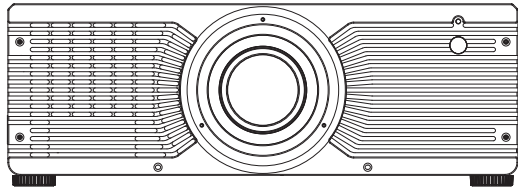




Engineering Projector

User Manual

AL-FX850
AL-FH850
AL-FU850
AL-FX10K
AL-FH10K
AL-FU10K



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

Declaration

Copyright

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Disclaimer

Appotronics Corporation does not make any express or implied representations or warranties with respect to any of the contents of this manual, and does not provide any warranties with respect to merchantability or fitness for a particular purpose. In addition, Appotronics Corporation reserves the right to revise this publication and to modify the contents of this document at any time without notice to anyone.

Repair

Under normal use and storage conditions, Appotronics Corporation 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 the product is found to be defective during the warranty period, the sole obligation of Appotronics Corporation and the exclusive remedy are to replace any defective parts (including labor service). When you find the product is defective, immediately notify the dealer to obtain the warranty service.

IMPORTANT: If the customer fails to use the product in accordance with the written instructions, the above warranty will not apply. In particular, the ambient humidity must be between 10% and 90%, the temperature is between 0°C and 40°C, and the altitude is below 2000 meters. Do not operate the projector in a dusty environment.

For additional information, please visit www.appotronics.com.



This mark warns users that the uninsulated voltage in the projector may be sufficient to cause an electric shock. Therefore, there is a risk of electric shock for any contact with any component inside the projector.



This symbol alerts users to notice important information about the operation and maintenance. Please read this information carefully to avoid problems.

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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.
- The device shall be installed, operated and maintained by a qualified professional authorized by the company.
- 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 IEC60950-1, EN60950-1, UL60950-1, CAN/CSA C22.2 No.60950-1 and domestic safety standards GB4943.1. 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

In addition, these standards also raise limitations in many ways, such as internal and external temperature rise levels, radiation levels, mechanical stability and intensity, peripheral construction and fire protection devices. Even if the normal operation of the equipment fails, the single-point fault simulation test can also ensure that the device can use the fuse, thermal circuit breakers, overcurrent protection devices and similar devices to provide adequate protection of the human body.

This manual is for authorized users only for professional purposes and these persons should be familiar with the potential hazards that may arise from this product. Only qualified maintenance personnel who are familiar with such hazards can open the product shell to perform maintenance operations.

FCC 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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Important Safety Instructions

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.
- ◆ Restricted access area:
Only a maintenance person can enter the restricted access area or only if the user is aware of the reasons for restricting access to the area and has taken preventive measures. It refers to an area where an operator must use a specific tool, lock, or key or take other safety measures to access; in addition, the access to this area is controlled by the specified agency.

Safety Precautions

■ 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 battery explosion

- ◆ If the battery is improperly installed, an explosion may occur.
- ◆ Replace the battery with the manufacturer's recommended or equivalent type of battery.
- ◆ When disposing used batteries, be sure to refer to the rules and regulations on disposal of hazardous wastes at the national, provincial and local levels to ensure proper disposal of waste.

Important Safety Instructions

■ 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 and unplug the power cable from the UPS power input socket (authorized maintenance personnel only). 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.
- Warning: High intensity light. Do not look into the lens! High-brightness light will cause damage to the eyes.
- Warning: This projector uses a high-brightness laser light source. Do not try to look directly at the lens or laser light source.
- 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.
- Invisible infrared LEDs radiation may be emitted from disconnected optical fibers or connectors. Do not look directly at the beam or look straight to the optical instruments.
- The laser has high density energy. These may be dangerous for skin tissue and may cause electrical, and chemical and non-ionizing radiation hazards.
- This is a Class A product, which may cause radio interference in a living environment. In such conditions, you may require the user to take practical measures to interfere with.

■ 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.

Important Safety Instructions

■ 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, CO₂ 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.
- ♦ The projection room must be well ventilated or have a cooling device to avoid heat buildup. The hot air discharged from the projector must be able to be discharged to the outside of the building.
- ♦ If the projector is not used for a long period of time, remove the power cable.

■ About Repair

- ♦ Do not service this equipment privately because opening or removing the cover may expose you to high pressure and face an electric shock hazard.
- ♦ If you attempt to change the internal control functions set at the factory or to change other control settings that are not specifically addressed in this manual, it will cause permanent damage to the laser light source suite and warranty failure.
- ♦ When the following cases occur, unplug the device from the electrical outlet and allow qualified service personnel to service:
 - The power cable or power plug is damaged or worn.
 - Liquid is splashed into the equipment.
 - Equipment is in the rain or taking in water.
 - If the device is not operating properly in accordance with the operation instructions, adjust only the adjustment apparatuses mentioned in the operation instructions because improper adjustment of other apparatuses may cause damage.
 - The device falls to the ground or the case is damaged.
 - If the equipment performance has changed significantly, ask the service personnel for help.
- ♦ Replacement parts: When using replacement parts, ensure that the service technician uses approved replacement parts or approved replacement parts that are identical to the original parts. Unauthorized alternatives may result in deteriorated performance and stability, causing fire, electric shock, or other hazards. Unapproved alternatives may void the warranty.
- ♦ Safety check: When the projector is repaired, request the service technician to perform a safety check to ensure that the device has returned to the normal operation state.

Important Safety Instructions

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.



According to the "electronic information products pollution control management approach", for controlling and reducing the electronic information products that may cause environmental pollution after discard, promote the production and sales of low-pollution electronic information products, to protect environment and human health. The harmful substances that may be contained in this product are as follows:

Name and content of hazardous substances in the product						
Parts Name	Harmful substances					
	Pb	Hg	Cd	Hexavalent chromium Cr (VI)	Polybrominated biphenyls PBB	Polybrominated diphenyl ethers PBDE
Power cord	○	○	○	○	○	○
Internal power supply	×	○	○	○	○	○
Plastic enclosure	○	○	○	○	○	○
Light source assembly	×	○	○	○	○	○
Lens assembly	○	○	○	○	○	○
Optical receiver/transmitter assembly	○	○	○	○	○	○
Fan assembly	○	○	○	○	○	○
Speaker	○	○	○	○	○	○
Antenna assembly	○	○	○	○	○	○
PCB assembly	×	○	○	○	○	○
Other metal pieces	○	○	○	○	○	○
Remote control	×	○	○	○	○	○
This form is prepared in accordance with IEC62321. ○: Indicates that the content of the hazardous substance in all homogeneous materials of the part is below the limit specified in IEC62321. ×: Indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit specified in IEC62321. Note: Partial components marked with × contains more harmful substances due to limited industry technology level and are temporarily unable to achieve the replacement or reduction.						



The projector products comply with the EU RoHS directive (restrictions on the use of certain hazardous substances directive in electrical and electronic equipment). All parts marked with × are exception parts permitted by EU RoHS instructions.

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 Corporation 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 Corporation 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 Corporation to obtain the latest version.

Safety Warnings and Guides

■ Labels and Tags

Observe and follow all warnings and instructions marked on the projector.



Indicates a dangerous condition that, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme case.



Indicates a dangerous condition that, if not avoided, could result in death or serious injury.



Indicates a risk condition that, if not avoided, may result in minor or moderate injury.

Caution! is used to indicate a situation that is not related to personal injury.

■ General Warning Information



Failure to observe the following safety instructions may cause damage to eyes and skin.



Never look directly at the projector lens or laser output. Extreme-high brightness may cause permanent eye damage. To avoid UV radiation, keep the housing complete when working with the projector. Use protective safety equipment and wear goggles during maintenance.



When the laser is on, do not open the protective enclosure.



Reflective objects in the laser beam are not allowed.

Overview

Installation Requirements

■ Environment conditions

The following table describes the physical environment for safe operation or storage of the AL-FX850/ FH850/FU850/FX10K/FH10K/FU10K projector.

Environment	Operation	Storage
Ambient temperature	0°C-40°C (*1)	-10°C-60°C
Humidity	10%-90% RH (non-condensing)	10%-90% RH (non-condensing)
Altitude	0-3000 m (*2)	0-3000 m

(*1): Derated use at 35°C-40°C

(*2): Below 2000 m for 3C certification

■ Main power requirements

The Apotronics engineering projector adopts the nominal single-phase power supply (with dedicated grounding PE).

Projector	Power Supply Requirements
AL-FX850 AL-FH850 AL-FU850 AL-FX10K AL-FH10K AL-FU10K	AC 100-240 V, 10A, 50/60 Hz

This projector comes with a power cable used to connect to the projector and the power supply.

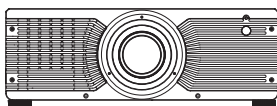
■ Projector weight

Do not underestimate the weight of this projector. The projector weighs about 35 kg. Ensure that the base or hoisting frame used to install the projector can withstand five times the entire load of the system.

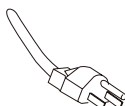
Overview

Packaging Overview

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.



Projector



Power cable



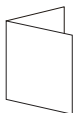
HDMI cable



Remote control



User Manual CD-ROM



Quick Start Guide



Warranty card



*Infrared receiver
extension cable*

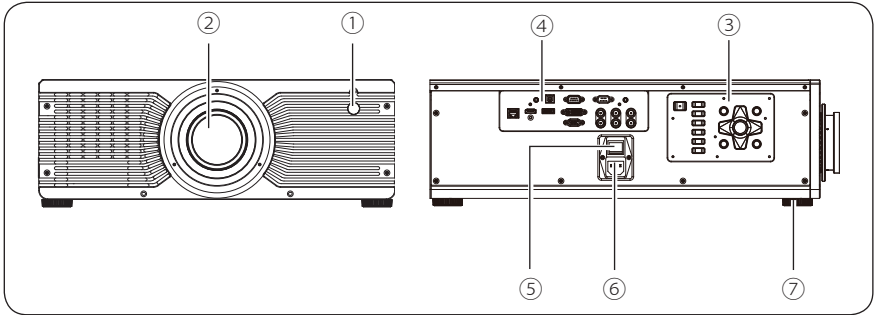
Caution

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

Overview

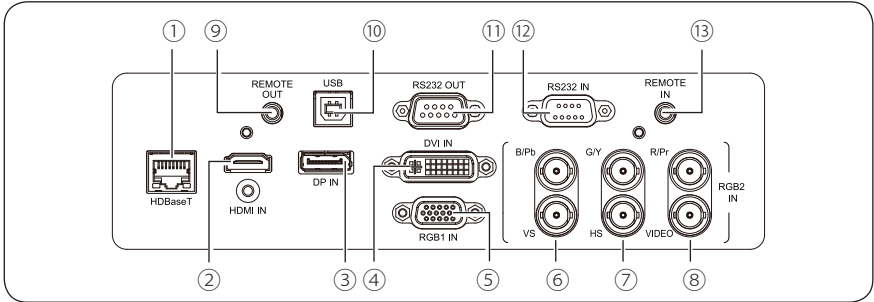
Projector Appearance

■ Main unit



- | | |
|-----------------------------|-------------------|
| ① Infrared receiver (front) | ⑤ Power switch |
| ② Projection lens | ⑥ Power port |
| ③ Control panel | ⑦ Adjustment feet |
| ④ Input and output panel | |

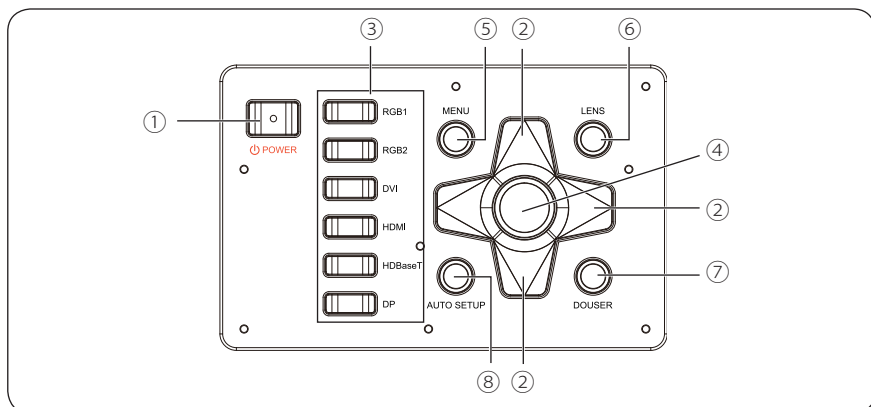
■ I/O panel



- | | | |
|----------------|-------------------|------------------|
| ① HDBaseT port | ⑥ B/Pb VS port | ⑪ RS232 OUT port |
| ② HDMI IN port | ⑦ G/Y HS port | ⑫ RS232 IN port |
| ③ DP IN port | ⑧ R/Pr VIDEO port | ⑬ REMOTE IN port |
| ④ DVI IN port | ⑨ REMOTE OUT port | |
| ⑤ RGB1 IN port | ⑩ USB port | |

Overview

■ Control panel



① POWER button (power-on/off)

Press the power button to enable the projector. In the power-on state, press the power button twice to power off the projector.

② Arrow key

Scroll up and down on the menu; select from the left or decrease the value, or select from the right or increase the value.

③ Signal source

RGB1/VIDEO (multiplexing), RGB2, DVI, HDMI, HDBaseT, and DP from top to bottom

④ OK button

Press to select or confirm the current value or item.

⑤ MENU button

Press the menu button to display the screen menu. Press the menu button again to go back to the previous menu or exit the screen menu.

⑥ LENS button

Press to call/switch to the lens adjustment menu. The functions include zooming, shifting and focusing.

⑦ DOUSER button

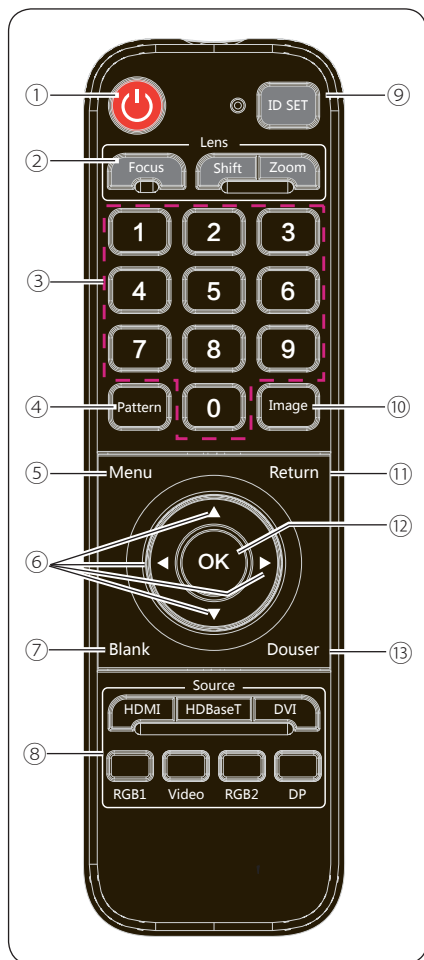
When an picture is displayed, press to disable the display, and press again to enable the display.

⑧ AUTO SETUP button

Press to enter the automatic lens centering adjustment.

Overview

Remote Control



① Power button

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 button to shut down the device.

② Lens

Press Focus, Shift or Zoom button repeatedly to enter the lens focusing, shifting or zooming menu.

③ 1/2/3/4/5/6/7/8/9/0 (number key)

Press to enter the corresponding number.

④ Pattern

Press repeatedly to display internal test pictures in a cycle manner.

⑤ Menu

Press to display the main menu. If you press the key again, the main menu disappears or the system returns to the previous-layer menu.

⑥ ▲▼◀▶ (Arrow key)

Scroll up or down to select the adjustment item; move to the left to select an adjustment item or decrease the value; move to the right to select an adjustment item or increase the value.

⑦ Blank

Press to switch the picture to the blank screen.

⑧ Source

Set the input source to HDMI, HDBaseT, DVI, RGB1, Video, RGB2 or DP.

⑨ ID SET

When multiple channels are spliced, set the ID number of each remote receiver.

⑩ Image

Press to switch image modes among standard, DICOM, picture, cinema, bright, REC709, video and user.

⑪ Return

Press to exit the settings.

⑫ OK

Press to select or confirm the current value or item.

⑬ Douser

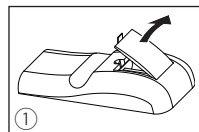
When an picture is displayed, press to disable the display, and press again to enable the display.

Overview

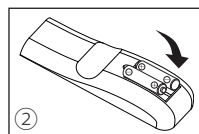
Replacing the Battery of the Remote Control

■ Procedure

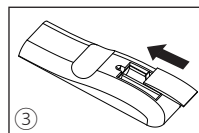
- ◆ Place the remote control with the back facing up, and open the battery cover.



- ◆ Put the new battery to the battery compartment. Ensure that the polarity (+ and -) of two AAA batteries are correctly connected to the connectors in the battery compartment.



- ◆ Install the battery cover.



■ Precautions for the remote control

- ◆ Ensure that the polarity is correct when inserting the battery.
- ◆ Do not throw the battery into the fire, since there may be a risk of explosion.
- ◆ If the remote control is not used for a long period of time, remove the battery to avoid leakage and damage to the remote control.
- ◆ The liquid in the battery is harmful to the skin. Do not let the hands directly contact the liquid. When installing a new battery, clean the leaked liquid thoroughly.
- ◆ In most cases, you only need to point the remote control to the screen. The infrared signals will be reflected back from the screen and received by the infrared sensor on the projector. However, in certain circumstances, the projector may fail to receive signals from the remote control due to environmental factors. In this case, point the remote control to the projector and try again.
- ◆ If the effective signal receive range of the remote control is short, or the remote control does not work, replace the battery.
- ◆ If the infrared receiver is exposed to fluorescent or strong sunlight, the remote control may not work properly.
- ◆ Please refer to requirements for handling waste batteries of the local government. Improper handling of waste batteries will cause damage to the environment.

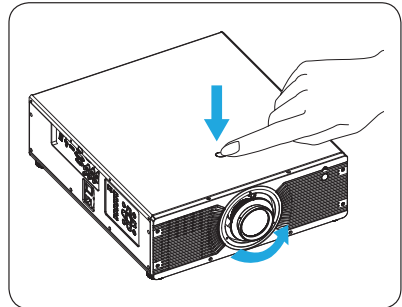
Installation

Replacing the Lens

- ◆ Before replacing the lens, shut down the projector and remove the power cable from the socket.
- ◆ Before replacing the lens, adjust the lens position to the center. If the lens is not in the center, replacement may fail.
- ◆ When moving the lens, do not stuck the lens at the lens opening.
- ◆ The projector and the lens are precision instrument parts. Do not vibrate them or use brute force.
- ◆ When replacing the lens, do not touch the lens surface.
- ◆ Do not leave dust or grease on the lens surface, nor scratch the lens surface.
- ◆ Do not replace the lens in a dusty room. Dust inside the projector will cause picture quality degradation.
- ◆ Do not separate the lens and projector for a long time. Dust inside the projector will cause picture quality degradation.
- ◆ Do not touch the signal contact of the lens. When the dust is adhered to the lens, it may cause contact failure.
- ◆ Do not transport the projector with an optional lens. Otherwise, the projector may be damaged.

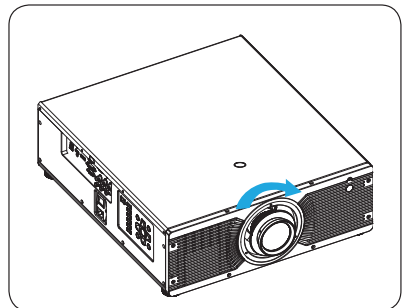
Removing the Lens

- ◆ Before replacing the lens, adjust the lens to the center.
- ◆ As shown in the figure, press the lens lock switch on the top cover, and rotate the lens counterclockwise for about 30 degrees.
- ◆ Hold the lens, and move forward to take out the lens.



Installing the Lens

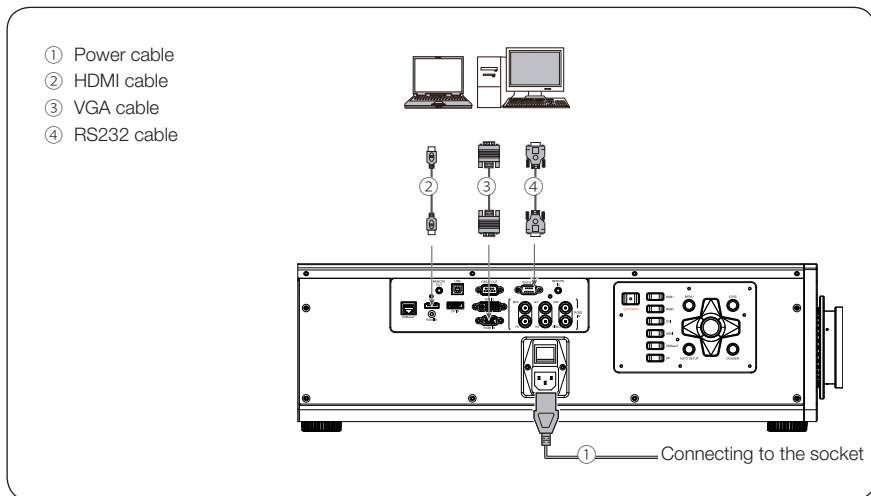
- ◆ Align the lens structure to lock the lens.
- ◆ Rotate the lens clockwise until you hear a "click" sound, indicating that the lens is aligned.
- ◆ At this time, the lens is installed.



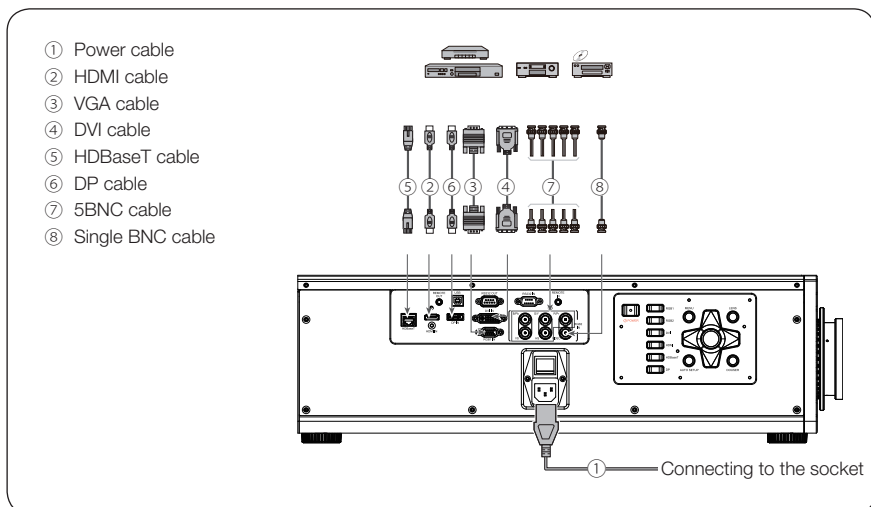
Installation

Connecting the Projector

- Connect the projector to the PC or laptop computer.



- Connecting to the video device

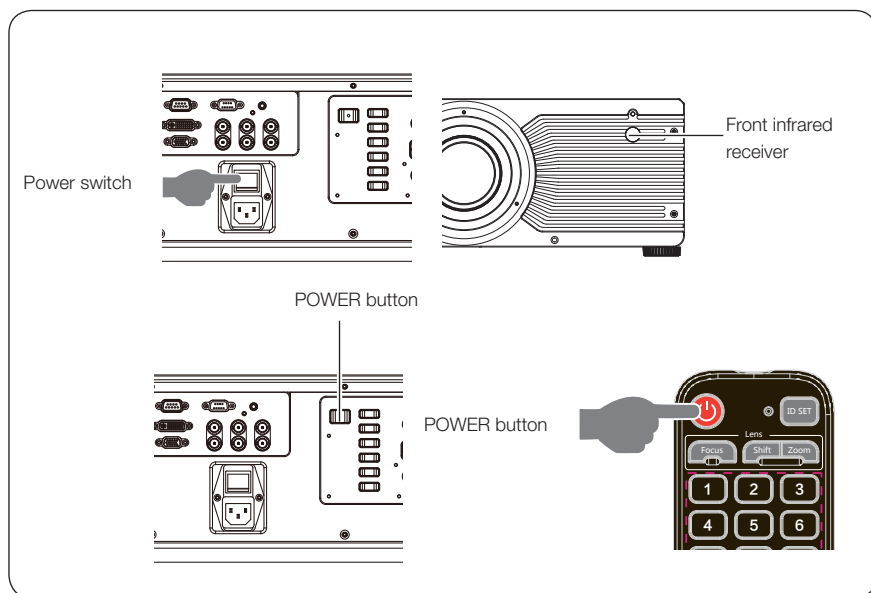


Installation

Powering On/Off the Projector

■ Powering on the projector

- ◆ Ensure that the power cable and signal cable are securely connected. Turn on the power switch and wait until the state LED indicator is steady on red.
- ◆ Press the power button on the remote control or control panel to start up the projector. The state LED indicator is on green, and the screen displays "No signal".
- ◆ Enable the signal source. Select the signal source (HDMI, HDBaseT, DVI, RGB1, Video, RGB2, or DP) using the remote control or button. The projector detects the input source and displays pictures.



■ Powering off the projector

- ◆ Press the power button on the remote control or control panel to shut down the projector.

Caution

- Do not power on the project immediately after it enters the standby mode.

Installation

Adjusting the Projected Picture

■ Adjusting the protector position

To determine the position where the projector is placed, consider the size and shape of the screen, the location of the power outlet, and the distance between the projector and other devices. The following are general principles:

- ◆ Place the projector on a flat surface and keep a correct angle with the screen.
- ◆ Place the projector at an ideal location from the screen.
- ◆ The distance from the projector lens to the screen, the zoom settings, and the video format determine the size of the projected picture.

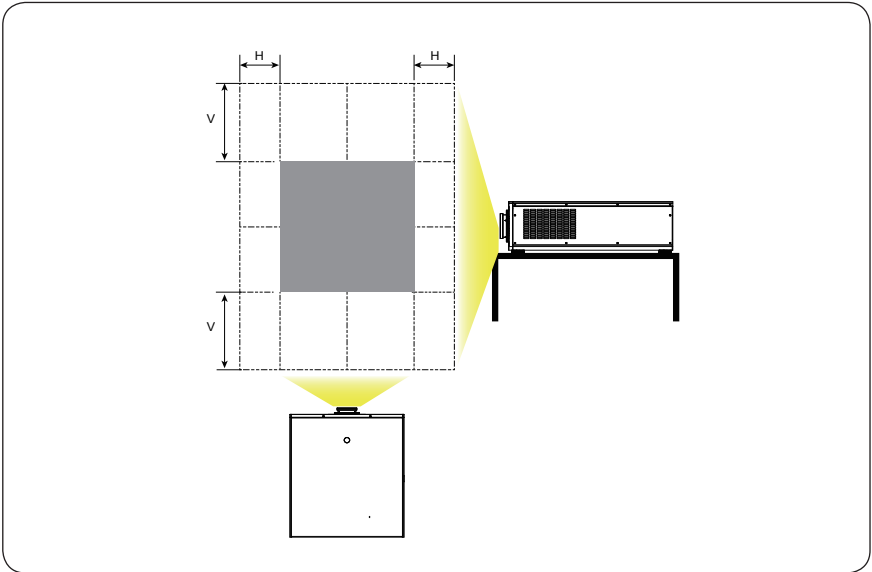
For the picture offset (shift) range of this projector, see the following table:

Model	H	V
AL-FU850/AL-FU10K	±30%	±60%
AL-FU850/AL-FU10K	±30%	±66%
AL-FX850/AL-FX10K	±31%	±51%

H: Horizontal offset range of the picture when the lens is centered.
V: Vertical offset range of the picture when the lens is centered.

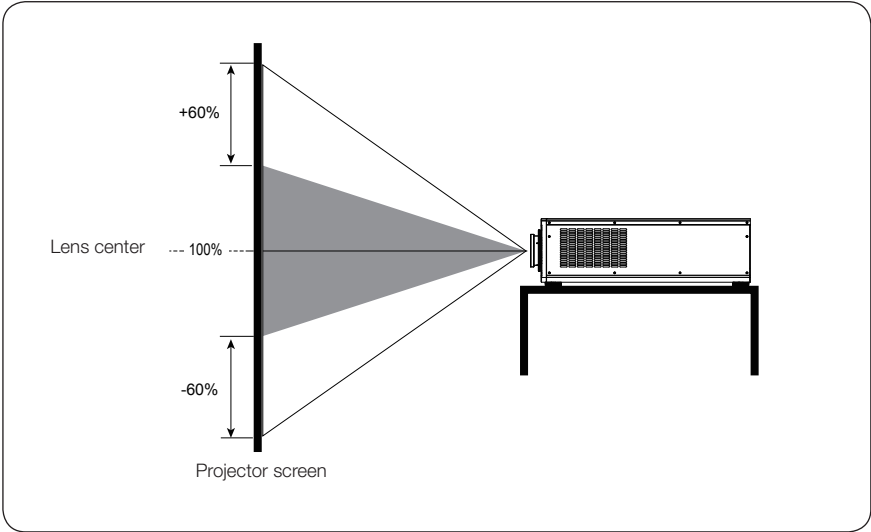
⚠ Caution

- The values in the table above are approximate and may differ slightly from the actual values. The actual values shall apply.

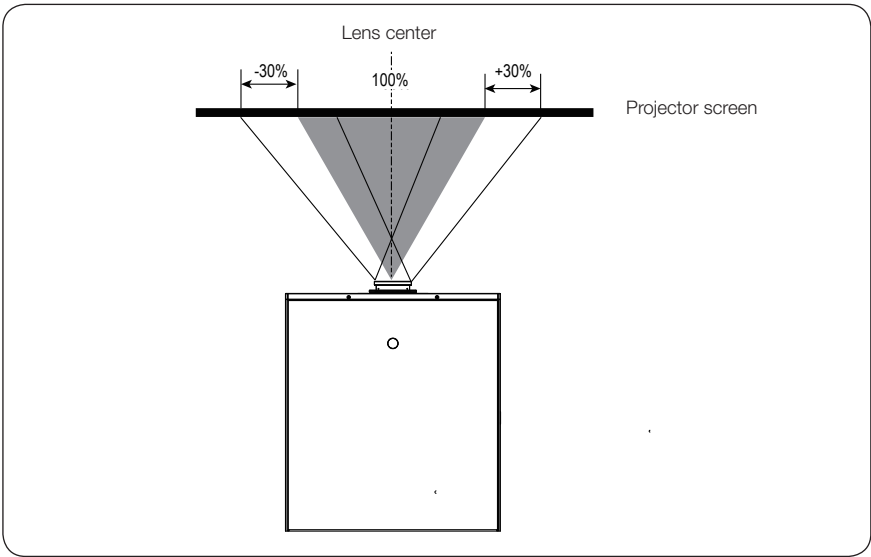


Installation

Schematic diagram of vertical offset when the lens is centered
The above table describes the vertical offset ranges when the lens in different models.



Schematic diagram of horizontal offset when the lens is centered



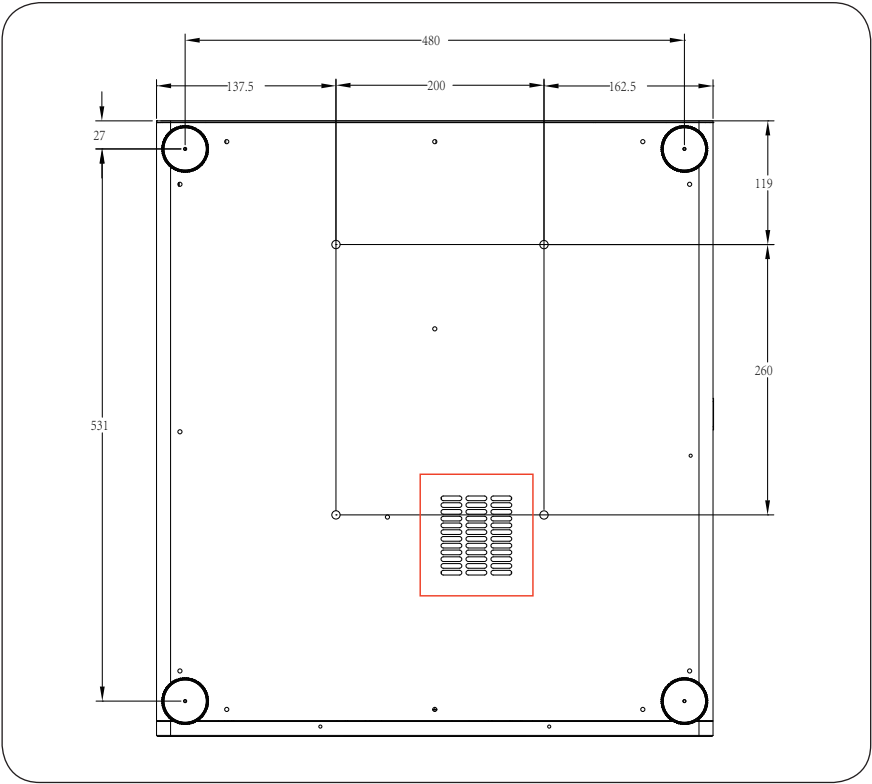
Installation

Ceiling-mounted Installation

Ensure that the screws used secure the mounting bracket meet the following specifications:

Screw type: It is recommended to use M6*16 screws.

Assembly size: see the figure below.



Caution

- When using the standard mounting brackets not provided by Apptonics, ensure that the standard mounting brackets meet the following requirements:
Within 5 mm around the heat dissipation hole and a height of 40 cm highlighted red in the above figure, there should be no obscure.
If the projector is damaged due to improper installation, the warranty becomes invalid.

User Menu Control

Sub-menu: Picture, Graph, Project, Settings, and Advance. You can move the cursor among these options. The menu supports automatic preview of sub-menus.

IMAGE



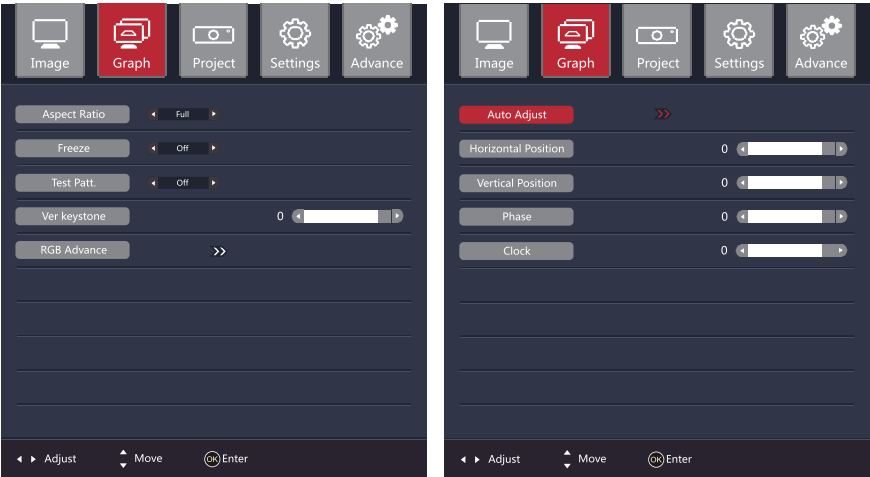
Image	
Function	Attribute Value
Picture Mode	Bright, Standard, DICOM, Image, Cinema, Bright, REC709 and Video
Brightness	0-100
Contrast	0-100
Gamma Set	Brightness, Standard, Linear, RGB, Film, Bright, Photo, Video
Sharpness	0-24
Color Temp.	6500K, 7500K, 9300K and User
Color Settings	Hue, Saturation, Gain and White
DNR	Off, Low, Mid, High, Ultrahigh
MPEG NR	On, Off
Bri.Color	On, Off

Caution

- Picture Mode is related to Gamma Set, Color Settings, Bri.Color function.

User Menu Control

GRAPH



Graph	
Function	Attribute Value
Aspect Ratio	Native, 4:3, 16:9 and 16:10
Freeze	On, Off
Test Patt.	OFF, White, Black, 100% Red, 100% Green, 100% Blue, 100% Cyan, 100% Magenta, 100% Yellow, Color Bar, Gray, Check Boarder, Grid, BGRW Ramp
Ver Keystone	±40
RGB Advance	Auto Adjust, Horizontal Position, Vertical Position, Phase, Clock

 Caution

- The aspect ratio "Native" will set the corresponding mode according to the aspect ratio of the input signal.
- RGB channel signal in RGB advanced settings
- ">>": Enter the sub-menu.

User Menu Control

PROJECT



Project	
Function	Attribute Value
Projection	Table Front , Table Rear, Ceiling Front and Ceiling Rear
Operation Mode	Std 100%, ECO 30% and ECO 50%
3D Setting	Off, Frame mode, Top by bottom and Side by side
Blank Screen	White, Red, Green, Blue, Cyan, Magenta, Yellow and Black
Input Source	HDMI, DVI, DP, HDBaseT, RGB1, RGB2/YUV, and CVBS



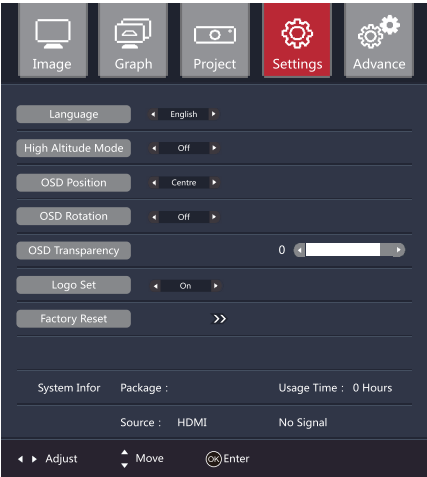
3D Setting	
Function	Attribute Value
3D FORMAT	ON, OFF
3D DISPLAY	DLP LINK, Infrared
L/R EYE FLIP	Press OK to swap between left and right eye.

 Caution

- The lens is automatically centered based on the voltage fed back by the sensor.

User Menu Control

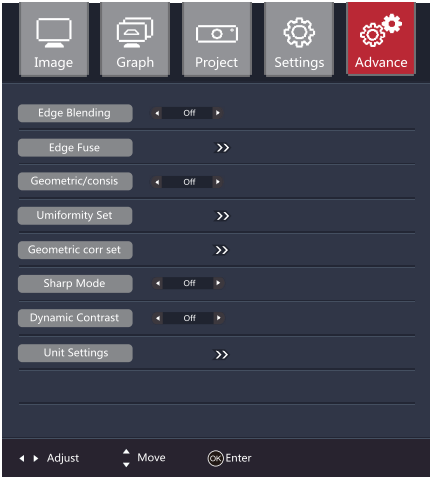
SETTINGS



Settings	
Function	Attribute Value
Language	Chinese and English
High Altitude Mode	On, Off
OSD Position	Center, Left-Top, Right-Top, Left-Below and Right-Below
OSD Rotation	90, 180, 270, and Off
OSD Transparency	0-5
Logo Set	On, Off
Factory Reset	Enter the sub-menu and select to reset the settings.

User Menu Control

ADVANCE



Advance	
Function	Attribute Value
Edge Blending	Off, On, On+menu
Edge Fuse	>>
Geometric/consis	On, Off
Uniformity Set	>>
Geometric corr set	>>
Sharp Mode	On, Off
Dynamic Contrast	On, Off, Advance
Unit Settings	>>

 Caution

- When the sharp mode is enabled, the sharpness of the picture is raised to the highest level.

User Menu Control

UNIT SPILT MENU

UNIT SPILT MENU		
Unit ID Settir	Hor:0	Ver:0
Stitching scal	Hor:0	Ver:0
Edges overlaj	Hor: 0	Ver: 0
Splicing switc	Off	

UNIT SPILT MENU	
Function	Attribute Value
Unit ID Setting	Horizontal Position: 1-15; Vertical Position: 1-15
Stitching scale	Horizontal Position: 1-15; Vertical Position: 1-15
Edges overlap	Size: 0-400
Splicing switch	On, Off

User Menu Control

IR ID SETTINGS

IR ID SETINGS

Unit ID

Hor: 0

Ver: 0

IR ID

Hor: 0

Ver: 0

Please Press Num. Key Set ID

IR ID FUNC OFF WHEN ID IS 0

OK

Enter

◀▶

Move

IR ID SETTINGS	
Function	Attribute Value
Unit ID	Horizontal Position: 1-15; Vertical Position: 1-15
IR ID	Horizontal Position: 1-15; Vertical Position: 1-15

 Caution

- On the advanced screen, select remote control ID to enter the level-2 menu, as shown in the above figure.

User Menu Control

Lens Position Adjustment



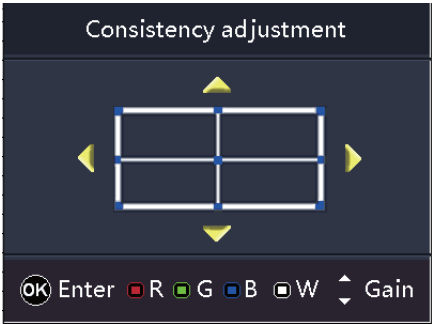
Lens Position Adjustment	
Function	Attribute Value
Lens Position Adjustment	Top, Below, Left, Right
Lens Zoom Adjustment	Top, Below
Lens Focus Adjustment	Top, Below

 Caution

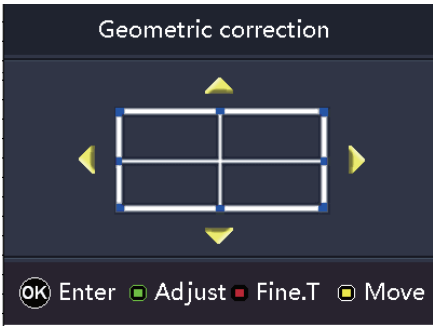
- On the projection screen, select lens adjustment to enter the level-2 menu, as shown in the above figure.

User Menu Control

Consistency Adjustment/Geometric Correction



Consistency adjustment	
Function	Attribute Value
Consistency adjustment	Press the OK button to switch between the adjustment and moving functions. Press the up, down, left and right buttons to select a point. In the adjustment mode, adjust the RGBW parameters using the left and right buttons, or switch between the gain and compensation functions using the up and down buttons.



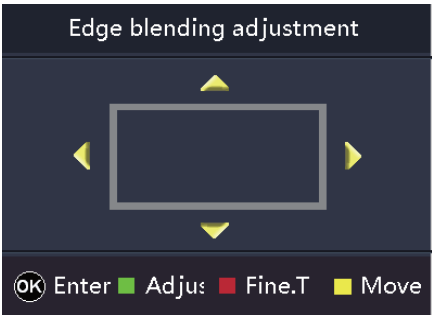
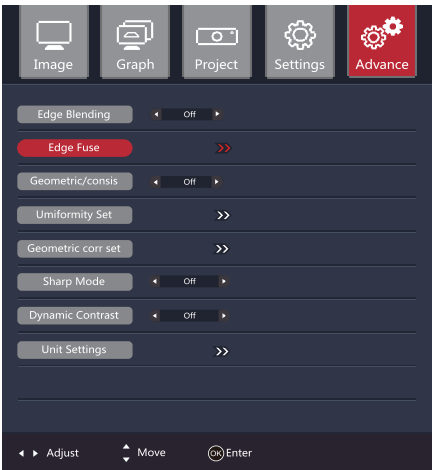
Geometric correction	
Function	Attribute Value
Geometric correction	Press the OK button to switch between the adjustment and moving functions; press the Up, Down, Left, and Right buttons to adjust or move.

 Caution

- On the advanced screen, select geometry correction to enter the level-2 menu, as shown in the above figure.

User Menu Control

Edge Blending Adjustment



Edge blending adjustment	
Function	Attribute Value
Edge Blending	Press the OK button to switch between the adjustment and moving functions; press the Up, Down, Left, and Right buttons to adjust or move.
Fine Adjustment	Through fine adjustment, the product function can be closer to the subjective desire of the controller.

 Caution

- On the advanced screen, select edge merging to enter the level-2 menu and enable the edge merging function. According to the location of the device, set the size of the merging area, making the device merging area and displayed overlapping area exactly the same, so that the entire cropping screen is integrated as a whole.

Fault Handling

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 remote control or control panel.

- 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 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 8 m (26 inches).

Fault Handling

Indicator

Light		Status
Red	Green	
Course light		
Off	Off	Power-off
On	Off	Standby mode
Off	On	Power-on state
Blinking	Off	Protection state upon safety switch anomalies
Blinking	Blinking	Protection state upon running anomalies
System protection		
 (SN 1)	Color wheel failed to be enabled	
 (SN 2)	DMD failed to be enabled	
 (SN 3)	Light source failed to be enabled	
 (SN 4)	Signal board anomaly detection	
 (SN 6)	Temperature anomaly detection for the light source	
 (SN 7)	Ambient temperature anomaly detection	
 (SN 10)	DMD temperature anomaly detection	
 (SN 11)	Temperature anomaly detection for the color wheel	
 (SN 12)	Fan state anomaly detection	
 (SN 13)	Upgrade failure	
 (SN 14)	DID synchronization anomaly	
 (SN 15)	DDP synchronization anomaly	
 (SN 16)	Pump alarm	

Fault Handling

(SN 17)	Power temperature alarm
(SN 18)	DLP anomaly
(SN 19)	PCB DIP switch error
(SN 20)	Power failure (no 12 V output)

 Caution

- : Red indicator short blinking -- red indicator on for 0.5s (+ red indicator off for 0.5s).
 - : Green indicator long blinking -- green indicator on for 1.5s (+ green indicator off for 0.5s).
- The error code sequence is displayed every 3s in a cycle manner.

Maintenance and Repair Services

Projector Maintenance

You need to regularly maintain the projector and clean the lens.

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.

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:

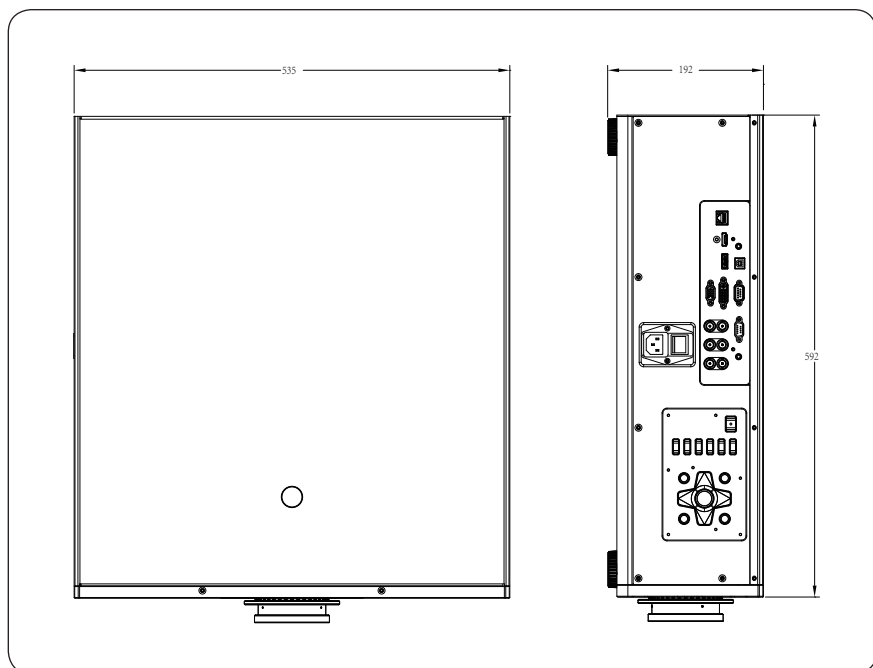
- ◆ Ensure that the temperature and humidity of the storage area are within the recommended range for the projector.
- ◆ Retract the adjustment feet.
- ◆ Remove the battery from the remote control.
- ◆ Use the projector's original packaging or equivalent material to package the projector.

Transporting the Projector

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

Device Dimensions

Projector Dimensions



Caution

- Be sure to use screws with the correct size. The length of the screw depends on the thickness of the lifting plate.
- Be sure to leave a gap of at least 10 cm between the ceiling and the bottom of the projector.
- Do not install the projector near heat sources.



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Version: Rev01

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