sync |
| Playback Mode | Repeat All and Loop |
| Show Progress bar | On and 故燦 |

7. Press the menu button of HDMI to display the OSD menu.

| HDMI OSD menu | |
|---|---|
| Function | Attribute Value |
| Image Parameter | Settings > Display Settings > Image Parameters |
| Brightness | Settings > Display Settings > Brightness |
| 3D Settings | 3D Settings in OSD of the played video |
| HDMI2.0 | On and 故燈 |
| Keystone Correction | Settings > Display Settings > Keystone Correction |
| Lens Focus | Settings > Display Settings > Lens Focus |
| Projection Mode | Settings > Display Settings > Projection Mode |
| Screen Ratio | Native, Full, 4:3, 16:6, 16:9, and 16:10 |
| RGB Range | Auto, 0-255, and 16-235 |

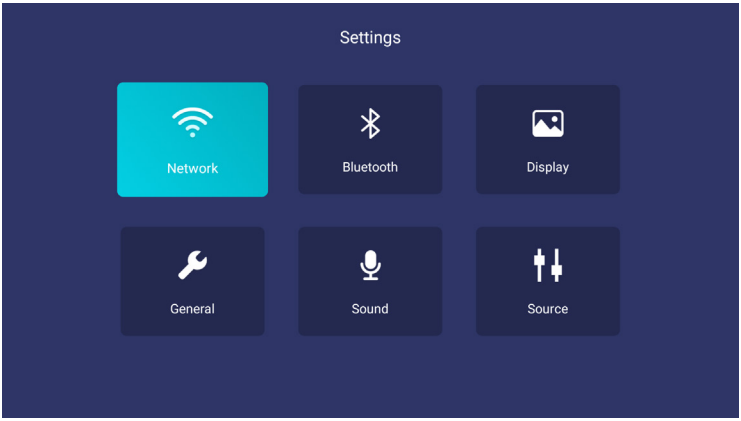
8. If no local video is played, press and hold the menu button to display the local OSD menu.



# Operation

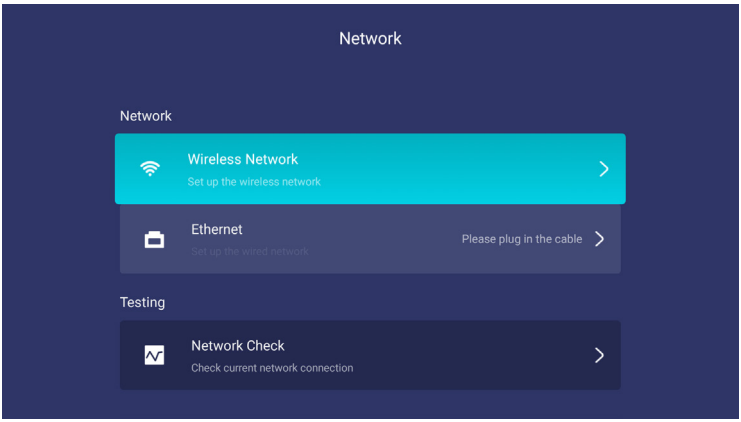
## System

Click the System icon. The options on this page include Network, Bluetooth, Display, General, Sound, and Signal Source.



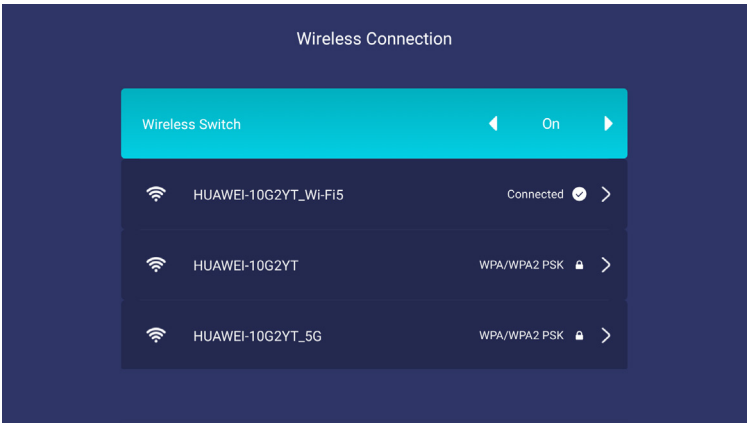

## I. Network

Select Network and click the OK button to enter the network settings page.



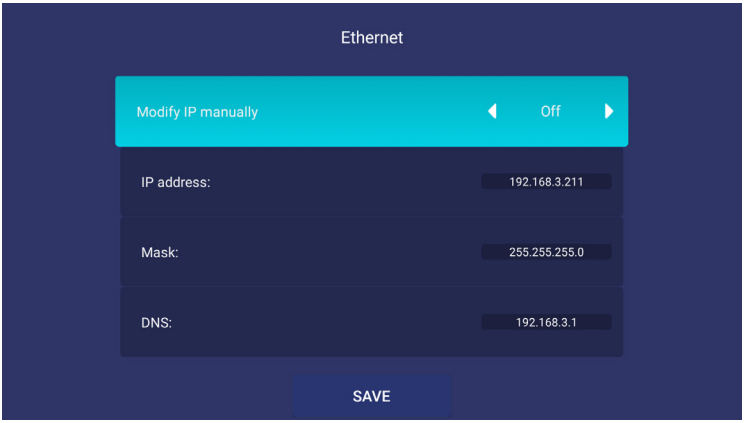
(1) Wi-Fi

On the Wi-Fi page, click the connected Wi-Fi network to set the static IP address.



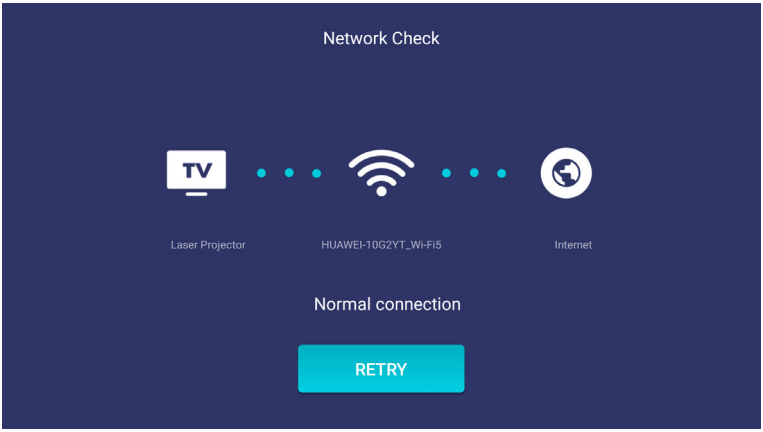

(2) Ethernet

After the Ethernet is successfully connected, click the Ethernet icon to set the static IP address.



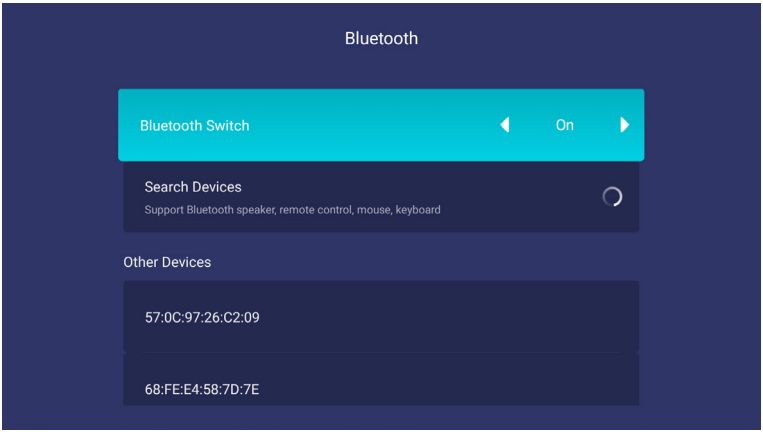
(3) Check network

Click the Check network icon to check the connected network and ensure that the network is successfully connected.




## II. Bluetooth

If Bluetooth is set to On, audio can be output to the connected device through Bluetooth. You can enable Search for Devices to search for a device.
The search result lists the found Bluetooth devices.

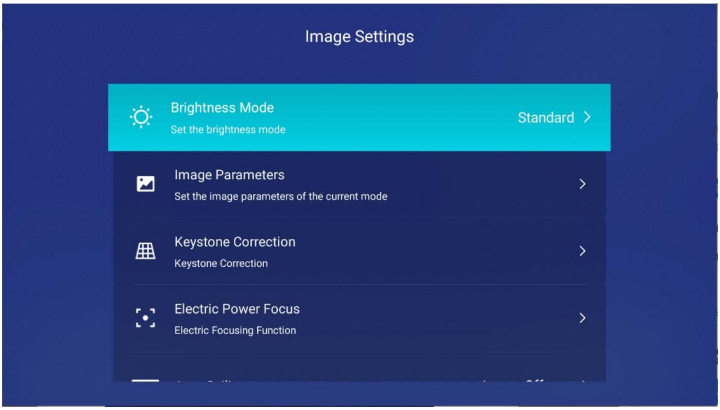


## III. Display Settings

Select Display Settings and click the OK button to enter the display settings page. The options on this page include Brightness Mode, Image Parameters, Keystone Correction, Lens Focus, Projection Mode, Contrast Enhancement, High Altitude Mode, Test Picture, and Solid Color Picture.

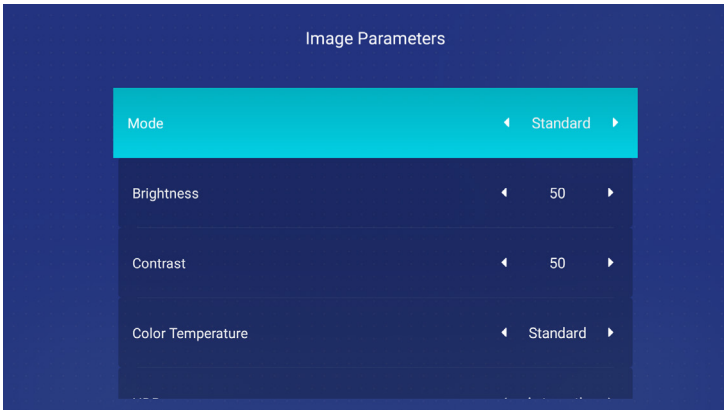
(1) Brightness Mode

In the Brightness Mode option, you can set the brightness of the projected image to Standard, Demo, or Eco.




(2) Image Parameters

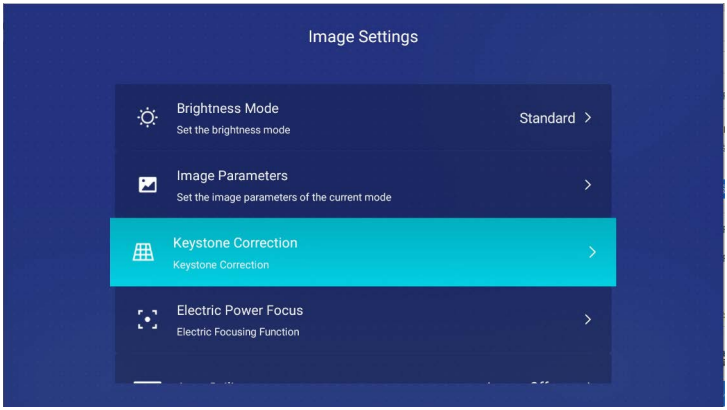
In the Image Parameters option, you can set the projected image to Standard, Cinema, Color, DICOM, and Custom.




| Image Parameters Menu | |
|---|---|
| Mode | Attribute value |
| Mode | Standard, Cinema, Color, DICOM, and Custom |
| Brightness | 0-100 |
| Contrast | 0-100 |
| Saturation | 0-100 |
| Sharpness | 0-100 |
| Tone | 0-100 |
| Color Temperature | Standard, Warm, Cool, and Custom |
| HDR | Auto, 故燈and On |

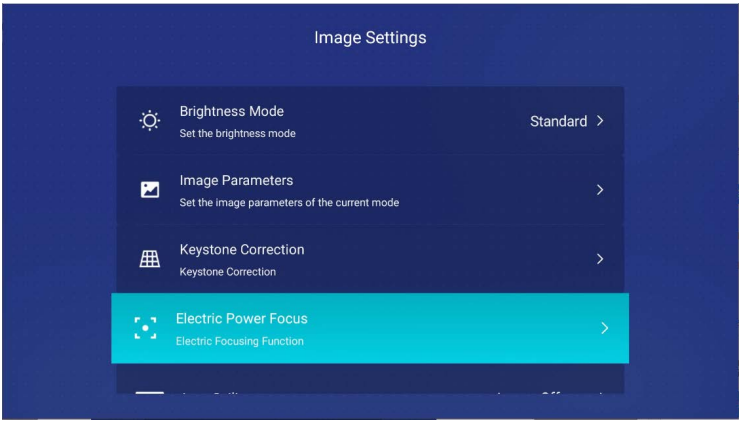
(3) Keystone Correction

You can correct the device in Keystone Correction. The options include Vertical & Horizontal, Eight Point, and Reset.



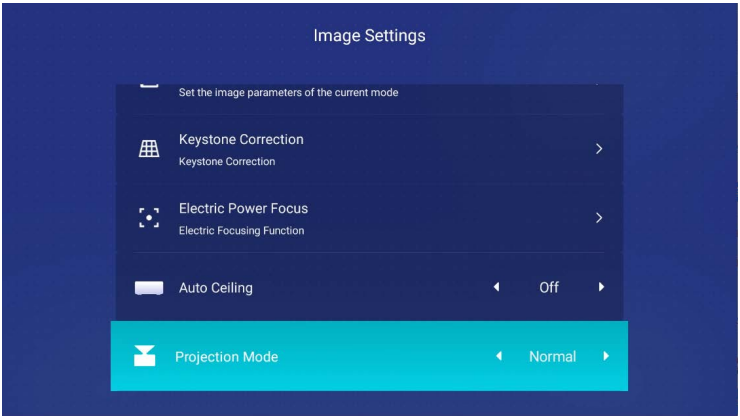
(4) Electric Power Focus

Can be adjusted left and right.



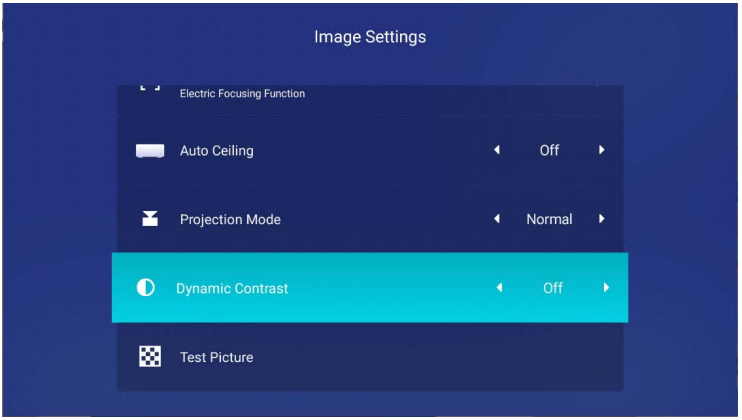

(5) Projection Mode

You can set the projection mode to Desktop front, Desktop rear, Ceiling front, Ceiling rear based on the device installation mode.



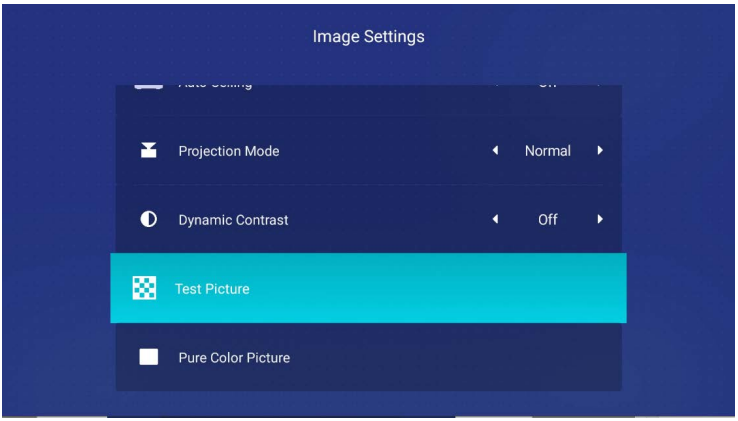
(6) Dynamic Contrast

When Dynamic Contrast is set to On, it can improve the real-time contrast of the display screen and improve the display effect.



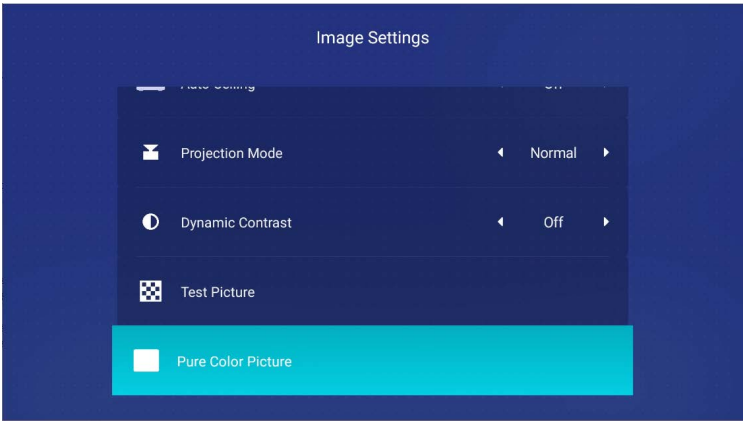
(8) Test Picture

You can display the test pattern to check the display performance of the projector.




(9) Solid Color Picture

You can view the monochrome display 燈t of the projector in Solid Color Picture.

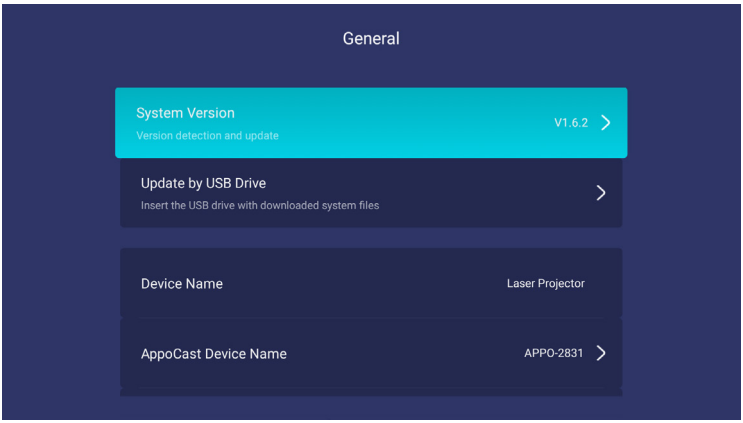


## IV. General

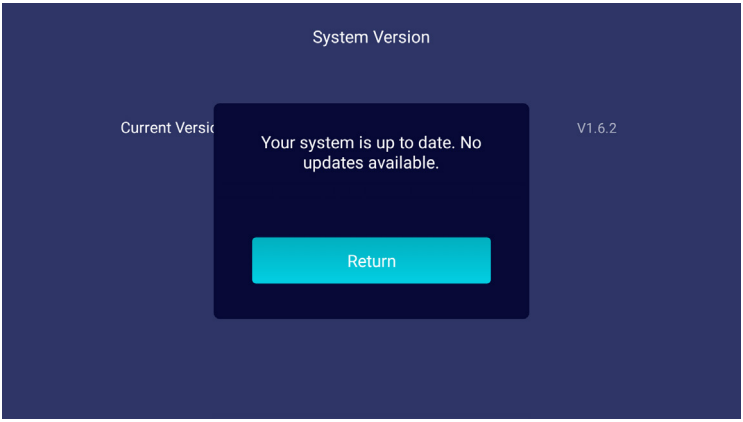
The options include System Version, Update from USB Drive, Device Name, AppoCast Device Name, Network Control, Input Method, Lock Screen, Sleep, Time Form, Time Zone Selection, Language, Unknown Sources, About, and Restore to Factory Defaults.

(1) System Version

The system supports online update. Upon detecting a new system version, the system prompts for online update.

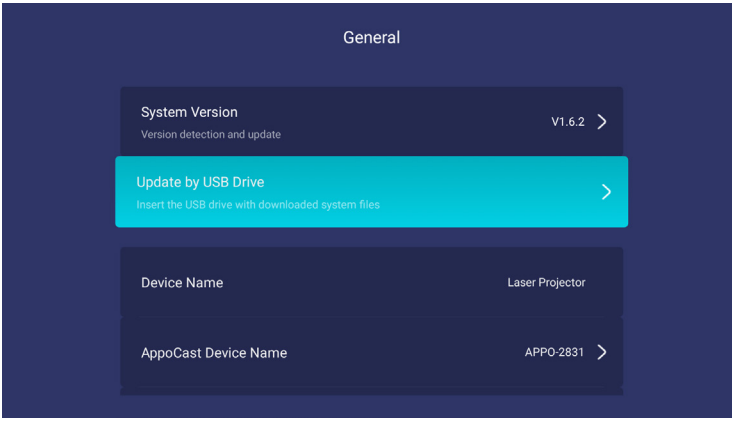


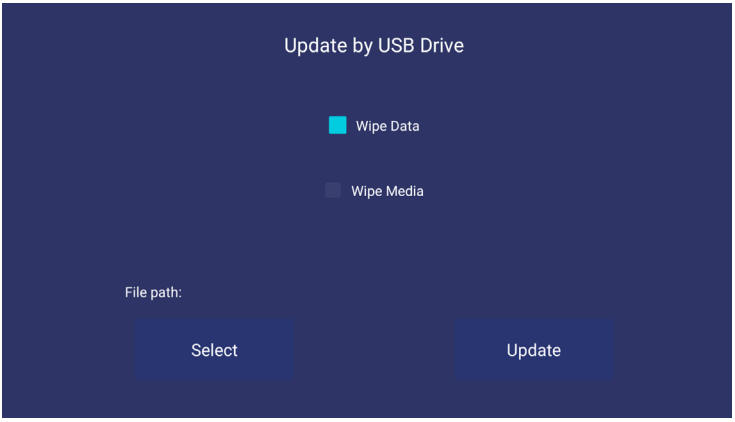

If the current version is the latest, a prompt is displayed.



(2) Update from USB Drive

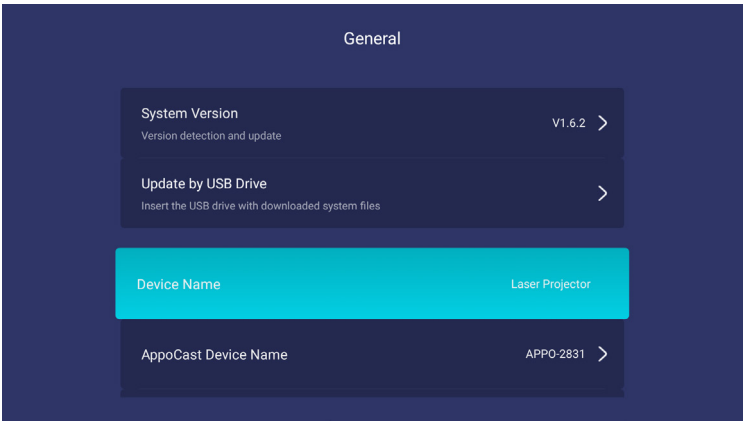
The system supports local update from the USB drive. You can place the latest system version in the root directory of the USB drive for local update.



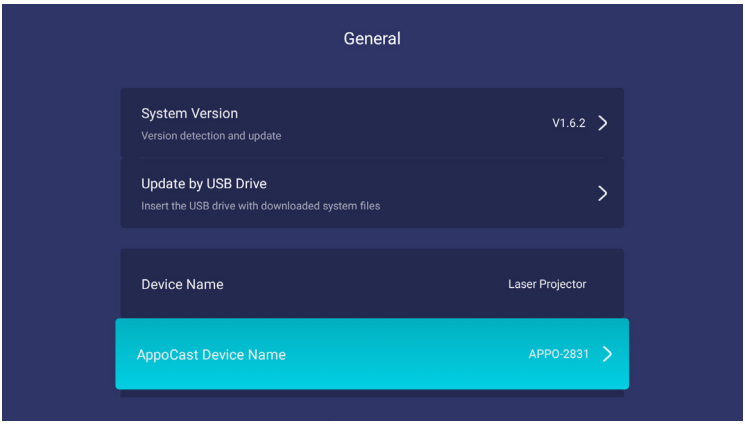
(3) Device Name

You can view the name of the current device.



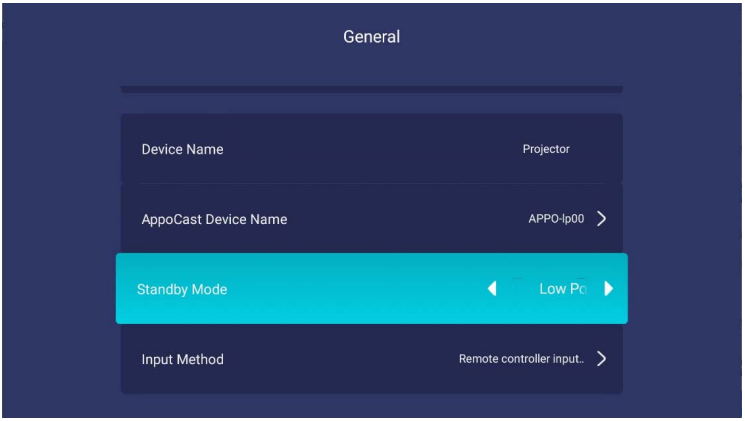

(4) AppoCast Device Name

You can set the AppoCast device name.



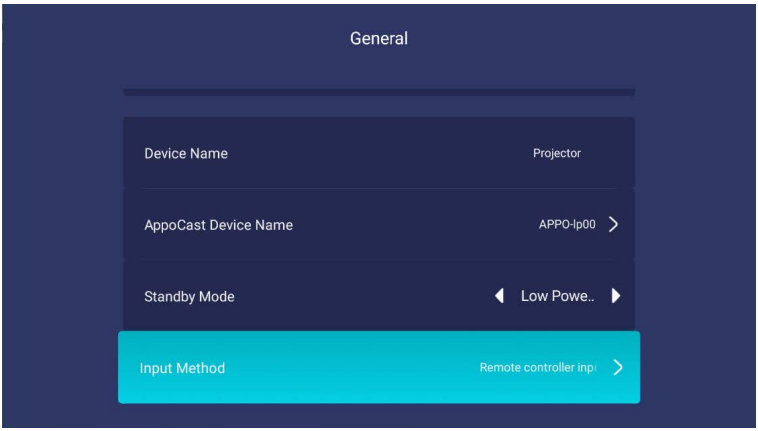
(5) Standby Mode

The default is low power mode: Low Power standby.



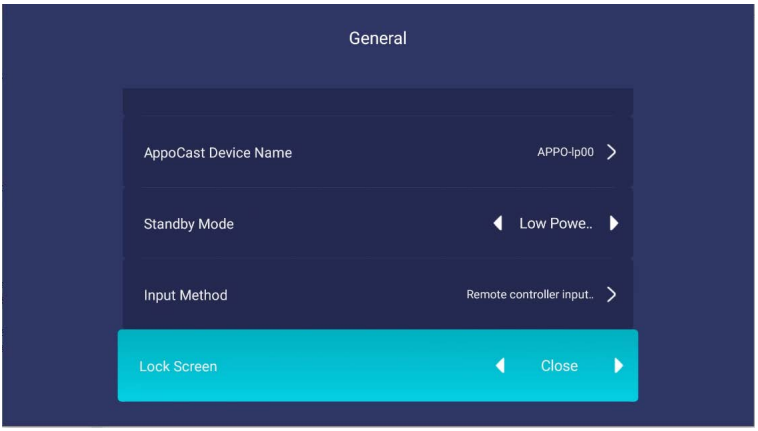

(6) Input Method

You can view the current input method. If another input method is downloaded, select the desired input method as the default input method on this page.



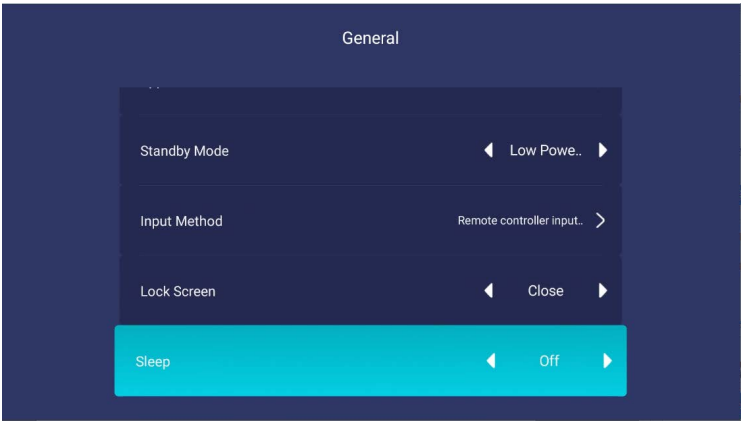
(7) Lock Screen

The screensaver time can be set to Close, 4 min, 8 min, and 12 min.



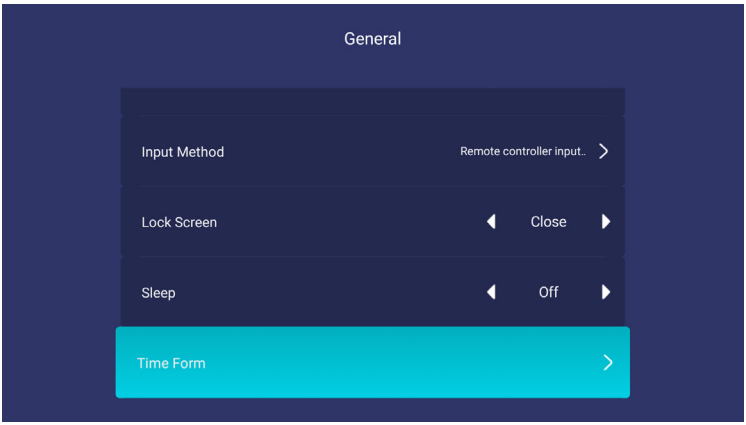

(8) Sleep

The options include Close, 30 min, or 1 hour. If the device is not operated within 30 min or 1 hour, the system automatically turns 罩燈ne screen.



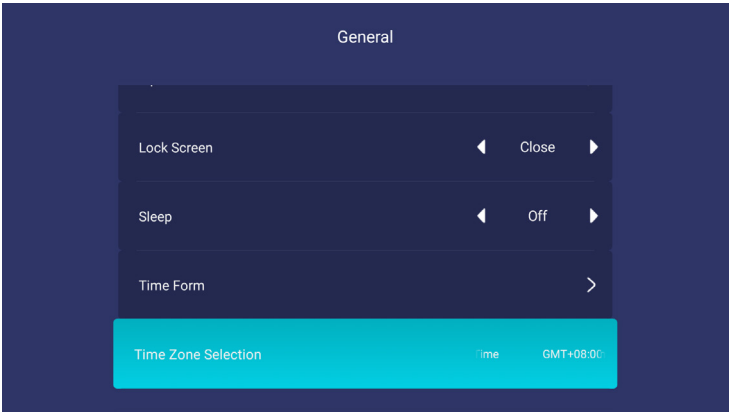
(9) Time Form

The options include 12-hour Format and 24-hour Format.



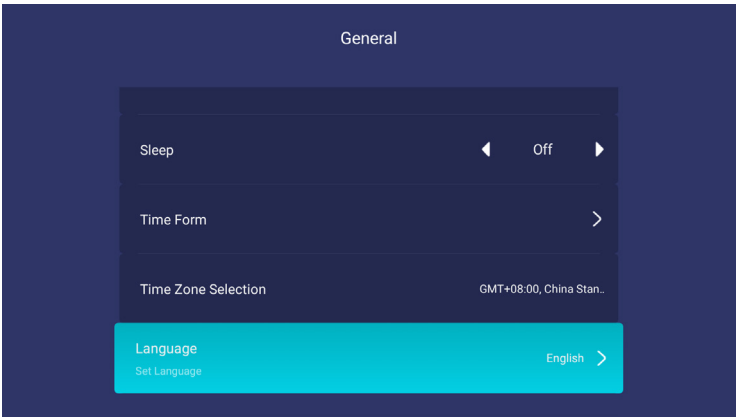

(10) Time Zone Selection

You can set the time zone based on the current location.



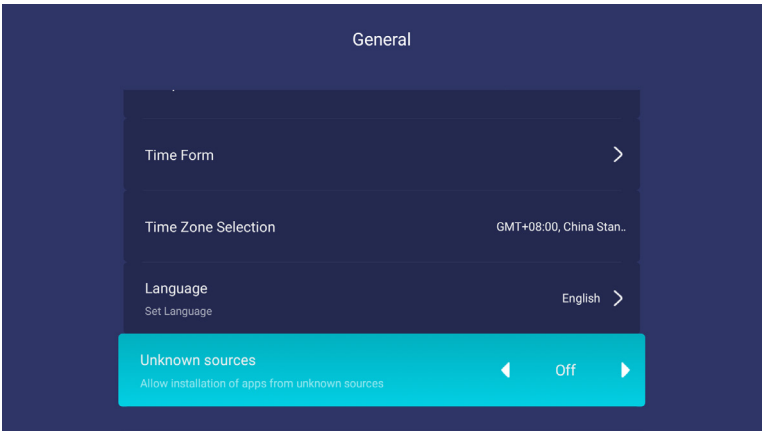
(11) Language

The language include Chinese 枭 牕燘Chinese Traditional, and English.



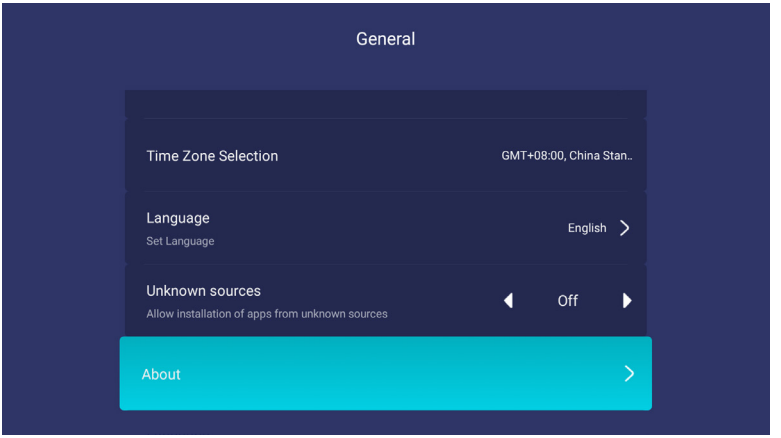

(12) Unknown Sources

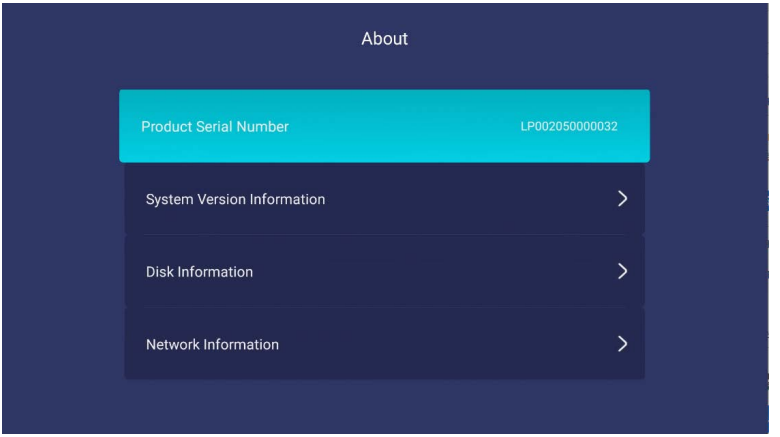
To protect the security of user data, the system does not allow the installation of APKs from unknown sources by default. If you need to install a third-party APK, c瞕牕祦 its security, and then manually enable this option before installation.



(13) About

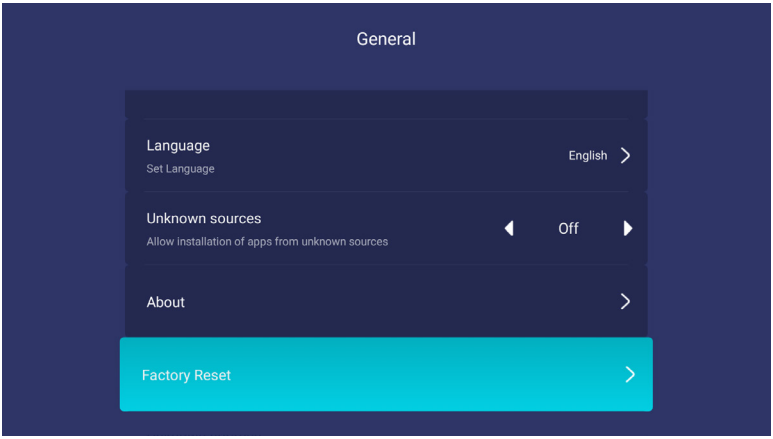
The options include Product SN, Projector Use Time, System Version Information, Disk Information, and Network Information.



(14) Restore to Factory Defaults

You can restore the device to factory defaults. Before the restoration, please back up your personal data to avoid unnecessary losses.

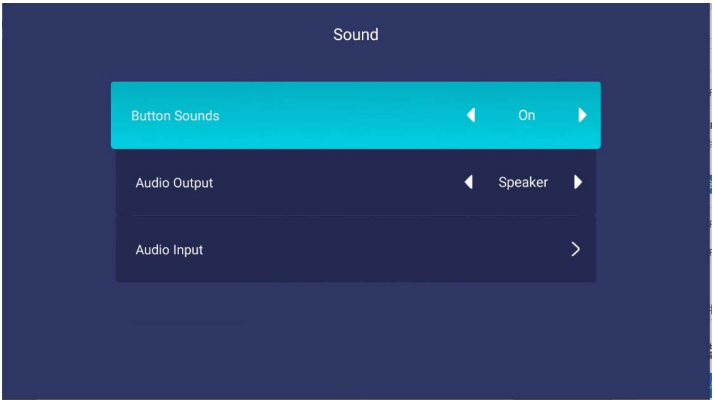



## V. Sound

Select Sound and click the OK button to enter the sound settings page. The options include Button Tone and Audio Output.

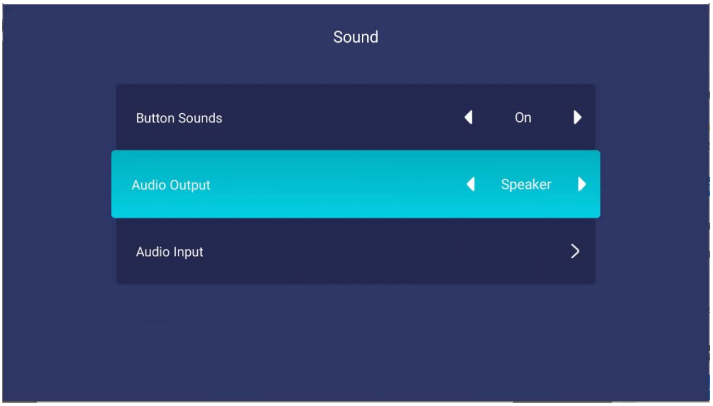
(1) Button Tone

You can turn on or 罢熠the button tone.



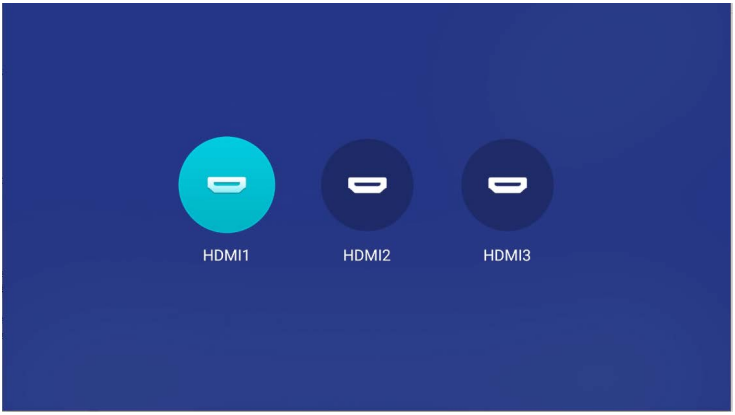
(2) Audio Output

You can set the audio output to Speaker and SPDIF according to actual situations.




## VI. Signal Source

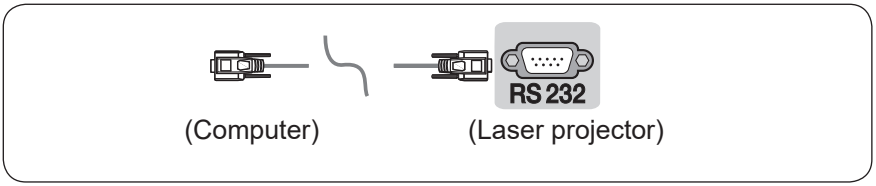
After the DVD player, set-top box, or laptop computer is connected to the HDMI port, you can click the HDMI option corresponding to the Signal Source icon to enter the Signal Source page. The options include HDMI1, HDMI2, and HDBaseT.



# Appendix: Control port

The interface board of the projector provides a RS232 serial port and a LAN cable port, through which you can control the projector on the external central control device.

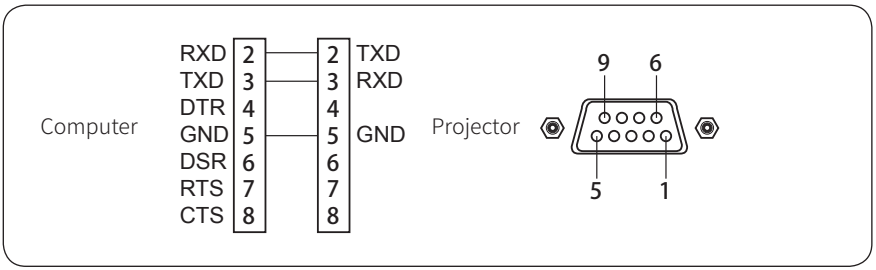
## Serial port




RS232 connection diagram

The projector is connected using the DB9 female connector.

One end of the straight-through cable connected to the projector is DB9 male connector, and the other end is DB9 female connector.



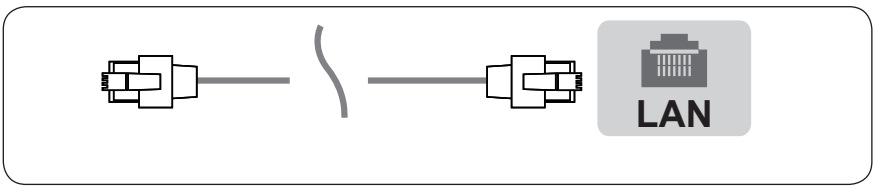

∗ Jack 1 and Jack 9 are not connected.

Serial port settings

| Communication type | Serial port RS232 |
|---|---|
| Baud rate | 115200 |
| Parity bit | None |
| Data bit | 8 bits |
| Stop bit | 1 bit |

## LAN port settings

The LAN port is the RJ45 port that adopts the TCP/IP protocol, and the network port is Port 4352.



# Maintenance

## Projector Maintenance

You need to regularly maintain the projector and clean the lens.
You can power on the projector only after the surface water is dried if you clean the lens or enclosure.
Do not disassemble any parts of the projector. To replace the parts, please contact the dealer.

### ■ Cleaning the lens

You can clean the lens when you find that the lens surface is stained or dusty.

- Use a compressed air tank to remove dust.
- If there is dust or stain, gently wipe the lens surface using the lens paper or damp cloth with some cleaning agent.

**⚠ Caution**

- Do not rub the lens with abrasive materials.

### ■ Cleaning the projector enclosure

- To remove dirt or dust, wipe the enclosure with a soft, lint-free cloth.
- To remove strong dirt or spots, wet the soft cloth using water and neutral pH detergent, and then wipe the enclosure.

### ■ Nettoyage du boîtier du projecteur

- Pourenleverlasaletéoulapoussière,essuyezleboîtieravecunchiffondouxetnonpelucheux.
- Pourenleverlasaletéoulestachesfortes,humidifiezlechiffondouxavecdel'eauetunnettoyantàpHneutre, puisessuyezleboîtier.

**⚠ Caution**

- Do not use wax, alcohol, benzene, thinner, or other chemical cleaners because these substances can damage the enclosure.

### ■ Storing the projector

If you need to store the projector for a long period of time, follow the instructions below:

- Ensure that the temperature and humidity of the storage area are within the recommended range for the projector.
- Retract the adjustment feet.
- Remove the battery from the remote control.
- Use the projector's original packaging or equivalent material to package the projector.

### ■ Transporting the projector

It is recommended to use the original packaging or equivalent material when transporting the projector.

# Troubleshooting

■ The projector fails to power on.

| Cause | Solution |
|---|---|
| The power cable supplies no power. | Insert one end of the power cable to the AC port on the projector, and insert the other end to the electrical outlet. If the electrical outlet has a switch, ensure that the switch is turned on. |

■ No picture

| Cause | Solution |
|---|---|
| The video signal source is not enabled or is incorrectly connected. | Enable the video signal source and check whether the signal cable is properly connected. |
| The projector and the input signal device are not properly connected. | Check the connection. |
| The input signal is not correctly selected. | Select the correct input signal source using the signal source key on the projector or remote control. |

■ The picture is fuzzy.

| Cause | Solution |
|---|---|
| The lens of the projector cannot accurately focus. | Adjust the focus of the lens using the focusing ring. |
| The projector does not accurately align with the screen. | Adjust the projection angle and direction. If necessary, adjust the projector's height or distance. |

■ The picture is deformed.

| Cause | Solution |
|---|---|
| The screen is not smooth. | Professional screens such as digital board are recommended. |

■ The remote control fails.

| Cause | Solution |
|---|---|
| The battery level is low. | Replace the battery. |
| There are obstacles between the remote control and the projector. | Move the obstacles. |
| The distance to the projector is too far. | The distance to the projector should be no longer than 5 m (16 inches). |

# Troubleshooting

## Indicator

| Light | | State and Indication |
|---|---|---|
| Red | Green | |
| Course light | | |
| Off | Off | Power-off |
| On | Off | Standby mode |
| Off | On | Power-on state |
| Off | Blinking | Protection state upon running anomalies |

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