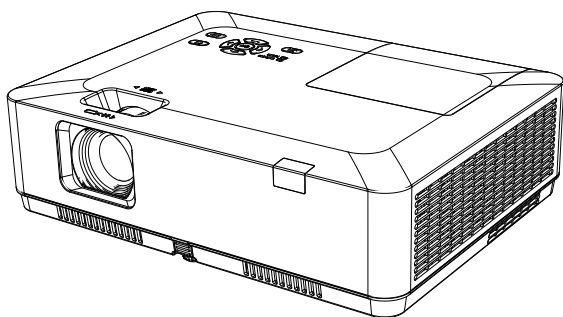


Panasonic®

Operating Instructions Functional Manual

LCD Projector Commercial Use

Model **PT-LAX35**
PT-LAX40
PT-LAX45
PT-LAW44



Thank you for purchasing this Panasonic product.

- Before operating this product, please read the instructions carefully and save this manual for future use.
- Before using this projector, be sure to read "Important Safety Notices" (➔ pages 5 to 9).

English

PCPSPD2607C

Functions and Design

This projector is designed with many cutting-edge technologies, featuring portability, durability, and ease of use. The projector incorporates multimedia functionality and uses LCD (Liquid Crystal Display) technology with a color depth of 1.07 billion colors.

Simple computer system setup

This projector employs a multi-scanning system that quickly adapts to almost all computer output signals. Supports resolutions up to 3840×2160.

Various useful projection functions

Digital zoom allows you to focus on key parts of the picture during projection.

Lamp brightness adjustment

You can select the brightness of the projector lamp.

Multi-language display

This projector provides multi-language menus.

Convenient maintenance features

Filter maintenance functions ensure proper maintenance of the projector.

Rich interface terminals

This projector has a variety of interface terminals to support various sources such as computers, laptops and media players.

High reliability

Uses a 240 W lamp light with a service life of up to 20000 hours*¹.

*¹ This used time is estimated under conditions of dust concentration 0.15 mg/m³, with [Adjust] menu → [Lamp Mode] set to [Eco]. At this time, brightness output will be reduced by approximately 50%. This time is only an approximate value and not the warranty time.

Quick Operation Steps

For details, refer to the corresponding pages.

- 1) Projector installation method.
(➡ page 19)



- 2) Before connection.
(➡ page 24)



- 3) Turning the projector on/off.
(➡ page 29)



- 4) Turning on the projector.
(➡ page 30)



- 5) Projection.
(➡ page 32)



- 6) Focus/Zoom adjust.
(➡ page 33)

✓ Note:

- Screen menus and illustrations in this manual may differ slightly from the actual product.
- Contents of this manual are subject to change without notice.

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Dear Panasonic Customer:

This instruction manual provides the information necessary for operation. We hope it helps you achieve better results in your presentations and that you get more enjoyment from your Panasonic LCD projector.

The serial number of this product is marked on the bottom of the unit. You may write it in the serial number field below for future reference when servicing.

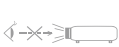
Product Model:PT-LAX35, PT-LAX40, PT-LAX45, PT-LAW44

Serial No.:

Safety Indications

This material and the projector use icons to explain how to use this product safely.

The meanings of the indications and their symbols are described below. Before reading this instruction manual, please be sure to correctly understand these instructions.

 Warning	Ignoring the information indicated by this icon may result in personal injury or even death due to incorrect operation.
 Note	Ignoring the information indicated by this icon may result in personal injury due to incorrect operation.
	This symbol indicates dangerous high voltage inside this component, risk of electric shock.
	Do not look into the lens light while the projector is in use. Like any light, do not stare directly into the beam, Risk Group 2 as defined in IEC 62471-5.
	Do not place anything in front of the projection lens while the projector is operating. Objects placed in front of the projection lens may overheat, burn, or catch fire. To temporarily pause projection, press the remote control <BLANK> key (only supported by the offline version remote control).

Warning: Risk of electric shock, do not open.



Markings on the projector



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



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Note:

- To avoid risk of electric shock, do not remove the cabinet (or back cover). No user-serviceable parts inside. Refer to a qualified service personnel.

Important Safety Notices

Before installing and operating this projector, please read this operating instructions completely.

This projector offers many convenient features and functions. Proper use allows you to take full advantage of these features and keep the unit in good condition for a long time. Improper operation can shorten the life of the projector and lead to malfunctions, fire, or other accidents.

If your projector does not work properly, please re-read this instruction manual, check the operating methods and cable connections, and then try the solutions in the "Troubleshooting" section of this manual. If the problem persists, please contact your dealer.

Disposing of Your Used Product



In the European Union

EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes projectors and their electrical accessories. When you dispose of such products, please follow the guidance of your local authority and/or ask the shop where you purchased the product.

After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact to the human health and the environment at the minimum level.

The mark on the electrical and electronic products only applies to the current European Union Member States.

Outside the European Union

If you wish to dispose of used electrical and electronic products outside the European union, please contact your local authority and ask for the correct method of disposal.

For EU:



The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.



EU Only:

This CE mark covers the battery(ies) supplied with the product and indicates that the battery(ies) comply with the requirements of the Battery Regulation (EU) 2023/1542.

EU Declaration of Conformity (DoC) for RE Directive:

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Customers can download a copy of the original DoC for this product from our DoC server:

<https://www.ptc.panasonic.eu/>

Authorized Representative in EU:

Panasonic Connect Europe GmbH

Panasonic Testing Centre

Winsbergring 15, 22525 Hamburg, Germany

Safety Precautions



Warning

Safety Precautions:

- This equipment must be grounded when in use.
- To ensure safe use and performance, before connecting the supplied AC power cord to the power supply line, make sure the grounding wire of the power supply line and other equipment connected to the projector comply with electrical code requirements; otherwise, electric shock or damage to the projector may occur.
- Do not remove the grounding prong of the power plug. This equipment is equipped with a 3-prong grounding-type power plug. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Never remove the grounding prong.
- The projection lens of this projector emits strong light. Do not look into the lens to avoid eye injury. Pay particular attention to children, ensuring they do not look directly into the beam.
- Do not use any power cord other than the supplied one.
- Do not modify the supplied power cord.
- Do not excessively bend or pull the power cord.
- The power outlet or circuit breaker should be installed near the equipment and be easily accessible.
- Regularly clean the power plug to prevent dust from covering the plug.
- Firmly insert the power plug into the power outlet and ensure the power connector is firmly inserted into the projector's power inlet.
- Do not overload the outlet or power cord to avoid fire or electric shock. Do not place objects on the power cord. Do not place the projector where the power cord can be stepped on and damaged.
- Before cleaning this projector, unplug the power cord. Do not use liquid or aerosol cleaners, or a wet cloth.
- During thunderstorms, do not touch the projector or cables.
- Follow all warnings and instructions marked on the projector. To protect the projector during lightning storms, when unattended, or when not in use for long periods, unplug the power cord to prevent damage from lightning and voltage fluctuations.
- Do not use accessories not recommended by the manufacturer to avoid hazards.
- When mounting this projector to the ceiling, it can only be installed on a ceiling or wall with sufficient load-bearing strength.

Important Safety Notices



Note

Projector Placement Precautions:

- Place the projector in a suitable location. Otherwise, a fire may occur.
- To avoid fire, electric shock, or product damage, do not expose this equipment to rain or moisture.
- Do not place the projector in oily, humid, or smoky environments (e.g., kitchen) to avoid malfunction or accident. If the projector comes into contact with oil or chemicals, damage may occur.
- Do not place the projector near exhaust pipes or air conditioning equipment.
- Do not install the projector where salt pollution or corrosive gases may be present.
- Do not place this projector near radiators or heating pipes.
- Do not place this projector on an unstable cart, stand, or table to prevent it from falling, causing injury to children or adults and serious damage to the projector. Use only a cart or stand recommended by the manufacturer or sold with the unit. When wall or shelf mounting, follow the instructions in the instruction manual and use manufacturer-approved mounting hardware.
- Move the projector with the cart carefully. Sudden stops, excessive force, and uneven surfaces may cause the projector and cart to overturn.
- When placing the projector in a high position, make sure to secure it properly to prevent personal injury from falling.



Note

Projector Usage Precautions:

- This projector should only be used with the electrical power type indicated on the label. If you are unsure of the electrical power type, consult your dealer or local electrical company.
- Do not open or remove the cabinet for servicing to avoid electric shock or other injury. Refer to a qualified service personnel.
 - Unplug the power cord and refer to a qualified service personnel under the following conditions:
 - a. The power cord or plug is damaged or worn out.
 - b. Liquid has been spilled into the projector.
 - c. The projector has been exposed to rain or water.
 - d. The projector has been dropped or the cabinet has been damaged.
 - e. The projector exhibits a distinct change in performance, indicating a need for service.
- When replacement parts are required, ensure the service personnel uses manufacturer-approved replacement parts with the same characteristics as the original. Unauthorized replacements may cause fire, electric shock, or personal injury.
- After any maintenance or repair, ask the service personnel to perform routine safety checks to ensure the projector is in safe operating condition.
- Unplug the AC power cord if the projector will not be used for a long period.
- Do not insert earphones or headphones into the <Audio Output> terminal.
- Depending on the usage environment, time, and usage pattern, the maintenance interval for the projector may vary. We recommend having the projector serviced at least once a year. Contact your dealer for details.

Trademark

- Windows, Internet Explorer, and Microsoft Edge are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Android and Google Chrome are trademarks of Google LLC.
- HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
- Intel® is a trademark of Intel Corporation in the United States and/or other countries.
- PJLink is a trademark or pending trademark in Japan, the United States, and other countries.
- IOS is a trademark or registered trademark of Cisco Company in the United States and other countries under license.
- All other names, company names, and product names mentioned in this operating instructions are trademarks or registered trademarks of their respective owners.

About the Software Information of this Product

This product contains the following software:

- (1) software licensed under GNU General Public License Version 2.0 (GPL V2.0),
- (2) software licensed under GNU LESSER General Public License Version 2.1 (LGPL V2.1), and/or

- (3) open source software other than that permitted under GPL V2.0 and/or LGPL V2.1.

The software distributed as (1)-(3) is hoped to be useful, but comes with no warranty, not even the implied warranty of merchantability or fitness for a particular purpose.

For at least three years after the sale of this product, Panasonic will provide, to any third party who contacts us via the contact information below, a complete machine-readable copy of the corresponding source code under the terms of GPL V2.0, LGPL V2.1, or other licenses with such obligations, and the copyright notices, at a charge no more than the cost of physically performing source distribution.

Contact: oss-cd-request@gg.jp.panasonic.com

Illustrations in this manual

- Please note that illustrations of the projector and screen may differ from the actual product.

Reference pages

- In this instruction manual, reference pages are indicated as: (➡ page *).

Terminology

- In this instruction manual, the "wireless remote control" accessory is called the "remote control".

Notices

- Contents of this instruction manual are subject to change without notice.

Symbols

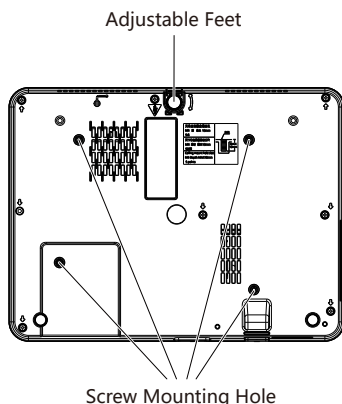
- ~: AC (alternating current), I: Power on, ⏻: Standby

Preparation

Usage Precautions

Projector Installation Precautions

- Do not install the projector outdoors.
- When using the projector at altitudes below 1400 m, ensure [High Altitude] is set to [Off]. When using the projector at altitudes above 1400 m and below 2700 m, ensure [High Altitude] is set to [On]. Do not use the projector at altitudes above 2700 m. Otherwise, the life of internal components may be shortened or malfunctions may occur.
- Do not stack multiple projectors vertically.
- If installing and using the projector not on the floor via the adjustable feet, fix the projector to a stand using the four screw mounting holes (as shown). For details on the screw hole positions, refer to "Projector bracket Screw Mounting Hole Specifications" (➡ page 82). (Screw diameter: M4, internal thread depth inside projector: 10 mm, torque: 1.25 ± 0.2 Nm)



Do not use in the following situations.

- Places subject to vibration or impact, such as in vehicles or other conveyances: otherwise, internal components may be damaged or malfunctions may occur.
- Near the sea or in places affected by corrosive gases: otherwise, internal components may be damaged or projector

malfunctions may occur.

- Near air conditioner exhaust outlets: Depending on usage conditions, in rare cases, the screen may fluctuate due to hot air exhausted from the outlet or cold/hot air blown from the air conditioner. Ensure that exhaust air from the projector or other equipment, or air blown from the air conditioner, does not blow directly onto the front of the projector.
- Places with drastic temperature changes, such as near light (studio lamps): otherwise, lamp life may be shortened, or the casing may deform due to heat, leading to malfunction.
- Near high-voltage power lines or near motors: otherwise, projector operation may be interfered with.

Moving the Projector

- When carrying the projector, hold it firmly by the bottom, avoiding excessive vibration or impact. Otherwise, internal components may be damaged and malfunctions may occur.
- When moving the projector, protect the cabinet and retract the adjustable feet.



Note

Precautions when carrying or transporting the projector:

- Do not drop or bump the projector, as this may damage it or cause malfunctions.
- Use an appropriate carrying case for transport.
- Do not allow couriers or other transport companies to use unsuitable shipping boxes. Otherwise, the projector may be damaged. For information on shipping the projector via courier or transport company, consult your dealer.
- Do not place the projector in its packaging until it has cooled down sufficiently.

Air Circulation

The holes in the cabinet are for ventilation and to prevent overheating.

To ensure proper operation and prevent overheating, do not block or cover these holes.

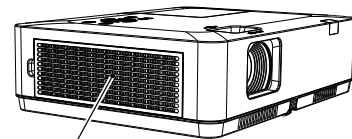


Note

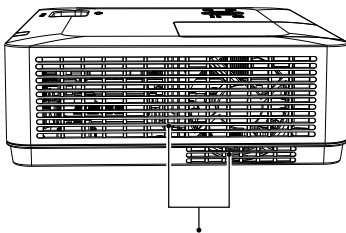
Hot air is exhausted from the exhaust vents. When using or installing the projector, note the following:

- Do not place flammable materials or spray cans near the projector.
- Ensure the exhaust vents are at least 1 meter away from other objects.
- Do not touch the area around the exhaust vents, especially metal parts such as screws. These parts become very hot once the projector starts operating.
- Do not place anything on top of the cabinet. Objects placed on the cabinet may not only be damaged but may also cause fire due to heat.

A cooling fan is used to cool the projector. This projector Adjust the fan speed according to the internal temperature.



Intake vent
(Cool air intake)



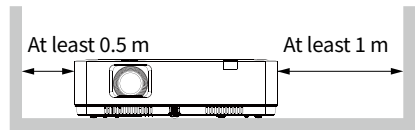
Exhaust vent
(Hot air exhaust)



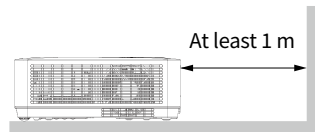
Warning

Ventilation Precautions:

- Leave adequate space on the top, sides, and back of the cabinet for ventilation and to cool the projector. The dimensions shown in the diagram indicate the minimum distances to maintain. If the projector is placed in a cabinet or similar enclosed environment, the minimum distance requirements must be met.



Side



Rear

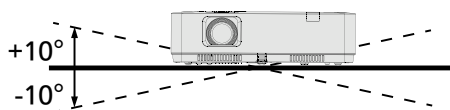
- Never cover the ventilation openings of the projector. Poor heat dissipation will shorten the projector's life and may cause danger.
- The slots and openings on the back and bottom are for ventilation to prevent the equipment from overheating and ensure stable operation.
- Do not cover the vents with cloth or other objects, and never place the projector on a bed, sofa, carpet, or similar surface where the bottom vents could be blocked.
- Do not place the projector in a built-in environment such as a bookcase unless proper ventilation is provided.
- Do not let any objects fall into the projector through the cabinet vents, as this could cause fire or electric shock due to contact with dangerous voltage points or short circuits. Do not spill liquid onto the projector.

Preparation

Ensure the projector is placed correctly before projection



Do not tilt the projector up or down more than ± 10 degrees.



Do not tilt the projector left or right more than ± 10 degrees.

Security

When using this product, take security measures against the following events:

- Personal information leakage caused by this product.
- Unauthorized operations performed on this product by malicious third parties.
- Interference or prevention of adequate security measures by malicious third parties.
- Set a password that is as difficult to guess as possible.
- Panasonic or its affiliates will never directly ask you for your password. Do not disclose your password if you receive such an inquiry.
- Network connection must be protected by a firewall or other software.

Precautions for Use

Obtaining good picture quality

- By creating a suitable environment, you can see a high-contrast, high-quality picture. Pull down curtains or blinds to cover windows, and turn off any lights near the screen to prevent outdoor light or indoor lighting from shining directly

onto the screen.

Do not touch the surface of the projection lens directly with your hands

- If the projection lens becomes dirty with fingerprints or other substances, these stains will be magnified and projected onto the screen.

LCD panels

- LCD panels are manufactured using high-precision technology. Note that in rare cases, high-precision pixels may be missing or remain constantly lit. Note that this phenomenon is not a malfunction. If a static picture is projected for a long time, an afterpicture may remain on the LCD panels. If this occurs, display a full white screen in test mode for one hour or more.

Optical Components

- When the operating environment temperature is high or there is a lot of dust, smoke, etc., the replacement cycle for the LCD panels, polarizing plates, and other optical components may be shortened, even if the used time is less than one year. For details, consult your dealer.

Connecting Computers and External Devices

- When connecting a computer or external device, carefully read the information in this instruction manual regarding the use of power cords and shielded cables.

Storage

When storing the projector, keep it in a dry place.

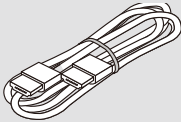
Disposal

Consult your local authorities or dealer for proper disposal of this product.

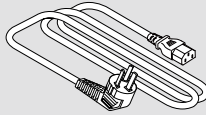
Dispose of used batteries according to this instruction manual or your local regulations/guidelines.

Accessories

This projector comes with all the items shown below. Check the packaging to ensure all items are present. If any item is missing, contact your dealer immediately.



HDMI cable<*1>
(C310018100)

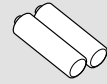


(Power cord quantity and spec may vary according to country & region)

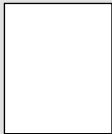
Power cord<*1>
(C310017600)
(C310000400)



Wireless remote control unit<*1>
(C393015400)



Batteries
(AAA type)<*2>
(C391000901)



Quick start guide<*1>
(C510118101)

Note:

- After unboxing the projector, properly discard the power cord cap and packaging materials.
- Do not use any cables other than the supplied power cord and HDMI cable.
- Do not use the supplied power cord and HDMI cable for devices other than this projector.
- Do not modify the supplied power cord or HDMI cable.
- If any accessory is missing, contact your dealer.
- Store small parts such as batteries properly to keep them out of reach of children.
- The power cord supplied with this product complies with GB/T 2099.1 "Household and similar plugs and sockets – Part 1: General requirements", hereby declared.

Note:

- Accessory model numbers are subject to change without notice.

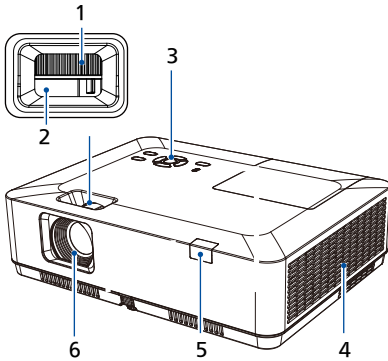
Optional Accessories:

Optional Accessories	Model
Replacement Filter Unit	ET-RFL320
Replacement Lamp Unit	ET-LAL520

Preparation

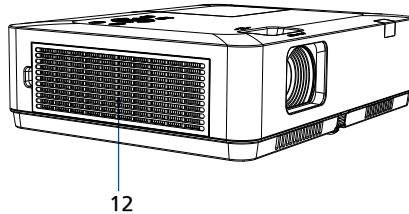
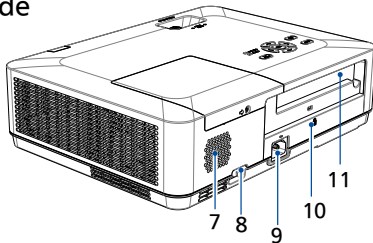
Projector Body

Front/Top

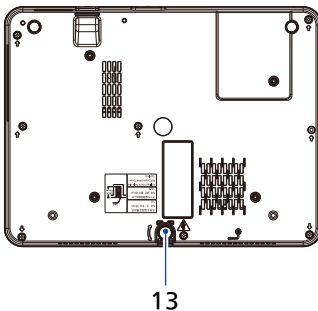


- 1 Focus ring
- 2 Zoom ring
- 3 Control panel
- 4 Exhaust vent
- 5 Remote receiver (front)
- 6 Projection lens
- 7 Speaker
- 8 Security lock hole
- 9 AC power inlet
- 10 Kensington security slot
- 11 Terminal board
- 12 Intake vent
- 13 Adjustable feet

Side



Bottom



Note

- Kensington security slot: Used to prevent projector theft.

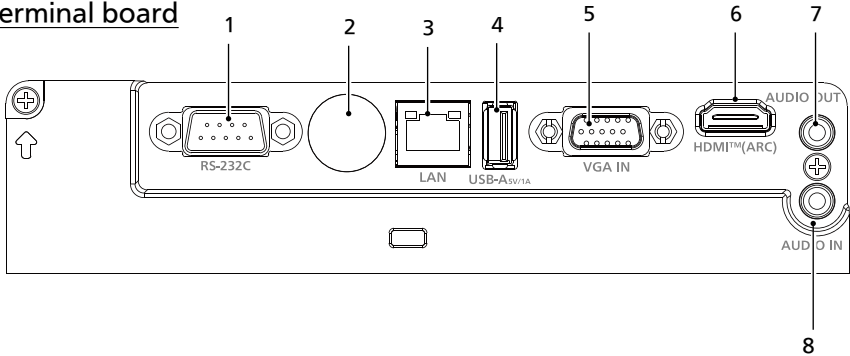


Warning

Keep hands and objects away from the exhaust vent:

- Hot air is exhausted from the vent. Do not place hands or face, or objects that are not heat-resistant near this outlet [allow at least 1 meter of space]; otherwise, burns or damage may result.

Terminal board



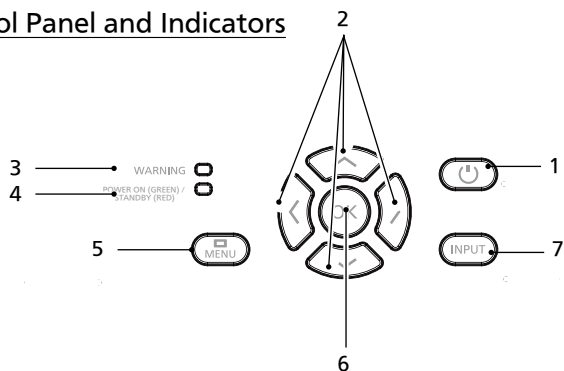
- 1 **Serial input terminal**
Connect serial communication to this terminal when operating the projector using RS-232 protocol commands.
- 2 **Remote receiver (rear)**
Use the remote control to operate the projector.
- 3 **LAN terminal**
Connect a network cable to this terminal when controlling and operating the projector via wired LAN.
- 4 **USB-A terminal**
When using the "File Management" channel, insert a USB storage device directly into this terminal.
- 5 **Computer input terminal**
Connect output signals from a computer to this terminal.
- 6 **HDMI input**
Connect HDMI output signals to this terminal.
- 7 **Audio output terminal**
Output all audio signals through this terminal to an amplifier or other audio equipment.
- 8 **Audio input terminal**
Audio input (left/monaural/right) terminal.

Note:

- The device's Ethernet port can be directly connected to a local area network (LAN) or a router (including one with Internet access). It is intended solely for local device control and parameter settings; the device itself does not support Internet connectivity.

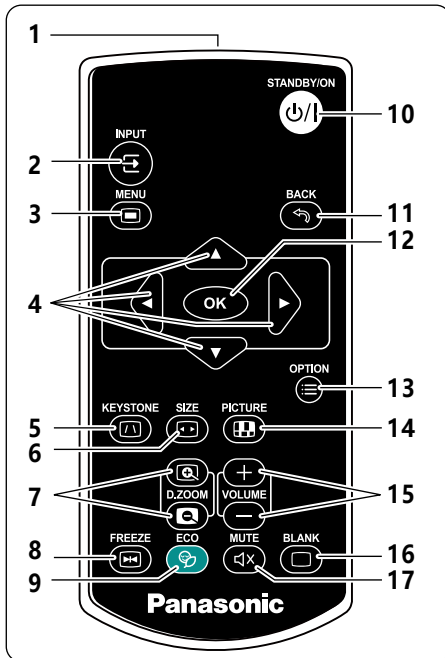
Preparation

Top Control Panel and Indicators



- 1 Power key
Turn the projector on or off.
- 2 ▲▼◀▶ keys
 - Select items or adjust data in the on-screen menu.
- 3 WARNING indicator
 - Flash red when the internal temperature of the projector exceeds the operating range.
- 4 POWER ON (GREEN)/STANDBY (RED) indicator
 - Light red constantly when the projector is in standby mode.
 - Light green constantly during operation.
 - Flash red during fan cooling state.
 - Light red constantly when the projector light is abnormal.
- 5 MENU
Open or close the menu.
- 6 OK key
 - Enter menu operations.
 - Execute the selected item.
- 7 INPUT key
Select the source.

Remote Control



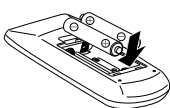
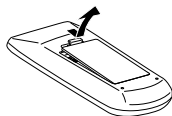
- 1 Remote control signal emitter
- 2 <INPUT> key
Open the input source menu.
- 3 <MENU> key
Display the main menu page.
- 4 ▲▼◀▶ Keys
 - Select items or adjust data in the on-screen menu.
 - Select the picture display area in the positions adjust menu.
- 5 <KEystone> key
Perform keystone distortion correction or 4-cornerstone.
- 6 <SIZE> key
Adjust the aspect ratio of the picture.
- 7 <D.ZOOM +> / <D.ZOOM -> key
Zoom in or zoom out the picture.
- 8 <FREEZE> key
Freeze the projected picture.

- 9 <ECO> key
Reduce projector brightness and energy consumption.
- 10 Power key <⏻/▶> (▶: ON, ⏻: STANDBY)
Turn the projector on or off.
- 11 <BACK> key
Exit the menu.
- 12 <OK> key
Execute the selected adjust item.
- 13 <OPTION> key
Display, under the "File Management", channel, the control option menu for playing pictures/videos/music.
- 14 <PICTURE> key
Select the picture mode.
- 15 <VOLUME +> / <VOLUME -> key
Adjust the volume of the built-in speaker or audio output.
- 16 <BLANK> key
Pause the image and mutes the audio.
- 17 <MUTE> key
Temporarily mutes the audio.

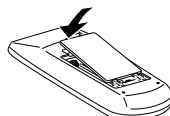
Preparation

Installing Remote Control Batteries

- 1 Open the battery cover.
- 2 Insert new batteries into the compartment.
- 3 Close the cover.



Two AAA batteries.
Note the correct
polarity (+ and -),
ensuring the battery
electrodes contact
the terminals inside
the compartment.



For safe operation, observe the following:

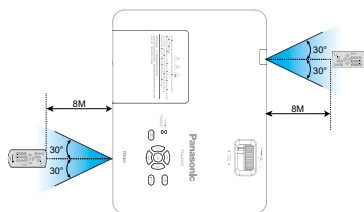
- Replace both batteries at the same time.
- Do not use one new and one old battery together.
- Avoid contact with water or other liquids.
- Do not leave the remote control in a humid or hot environment.
- Avoid dropping the remote control.
- If battery leakage occurs in the remote control, carefully clean the battery compartment and insert new batteries.
- There is a risk of explosion if batteries are replaced with an incorrect type.
- Dispose of used batteries according to this instruction manual or your local regulations/guidelines.
- Keep batteries out of reach of children. (Accidental swallowing of batteries can cause physical injury. If swallowed, seek medical attention immediately.)

Remote Control Operating Range

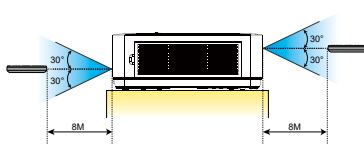
Aim the remote control at the projector's remote receivers (front and rear) when operating.

The remote control's maximum operating range is within a signal reception angle of $\pm 30^\circ$ from the front of the projector, with a signal reception distance of approximately 6 meters, and a maximum signal reception distance of up to 8 meters (line of sight).

[Operating range (left/right)]

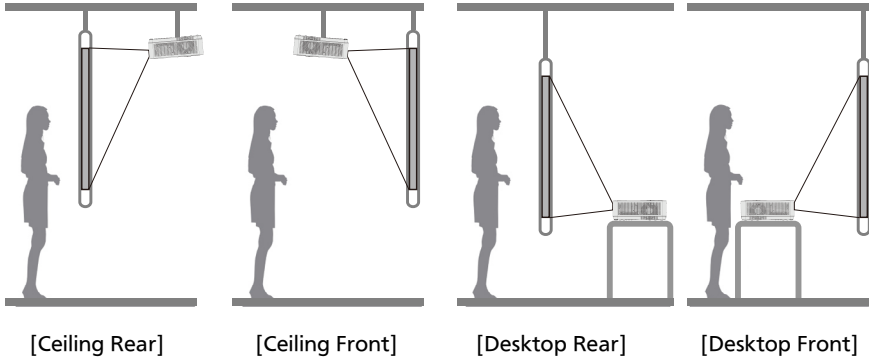


[Operating range (up/down)]



Projector Installation Methods

This projector supports the following four methods ([Desktop Front], [Desktop Rear], [Ceiling Front], [Ceiling Rear]). Install the projector according to the installation location. The default [Projection Method] setting is [Desktop Front]. You can change other projection method settings from the menu options.

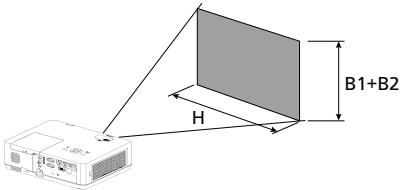
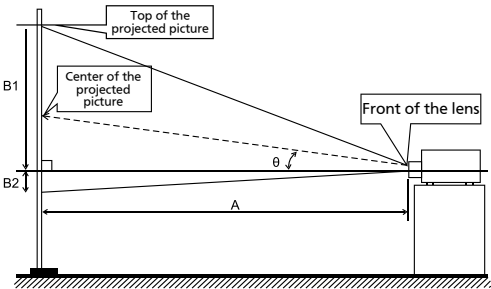


Installation

Projected Picture Size and Projection Distance

- Since indoor brightness significantly affects the projected picture quality, limiting indoor light is recommended for optimal picture.
- The values shown in the diagrams are approximate and may differ from actual dimensions.
- The farther the projector is from the screen, the larger the projection size becomes.
- Use the tables below to install the projector at the optimal distance from the screen. The values provided are for reference only.

(Unit: m)



Note:

- Before installation, refer to "Usage Precautions" (➡ page 10).

■ For PT-LAX35

Screen Size	Projection distance (m)							
	Standard 4:3				Compatible 16:9			
Screen Size	Picture width H (m)	Picture height B1+B2 (m)	Min. (at max. zoom)	Max. (at min. zoom)	Picture width H (m)	Picture height B1+B2 (m)	Min. (at max. zoom)	Max. (at min. zoom)
30	0.610	0.457	0.876	1.062	0.664	0.374	0.957	1.159
60	1.219	0.914	1.779	2.151	1.328	0.747	1.941	2.345
80	1.626	1.219	2.381	2.876	1.771	0.996	2.596	3.136
100	2.032	1.524	2.983	3.602	2.214	1.245	3.252	3.927
150	3.048	2.286	4.487	5.416	3.321	1.868	4.891	5.903
200	4.064	3.048	5.992	7.230	4.428	2.491	6.531	7.880
250	5.080	3.810	7.497	9.045	5.535	3.113	8.170	9.856
300	6.096	4.572	9.001	10.859	6.641	3.736	9.809	11.833

■ For PT-LAX40, PT-LAX45

Screen Size	Projection distance (m)							
	Standard 4:3				Compatible 16:9			
Screen Size	Picture width H (m)	Picture height B1+B2 (m)	Min. (at max. zoom)	Max. (at min. zoom)	Picture width H (m)	Picture height B1+B2 (m)	Min. (at max. zoom)	Max. (at min. zoom)
30	0.610	0.457	0.876	1.062	0.664	0.374	0.957	1.159
40	0.813	0.610	1.177	1.425	0.886	0.498	1.285	1.555
60	1.219	0.914	1.779	2.151	1.328	0.747	1.941	2.345
70	1.422	1.067	2.080	2.513	1.550	0.872	2.269	2.740
80	1.626	1.219	2.381	2.876	1.771	0.996	2.596	3.136
90	1.829	1.372	2.682	3.239	1.992	1.121	2.924	3.531
100	2.032	1.524	2.983	3.602	2.214	1.245	3.252	3.926
120	2.438	1.829	3.585	4.328	2.657	1.494	3.908	4.717
150	3.048	2.286	4.487	5.416	3.321	1.868	4.891	5.902
200	4.064	3.048	5.992	7.230	4.428	2.491	6.531	7.879
250	5.080	3.810	7.497	9.045	5.535	3.113	8.170	9.855
300	6.096	4.572	9.001	10.859	6.641	3.736	9.810	11.831

■ For PT-LAW44

Screen Size	Projection distance (m)							
	Standard 16:10				Compatible 4:3			
Screen Size	Picture width H (m)	Picture height B1+B2 (m)	Min. (at max. zoom)	Max. (at min. zoom)	Picture width H (m)	Picture height B1+B2 (m)	Min. (at max. zoom)	Max. (at min. zoom)
30	0.646	0.404	0.858	1.041	0.610	0.457	0.975	1.182
40	0.862	0.538	1.153	1.397	0.813	0.610	1.309	1.585
60	1.292	0.808	1.743	2.109	1.219	0.914	1.977	2.391
70	1.508	0.942	2.038	2.465	1.422	1.067	2.311	2.794
80	1.723	1.077	2.333	2.821	1.626	1.219	2.645	3.197
90	1.939	1.212	2.628	3.176	1.829	1.372	2.978	3.600
100	2.154	1.346	2.923	3.532	2.032	1.524	3.312	4.003
120	2.585	1.615	3.513	4.244	2.438	1.829	3.980	4.808
150	3.231	2.019	4.398	5.312	3.048	2.286	4.982	6.017
200	4.308	2.692	5.873	7.091	4.064	3.048	6.651	8.032
250	5.385	3.365	7.348	8.870	5.080	3.810	8.321	10.046
300	6.462	4.039	8.823	10.650	6.096	4.572	9.990	12.061

Installation

Calculation formula for projected picture size (X = projected picture size in inches)

X = projected picture size in inches

A = projection distance in meters

Values are approximate, may differ slightly from actual distance.

■ For PT-LAX35, PT-LAX40, PT-LAX45

16:10	WIDE	X	=	31.35	A	+	0.8323
	TELE			26			0.6886
16:9	WIDE	X	=	30.5	A	+	0.8098
	TELE			25.3			0.67
4:3	WIDE	X	=	33.23	A	+	0.8822
	TELE			27.56			0.7299

■ For PT-LAW44

16:10	WIDE	X	=	33.9	A	+	0.8997
	TELE			28.1			0.7428
16:9	WIDE	X	=	32.98	A	+	0.8754
	TELE			27.34			0.7227
4:3	WIDE	X	=	29.95	A	+	0.7947
	TELE			24.82			0.6561

Adjustable Feet

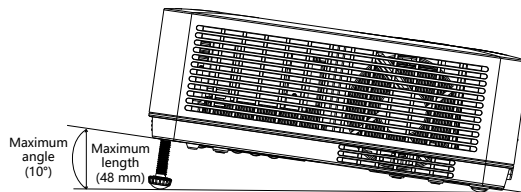
Adjusting the projected picture position

1. Place the projector perpendicular to the screen, as shown in figure (1).
2. Lift the front of the projector and press the feet lock on the projector.

Release the feet lock to lock the adjustable feet, then rotate the adjustable feet to adjust the height.

Rotate the adjustable feet in the direction shown in figure (2) to extend it, and in the opposite direction to retract it.

(Adjustable vertical projection angle)



Feet Lock

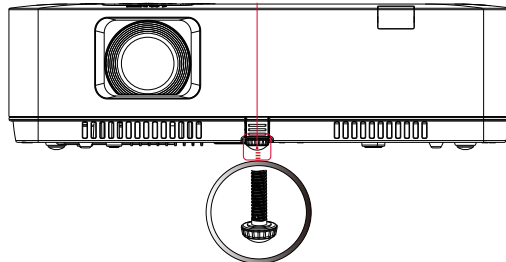


figure (1)

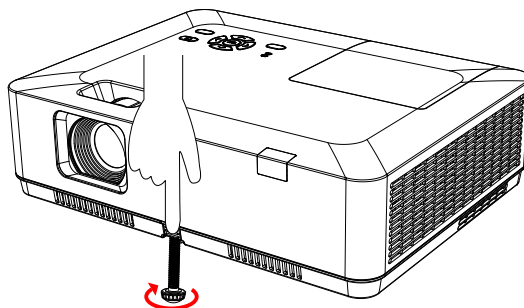


figure (2)

Connecting Devices

Before Connection

Before connection, carefully read the instruction manuals of the external devices to be connected.

- Turn off all devices before connecting cables.
- If a device does not come with a connection cable or there is no optional cable for that device, prepare the necessary system connection cable suitable for that device.
- Some computer models or graphics cards may not be compatible with the projector.
- Refer to the "Compatible Signal List" (➡ page 77) for video signal types that can be used with the projector.

Pin assignment and signal names for <Computer Input> terminal

External view	Pin No.	Signal Name	Pin No.	Signal Name
	1	Red input signal	9	VGA_DET
	2	Green input signal	10	Grounding (field synchronizing)
	3	Blue input signal	11	Grounding
	4	----	12	DDC data
	5	Grounding (line synchronizing)	13	Horizontal synchronizing (compound sync.) Input signal
	6	Grounding (red)	14	Vertical synchronizing input signal
	7	Grounding (green)	15	DDC clock
	8	Grounding (blue)		

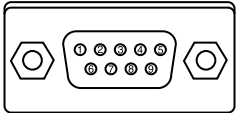
Pin assignment and signal names for <HDMI terminal (HDMI Type A 19)>

External view	Pin No.	Signal Name	Pin No.	Signal Name
	1	T.M.D.S data 2+	11	T.M.D.S clock shield
	2	T.M.D.S data 2 shield	12	T.M.D.S clock -
	3	T.M.D.S data 2-	13	CEC
	4	T.M.D.S data 1+	14	Reserved (N.C. on device)
	5	T.M.D.S data 1 shield	15	SCL
	6	T.M.D.S data 1-	16	SDA
	7	T.M.D.S data 0+	17	DDC/CEC-GND
	8	T.M.D.S data 0 shield	18	+5 V
	9	T.M.D.S data 0-	19	Hot plug detect
	10	T.M.D.S clock+		

Pin assignment and signal names for <LAN> terminal

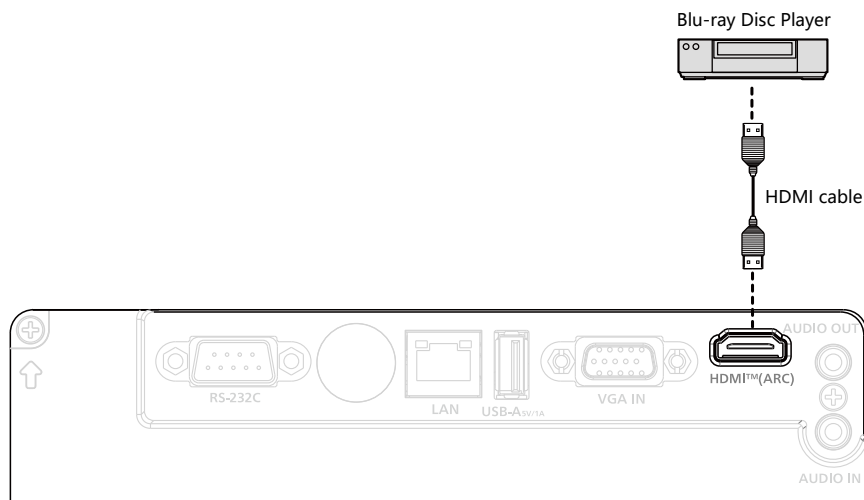
External view 	Pin No.	Signal Name	Pin No.	Signal Name
	1	TX +	5	-----
	2	TX -	6	RX -
	3	RX +	7	-----
	4	-----	8	-----

Pin assignment and signal names for <Serial Input terminal (D-SUB-9)>

External view 	Pin No.	Signal Name	Pin No.	Signal Name
	1	-----	6	-----
	2	RXD	7	-----
	3	TXD	8	-----
	4	-----	9	-----
	5	GND	10	-----

Connecting Devices

Connection Example: AV Device



Note:

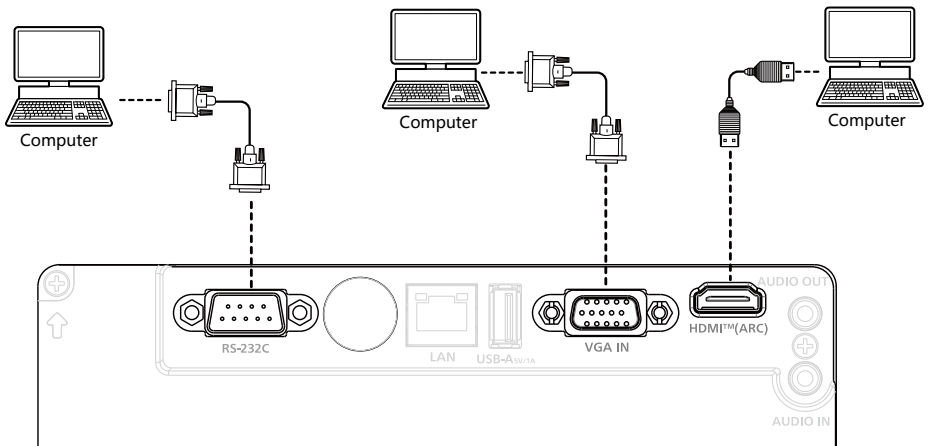
- Use a HDMI High Speed cable that conforms to the HDMI standard. If a non-compliant HDMI cable is used, the picture may be interrupted or may not be displayed.
- This projector supports HDMI CEC.



Warning

- When connecting cables, disconnect the power cords of the projector and external devices from the power outlet.

Connection Example: Computer



Note:

- When connecting the projector to a computer or external device, use the power cords supplied with each device and commercially available shielded cables.

Note:

- Use a HDMI High Speed cable that conforms to the HDMI standard. If a non-compliant HDMI cable is used, the picture may be interrupted or may not be displayed.
- This projector supports HDMI CEC.

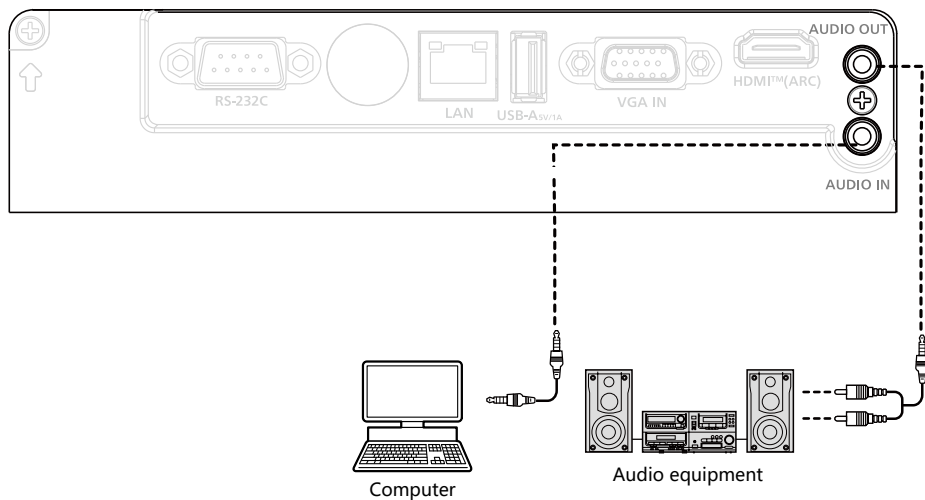


Warning

- When connecting cables, disconnect the power cords of the projector and external devices from the power outlet.

Connecting Devices

Connection Example: Audio



Note:

- When a cable is connected to the <Audio Output> terminal, the built-in speakers will not output sound.
- Audio cannot be output in standby mode.



Warning

- When connecting cables, disconnect the power cords of the projector and external devices from the power outlet.

Turning the Projector On/Off

Connecting the Power Cord

Connect the power cord ensuring the attached power cord plug is fully inserted into the projector body to prevent easy removal.

For details on power cord handling, refer to "Important Safety Notices" (➡ page 5).

■ Connection

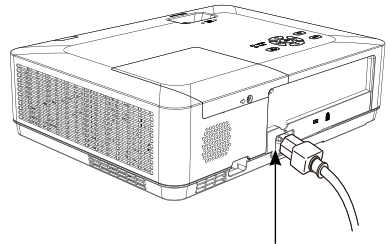
Check the shape of the <Power inlet> on the back of the projector and insert the plug in the correct direction.

■ Removal

Confirm the projector is in standby mode, then unplug the power cord from the outlet.

Note:

- When the projector is connected to the outlet using the AC power cord, it is in standby mode and consumes a small amount of power.
- During startup, you may hear a "clicking" mechanical sound. This is the normal operating sound of the IRIS (aperture) component during initialization and is not a malfunction.



Connect the supplied AC power cord to the projector.

Warning

Risk of electric shock and fire due to overheating:

- Insert the plug fully into the power inlet.
- The power outlet or circuit breaker should be installed near the equipment and be easily accessible.

Note

- For safety, unplug the AC power cord when the projector is not in use.

Power Indicator

Display the power status. Before operating the projector, check the status of the POWER ON (GREEN)/STANDBY (RED) indicator.

Indicator		Projector Status
Warning	On (Green)/ Standby (Red)	
Off	Off	Projector is off (AC power cord not inserted).
Off	Lights red	Projector is in standby mode. Press the power key to turn on.
Off	Lights green	The projector is on and operating normally.
Off	Flashing red	Projector is cooling down.

Basic Operations

Turning On the Projector

Before turning on the projector, complete the connection of external devices. (➡ page 24)

- 1) Connect the power cord to the projector.
- 2) Connect the power plug to the power outlet.
 - Connect the projector's AC power cord to the AC outlet. The POWER ON (GREEN)/STANDBY (RED) indicator lights red.
- 3) Press the power key <⏻/⏻> on the control panel or remote control.
 - The POWER ON (GREEN)/STANDBY (RED) indicator lights green, and the cooling fan starts operating.

Note:

- When the [Power Management] → [Power On Mode] function is set to [On], the projector automatically turns on when the AC power cord is connected to the outlet.
- To avoid damaging the light, do not turn off the power within 15 seconds of turning on the projector.

Start-up Screen (Example)



Making adjustments and selections

Before adjusting focus, it is recommended to project a picture continuously for at least 30 minutes.

- 1) Rotate the focus ring to roughly focus the picture. (➡ page 33)
- 2) According to the installation mode, change the setting via [Installation] menu → [Orientation]. (➡ page 51)
 - Refer to "Menu Navigation" (➡ page 41) for operation of the on-screen menu.
- 3) Press the <Input> key on the remote control or control panel to select the input signal (<HDMI>, <File Management>).
- 4) Use the adjustable feet to adjust the front tilt of the projector. (➡ page 23)
- 5) Adjust focus again using the focus ring.

Turning Off the Projector

- 1) Press the power key <⏻/⏻/⏻> on the top control panel or remote control.
- 2) After the [Power Off] message appears, press the power key <⏻/⏻/⏻> again within 4 seconds. The POWER ON (GREEN)/STANDBY (RED) indicator continues to flash red, and the cooling fan continues to operate (you can select the fan noise level and speed during cooling). After the fan stops rotating, disconnect the power cord; otherwise, the projector's life may be affected or startup abnormalities may occur.



Note

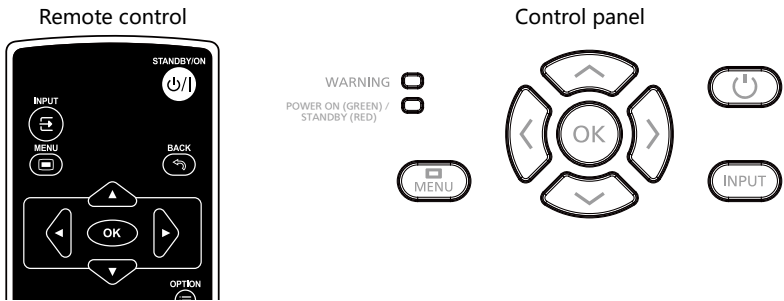
- To maintain lamp life, once the projector is turned on, wait at least 5 Mins before turning it off.
- Do not use the unit continuously. Continuous use will shorten lamp life. Be sure to turn off the projector once within 24 hours and let it rest for about one hour.
- When the [Power Management] → [Power On Mode] function is set to [On], the projector will automatically turn on when the AC power cord is connected to the outlet.
- The cooling fan speed will change according to the internal temperature of the unit.
- Do not place the projector in its packaging until it has cooled down sufficiently.
- The POWER ON (GREEN)/STANDBY (RED) indicator flashing indicates the lamp is cooling; the projector cannot be turned on at this time. Wait until the POWER ON (GREEN)/STANDBY (RED) indicator turns red before turning the projector back on.
- After turning off the projector, if you disconnect the power cord, the fan will stop immediately.
- When the POWER ON (GREEN)/STANDBY (RED) indicator lights red, the projector can be turned on again. The time to restart the projector after the fan has fully cooled down is shorter than if you disconnect the power cord immediately after power-off and then restart.

Basic Operations

Projection

Check the connection of peripheral devices (➡ page 24) and the connection of the power cord (➡ page 29), then turn on the power (➡ page 30) to start the projector. Select a picture and adjust its settings.

Selecting the input signal



■ When using the <INPUT> key on the control panel or remote control

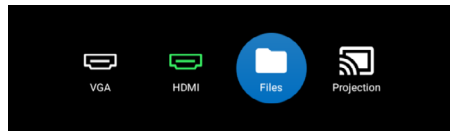
- 1) Press the <INPUT> key on the remote control or control panel.
 - The input source selection menu appears.
- 2) Press ◀▶ to select an item, then press <OK>.
 - The selected input signal is projected.

[VGA]	Switch to VGA input.
[HDMI]	Switch to HDMI input.
[Files]	Switch to File Management input.
[Projection]	Switch to Wireless Screen Mirroring input.

Note:

- The [Projection] menu only appear after inserting the Wi-Fi dongle.

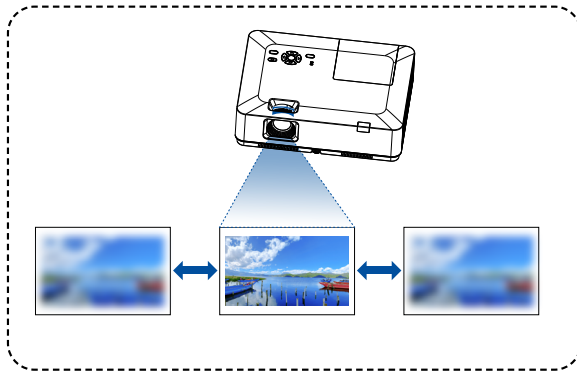
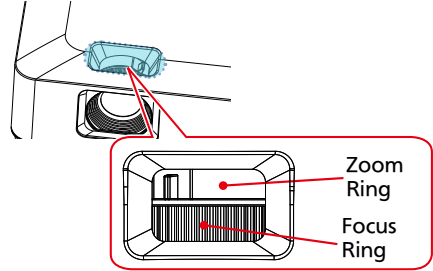
■ Input source selection menu



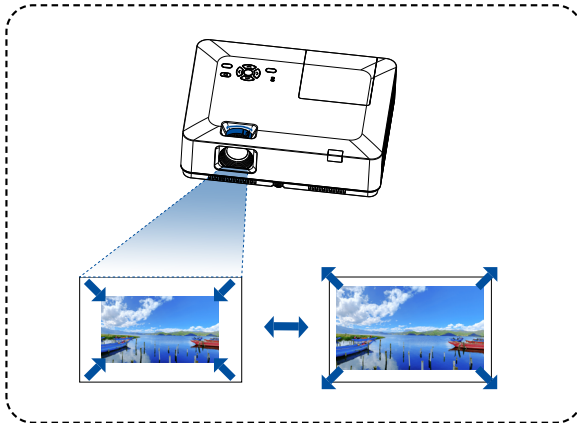
Focus/Zoom Adjust

Zoom/Focus Adjust

- 1) Rotate the zoom ring from the center. Rotate left to zoom out the projected picture or right to zoom in the projected picture.
- 2) Rotate the focus ring to adjust the focus of the picture. Adjust until clear according to the screen content.



Focus Adjust



Zoom Adjust

Basic Operations

Remote Control Operation



For some common operations, using the remote control is recommended.

Using the BLANK Function

If you need to pause using the projector for a period, such as during meeting preparations or breaks, you can temporarily turn off the picture and audio.



Key

- 1) Press the <BLANK> key.
 - The picture and audio turn off.
- 2) Press the <BLANK> key again.
 - The picture and audio are restored.

Using the MUTE Function

You can temporarily turn off the audio.



Key

- 1) Press the <MUTE> key.
 - The audio turns off.
- 2) Press the <MUTE> key again.
 - The audio is restored.

Adjusting Volume

You can control the volume of the built-in speaker or audio output.



Key

Press the <VOLUME +> / <VOLUME -> key.

- <VOLUME +>: Increases volume.
- <VOLUME ->: Decreases volume.

Using the FREEZE Key

Regardless of whether the external device is playing, you can pause the projected picture and mute the audio.



Key

- 1) Press the <FREEZE> key.
 - The picture is frozen and the audio is muted.
- 2) Press the <FREEZE> key again.
 - The freeze is canceled and the audio is restored.

Note:

- When the projected picture is frozen, the [Freeze] icon appears on the screen.

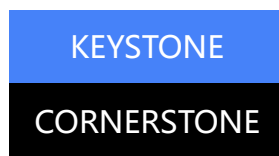
Using the KEYSTONE Function

Display the [Geometric Correction] menu. Corrects distortion of the projected picture caused by tilted projector installation or tilted/curved screen.



Key

- 1) Press the <KEYSTONE> key.
 - The "Geometric Correction" function selection screen appears.



- [KEYSTONE]: Adjusts when the projected picture is trapezoidal.
 - [CORNERSTONE]: Adjusts when the four corners of the projected picture are distorted.
- 2) Press ▲▼ to select [KEYSTONE] or [CORNERSTONE].
 - 3) Press <OK>.
 - The adjustment screen for the selected function appears.
 - 4) Press ▲▼◀▶ to adjust.

Note:

- For details, refer to [Installation] menu → [Geometric Correction] (➡ page 51).

Switching the Aspect Ratio of the Picture

Switch the aspect ratio according to the input signal.



Key

- 1) For PT-LAW44.
 - Press ◀▶ to adjust and switch: [Auto] → [4:3] → [16:9] → [Full].
- 2) For PT-LAX35, PT-LAX40, PT-LAX45.
 - Press ◀▶ to adjust and switch: [Auto] → [Full] → [16:9] → [16:10].

Note:

- For details, refer to [Adjust] menu → [Aspect Ratio] (➡ page 47).

Using Digital Zoom Function

(Applicable to live pictures from HDMI/VGA signals and still pictures from HDMI/VGA signals)

You can zoom in the center area and change the position of the magnified area.



Key

- 1) From the menu, enter the positions adjust screen, then press <D.ZOOM +> or <D.ZOOM -> .
 - You can zoom in or zoom out the picture.
- 2) When zooming in on the picture, press ▲▼◀▶ on the remote control to move the picture up, down, left, or right.

Note:

- When the [Zoom Ratio] is 0, the picture cannot be moved.
- For details, refer to [Adjust] menu → [Magnify] (➡ page 48).

Switching Picture Mode

You can switch the picture mode.



Key

Press the <PICTURE> key.

- Press ◀▶ to adjust and switch: [Dynamic] → [Standard] → [Cinema] → [Black Board] → [User].

Note:

- For details, refer to [Adjust] menu → [Picture] (➡ page 44).

Switching Light Brightness

Select the lamp mode.



Key

Press the <ECO> key.

- Press ◀▶ to adjust and switch: [(Normal)] → [(Eco)].

Note:

- For details, refer to [Adjust] menu → [Light Mode] (➡ page 47).

Option Function



Key

- 1) Press the <INPUT> key.
 - The source selection menu appears.
- 2) Select the "File Management" source.
 - The "File Management" channel screen appears.
- 3) Press <OK>.
 - When a USB storage device is inserted into the projector and the source is switched to the file management channel, a "USB device authorization prompt" box appears. Press ◀▶ to switch the option to "Yes", then press <OK> to confirm. The USB storage device contents are then read.
- 4) Press the <OPTION> key.
 - The control option menu for playing pictures/videos/music from the USB storage device appears.
- 5) Press ◀▶.
 - Select the item you wish to adjust.

Note:

- For details, refer to "File Management Channel Introduction" (➡ page 60).

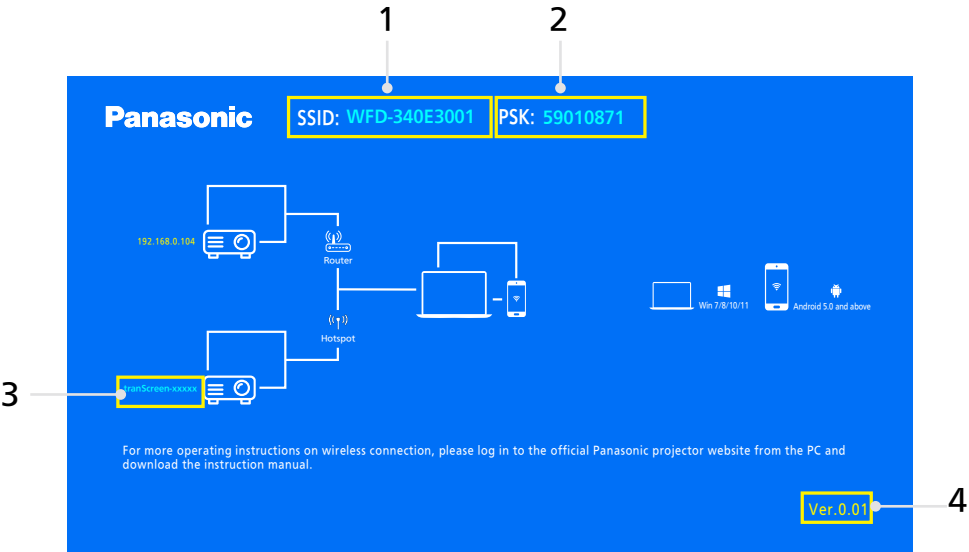
Using Wireless Screen Mirroring

Screen Mirroring Module Specifications

This function is optional and can only be used after inserting a Wi-Fi dongle. Please use the designated Wi-Fi dongle. If you use a Wi-Fi dongle from any other brand, the wireless screen casting function may not work properly.

Maximum Output Resolution		1920x1080@60 Hz
Maximum Decoding Resolution		1920x1080@60 Hz
Wireless Screen Mirroring Applications	Windows casting support	(Win7/8/10/11)
	Android casting support	(Android 5.0 and above)

Screen Mirroring Module Functions



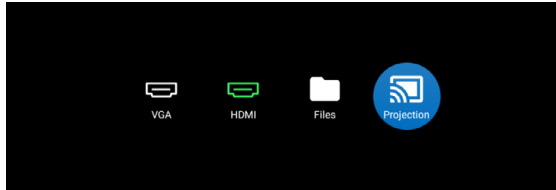
Note: IP Address is displayed only when the corresponding event occurs.

Using the Wireless Function

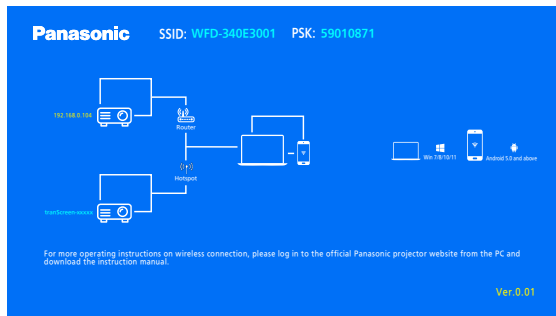
Using the Wireless Function via LAN

■ Switching the projector to wireless mode

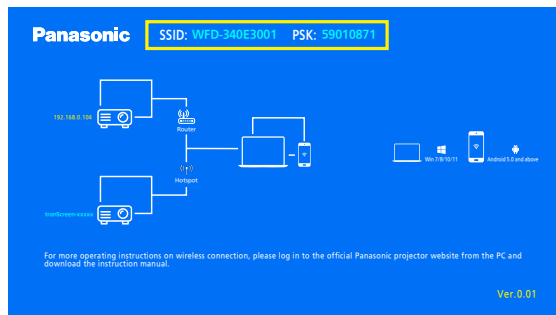
- 1) Press the "INPUT" key on the remote control or top control panel to enter the source menu.



- 2) Press ◀▶ to select "Projection", then press <OK> to select the source.
- 3) The casting module interface is displayed.



- 4) Open the Wi-Fi settings on a laptop/smart Android phone/smart Android tablet (collectively referred to as smart device) with wireless function, and connect to the module hotspot: SSID is the hotspot name when the casting module acts as a hotspot, PSK is the hotspot password of the casting module.



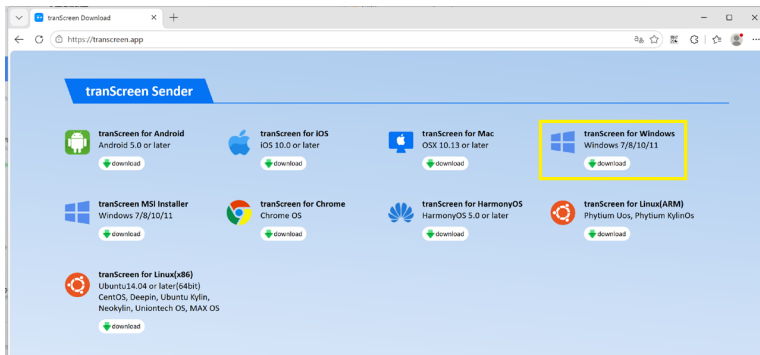
Using Wireless Screen Mirroring

✓ Note:

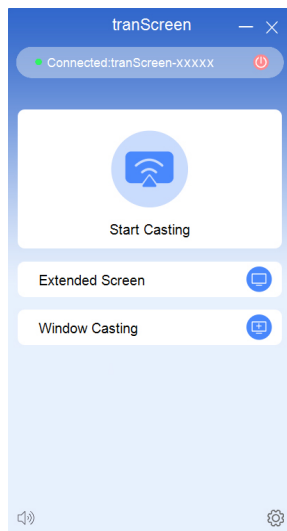
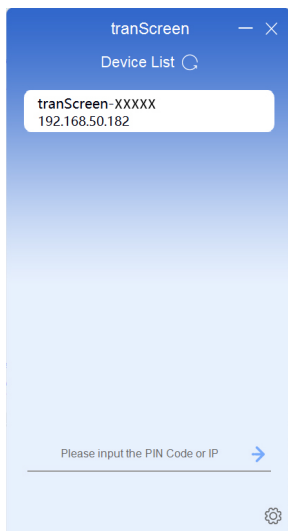
- Airplay is not supported.

Windows Software Screen Mirroring

- 1) Connect the computer and projector to the same LAN or the access point of the receiver.
- 2) Enter tranScreen.app in the browser to download the client. (iOS/Mac not supported)



- 3) On the Windows computer, run the tranScreen.exe program and select tranScreen-xxxxx for casting. (xxxxx: numerical value displayed on the projector's wireless casting page)
- 4) After successful connection, click "Start Casting" to begin.

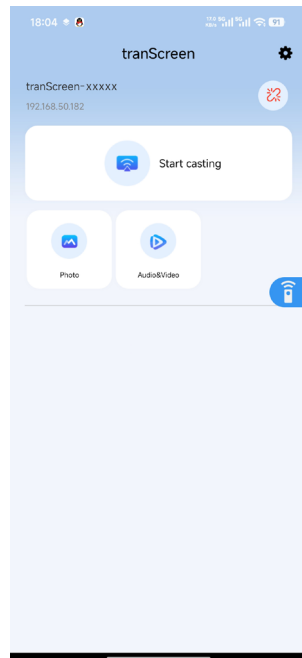
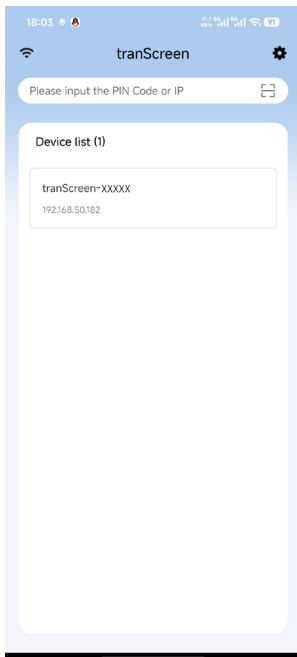


Screen Mirroring from an Android Device

- 1) Connect the phone and projector to the same LAN or the access point of the receiver.
- 2) Open the Android phone browser, scan the QR code below to download the "tranScreen" app, or download the "tranScreen" app from the phone's app store.



- 3) Run the tranScreen app on the Android phone, and select tranScreen-xxxxx from the device list for casting. (xxxxx: numerical value displayed on the projector's wireless casting page)
- 4) After successful connection, click "Start Casting" to begin.



Using Wireless Screen Mirroring

Possible Problems

1. When should the module be factory reset?

If an abnormality occurs after setting the module, or if you cannot return to the initial state, you can reset the module to factory settings in the settings menu. Please use the designated Wi-Fi dongle. If you use a Wi-Fi dongle from any other brand, the wireless screen casting function may not work properly.

2. What is the effective distance of the casting module?

In an open area with little radio interference, it can reach 10m or more, but the actual distance varies depending on the usage environment. If wireless casting conditions are not suitable, a wired connection is recommended.

3. Why does the originally connected wireless signal disconnect after switching the network band?

The casting module supports 2.4GHz / 5GHz dual-band operation. If the device configuring the network (phone, PC, etc.) cannot find the hotspot, confirm whether the network band of the configuring device matches that of the casting module. If not, set them to the same band and try searching for the hotspot again.

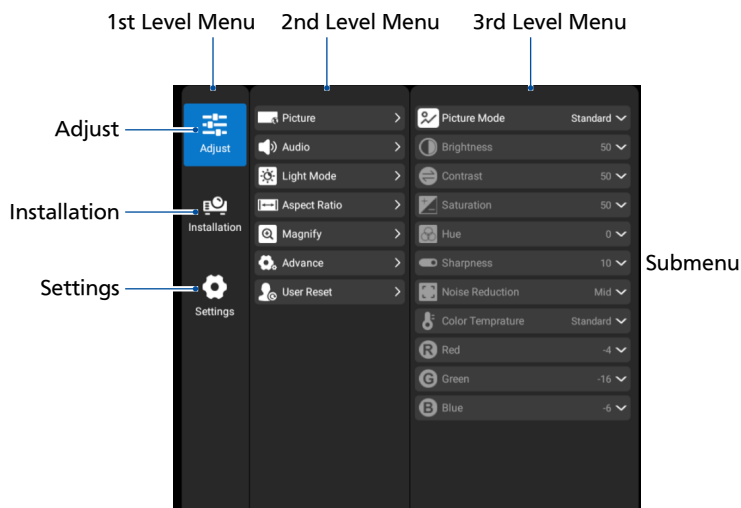
4. When a smart device experiences screen abnormalities or cannot connect during wireless casting, try the following:

- 1) When two projectors use the wireless casting function simultaneously, keep them at least 5 m apart.
- 2) If the network environment is noisy (crowded) and subject to interference, try moving away from the interference and reconnect.
- 3) Disconnect the smart device from its current Wi-Fi connection, then reconnect to the wireless casting device.
- 4) Restart the smart device.
- 5) Exit casting mode, try switching the wireless LAN band, and then connect again.
- 6) In the projector menu, restart the casting module. Reset the module if necessary.

5. How to determine whether the casting module restart or reset is complete?

After the casting module restarts and the PSK code is displayed, we consider the module to have fully restarted or reset. However, due to differences in hardware, connected devices, operating environments, and other factors, the normal connection time may vary. If the connection attempt is unsuccessful, please reconnect again.

Main Menu



Display the submenu screen for the selected main menu item. Users can set and adjust each item in the submenu.

■ [Adjust]

2nd Level Menu	3rd Level Menu	Default Setting	page
[Picture]	[Picture Mode]	[Standard]	44
	[Brightness] ^{*1}	[50]	44
	[Contrast] ^{*1}	[50]	44
	[Saturation] ^{*1}	[50]	44
	[Hue] ^{*1}	[0]	45
	[Sharpness] ^{*1}	[10]	45
	[Noise Reduction] ^{*1}	[Mid]	45
	[Color Temperature] ^{*1}	[Standard]	45
	[Red] ^{*2}	[-4]	45
	[Green] ^{*2}	[-16]	45
	[Blue] ^{*2}	[-6]	45
[Audio]	[Audio Mode]	[Standard]	46
	[Treble]	[50]	46
	[Bass]	[50]	46
	[Equalizer Detail]	—	46
	[Key Sound]	[Off]	47
[Light Mode]	[Light Mode]	[Normal]	47
[Aspect Ratio]	[Aspect Ratio]	[Auto]	47
[Magnify]	[Zoom Ratio]	[0]	48
	[Positions]	—	48

Menu Navigation

2nd Level Menu	3rd Level Menu	Default Setting	page
[Advance]	[HDMI Range]	[Auto]	48
	[HDMI EDiD]	[Normal]	49
	[Dynamic Contrast]	[Off]	49
[User Reset]	—	—	50

Note:

- ^{*1} Adjustable only when [Picture Mode] is set to [User].
- ^{*2} Adjustable only when [Color Temperature] is set to [User].
- The [Picture] function is not supported when using wireless screen casting, so this option will be hidden automatically.
- The [Aspect Ratio] and [Magnify] menus appear only when there is a signal on the HDMI and VGA channel.

■ [Installation]

2nd Level Menu	3rd Level Menu	Default Setting	page
[Orientation]	[Orientation]	[Desktop Front]	51
[Geometric Correction]	[Keystone]	—	51
	[Cornerstone]	—	52
[Filter Maintenance]	[Filter Lifetime]	[1000 Hours]	52
	[Warning Message]	[On]	53
	[Used Time]	—	53
[High Altitude]	[High Altitude]	—	53

■ [Settings]

2nd Level Menu	3rd Level Menu	Default Setting	page
[General]	[Language]	[English]	54
	[Default Source]	[Last]	54
	[Menu Theme]	[Theme1]	54
[Wireless LAN]	—	—	55
[Wired LAN]	[DHCP]	[Auto]	55
[HOTSPOT]	[Off]	[Off]	56
[Power Management]	[Power On Mode]	[Standby]	56
	[Standby Mode]	[Eco]	56
	[Auto Power Off]	[Off]	56
	[No Signal Auto Power Off]	[15 Mins]	56
[HDMI Setting]	[HDMI CEC]	[On]	57
	[ARC Switch]	[On]	57
[About device]	—	—	58
[Open source licenses]	—	—	58
[Factory Reset]	—	—	59

Note:

- Some menu items may not be adjustable or usable for specific signal formats input to this projector. Menu items that cannot be adjusted or used are displayed in gray and cannot be selected.
- Depending on the selected input interface, the submenu items and default settings may differ.
- The [Wireless LAN] and [HOTSPOT] menus only appear after inserting the Wi-Fi dongle.

How to Operate the On-Screen Menu

You can adjust or set the projector via the on-screen menu.

The menu has a multi-layer structure. Each main menu is divided into several submenus, and submenus are further divided into several lower-level submenus. For steps on adjustments and settings, refer to the corresponding sections of this instruction manual.

- 1) Press the <Menu> key on the remote control or control panel to display the on-screen menu.
- 2) Press ▲▼ to select a main menu item.
- 3) Press ► to enter the submenu.
- 4) Press ▲▼ to select a submenu item.
 - Press <OK> to open/close the 3rd level menu.
- 5) Press ► to enter the 3rd level menu.
- 6) Press ▲▼ to select a 3rd level menu item.
- 7) Press <OK> to set the adjust item.
 - Some options can only be adjusted or set under specific conditions.
 - When an option is gray, it cannot be adjusted or set.

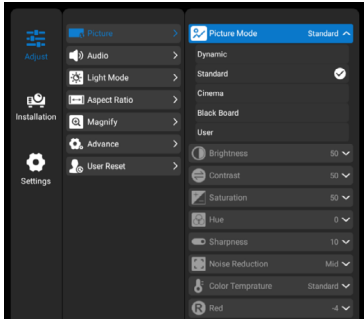
Note:

- After setting or adjusting the selected item, press ◀ to return to the previous menu.
- When the menu screen is displayed, press <Menu> or <BACK> to exit the on-screen menu.

[Adjust] Menu

The [Picture] menu is used to set the picture mode and adjust the picture quality of the projected picture. On the menu screen, select [Picture] from the 2nd level menu, then select an item from the 3rd level menu.

[Picture]



[Picture Mode]

Switch to a picture mode suitable for the picture source and the usage environment of the projector.

- 1) Press ▲▼ to select [Picture].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Picture Mode].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Dynamic]	To deliver clearer, smoother, and more detailed pictures, especially during fast-moving or action scenes.
[Standard]	Maximizes the light output for use in bright environments.
[Cinema]	Reproduces the picture quality and color as intended by the filmmaker for a better movie-watching experience.
[Black Board]	Optimizes picture brightness, contrast, and color reproduction. Helps to improve picture quality when projecting onto a black board (e.g., in a classroom).

[User]

This is the picture mode preset by the user in the picture adjust menu.

Note:

- Only when [Picture Mode] is set to [User] can [Brightness], [Contrast], [Saturation], [Hue], [Sharpness], [Noise Reduction], or [Color Temperature] be adjusted.

[Brightness]

Adjust the darker (black) parts of the projected picture.

- 1) Press ▲▼ to set [Picture Mode] to [User].
- 2) Press <OK> to confirm.
- 3) Press ▼ to select [Brightness].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀▶ to adjust the parameter.
 - Press ►: The dark parts of the picture become brighter.
 - Press ◀: The bright parts of the picture become darker.
 - Adjustable range: 0~100.

[Contrast]

Adjust the color contrast of the picture.

- 1) Press ▲▼ to set [Picture Mode] to [User].
- 2) Press <OK> to confirm.
- 3) Press ▼ to select [Contrast].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀▶ to adjust the parameter.
 - Press ►: Brightens the picture and deepens colors.
 - Press ◀: Dims the picture and pales colors.
 - Adjustable range: 0~100.

Note:

- To adjust [Brightness] and [Contrast], adjust [Brightness] first.

[Saturation]

Adjust the vividness of colors in the picture.

- 1) Press ▲▼ to set [Picture Mode] to [User].
- 2) Press <OK> to confirm.
- 3) Press ▼ to select [Saturation].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀▶ to adjust the parameter.

- Press ►: Picture colors become more vivid.
- Press ◀: Picture colors become less saturated.
- Adjustable range: 0~100.

[Hue]

Adjust the color saturation of the picture.

- 1) Press ▲▼ to set [Picture Mode] to [User].
- 2) Press <OK> to confirm.
- 3) Press ▼ to select [Hue].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀► to adjust the parameter.
 - Adjustable range: -50~50.

[Sharpness]

Adjust the sharpness of the projected picture.

- 1) Press ▲▼ to set [Picture Mode] to [User].
- 2) Press <OK> to confirm.
- 3) Press ▼ to select [Sharpness].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀► to adjust the parameter.
 - Press ►: Outlines become sharper.
 - Press ◀: Outlines become softer.
 - Adjustable range: 0~20.

[Noise Reduction]

Change the clarity and brightness of the projected picture.

- 1) Press ▲▼ to select [Picture].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Noise Reduction].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	Turns off noise reduction.
[Low]	Turns on low noise reduction.
[Mid]	Turns on medium noise reduction.
[High]	Turns on high noise reduction.

[Color Temperature]

When the white part of the projected picture becomes bluish or reddish, you can

switch the color temperature.

- 1) Press ▲▼ to select [Picture].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Color Temperature].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Standard]	Adjust the projected picture to balanced tones.
[Warm]	Adjust the projected picture to warm tones.
[Cool]	Adjust the projected picture to cool tones.
[User]	Customizes the picture tone.

Note:

- Only when [Color Temperature] is set to [User] can [Red], [Green], or [Blue] parameters be adjusted.
- After using [User Reset], when [Color Temperature] is set to [User], the default parameters for [Red], [Green], and [Blue] are all 0.

[Red]/[Green]/[Blue]

Adjust the white balance.

- 1) Press ▲▼ to select [Picture].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Color Temperature].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to select [User].
- 6) Press ▲▼ to select [Red]/[Green]/[Blue].
- 7) Press <OK> to open the dropdown menu.
- 8) Press ▼ to select the adjust box.
- 9) Press ◀► to adjust the parameter.

■ [Red]

- Press ►: Red tone deepens.
- Press ◀: Red tone lightens.
- Adjustable range: -50~50.

■ [Green]

- Press ►: Green tone deepens.
- Press ◀: Green tone lightens.
- Adjustable range: -50~50.

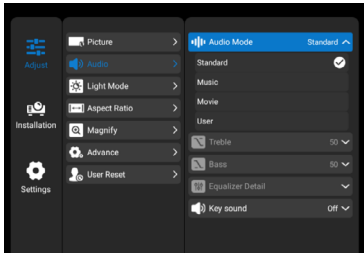
■ [Blue]

- Press ►: Blue tone deepens.
- Press ◀: Blue tone lightens.
- Adjustable range: -50~50.

[Adjust] Menu

The [Audio] menu is used to adjust the projector volume and optimize sound. On the menu screen, select [Audio] from the 2nd level menu, then select an item from the 3rd level menu.

[Audio]



[Audio Mode]

Users can perform more detailed audio settings.

- 1) Press ▲▼ to select [Audio].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Audio Mode].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Standard]	Suitable for most daily scenes, restoring the authentic texture of sound.
[Music]	Adapts to music listening scenes, highlighting instrument layering and vocal clarity, making music playback more appealing.
[Movie]	Designed for movie/TV watching, reproducing the surround sound effects of video content, creating an immersive viewing atmosphere.
[User]	Customizable adjustable mode, allowing users to adjust equalizer, volume, surround sound, etc., according to their preferences to meet personalized needs.

Note:

- Only when [Audio Mode] is set to [User] can [Treble], [Bass], and [Equalizer Detail] be adjusted.

[Treble]

Users can adjust treble.

- 1) Press ▲▼ to select [Audio].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Treble].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀▶ to adjust the parameter.
 - Press ►: Increase volume.
 - Press ◀: Decrease volume.
 - Adjustable range: 0~100.

[Bass]

Users can adjust bass.

- 1) Press ▲▼ to select [Audio].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Bass].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀▶ to adjust the parameter.
 - Press ►: Increase volume.
 - Press ◀: Decrease volume.
 - Adjustable range: 0~100.

[Equalizer Detail]

Users can adjust the sound equalizer.

- 1) Press ▲▼ to select [Audio].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Equalizer Detail].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[L FREQ]	adjustable range: 0~100.
[L-M FREQ]	adjustable range: 0~100.
[M FREQ]	adjustable range: 0~100.
[H FREQ]	adjustable range: 0~100.

[U-H FREQ]	adjustable range: 0~100.
------------	-----------------------------

[Key Sound]

Users can adjust the key sound.

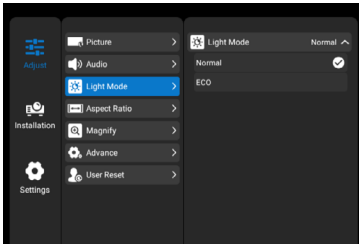
- 1) Press ▲▼ to select [Audio].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Key Sound].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	Turns off the key sound.
[On]	Turns on the key sound.

The [Light Mode] menu is used to set/adjust the brightness of the projector light.

On the menu screen, select [Light Mode] from the 2nd level menu, then select an item from the 3rd level menu.

[Light Mode]



[Light Mode]

Users can adjust the screen brightness.

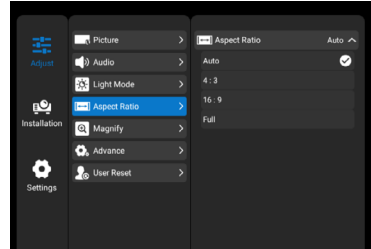
- 1) Press ▲▼ to select [Light Mode].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Light Mode].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Normal]	Screen brightness displayed at 100%.
[Eco]	Screen brightness displayed at 50%.

The [Aspect Ratio] menu is used to set the projector's aspect ratio.

On the menu screen, select [Aspect Ratio] from the 2nd level menu, then select an item from the 3rd level menu.

[Aspect Ratio]



[Aspect Ratio]

Users can adjust the picture to fit the screen size.

- 1) Press ▲▼ to select [Aspect Ratio].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Aspect Ratio].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

- For PT-LAW44:

[Auto]	Automatically recognizes the aspect ratio of the input signal source and projects the picture at maximum size.
[4:3]	Projects the picture with a 4:3 aspect ratio.
[16:9]	Projects the picture with a 16:9 aspect ratio.
[Full]	Projects the picture to maximize screen size.

- For PT-LAX35, PT-LAX40, PT-LAX45:

[Auto]	Automatically recognizes the aspect ratio of the input signal source and projects the picture at maximum size.
[Full]	Projects the picture to maximize screen size.
[16:9]	Projects the picture with a 16:9 aspect ratio.

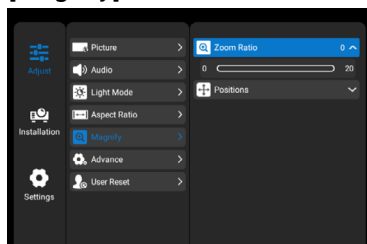
[Adjust] Menu

[16:10] Projects the picture with a 16:10 aspect ratio.

The [Magnify] menu is used to adjust the projector's picture size. Typically, [Zoom Ratio] and [Positions] functions need to be used together. Use [Zoom Ratio] to enlarge the picture content to at least twice the original size, then use [Positions] to move the displayed picture to the desired part.

On the menu screen, select [Magnify] from the 2nd level menu, then select an item from the 3rd level menu.

[Magnify]



[Zoom Ratio]

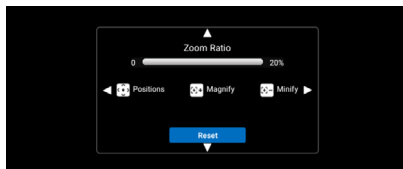
Adjust the projector's picture size.

- 1) Press ▲▼ to select [magnify].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Zoom Ratio].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select the adjust box.
- 6) Press ◀▶ to adjust the parameter.
 - Adjustable range: 0~20.

[Positions]

After enlarging the projected picture using the [Zoom Ratio] function, use the [Positions] function to move the displayed picture to the desired part.

- 1) Press ▲▼ to select [magnify].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Positions].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▼ to select [Enter].
- 6) Press <OK> to confirm.



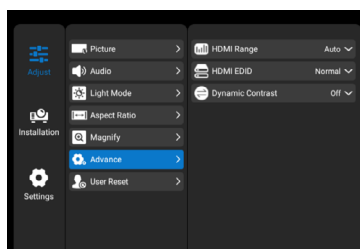
Note:

- Use the remote control's <D.ZOOM +> or <D.ZOOM -> keys to zoom in or zoom out the picture, then combine with ▲▼◀▶ to move the picture.
- When the [Zoom Ratio] ratio is 0, the picture cannot be moved.
- To reset, press <OK> to return to the initial state.

The [Advance] menu is used to set HDMI range, HDMI EDID, and Dynamic Contrast.

On the menu screen, select [Advance] from the 2nd level menu, then select an item from the 3rd level menu.

[Advance]



[HDMI Range]

Select the appropriate dynamic range for the projector.

- 1) Press ▲▼ to select [Advance].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [HDMI Range].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Auto]	In this mode, the projector determines the most suitable dynamic range based on the EDID information of the connected display device. The EDID information indicates whether the display device supports Standard Dynamic Range (SDR) or High Dynamic Range (HDR). The projector automatically selects the corresponding dynamic range and sends the appropriate video signal to ensure optimal picture quality and compatibility. This mode is generally suitable for most standard HDMI connections.
[Full]	In this mode, the projector Set the output signal to High Dynamic Range (HDR), regardless of whether the connected display device supports it. This provides higher color depth and contrast range for richer, more realistic pictures. However, if the display device does not support high dynamic range, the picture may appear too bright or distorted.
[Limit]	In this mode, the projector Set the output signal to Standard Dynamic Range (SDR), regardless of whether the connected display device supports high dynamic range. This ensures that the picture can be displayed normally on various display devices, but some dynamic range and picture detail may be lost.

[HDMI EDID]

The projector can read the EDID information of the display device.

- 1) Press ▲▼ to select [Advance].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [HDMI EDID].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.

- 6) Press <OK> to confirm.

[Enhanced]	In this mode, the projector pre-loads a specific EDID file and uses the fixed parameters in that file for settings. Regardless of the actual EDID information of the connected display device, the projector uses the preset parameters for output. This mode is suitable for some special requirement scenarios, such as applications requiring fixed resolution or specific color space.
[Normal]	In this mode, the projector ignores the EDID information of the connected display device and directly sends fixed default settings. This means the projector outputs signals with fixed parameters, regardless of the actual requirements and capabilities of the display device. This mode is suitable for some special cases, such as old devices or non-standard display devices that may not be able to read or parse EDID information properly.

[Dynamic Contrast]

The projector automatically performs contrast correction and signal compensation based on the picture to obtain the best contrast picture.

- 1) Press ▲▼ to select [Advance].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Dynamic Contrast].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

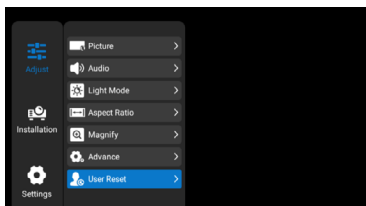
[Off]	Turns off dynamic contrast.
[On]	Turn on dynamic contrast.

[Adjust] Menu

The [User Reset] menu is used to restore all user-adjusted parameter values in the adjust menu to the default mode.

On the menu screen, select [User Reset] from the 2nd level menu to execute this function.

[User Reset]



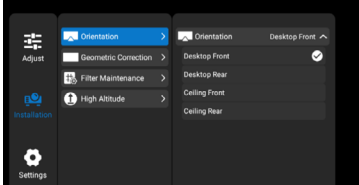
[User Reset]

Restore all user-adjusted parameter values in the adjust menu to the default mode.

- 1) Press ▲▼ to select [User Reset].
- 2) Press <OK> to enter the submenu.
- 3) Press ► to select [OK].
- 4) Press <OK> to confirm resetting user settings.

The [Orientation] menu is used to set the projection orientation of the projector.
On the menu screen, select [Orientation] from the 2nd level menu, then select an item from the 3rd level menu.

[Orientation]



[Orientation]

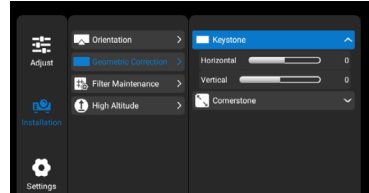
Set the projection orientation according to the installation state of the projector. If the picture appears inverted or reversed, change the orientation.

- 1) Press ▲▼ to select [Orientation].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Orientation].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Desktop Front]	When the projector is installed on a desk and projects from the front of the screen.
[Desktop Rear]	When the projector is installed on a desk and projects from the rear of the screen (using a translucent screen).
[Ceiling Front]	When the projector is ceiling-mounted in front of the screen.
[Ceiling Rear]	When the projector is ceiling-mounted behind the screen (using a translucent screen).

The [Geometric Correction] menu is used to correct keystone distortion that occurs when the projector is installed at an angle or the screen is tilted.
On the menu screen, select [Geometric Correction] from the 2nd level menu, then select an item from the 3rd level menu.

[Geometric Correction]



[Keystone]

Correct keystone distortion that occurs when the projector is installed at an angle or the screen is tilted.

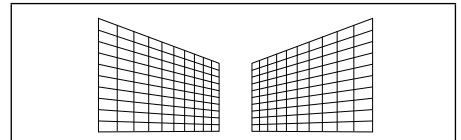
- 1) Press ▲▼ to select [Geometric Correction].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Keystone].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press ◀▶ to adjust.

Note:

- [Horizontal] adjustable range: -30~30.
- [Vertical] adjustable range: -30~30.

■ Horizontal

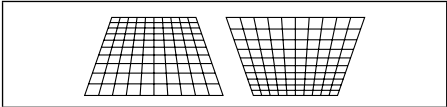
- Press ◀: Adjust the left side of the trapezoid.
- Press ▶: Adjust the right side of the trapezoid.



■ Vertical

- Press ▶: Adjust the top of the trapezoid.
- Press ◀: Adjust the bottom of the trapezoid.

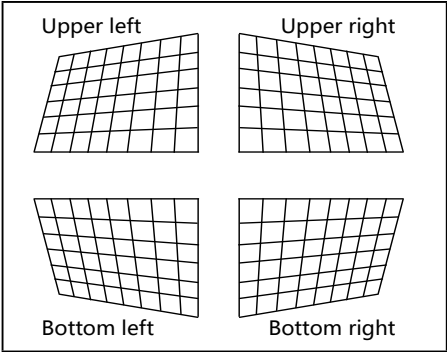
[Installation] Menu



[Cornerstone]

Correct when the four corners of the projected picture are distorted.

- 1) Press ▲▼ to select [Geometric Correction].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Cornerstone].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to select [Enter].
- 6) Press <OK> to open the adjust screen.
- 7) Press ▲▼◀▶ to adjust.
 - Long press ▲▼◀▶ to speed up adjust.
 - Press <OK> to switch the corner to be adjusted.



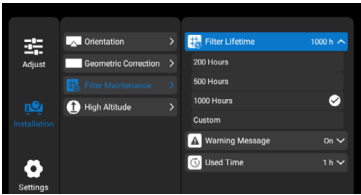
Note:

- The green circle indicates the currently adjusted corner.
- Each adjust step is 1.

The [Filter Maintenance] menu is used to set the filter lifetime and view the filter used time.

On the menu screen, select [Filter Maintenance] from the 2nd level menu, then select an item from the 3rd level menu.

[Filter Maintenance]



[Filter Lifetime]

Set the filter lifetime.

- 1) Press ▲▼ to select [Filter Maintenance].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Filter Lifetime].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[200 Hours]	Set the projector filter usage reminder to 200 hours.
[500 Hours]	Set the projector filter usage reminder to 500 hours.
[1000 Hours]	Set the projector filter usage reminder to 1000 hours.
[Custom]	User customizes the filter usage reminder time.

Note:

- Custom reminder time range: 10~5000 hours.

[Warning Message]

When the filter lifetime reaches the set value, a filter warning message appears on the projection screen.

- 1) Press ▲▼ to select [Filter Maintenance].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Warning Message].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	When the projector reaches the user-set filter lifetime, no information is displayed on the screen.
[On]	When the projector reaches the user-set filter lifetime, a filter warning message appears on the screen.

[Used Time]

Display the time the projector filter has been used.

- 1) Press ▲▼ to select [Filter Maintenance].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Used Time].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[XXXX Hours Used]	Display the time the projector filter has been used.
[Time Reset]	ReSet the projector filter used time to 0 hours.

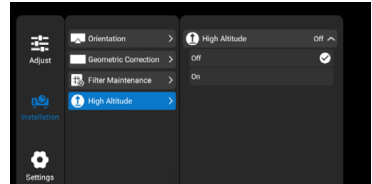
Note:

- Selecting [XXXX Hours Used] and pressing <OK> performs no operation.

The [High Altitude] menu can be used to protect the projector from damage in high-altitude areas.

On the menu screen, select [High Altitude] from the 2nd level menu, then select an item from the 3rd level menu.

[High Altitude]



[High Altitude]

Protect the projector from damage in high-altitude areas.

- 1) Press ▲▼ to select [High Altitude].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [High Altitude].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	Turns off high altitude.
[On]	Turns on high altitude.

Note:

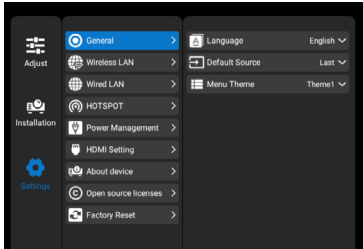
- If your area is below 1400 m above sea level, please turn off high altitude.
- If your area is between 1400 m and 2700 m above sea level, please turn on high altitude.

[Settings] Menu

The [General] menu is used for common projector settings, including multi-language, Menu Theme, etc.

On the menu screen, select [General] from the 2nd level menu, then select an item from the 3rd level menu.

[General]



[Language]

Set the projector menu language according to user preference; Chinese, English and many other languages are available for selection.

- 1) Press ▲▼ to select [General].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Language].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[English]	Set the projector menu language to English.
[Français]	Set the projector menu language to French.
[Español]	Set the projector menu language to Spanish.
[Português]	Set the projector menu language to Portuguese.
[한국어]	Set the projector menu language to Korean.
[Русский]	Set the projector menu language to Russian.
[简体中文]	Set the projector menu language to Simplified Chinese.

[中文繁體]	Set the projector menu language to Traditional Chinese.
[بالعربية]	Set the projector menu language to Arabic.
[Tiếng Việt]	Set the projector menu language to Vietnamese.
[Indonesia]	Set the projector menu language to Bahasa Indonesia.

Note:

- By default and when executing [Settings] → [Factory Reset] (➡ page 59), the projector's display language is set to English.

[Default Source]

Set the default source according to user preference.

- 1) Press ▲▼ to select [General].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Default Source].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Auto]	When the projector receives any signal from VGA/HDMI and the currently selected source is not File Management or Wireless Screen Mirroring, it automatically searches and jumps to that channel to display the signal.
[Last]	The projector does not automatically search and keeps the last set channel.

[Menu Theme]

Set the Menu Theme according to user preference.

- 1) Press ▲▼ to select [General].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Menu Theme].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.

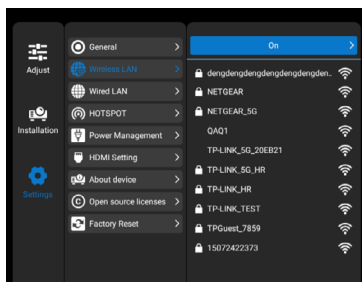
6) Press <OK> to confirm.

[Theme1]	Set the projector menu "selected state color" to Tech Blue.
[Theme2]	Set the projector menu "selected state color" to Vibrant Orange.
[Theme3]	Set the projector menu "selected state color" to Elegant Cyan.

The [Wireless LAN] menu is used to view/set the projector's wireless LAN.

On the menu screen, select [Wireless LAN] from the 2nd level menu, then select an item from the 3rd level menu.

[Wireless LAN]



[Wireless LAN]

Turn the projector's wireless LAN connection on/off.

- 1) Press ▲▼ to select [Wireless LAN].
- 2) Press ► to enter the submenu.
- 3) Press ► to switch [On]/[Off].
- 4) To connect to a wireless LAN, press ► to select [On], then open the dropdown menu.
- 5) Press ▲▼ to select the wireless LAN to connect to, then press <OK> to confirm.

[On]	Turns on wireless LAN, select connection.
[Off]	Turns off wireless LAN.

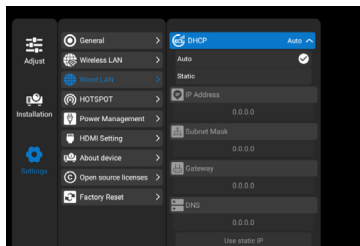
Note:

- These menus only appear after inserting the Wi-Fi dongle.
- When both wireless and wired LANs are connected, the wired LAN has higher priority.

The [Wired LAN] menu is used to view/set the projector's IP address.

On the menu screen, select [Wired LAN] from the 2nd level menu, then select an item from the 3rd level menu.

[Wired LAN]



[DHCP]

Set the wired LAN DHCP mode to Auto/Static.

- 1) Press ▲▼ to select [Wired LAN].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [DHCP].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Auto]	The projector automatically obtains an IP address after inserting a network cable.
[Static]	Manually set [IP Address], [Subnet Mask], [Gateway], and [DNS] when not using an automatic DHCP server.

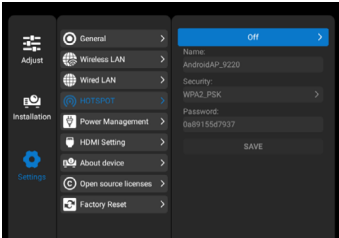
Note:

- After manually setting [IP Address], [Subnet Mask], [Gateway], and [DNS], press ▼ to select [Use static IP], then press <OK> to confirm.

[Settings] Menu

The [HOTSPOT] menu is used to set the projector's hotspot function.
On the menu screen, select [HOTSPOT] from the 2nd level menu, then select an item from the 3rd level menu.

[HOTSPOT]

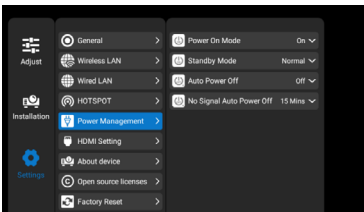


Note:

- These menus only appear after inserting the Wi-Fi dongle.

The [Power Management] menu is used to optimize power settings and reduce projector energy consumption.
On the menu screen, select [Power Management] from the 2nd level menu, then select an item from the 3rd level menu.

[Power Management]



[Power On Mode]

Set the projector state after plugging in the power cord.

- 1) Press ▲▼ to select [Power Management].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Power On Mode].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Standby]	The projector enters standby mode after connecting the power cord.
[On]	The projector is powered on after being connected to the power cable.

[Standby Mode]

Set the standby mode of the projector.

- 1) Press ▲▼ to select [Power Management].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Standby Mode].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Eco]	Enter energy-saving standby mode. Only serial port, remote control and key power on functions are kept for minimal power consumption.
[Normal]	Normal standby mode.

[Auto Power Off]

Set the projector's auto power off timer.

- 1) Press ▲▼ to select [Power Management].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [Auto Power Off].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	Turns off the [Auto Power Off] function.
[15 Mins]	Projector automatically powers off after 15 Mins.
[30 Mins]	Projector automatically powers off after 30 Mins.
[60 Mins]	Projector automatically powers off after 60 Mins.
[120 Mins]	Projector automatically powers off after 120 Mins.
[Custom]	Sets a custom duration for auto power off.

[No Signal Auto Power Off]

Set the projector's auto power off time

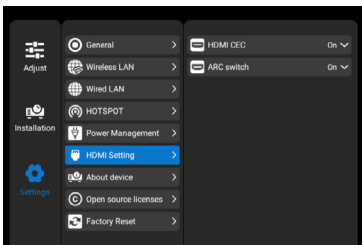
when there is no input signal.

- 1) Press ▲▼ to select [Power Management].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [No Signal Auto Power Off].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	Turns off the [No Signal Auto Power Off] function.
[5 Mins]	Projector automatically powers off after 5 Mins.
[10 Mins]	Projector automatically powers off after 10 Mins.
[15 Mins]	Projector automatically powers off after 15 Mins.
[30 Mins]	Projector automatically powers off after 30 Mins.
[60 Mins]	Projector automatically powers off after 60 Mins.
[Custom]	Sets a custom duration for auto power off.

The [HDMI Setting] menu is used to set the HDMI CEC switch and ARC switch. On the menu screen, select [HDMI Setting] from the 2nd level menu, then select an item from the 3rd level menu.

[HDMI Setting]



[HDMI CEC]

Enable/disable HDMI CEC.

- 1) Press ▲▼ to select [HDMI Setting].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [HDMI CEC].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.

- 6) Press <OK> to confirm.

[Off]	Does not allow input/output devices to interconnect and control each other.
[On]	Allows input/output devices to interconnect and control each other.

Note:

- Connected CEC-compatible devices may not support the power linkage described in the manual. Not all operations of CEC-compatible devices are guaranteed.

[ARC Switch]

Enable/disable HDMI ARC.

- 1) Press ▲▼ to select [HDMI Setting].
- 2) Press ► to enter the submenu.
- 3) Press ▲▼ to select [ARC Switch].
- 4) Press <OK> to open the dropdown menu.
- 5) Press ▲▼ to switch items.
- 6) Press <OK> to confirm.

[Off]	Turns off HDMI audio return function.
[On]	Turns on HDMI audio return function. Outputs audio signals to an amplifier/audio device via HDMI.

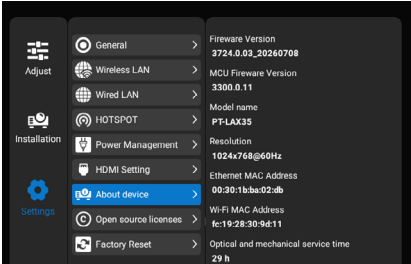
Note:

- When using the HDMI ARC function, if the source is switched directly to VGA or File Management, you need to manually set the channel on the amplifier/audio device for sound output. At this time, pressing volume or mute keys will not show menu prompts; they will directly adjust the amplifier's sound output.

[Settings] Menu

The [About device] menu is used to view the projector's firmware version, MCU firmware version, model, resolution, Ethernet MAC Address, used time, etc. On the menu screen, select [About device] from the 2nd level menu to execute this function.

[About device]



[About device]

Display projector information.

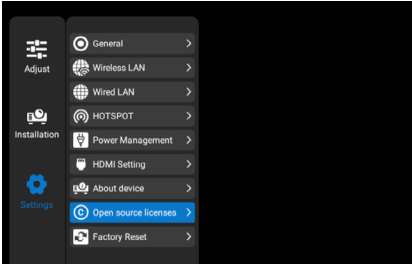
- 1) Press ▲▼ to select [About device].
 - The projector information is displayed.

[Firmware Version]	Display the projector's firmware version number.
[MCU Firmware Version]	Display the projector's MCU firmware version number.
[Model name]	Display the projector model.
[Serial Number]	Display the projector serial number.
[Resolution]	Display the projector's display resolution.
[Ethernet MAC Address]	Display the Ethernet MAC address of the projector.
[Wi-Fi MAC Address]	Display the Wi-Fi MAC address connected to the projector.
[Optical and mechanical service time]	Display the used time of the projector.

The [Open source licenses] menu is used to view open source licenses.

On the menu screen, select [Open source licenses] from the 2nd level menu to execute this function.

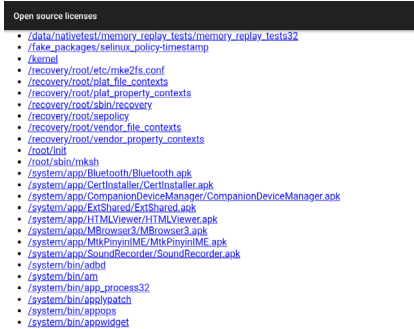
[Open source licenses]



[Open source licenses]

View open source licenses.

- 1) Press ▲▼ to select [Open source licenses].
- 2) Press <OK> to confirm.
 - The [Open source licenses] screen appears.

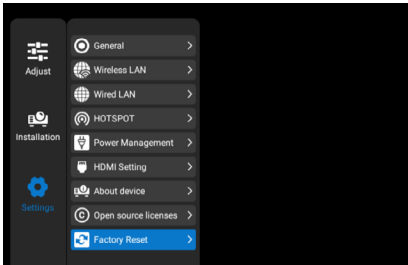


- 3) Press ▲▼ to select an [Open source licenses] file.
- 4) Press <OK> to confirm.
 - The file content is displayed.
- 5) Press ▲▼ to browse the file content.

The [Factory Reset] menu is used to restore all projector settings to factory default.

On the menu screen, select **[Factory Reset]** from the 2nd level menu to execute this function.

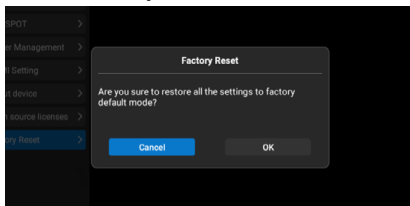
[Factory Reset]



[Factory Reset]

Restore all projector settings to factory default.

- 1) Press **▲▼** to select [Factory Reset].
- 2) Press **<OK>** to confirm.
 - The [Factory Reset] confirmation screen appears.
- 3) Press **►** to select [OK].
- 4) Press **<OK>** to confirm.
 - The projector restarts and returns to the factory default state.



Note:

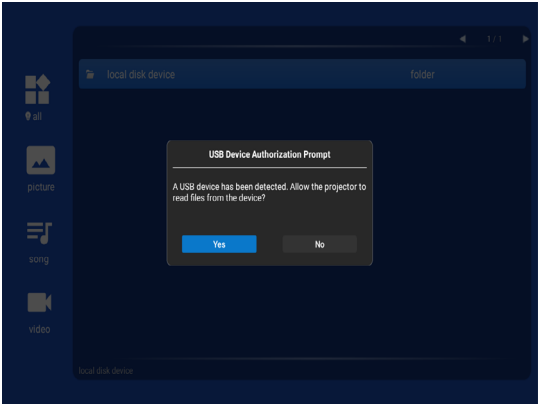
- When executing [Factory Reset], all setting values will return to factory settings except for the projector used time and filter used time.
- During execution of [Factory Reset], the projector will automatically turn off and then turn back on.

Using Useful Functions

File Management Channel Introduction

USB Storage Device Authorization Prompt

- 1) When a USB storage device is inserted into the projector and the source is switched to the File Management channel, a [USB Device Authorization Prompt] box appears. Press ◀▶ to switch the option to [Yes], then press <OK> to confirm. The pictures, audio, and video files in the storage device can then be projected/played.
- 2) If [No] is selected after the authorization prompt appears, the prompt will automatically reappear when re-plugging the USB drive (if the input channel remains on File Management) or when switching the source channel back to [File Management] or when turning the projector off and on again (if the input channel remains on File Management).
- 3) After selecting [Yes], authorization is granted and the prompt will not reappear later. It will only be prompted again after performing a factory reset.



Content that can be projected from USB storage

The USB storage supports the following file formats.

	Extensions	Description
Pictures	jpg/jpeg	Supported resolutions: 1920×1080, 2560×1600, 3840×2160, and 8K (decoding may fail).
	bmp	
	png	
	flac	
Audio	M4A	—
	mono	—
	mp2	—
	mp3	—
	OGG	—
	wav	—

Video	M4V	Supported codecs: H264, H263, vp9. Supported resolutions: 176×128, 176×144, 320×240, 480i, 480P, 576i, 576P, 720P, 1024×768, 1080i, 1080P.
	FLV	
	VOB	
	MTS	
	TS	
	3GP	
	MKV	
	MP4	
	MOV	
	AVI	
	Webm	

Note:

- The projector does not have a PDF reader application, so it does not support reading PDF files from the USB drive.
- The maximum number of folders/files that can be displayed is approximately 500. Other formats not listed above are not supported.
- Files protected by Digital Rights Management (DRM) cannot be played.
- Due to memory limitations, 8K pictures may fail to decode. If decoding fails, simply play again.

Precautions when using the File Management channel

Please observe the following:

- Do not leave USB storage devices or their protective caps where children can reach them. Swallowing a USB storage device or cap may cause choking.
- If smoke or abnormal odor is produced, remove the USB storage device from the projector and contact your dealer.
- Do not let water, chemicals, or oil enter the USB storage device. Otherwise, short circuits or fire may result.
- Do not insert foreign objects or metal items into the USB port. Static electricity may cause data loss or corruption.
- Do not remove the USB storage device from the computer or projector while it is reading or writing data. Otherwise, data loss or corruption may occur.
- Do not store the USB storage device in high-temperature, humid, or dusty places, or near magnetized substances.

Note:

- Compatible with commercially available USB storage devices.
- Formats other than FAT16 and FAT32 cannot be used.

Inserting USB storage

- 1) Directly insert the USB storage device into the <USB A> terminal.

Removing USB storage

- 1) Ensure the USB storage device is not blinking, then remove it.

Note:

- Observe the following when removing the USB storage device:
 - When using a USB storage device with an indicator light, if the light is blinking, the projector is accessing (reading or writing) the USB storage device. Do not remove the device at this time.
 - If using a USB storage device without an indicator light, it will not be recognized when the projector is reading data. Please close the storage browser function or turn off the projector before removing the USB storage device.
 - Do not insert and remove the USB storage device in rapid succession. Wait at least 5 seconds after

Using Useful Functions

insertion before removal, and wait at least 5 seconds after removal before re-insertion. The projector takes about 5 seconds to recognize the operation when inserting or removing a USB storage device.

Note:

- The USB storage device can be inserted or removed regardless of the projector's power state.

Displaying the USB storage screen

- 1) Press the <Input> key on the remote control or control panel and select the source [File Management].
- 2) Directly insert the USB storage device into the <USB A> terminal.
 - After a moment, the root directory of the USB storage device is displayed as a list.
- 3) Press <OK> to enter.

Playing Pictures

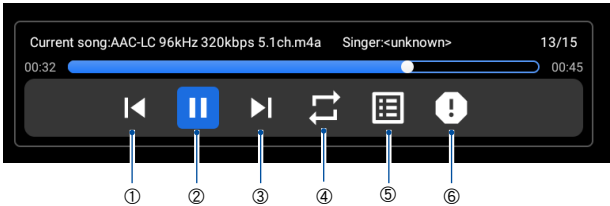


①	Switch to previous picture.
②	Automatically loop play all pictures in the USB drive.
③	Switch to next picture.
④	Rotate 90 degrees to the right.
⑤	Rotate 90 degrees to the left.
⑥	View picture information: file name, creation time, file size, file format.

Each time you manually play a picture, only one picture is displayed.

- 1) Press ▲▼ on the remote control to select a picture file from the USB storage directory.
- 2) Press <OK> on the remote control.
 - The picture opens.
- 3) Press <OK> on the remote control.
 - The control option menu opens.
- 4) While the control option menu is open, press ▼ to switch to the next picture, press ▲ to return to the previous picture.
- 5) Press ◀▶ to switch option functions.
- 6) Press <OK> on the remote control to make adjustments.
- 7) Press <BACK> on the remote control to exit.

Playing Music

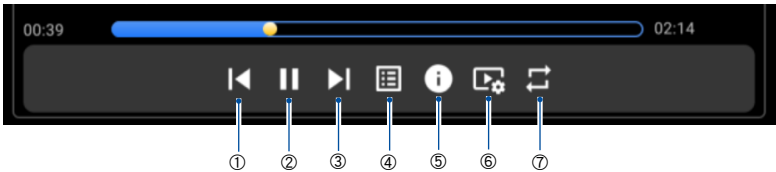


①	Switch to previous track.
②	Pause/Play music.
③	Switch to next track.
④	List loop play, single track loop play, no loop play.
⑤	Display song playlist.
⑥	Display song information: file name, song duration, artist name, file format, audio codec, file path.

A music playback interface appears during music playback.

- 1) Press ▲▼ on the remote control to select an audio file from the USB storage directory.
- 2) Press <OK> on the remote control.
 - The music starts playing.
- 3) Press ◀▶ to switch option functions.
- 4) Press <OK> on the remote control to make adjustments.
- 5) Press <BACK> on the remote control to exit.

Playing Video



①	Switch to previous video.
②	Pause/Play video.
③	Switch to next video.
④	Display video playlist.
⑤	View video information: file name, duration, file size, file format, audio codec, video codec.
⑥	Display video playback settings.
⑦	List video loop play.

Using Useful Functions

Playing videos from USB storage.

- 1) Press ▲▼ on the remote control to select a video file from the USB storage directory.
- 2) Press <OK> on the remote control.
 - The video starts playing.
- 3) Press <OK> on the remote control.
 - The control option menu opens.
- 4) Press ◀▶ to switch option functions.
- 5) Press <OK> on the remote control to make adjustments.
- 6) Press <BACK> on the remote control to exit.

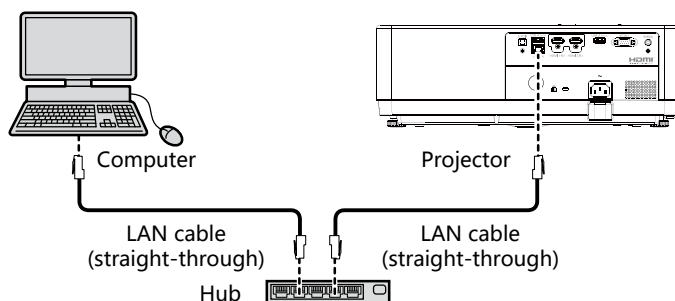
Network Connection

● PjLink

Using the PjLink protocol, you can send inquiries from a computer about the projector's operation and status. For details, refer to "Using PjLink Protocol " (➡ page 73).

Connecting via wired LAN

■ Connection Example



Note:

- To use the wired LAN function, a LAN cable is required.
- Use a straight-through LAN cable that supports Category 5 or higher.
- Use a LAN cable with length less than 100 m.

■ Projector Settings

- 1) Connect the projector and computer to the same router or switch using a LAN cable.
- 2) Turn on the projector.
- 3) [Settings] menu → [Wired LAN] → [DHCP].
 - For details, refer to [Settings] menu → [Wired LAN] (➡ page 55).

Note:

- Before connecting to an existing network, check with your network administrator.
- The projector is shipped with the following settings: [DHCP] menu → [Auto].

[IP Address]	0.0.0.0
[Subnet Mask]	0.0.0.0
[Gateway]	0.0.0.0
[DNS]	0.0.0.0

■ Computer Settings

Connection via wired LAN is possible. However, please check with your network administrator for network setting changes.

- 1) Turn on the computer.
- 2) Perform network settings according to your network administrator's instructions.
 - If the projector's settings are at factory default, first make the following settings on the projector: [DHCP] menu → [Static].
 - Then use the following network settings on the computer (example):

[IP Address]	192.168.1.100
[Subnet Mask]	255.255.255.0
[Gateway]	192.168.1.1
[DNS]	192.168.1.2

Maintenance

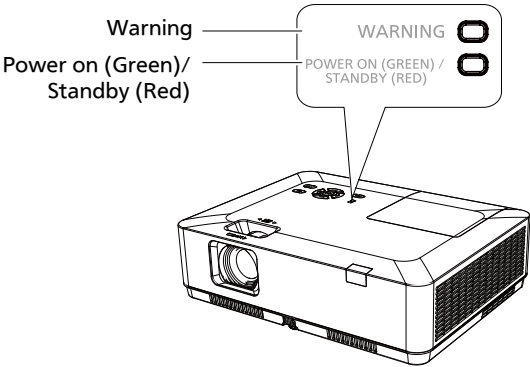
Warning/Power Indicator

When the indicators light up

When an abnormality occurs inside the projector, the power indicator <POWER ON (GREEN) /STANDBY (RED)> and the warning indicator <WARNING> will light up or flash to alert you. Please check the indicator status and handle the problem according to the instructions below.

Note:

- Before solving the problem, turn off the projector following the steps described in the "Turning Off the Projector" section. (➡ page 31)



Indicator and projector status

Check the indicators to understand the projector status.

Indicator		Projector status	Causes	Solution
Warning	Power on (Green)/ Standby (Red)			
Off	Off	Projector is off (AC power cord not inserted).	—	—
Off	Lights red	Projector is in standby mode. Press <Power> key to turn on.	—	—
Off	Flashing red 0/Lights red	Normal standby.	• First power-on standby: On (Green)/ Standby (Red) red flashes for 40 seconds then solid red	—
Off	Lights green	The projector is on and operating normally.	—	—
Off	Flashing red 0	Projector is cooling down.	—	—

Indicator		Projector status	Causes	Solution
Warning	Power on (Green)/ Standby (Red)			
Flashing red 1	Lights red	Projector detected temperature abnormality and entered cooling state.	- Intake/ exhaust vents blocked? - Room temperature high? - Filter clogged?	- Remove objects blocking intake/ exhaust vents. - Install the projector at a location within the operating temperature range (⇒ page 79). - Do not use the projector at altitude of 2700m or above. - Clean or replace the filter and reset the filter counter.
Flashing red 2	Lights red	Projector detected temperature abnormality and is in standby state.		
Flashing orange 0	Lights red	Projector detected other fan abnormality (12V voltage abnormality, IIC abnormality, etc.).	—	—
Flashing orange 1	Lights red	Projector detected fan abnormality 1 and is cooling.	—	—
Flashing orange 2	Lights red	Projector detected fan abnormality 2 and is cooling.	—	—
Flashing orange 3	Lights red	Projector detected fan abnormality 3 and is cooling.	—	—
Flashing orange 4	Lights red	Projector detected fan abnormality 4 and is cooling.	—	—
Flashing orange 5	Lights red	Projector detected fan abnormality 5 and is cooling.	—	—
Flashing red 0	Lights red	Projector detected light abnormality and is cooling.	—	—

Note:

- Flashing patterns 0: 0.5 s on, 0.5 s off
- Flashing patterns 1: flash once, off 2 s
- Flashing patterns 2: flash twice, off 2 s
- Flashing patterns 3: flash three times, off 2 s
- Flashing patterns 4: flash four times, off 2 s
- Flashing patterns 5: flash five times, off 2 s
- After taking the above solutions and restarting, if the warning indicator <Warning> continues to light or flash, contact your dealer for service.

Maintenance

Maintenance/Replacement

Before performing maintenance or replacement

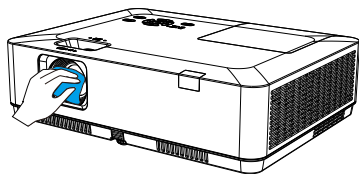
- When performing maintenance or replacing parts, be sure to turn off the power (➡ page 29) and unplug the power cord from the wall outlet.
- When performing power operations, be sure to follow the steps described in the "Turning Off the Projector" (➡ page 31) section.

Maintenance

■ Cleaning the Projection Lens

Apply a non-abrasive camera lens cleaner to a clean cloth, then gently wipe the lens, or use lens cleaning paper or a commercial blower to clean the lens.

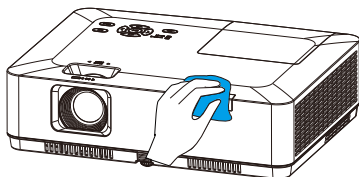
Avoid using excessive cleaner. Abrasive cleaners, solvents, or other harsh chemicals will scratch the lens.



■ Cleaning the Projector Cabinet

Gently wipe the projector surface with a clean, soft cloth. When dirt is heavy, apply a small amount of neutral detergent to a soft, clean cloth and gently wipe. Avoid using excessive cleaner. Abrasive cleaners, solvents, or other harsh chemicals will scratch the cabinet surface.

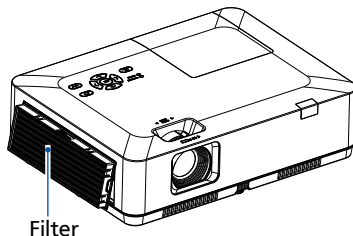
When not using the projector, store it in its packaging to prevent dust accumulation and scratches.



■ Cleaning the Filter

The filter prevents dust from accumulating on the surfaces of the lens components inside the projector. If the filter becomes clogged with dust, etc., the efficiency of the cooling fan will be reduced, leading to heat buildup inside the projector and shortening its life. If the prompt menu of "Filter Warning" appears on the screen, clean the filter immediately. Clean the filter following the steps below:

- 1) Turn off the projector and unplug the AC power cord from the outlet.
- 2) Remove the filter cover.
- 3) Remove the filter from the filter cover.
- 4) Use a vacuum cleaner to remove dirt or dust from the filter and the filter compartment.
- 5) Reinstall the filter, ensuring it is fully inserted into the projector.



Note:

- Before cleaning the filter, be sure to turn off the power.
- Ensure the projector is stable and in a safe position for maintenance so that even if the filter falls, it will not be damaged.
- Do not operate the projector with the filter removed. Otherwise, dust will adhere to the lens components, degrading picture quality.
- Do not put small objects into the vents. Otherwise, projector malfunction may result.
- Do not wash the filter with water or any other liquid, as this may damage the filter.
- If the filter cannot be cleaned or is damaged, contact your dealer.

■ Replacing the Filter

- 1) Install the new filter into the filter cover plate.
 - There is a distinction between the inside and outside of the filter.
Inside: smooth fiber, Outside:

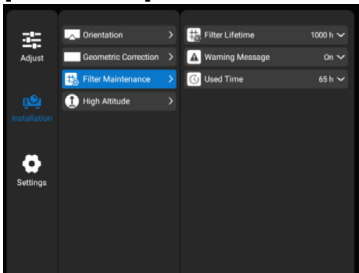
cotton-like fiber

- 2) Insert the filter cover into the projector.
 - First insert the right side of the filter cover, then push the left side of the filter cover with your finger until it clicks into place.
 - Ensure the filter cover is installed correctly.

■ Resetting the Filter Counter

- 1) Press the Menu key to display the on-screen menu. Press the ▲▼ to select the "Installation" menu icon, then press Enter.
- 2) Press ▲▼ to select "Filter Maintenance", then press ► or Enter. Press ▲▼ to select "Used Time", then press Enter to open the dropdown menu. Press ▲▼ to switch items to "Time Reset".
- 3) Another dialog box appears, select "OK" to reset the filter counter.

[Filter Menu]



Note

- Be sure to reset the filter counter after cleaning or replacing the filter.

Note:

- We recommend avoiding operating the projector in dusty/smoky places. Using the projector in these places will degrade picture quality. Using the projector in a dusty or smoky environment will cause dust to accumulate on the lens, LCD panels, or other optical components inside the projector. If this occurs, contact your dealer or service center for proper cleaning.

■ Lamp Unit

The lamp unit is a consumable part. Check the lamp used time using "Optical and

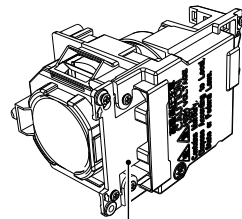
mechanical service time" in "About device" (⇒ page 58).

It is recommended to have a professional technician replace the lamp module. Contact your dealer.

Contact an authorized dealer to purchase a replacement lamp module.

Do not replace the lamp while it is hot (wait at least 1 hour after use).

The inside of the lamp module cover becomes hot. Be careful to avoid burns.



Lamp module diagram



Note

- The light lamp is mainly made of glass. It is very likely to break if hit with a hard object or dropped. Therefore, handle with care.
- A Phillips screwdriver is required to replace the lamp module.
- When replacing the lamp module, be sure to hold the handle of the lamp module.
- If you wait until the lamp no longer lights before replacing it, the lamp may have already broken. When replacing the lamp of a ceiling-mounted projector, always assume the lamp is broken, so stand beside the lamp cover rather than underneath it when replacing. Open the lamp cover gently. Small glass fragments may fall out when the lamp cover is opened. If glass fragments get into your eyes or mouth, seek medical attention immediately.
- The lamp contains mercury. Consult your local authorities or dealer for proper disposal of old lamps.



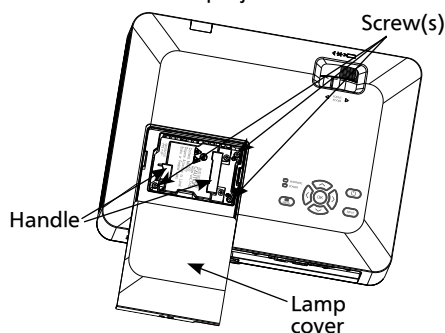
Note

- Since the interior of the projector is very hot, allow the projector to cool for at least 1 hour before opening the lamp cover.

Maintenance

Follow the steps below to replace the lamp:

- 1) Turn off the projector and unplug the AC power cord. Allow the projector to cool for at least 1 hour.
- 2) Loosen the screws on the right side of the lamp cover and open the lamp cover.
- 3) Loosen the 3 screws securing the lamp. Hold the handle and pull out the lamp.
- 4) Insert the new lamp and tighten the 3 screws. Ensure the lamp is installed correctly. Close the lamp cover and tighten the screws.
- 5) Connect the projector's AC power cord and turn on the projector.



Lamp Operation Precautions

This projector uses a high-pressure lamp, so care and proper handling are essential.

Otherwise, accidents, injury, or fire may occur.

- Lamp life varies depending on the usage environment. The same lamp life cannot be guaranteed for all lamps. Therefore, sometimes the life of one lamp may be shorter than others.
- If the projector indicates that the lamp needs to be replaced, replace it immediately with a new lamp after the projector is turned off and cooled down. (Please strictly follow the lamp replacement instructions in this instruction manual.)
- The lamp may rupture due to external shock or vibration; brightness will decrease as the end of its life approaches. The risk of rupture varies depending on the environment and condition of the projector and lamp.

If the lamp ruptures, take the following safety measures:

Immediately disconnect the projector from the power supply. Contact an authorized service center to inspect the projector and replace the lamp. Also, carefully inspect the area around the projector to ensure that all fragments are removed. Any fragments found must be cleaned up. No one other than authorized, qualified technicians and personnel familiar with projector repair should inspect the interior of the projector. Otherwise, we assume no responsibility for the consequences.

Troubleshooting

Before requesting dealer assistance, check the following points. For more details, refer to the relevant pages.

Troubleshooting	Solution	page
Cannot turn on	• Insert projector power plug into AC outlet.	29
	• Check if POWER ON (GREEN)/STANDBY (RED) indicator is lit red.	29
	• Check warning indicator. If warning indicator lights red, projector cannot be turned on.	66
Input signal switches automatically (or does not)	• Check if [Default Source] function is set correctly.	54
Prompt menu for 'Filter Warning' appears after projector startup	• This is a filter replacement warning menu.	68
Picture appears flipped left/right Picture appears flipped up/down	• Check [Orientation] menu setting.	51
Picture is not bright enough	• Check if contrast or brightness adjustments are appropriate.	44
	• Check if [Picture Mode] selection is appropriate.	44
	• Check lamp brightness adjustment function.	44
	• Check lamp replacement.	69
No picture	• Check connection between computer/video equipment and projector.	24
	• Check if input signal from computer is correct. When connecting to some portable computers, the display output setting often needs to be changed. Refer to the computer's user manual for settings.	32
	• It takes about 30 seconds for the picture to appear after turning on the projector.	30
	• Check the input signal, color system, video system, and Picture option in the [adjust] menu	44
	• Ensure temperature is within specified operating temperature.	79
	• When using shutter function, picture is not displayed. Press <BLANK> key or other key on remote control.	34
No sound	• Check audio cable connection of audio source.	28
	• Press <VOLUME +> key.	34
	• Press the <MUTE> key.	34
	• If a cable is plugged into the <Audio Output> terminal, the projector's built-in speaker will be disabled.	28
Abnormal color	• Check the input signal, color system, video system, and Picture option in the [adjust] menu	44
No picture or unstable signal from HDMI device	• Is HDMI cable securely connected?	—
	• Turn off power to projector and connected device, then turn on again.	—
	• Is an unsupported signal cable connected?	—

Maintenance

Troubleshooting	Solution	page
No audio output from HDMI device	• Set the audio channel of the connected device to linear PCM.	—
Distorted picture or signal loss	• Check and adjust the relevant settings of the input source or the Brightness, Contrast, Saturation and other options in the [Adjust] menu.	44
Remote control does not work	• Check batteries.	18
	• Ensure no obstacles between projector and remote control.	—
	• Ensure remote control is not too far from projector. Maximum operating range is 8 m.	18
The indicator lights or flashes.	• Check for projector failure according to the indicator status and projector state.	66

Note:

- If the problem persists after checking the above steps, consult your dealer.

Using PJLink Protocol

The network function of this projector supports PJLink Class 1 standard. You can use the PJLink protocol to set the projector and query projector status from a computer.

Control Commands

Commands for controlling this projector via the PJLink protocol are shown in the table below.

- The × character in the table represents non-specific characters.

Command	Control content	Parameter/Return string	Remarks		
POWR OFF POWR ON	Power control	0 1	Standby Turn on projector		
POWR?	Query power status	0 1	Standby Turn on projector		
INPT	Input selection* ¹	11 31 41 51* ²	VGA HDMI File Management Wireless Screen Mirroring		
INPT?	Query input switching status	Input RGB 1 Input DIGITAL 1 Input STRAGE 1 Input NETWORK 1* ²	VGA HDMI File Management Wireless Screen Mirroring		
AVMT	Shutter/Mute control	10 11 20	Video mute off Video mute on Audio mute off		
AVMT?	Query shutter/mute status* ¹	21 30 31	Audio mute on VIDEO & AUDIO mute OFF VIDEO & AUDIO mute ON		
ERST?	Query error status	xxxxxxx	1st byte	Returns 0.	• 0=no error • 1=warning • 2=error
			2nd byte	Indicates a light error and returns 0 or 2.	
			3rd byte	Returns 0.	
			4th byte	Returns 0.	
			5th byte	Returns 0.	
			6th byte	Returns 0.	
LAMP?	Query light status	xxxxxx	(1st-5th digits: lamp runtime) Suffix: OFF=lamp off, ON=lamp on		
INST?	Query input selection list	11, 31, 41, 51			
NAME?	Query projector name	PROJECTOR			
INF1?	Query manufacturer name	Panasonic	Return manufacturer name.		
INF2?	Query product model		Returns model name.		
INFO?	Query other information		Returns version information.		
CLSS?	Query class information	1	Returns PJLink class.		

- *¹If the parameter is inaccurate, the return value is "ERR2".
- *²Commands only appear after inserting the Wi-Fi dongle.

Appendix

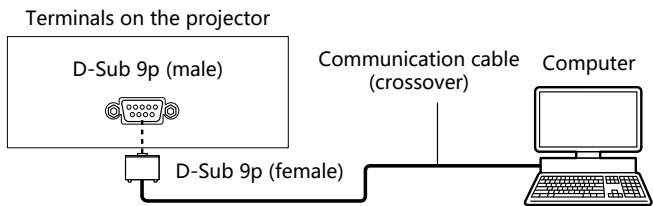
PJLink Security Authentication

- For specifications related to PJLink, refer to the "Japan Business Machine and Information System Industries Association" website. URL: <http://pjlink.jbmia.or.jp/english/>

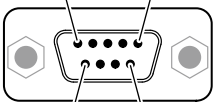
<Serial Input> Terminal

The projector's <Serial Input> terminal complies with RS-232C, so the projector can be connected to a computer and controlled via the computer.

Connection



Pin assignment and signal names

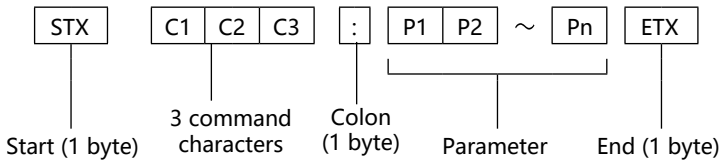
D-Sub 9-pin male 	Pin No.	Signal Name	Description
	1	—	NC
	2	RXD	Receive data
	3	TXD	Transmit data
	4	—	NC
	5	GND	Ground
	6	—	NC
	7	—	NC
	8	—	NC
	9	—	NC

Communication conditions (factory default settings)

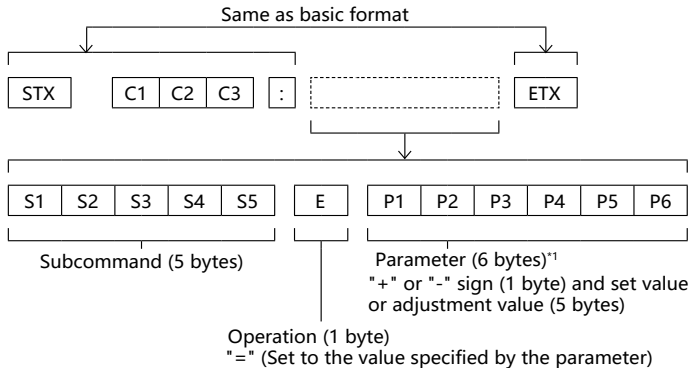
Signal level	RS-232C compatible
Synchronization method	Asynchronous
Baud rate	19200 bps
Parity check	None
Character length	8 bits
Stop bit	1 bit
Flow control	None

Basic format

Data sent from the computer is transmitted in the order of STX, command, parameter, and ETX. Add parameters according to control details.



Basic format (with subcommand)



*1 When transmitting a command that does not require a parameter, the operation (E) and parameter are not required.

Note:

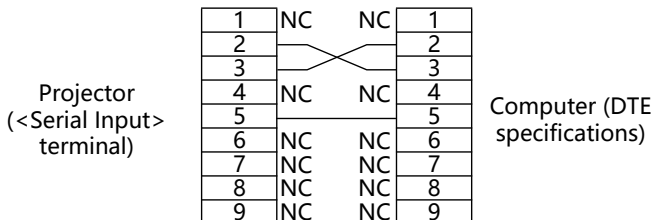
- If a command is transmitted after the lamp light starts emitting light, response may be delayed or the command may not be executable. Try sending or receiving any command after 60 seconds.
- When transmitting multiple commands, after receiving a response from this projector, be sure to wait at least 0.5 seconds before sending the next command. When transmitting a command that does not require a parameter, the colon (:) can be omitted.

Note:

- If a command cannot be executed, the projector sends an "ER401" response to the computer.
- If an invalid parameter is sent, the projector sends an "ER401" response to the computer.
- STX and ETX are character codes. STX displayed in hexadecimal is 02, and ETX displayed in hexadecimal is 03.

Cable specifications

[When connecting to a computer]



Control Commands

The table below lists commands that can control the projector from a computer.

Appendix

■ Projector control commands

Command	Hexadecimal	Control content	Parameter/Return string	Description
PON	50 4F 4E	Power on		To check power status, use "Query power status" command.
POF	50 4F 46	Power standby		
IIS:RG1 IIS:HD1 IIS:MV1	49 49 53 3A 52 47 31 49 49 53 3A 48 44 31 49 49 53 3A 4D 56 31	Switch input signal	RG1 HD1 MV1	VGA HDMI USB
AUU	41 55 55	Volume increase		
AUD	41 55 44	Volume decrease		
OSH	4F 53 48	Shutter function		Send on/off toggle command. Do not toggle on/off in very short intervals.
AMT:0 AMT:1	41 4D 54 3A 30 41 4D 54 3A 31	Mute function	0 1	Off On
QPW	51 50 57	Query power status	000 001	Standby On
Q\$S	51 24 53	Query light status	0 1	Light off Light on
VS1	56 53 31	Aspect ratio switching	0* ¹ 1	16:10* ¹ Keep signal proportion
QS1	51 53 31	Query aspect ratio setting	2 6 7* ²	16:9 Full 4:3* ²

- *¹Only PT-LAX35, PT-LAX40, PT-LAX45.
- *²Only PT-LAW44 .

Compatible Signal List

The table below lists input signals compatible with this projector.

Menu	Resolution	Scan frequency		Dot clock frequency (MHz)	Source	
		Horizontal (kHz)	Vertical (Hz)		VGA	HDMI
640x480@60 Hz	640x480	31.469	59.940	25.175	○	○
640x480@72 Hz		37.861	72.809	31.500	○	○
640x480@75 Hz		37.500	75.000	31.500	○	○
720x400@70 Hz	720x400	31.470	70.080	28.320	-	○
800x600@60 Hz	800x600	37.879	60.317	40.000	○	○
800x600@72 Hz		48.077	72.188	50.000	○	○
800x600@75 Hz		46.875	75.000	49.500	○	○
832x624@75 Hz	832x624	49.725	74.550	57.280	-	○
1024x768@60 Hz	1024x768	48.363	60.004	65.000	○	○
1024x768@70 Hz		56.476	70.069	75.000	○	○
1024x768@75 Hz		60.023	75.029	78.750	○	○
1152x870@75 Hz	1152x870	68.681	75.062	100.000	-	○
1280x720@60 Hz	1280x720	45.000	60.000	74.250	○	○
1280x800@60 Hz	1280x800	49.702	59.810	83.500	○	○
1280x1024@75 Hz	1280x1024	79.976	75.025	135.000	○	○
1600x1200@60 Hz	1600x1200	75.000	60.000	162.000	○	○
1920x1080@60 Hz	1920x1080	67.500	60.000	148.500	○	○
1920x1200@60 Hz	1920x1200	74.038	59.950	154.000	○	○
640x480@60 Hz	640x480P	31.500	60.000	25.200	-	○
480p SD	720x480P	31.470	59.940	27.000	-	○
		31.500	60.000	27.027	-	○
576p SD	720x576P	31.250	50.000	27.000	-	○
720p HD	1280x720P	37.500	50.000	74.250	-	○
		45.000	60.000	74.250	-	○
1080p HD	1920x1080P	27.000	24.000	74.250	-	○
		28.125	25.000	74.250	-	○
		33.750	30.000	74.250	-	○
		56.250	50.000	148.500	-	○
		67.500	60.000	148.500	-	○
2160p UHD	3840x2160P	54.000	24.000	297.000	-	○
		56.250	25.000	297.000	-	○
		67.500	30.000	297.000	-	○
		112.500	50.000	594.000	-	○
		135.000	60.000	594.000	-	○

Note:

- Signals of different resolutions are converted to display pixels. Display pixels are as follows:
 - PT-LAX35, PT-LAX40, PT-LAX45: 1024 x 768
 - PT-LAW44: 1280 x 800
- An "i" at the end of a resolution indicates an interlaced signal.
- When an interlaced signal is connected, the projected picture may shake.
- These specifications are subject to change without notice.

Appendix

Specification

Power supply		100-240 V~, 50/60 Hz	
Power consumption	Projection mode	335 W (max 3.6 A)	
	Standby mode	When [Standby Mode] set to [Normal]: < 9 W When [Standby Mode] set to [Eco]: < 0.5 W	
LCD panel	Size	PT-LAX35, PT-LAX40, PT-LAX45	1.60 cm (3x0.63") (aspect ratio 4:3)
		PT-LAW44	1.63 cm (3x0.64") (aspect ratio 16:10)
	Display system	Three-piece transmissive LCD panel, three-primary color system	
	Drive system	Active matrix system	
	Number of pixels	PT-LAX35, PT-LAX40, PT-LAX45	786432 pixels (1024 x 768) x 3 panels
PT-LAW44		1024000 pixels (1280 x 800) x 3 panels	
Lens	Throw ratio	PT-LAX35, PT-LAX40, PT-LAX45	1.46 ~ 1.76
		PT-LAW44	1.35 ~ 1.63
	F	F 1.61~1.76	
Light output* 1		PT-LAX35	3300 lm
		PT-LAX40	3800 lm
		PT-LAX45	4600 lm
		PT-LAW44	4300 lm
Contrast ratio* 1		15000:1	
Projection screen size		30" ~ 299"	
Screen aspect ratio		PT-LAX35, PT-LAX40, PT-LAX45	Standard 4:3 / Compatible 16:9
		PT-LAW44	Standard 16:10 / Compatible 4:3
Projection method		[Desktop Front], [Desktop Rear], [Ceiling Front], [Ceiling Rear] (menu setting)	
Built-in speaker		5 W, 8 Ω x 1	
Power cord length		1.5 m	
Size		Width: 345 mm Height: 99 mm (with adjustable feet retracted) Depth: 261 mm	
Weight		3.1 kg*2	
Noise level* 1		PT-LAX35	When [Light Mode] is set to [Normal]: 38 dB When [Light Mode] is set to [Eco]: 35 dB
		PT-LAX40, PT-LAX45, PT-LAW44	When [Light Mode] is set to [Normal]: 39 dB When [Light Mode] is set to [Eco]: 35 dB

Operating environment	Temperature*3	5°C(41°F) ~ 40°C(104°F) (altitude below 1400 m (4593'); [High Altitude]: [Off]) (altitude 1400 m (4593') ~ 2700 m (8858'); [High Altitude]: [On])
	Humidity:	20% – 80% (no condensation)
Remote control	Power supply	DC 3 V (AAA/R03 or LR03 batteries × 2)
	Operating range	Approx. 8 m (when operating directly in front of signal receiver)
	Weight	38 g (excluding batteries)
	Dimensions	Width: 50 mm, Length: 110 mm, Height: 20 mm

*1 Measurement scale, conditions, and marking method comply with ISO/IEC 21118:2020 international standard.

*2 This is an average value. It may vary slightly per product.

*3 When [High Altitude] is set to [Off] and the operating environment temperature exceeds 36°C, the projector's power will automatically switch to the [Eco] mode option to improve heat dissipation. The [Light Mode] in the menu remains unchanged. When the temperature drops below 36°C, the power automatically returns to the original [Light Mode] setting. When [High Altitude] is set to [On] and the operating environment temperature exceeds 31°C, the projector's power will automatically switch to the [Eco] mode option to improve heat dissipation. The [Light Mode] in the menu remains unchanged. When the temperature drops below 31°C, the power automatically returns to the original [Light Mode] setting.

Note:

- Accessory and optional accessory model numbers are subject to change without notice.

Appendix

■ Connection terminals

<Computer Input> terminal	Single-line (high-density D-Sub 15-pin female) [RGB signal] 0.7 V [p-p] 75 Ω HD/SYNC: TTL high impedance, auto positive/negative compatible VD: TTL high impedance, auto positive/negative compatible (HD/SYNC and VD do not support 3-value SYNC.)
<HDMI Input> terminal:	Dual-line (HDMI 19-pin, HDCP compatible) Audio signal: linear PCM (sampling frequency: 48 kHz / 44.1 kHz / 32 kHz)
<Audio Input> terminal	Single-line (M3 stereo mini jack, 0.5 V [rms], input impedance 22 k Ω or more)
<Audio Output> terminal	Single-line (M3 stereo mini jack, compatible with stereo audio output, 0 V [rms] – 0.5 V [rms] variable, output impedance 2.2 k Ω or less)
<USB A> terminal	USB connector (Type A $\times$ 1) (rated voltage 5 V, max current 1 A)
<Serial Input> terminal	Single-line (D-Sub 9-pin male, conforms to RS-232C specifications, for computer control)
<LAN> terminal	Single-line (for RJ-45 network connection, compatible with PLink, 10Base-T/100Base-TX)

■ Compatible signals

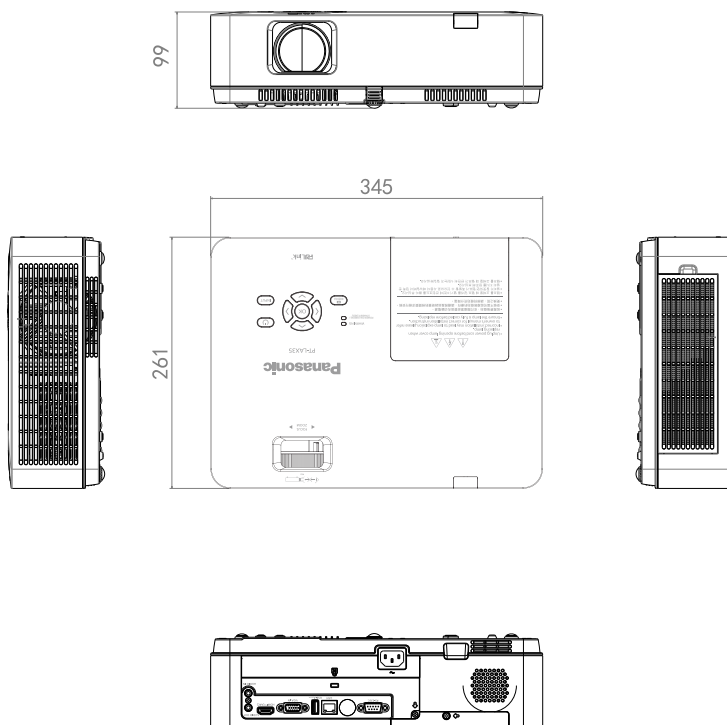
For details on video signal types usable with the projector, refer to the "Compatible Signal List" (➡ page 77).

For RGB signals	- Supported resolution: 640$\times$480 to 1920$\times$1200 - Dot clock frequency: 300 MHz
For HDMI signals	- Supported resolution: 640$\times$480 to 3840$\times$2160 (non-interlaced scanning) - Dot clock frequency: 600 MHz

Dimensions

Screw size: M4

Depth: 10 Unit: mm

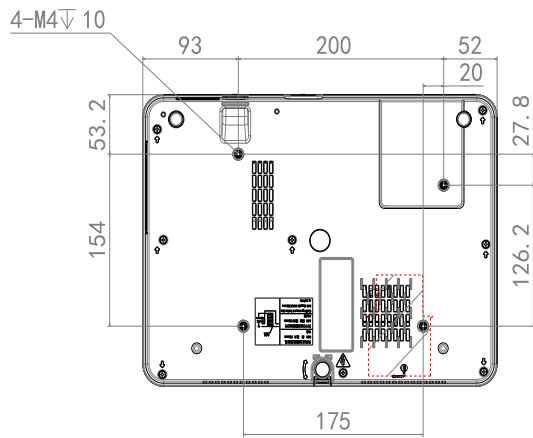


Projector Bracket Installation Notes

- When installing the projector, install a projector bracket and a projector fall prevention cable.
- Have qualified technicians perform installation work, such as mounting the projector to the ceiling.
- Even within the warranty period, Panasonic is not responsible for any accidents, damage, or projector failure resulting from the use of a faulty or improperly designed mounting bracket, improper installation, or the inappropriate choice of location for installation.
- Products that are no longer in use must be properly removed by qualified technicians.
- Use a torque screwdriver or hex torque wrench to tighten bolts to the specified tightening torque. Do not use electric or impact screwdrivers.

■ Projector bracket Screw Mounting Hole Specifications

Screw size: M4
Depth: 10 Unit: mm
Projector lens (dashed line)



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