Features and Design

This Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 10.7 million colors, and matrix liquid crystal display (LCD) technology.

Simple Computer System Setting
The projector has the Multi-scan system to conform to almost all computer output signals quickly. Up to WUXGA resolution can be accepted.

Useful Functions for Presentations
The digital zoom function allows you to focus on the crucial information during a presentation.

Lamp Control
Brightness of the projection lamp can be selected.

Logo Function
The Logo function allows you to customize the screen logo.

Multilanguage Menu Display
This projector provides multi-language menu setting. (Page 44)

Helpful Maintenance Functions
Lamp and filter maintenance functions provide for better and proper maintenance of the projector.

Security Function
The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the top control or remote control. PIN code lock function prevents unauthorized use of the projector.

LAN Function
This projector is loaded with the wired LAN and wireless Lan function. You can operate and manage the projector via network. (Page 54-61.) When you use the wireless function, refer to the instructions of the wireless device.

Auto Setup Function
This function enables input source search, auto pc adjust and auto keystone by simple pressing the AUTO button on the remote control.

Colorboard Function
At the time of simple projection on the colored wall, you can get the close color image to the color image projected on a white screen by selecting the similar color to the wall color from the preset four colors.

Switchable Interface Terminal
The projector provides a switchable VGA terminal. You can use the terminal as computer input or monitor output conveniently.

Power Management
The Power management function reduces power consumption and maintains the lamp life.

Closed Caption
This is a printed version of the program sound or other information displayed on the screen. You can turn on the feature and switch the channels.

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- The screen menu and pictures in the manual may slightly differ from the real product.
- The manual is subject to change without prior notice.
Safety Instructions

Please read this manual completely before installing and operating the projector. The projector provides many convenient features and functions. Proper operation may enable you to fully utilize the features and keep it in good condition. Otherwise, it will not only shorten the service life of the unit, but also may cause malfunction, a fire, or other accidents.

If the projector cannot work properly, please read this manual again, check the operating methods and cable connection, and try the solutions in the parts of Troubleshooting. If the problem still exists, contact the dealer or the service center.

The lamp of the projector is a wearing part. The luminaire may decrease after a period of operation and be weaker than that of a new lamp. This is the natural aging process. Do not replace the lamp more often than necessary; otherwise, a residual image may appear on the LCD panel due to its characteristic.

Do not project the same image for a long time; otherwise, a residual image may appear on the LCD panel. It may be necessary to use a cabinet.

Do not set the projector in greasy, wet, or smoky areas. It may cause an accident.

Do not set the projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or an adult and serious damage to the projector.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or an adult and serious damage to the projector.

Do not place this projector in an unventilated cabinet or a cabinet with the door closed. The exhaust heat may not radiate, greatly shorten the service life of the projector and lamp, or even damage residual heat may not radiate, greatly shorten the service life of the projector and lamp, or even damage the projector.

Do not place the projector in contact with oil or chemicals; otherwise, it may cause deterioration.

Do not project the same image for a long time; otherwise, a residual image may appear on the LCD panel due to its characteristic.

Do not expose the projector to raindrops or high humidity to avoid a fire or electric shock.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltages.

This projector is designed and manufactured with high quality materials and components which can be recycled and/or reused in other high quality products in different parts of the world.

Do not install the projector near the ventilation duct of any air-conditioning equipment.

The symbol mark means that electrical and electronic materials and components which can be recycled and/or reused should be disposed of separately from the household waste.

The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end of life, should be disposed of separately from the household waste. 

This is a device to project images onto a screen, etc., and is used in the European Union that have separate collection systems for used electrical and electronic equipment, batteries and accumulators.

This symbol indicates that there are important operating and maintenance instructions in the User's Manual with this unit.

This symbol indicates that DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

The symbol mark indicates that there are IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE USER'S MANUAL WITH THIS UNIT.

This is a mercury containing product. Please, dispose of or recycle in accordance with applicable laws.

Safety Guide

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners.

Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

Do not expose the projector to rain or water near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or an adult and serious damage to the projector.

Unplug this projector from wall outlet and refer servicing to qualified service personnel when:

- The power cord or plug is damaged or frayed.
- If liquid has been spilled into the projector.
- If the projector has been exposed to rain or water.
- If the projector does not turn on or has cracks or breaks.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

Information for users in the European Union

This is a device to project images onto a screen, etc., and is not intended for use as indoor lighting in a domestic environment. Directive 2006/125/EC.

NOTE FOR CUSTOMERS IN THE US

LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL STATE OR FEDERAL LAWS.
Safety Guide

Air circulation

Vents in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

Caution

Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.

- Do not put any flammable objects, or spray can near the projector. Hot air is exhausted from the air vents.
- Keep the exhaust vent at least 1m away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.
- Do not put anything on the projector. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.
- Cooling fans are provided to cool down the projector.
- The fan’s running speed is changed according to the temperature inside the projector.

Installing the projector properly

Please set the projector on nearly-level. Be sure to install the projector properly. Improper installation may reduce the lamp lifetime and even cause a fire hazard.

- Do not roll the projector over 10° from side to side.
- Do not pitch the projector more than 10° backward and forward.
- Do not point the projector up to project an image.
- Do not point the projector down to project an image.
- Do not put the projector on either side to project an image.

Caution in ceiling installation the projector

- Only qualified personal is authorized for ceiling installation.
- We are not responsible for the hurt and damage caused by ceiling bracket that purchased from unauthorized dealer even in warranty period.
- Remove the ceiling bracket immediately while not use.
- While installing, torque screwdriver is suggested, don’t use electric or impact-type screwdriver.
- Please read the manual of bracket for details.

Moving the projector

When moving the projector, take care of the lens and retract the adjustable feet to prevent damage to the lens and cabinet.

Notes on Lens Protective Ring

Before operating the projector, remove the lens protective ring. In case of transportation, rotate the FOCUS ring and LENS SHIFT lever to let the lens back to its central position and put on the lens protective ring to protect the lens.

Notes on Projector Handling

When lifting or moving the projector, do not hold the lens and the peripheral part to prevent damage on the lens or projector.

Be careful in handling the projector. Do not drop or bump it to avoid strong force, or place other objects on the cabinet.

Note:

The lens of the projector is electric. When operating the projector, pay attention to the following conditions.

- When the lens is rotating, do not touch it, otherwise the fingers may get hurt.
- Do not allow a child to touch the lens.
Compliance

FCC Caution

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules. Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Model Number: EK-300 series
Trade Name: EIKI
Responsible party: EIKI International, Inc.
Address: 30251 Esperanza Rancho Santa Margarita CA 92688-2132
Telephone No.: 800-242-3454 (949-457-0200)

AC Power Cord Requirement

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact the electrician.

AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact the electrician.

AC Power Cord for the United Kingdom:

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus ∆. If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in the User Instructions.

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol △ or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING: THIS APPLIANCE MUST BE EARTHED.

THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

Accessories

<table>
<thead>
<tr>
<th>AC Power Cord</th>
<th>VGA cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Power Cord</td>
<td>&quot;For EK-307U&quot;</td>
</tr>
</tbody>
</table>

- Remote control with batteries (AAA or LR3) "For EK-306U"
- HDMI cable "For EK-307U"
- Safety Guide
- Quick start guide
Part names and functions

Front
1. Lamp cover
2. Lens shift ring
3. Top control panel and indicator
4. Filter
5. Projector lens
6. Remote control receiver (front)

Back
7. AC cord connector
8. Speaker
9. Terminals
10. Remote control receiver (back)
11. Kensington Security Slot

Note:
- Kensington Security Slot is for a Kensington lock used to deter theft of the projector.
- Kensington is a registered trademark of ACCO Brands Corporation.

Bottom
12. Adjustable foot
13. Exhaust vent

Caution
Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.

Terinals
1. AUDIO OUT
   Connect external audio amplifier to this jack.
2. MONO(R/L)
   For a mono audio signal (a single audio jack), connect it to MONO(R/L) jack.
3. VIDEO IN
   This is the terminal to input video signals.
4. VGA IN 2/VGA OUT
   - Connect a computer output to this terminal.
   - Output the analog signal form 2 to other monitor.
5. HDMI / MHL
   This is the terminal to input the HDMI or MHL signals.
6. AUDIO IN
   This is the terminal to input computer audio signals.
7. USB-A
   When using the "Memory Viewer" function, insert the USB memory directly to this terminal.(Refer to Page 52)
8. LAN
   - This is the LAN terminal to connect to the network.
   - Connect the projector to the computer via RJ45 cable when you use the "Network" Display function.
9. VGA IN 1/YPbPr/S-VIDEO IN
   This is the terminal to input RGB, YPbPr or S-video signals.
10. RS-232C
    When using RS232 to control the projector, please connect the serial control line to this terminal.
11. HDMI
    This is the terminal to input HDMI signals.
12. Remote Control receiver(BACK)
    Operation the projector by remote control.
13. Kensington Security Slot
    This slot is for a Kensington lock used to deter theft of the projector.
    * Kensington is a registered trademark of ACCO Brands Corporation
Part names and functions

Top control and Indicators

① MENU
- Open or close the screen menu.

② ▲▼◄►/UP/DOWN/VOL+/VOL-
- Select an item or adjust the value in the screen menu.
- Select the image display area in digital zoom + mode.
- Increase or decrease volume.

③ POWER
- Turn on/off the projector.

④ WARNING indicator (Refer to Page 77)
- It flashes red when the internal projector temperature is beyond the operating temperature range.
- It lights red when the power supply of the projector is abnormal.

⑤ POWER indicator (Refer to Page 77)
- It lights red when the projector is in standby mode.
- It lights green during normal operations.
- It flashes green in the Power management mode.
- It flashes red during fans cooling.

⑥ AUTO
- Perform various settings configured automatically, including "Input search", "Auto PC adj." and "Auto keystone".

⑦ OK
- Enter menu operation.
- Execute the selected item.

⑧ INPUT
- Select an input source.

Remote control

① POWER
- Turn on or turn off the projector.

② INPUT
- Open or close the input source menu.

③ VGA
- Select "Computer 1" as input source.

④ VIDEO
- Select "Video" as input source.

⑤ HDMI
- Select "HDMI" as input source.

⑥ AUTO
- Enter auto setup adjust mode.

⑦ MENU
- Open or close the screen menu.
Install remote control batteries

1. Open the battery cover.
2. Install new batteries.
3. Put the cover back.

To ensure safe operation, please observe the following precautions:
- Use two (2) AAA or LR3 type alkaline batteries.
- Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid matter.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new batteries.
- Risk of explosion if two batteries are replaced by an incorrect type.
- Dispose of used batteries according to the instructions on the battery or local regulations or guides.

Operating range

Point the remote control toward the remote control receivers on the projector (front and back) when pressing any button.

The maximum operating range for the remote control is about 5 meters and 60 degrees.

Adjustable feet

The projector can be adjusted up to 10° with the adjustable feet.

Rotate the adjustable feet to lift the projector to a certain height. During lifting, rotate the foot clockwise.

To lower or retract the adjustable feet, rotate the foot counterclockwise.

Keystone distortion of projected images can be corrected by auto settings, remote control operation or menu operation.

Positioning the projector

Note:
- The brightness in a room has a great influence on picture quality. It is recommended to limit the ambient lighting in order to get the best image.
- All measurements are approximate and may vary from the actual sizes.

Installation
Installation

Connecting to computer (Digital and analog RGB)

Cables used for connection:
- VGA cable
- HDMI cable
- Serial cable*
(*=Serial cables is not supplied with the projector)

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

Connecting to video equipment (Video, S-Video)

Cables used for connection:
- S-video cable**
- Component conversion cable*
- Video cable*
(*=Cables are not supplied with the projector)
(**=Dedicated cable is required and can be ordered through the dealer)

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.
Installation

Connecting to audio equipment

Cables used for connection:
- Audio cable*

(*=Cables are not supplied with the projector)

Note: The left and right channels are combined when there is only the L(mono) is inserted.

External audio equipment

Connecting to USB device (USB-A, USB-B)

Cables used for connection:
- USB-B cable*

(*=Cables are not supplied with the projector)

Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.
Installation

Connecting the AC power cord

This projector uses nominal input voltages of 100–240V AC and it automatically applies to different input voltages. It is designed to work with a single-phase power system having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. If you are not sure of the type of power being supplied, consult the authorized dealer or service station. Connect the projector with all peripheral equipment before turning it on.

Note:
The AC outlet should be near this equipment and must be easily accessible.

✓ Note:
For safety, unplug the AC power cord when the projector is not in use. When the projector is connected to an outlet with AC power cord, it is in stand-by mode and consumes a little electric power.

Note on the power cord

AC power cord must meet the requirements of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If the supplied AC power cord does not match the AC outlet, contact the sales dealer.

<table>
<thead>
<tr>
<th>Projector side</th>
<th>AC outlet side</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the U.S.A. and Canada</td>
<td>For Continental Europe</td>
</tr>
<tr>
<td><img src="image" alt="To power cord connector on the projector." /></td>
<td><img src="image" alt="Ground" /></td>
</tr>
<tr>
<td><img src="image" alt="To AC outlet." /></td>
<td><img src="image" alt="To AC outlet." /></td>
</tr>
</tbody>
</table>

✓ Note:
- Using incorrect power cord may influence the product performance, or even cause hazards like an electric shock or fire. To ensure the product performance and security, please apply the cable of the same model with the original one.

Basic operation

Turn on the projector

1. Complete peripheral connections (with a computer, video, etc.) before turning on the projector.
2. Connect the projector’s AC power cord into the AC outlet. The POWER indicator turns red.
3. Press the POWER button on the top control or on the remote control. The POWER indicator becomes green and the cooling fans start to work. The preparation display appears on the screen.
4. If the projector is locked with a PIN code, a PIN code input dialog box appears. Enter the PIN code as instructed below.

✓ Note:
- When the logo select is set to be "Off", the logo will not be displayed on the screen. (See page 47)

Enter a PIN code

Press the OK button, press ◄► button to select a number and press the OK button to enter it to the PIN code box, then number changes to "*", automatically move the cursor to next box. If you fixed an incorrect number, press MENU button to reset it again. Repeat the steps to complete entering a three-digit number. After entering the three-digit number, automatically move the cursor to "Set", press the OK button then you can start to operate the projector. If you entered an incorrect "PIN code", the number ("**") turn red. PIN code will be reset within one second automatically. Enter the correct PIN code all over again.

What is PIN code?

PIN (Personal Identification Number) code is a security code that allows the person who knows it to operate the projector. Setting the PIN code can prevent unauthorized use of the projector. A PIN code consists of a three-digit number. Refer to the PIN code lock function in the "Expand" "Security" menu on page 48 for PIN code lock operation of the projector.

![Move the cursor to "Set", and press "OK".](image)

Caution on handling the PIN code

If you forget the PIN code, the projector can no longer be started. Take a special care in setting a new PIN code. Write down the number in a column on page 82 of this manual and keep it properly. Should the PIN code be missing or forgotten, consult the dealer or service center.
Basic operation

**Turn off the projector**

1. Press the POWER button on the top control or on the remote control, and "Power off?" appears on the screen.

2. Then, press the POWER button again in 4 seconds. The POWER indicator starts to flash red, and the cooling fans keep running (You can select the fan noise and running speed). Now you can unplug the AC power cord after the fans stop running. Otherwise, the service life of the projector will be affected or the projector will can not be turned on or turn on abnormal.

3. When the projector has cooled down enough to be turned on again, the POWER indicator stops flashing.

   To maintain the lamp life, once you turn the projector on, wait at least 5 minutes before turning it off.

   Do not operate the projector continuously without reset. Continuous use may result in shortening the lamp life. Turn off the projector and let it standby for about an hour in every 24 hours.

   **Note:**
   - When the On start function is "On", this projector is turned on automatically by connecting the AC power cord to an AC outlet.
   - The running speed of cooling fans is changed according to the temperature inside the projector.
   - Do not put the projector in a case before it is cooled enough.
   - If the POWER indicator flashes or emits a red light, see page 77.
   - While the POWER indicator is flashing, the lamp is being cooled down and the projector cannot be turned on. Wait until the POWER indicator turns red to turn on the projector again.
   - The fan rotation will terminate directly if the AC power cord is unplugged immediately after the projector is turned off.
   - The projector can be turned on after the POWER indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, comparing with the time the AC power cord is immediately unplugged after the power-off.

---

**Basic operation**

**How to operate the screen menu**

The projector can be adjusted or set via the on-screen menu. Each main menu can be divided into several levels of submenus, and submenus are also divided into several levels of submenus. For each adjustment and setting procedure, refer to the respective sections in this manual.

1. Press the MENU button on the remote control or top control to display the screen menu.

2. Press ▲▼ buttons to select an entry in the main menu and then press the OK button to enter the submenu.

3. Press ▲▼ buttons to select an item, and then press the OK button to set or enter the submenu.

4. Press ▲▼ buttons to adjust settings or switch among the items. Press the OK button for corresponding operation.

5. Press ▼ button on the remote control or top control to go back to the previous menu. Press MENU button again to exit the screen menu.
Menu bar

Basic operation

Main menu Sub menu

Display
- Aspect: Normal and Wide.
- Project way: select a project way among Front, Rear, Ceiling/Front, Ceiling/Rear, Auto ceiling/Front and Auto ceiling/Rear.
- Menu position: set the menu's position on the screen.
- Background display: set the background display color.
- System: select a system signal format to match the input source.

Color adjust
- Image mode: Standard, Dynamic, User Image, Colorboard, Blackboard(Green) or Cinema.
- Image color adjust:
  - Contrast, Brightness, Color temp., White balance (R/G/B) and Sharpness.

Setting
Configure basic operation settings of the projector: On start, Standby mode, High land, Lamp control, Cooling fast, Closed caption, Key lock, Iris, Terminal, Sound and HDMI setup.

Expand

Memory viewer
Configure operation settings for Memory Viewer function: Set Slide, Slide transition effect, Sort order, Rotate, Best fit, Repeat and Apply.

Info.
The system information of the projector.

Adjust zoom and focus
Rotate the ZOOM ring to zoom in or zoom out the image.

Lens shift adjustment
Perform the lens shift adjustment with ① and ②.

Auto setup function
This function is available just by pressing the AUTO button on the remote control or top control. The system then automatically performs various settings in the "Expand" menu, including "Input search", "Auto PC adj." and "Auto keystone".

Top control

Remote control
Basic operation

Keystone

If a projected image has keystone distortion, follow the steps below to manually correct the keystone distortion.

Press KEYSTONE button on the remote control. The Keystone screen will display, (it includes: H/V Keystone, Corner correction, Curved correction and Reset value), press ▲▼ to select the item.

H/V Keystone
Adjusts when the horizontal or vertical trapezoid of the projected image is distorted.

Corner correction
Adjusts when the four corners of the projected image are distorted.

Curved correction (EK-307W only)
Adjusts when the linearity is not uniform or the vertical and horizontal lines are distorted.

Reset value
Return the corrected values to the factory default values.

H/V Keystone

- The arrows are white when there is no correction.
- The arrows that are used for correction turns red.
- Press ▲▼button long time, the arrows turn red and can be adjusted quickly
- The arrows disappear at the maximum correction.
- If you press the KEYSTONE button on the remote control once again while the keystone dialog box is being displayed, the keystone adjustment is canceled.
- The adjustable range can be limited depending on the input signal.

Remote control

Menu operation

1 Press the MENU button to display the screen menu. Press ▲▼button to select the "Setting" menu icon. Press the OK button to enter the submenu entry.

2 Press ▲▼button to select "Sound" and then press the OK button.

3 Press ▲▼button to select "Volume" or "Mute" to adjust.

Volume
Press ▲ to increase the volume and ▼ to decrease the volume.

Mute
Press ▲▼button to switch the mute function (On/Off).

4 Press the OK button to select.

Volume

Direct operation

Volume
Press the VOLUME +/- buttons on the remote control or top control to adjust the volume.

Mute
Press the MUTE button on the remote control and select "On" to turn off the audio temporarily. To restore the audio to its previous level, press the MUTE button again and select "Off" or press the VOLUME+/- buttons.

Mute function is also effective for AUDIO OUT jack.

Basic operation

Remote control

Menu menu

Setting Sound

Volume

Nute

Off
Remote control operation

Using the remote control for some frequently used operations is advisable. Just pressing one of the buttons enables you to quickly without calling up the screen menu.

FREEZE button
Press FREEZE button on the remote control, video will be paused and the audio is muted. The icon is displayed on the screen during Freeze. Press FREEZE button again, the video playback resumes and the audio is unmuted.

MUTE button
Press MUTE button on the remote control to turn off the volume. Press MUTE button again or VOLUME +/- button to cancel mute function.

VOLUME +/- button
Press VOLUME +/- button on the remote control to increase or decrease the volume.

IMAGE button
Press IMAGE button on the remote control to select the image mode you want.
(Dynamic / Standard / Cinema / Blackboard (Green) / Colorboard / User Image)

LAMP button
Press LAMP button to select a lamp mode to change the brightness of the screen.

Normal ...Normal brightness.

ECO ...... Lower brightness, reducing the lamp power consumption and extending the lamp life.

INFO button
Press INFO button on the remote control to display the projector information.

Note:
See the next page for the description of other buttons.
**Basic operation**

**Direct Operation**
Press VGA, HDMI or Video on the remote control as input source.

**Menu operation**
1. Press INPUT button on the top control to display the input select menu.
2. Press ▲▼ button to select VGA 1, VGA 2, HDMI, Component, Video, S-video, Network, Memory Viewer or USB Display, then press the OK button.

**Note:**
- When the "Input search" function is set to "On" in the "Auto setup" function, press AUTO button, the input signal will be searched automatically.
- When signal is in "USB Display", "Memory Viewer" and "Network", FREEZE, ASPECT, IMAGE, AUTO SETUP and SCREEN function cannot work.
- Memory Viewer function, please refer to page 62-63.
- USB Display function, please refer to page 64-65.
Display

**Auto PC adj.**

Auto PC Adjustment function is provided to automatically adjust Fine sync, Horizontal, Vertical and H.Size to conform to the computer.

**Menu operation**

Auto PC adj.

1. Press MENU button on the remote control or top control to display screen menu.
   - Press ▲▼ button to select "Display", then press the OK button.
2. Press ▲▼ button to select "Auto PC adj.", then press the OK button. "Please wait" will be displayed on the screen, the Auto PC adj. function will be executed.

**Fine sync**

You can cut off flicker from the image displayed by pressing ▲▼ to adjust the value.(from 0 to 31).

**H Position**

Press ▲▼ to adjust the horizontal image position.

**V Position**

Press ▲▼ to adjust the vertical image position.

**H. Size**

This function is used to adjust and minimize the effect of interference caused by projection of patterns consisting of vertical stripes.

The projection of the vertical striped pattern may cause cyclic patterns (noise). Adjust to minimize the amount of interference.(From -15 to +15).

H.Size must be set before adjust Fine sync.

Note:

- The adjustment of Fine sync, H Position, V Position and H.Size is only for computer signal input.

**Note:**

- The projector executes the Auto PC adj. automatically when the computer signals input the projector for the first time.
- Automatic adjustment may not work depending on the model of the computer and the input signal.
- The Auto PC adj. cannot be operated when 480i, 576i, 480p, 576p, 720p, 1080i or 1080p is selected in the "Display" menu → "System", or when the signal is coming from the HDMI terminal.

**Aspect**

You can set a screen size to fit the image while maintaining the aspect ratio of the input signal.

1. Press ▲▼ to select "Aspect" and then press the OK button.
2. Press ▲▼ button to select the item, then press the OK button.

- **Normal**
  - Projects the image at the maximum size while maintaining the aspect ratio of the input signal.

- **Wide**
  - Projects the image at 16:9 aspect ratio.

- **Full**
  - To provide an image to fit the screen.

- **Advanced** (EK-307W VGA 1 only)
  - Adjust the proportion and position of the screen manually.

**Project Way**

This function is used to set the project way.

1. Press MENU button on the remote control to display screen menu. Press ▲▼ button to select "Display", then press the OK button.
2. Press ▲▼ button to select "Project way", press the OK button.
3. Press ▲▼ button to select the item you want to set, press the OK button.

- **Front**
  - Projects to front screen when projector is front standing.

- **Rear**
  - Projects to rear screen when projector is front standing.

- **Ceiling/Front**
  - Projects to front screen when projector is in ceiling state.

- **Ceiling/Rear**
  - Projects to rear screen when projector is in ceiling state.

- **Auto ceiling/Front**
  - Projects to front screen and modify as front standing or ceiling automatically.

- **Auto ceiling/Rear**
  - Projects to rear screen and modify as front standing or ceiling automatically.
**Display**

**Menu Position**
This function is used to change the position of screen menu.
1. Press MENU button on the remote control to display screen menu. Press ▲▼ button to select "Display", then press the OK button.
2. Press ▲▼ button to select "Menu position", press the OK button.
3. Press ▲▼ button to select the item you want to set, press the OK button.

- **Upper left**
  Menu locates on upper left of the screen.
- **Upper right**
  Menu locates on upper right of the screen.
- **Center**
  Menu locates at the center of the screen.
- **Lower left**
  Menu locates on lower left of the screen.
- **Lower right**
  Menu locates on lower right of the screen.

**Background Display**
This function is used to select the screen background of the projector when there is no signal detected.
1. Press MENU button on the remote control or top control to display screen menu. Press ▲▼ button to select "Display", then press the OK button.
2. Press ▲▼ button to select "Background display", press the OK button.
3. Press ▲▼ button to select the item you want to set, press the OK button.

- **Black** .... Select black background.
- **Blue** ...... Select blue background.

---

**System**

**Computer system select**
The projector automatically tunes to various types of computers with its function of Multi-scan system and Auto PC Adjustment. If a computer is selected as a signal source, the projector automatically detects the signal format and tunes to project proper images without any additional setting.

One of the following messages may appear:

- **Auto**
  When the projector cannot recognize the connected signal conforming to the provided computer system, Auto is displayed on the System menu box and the Auto PC Adj. function works to display proper images. If the image is not projected properly, a manual adjustment is required.

- **-----**
  There is no signal input from computer. Check the connection between the computer and projector.

**Select computer system manually**
The system can also be selected manually.
1. Press MENU button on the remote control or on top control to display the screen menu. Press ▲▼ button to select the "Display" icon, and press the OK button.
2. Press ▲▼ button to select "System" and press the OK button.
3. Press ▲▼ button to select the required system and then press the OK button.

- **Video or S-video**
  The projector automatically detects an incoming video system and adjusts itself to optimize its performance. When Video System is PAL-M, PAL-N or PAL60, select the system manually.
  **PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N/PAL60**
  If the projector cannot reproduce proper video images, select a specific broadcast signal format from PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N and PAL60.
Color adjust menu is used to set the image mode and adjust the image.

1 Press MENU button on the remote control or top control to display screen menu. Press ▲▼ button to select "Color adjust", then press the OK button.
2 Press ▲▼ button to select the item you want to set, then press the OK button.
3 Press ▲▼ button to adjust the item, then press the OK button.

**Image Mode**

Press IMAGE button on the remote control to select the image mode.

**Menu operation**

1 Press MENU button on the remote control or top control to display screen menu. Press ▲▼ button to select "Color adjust" menu, then press the OK button.
2 Press ▲▼ button to select "Image mode", then press the OK button.
3 Press ▲▼ button to select the item you want to set, press the OK button.

**Dynamic**
The light output is maximized for use in bright areas.

**Standard**
The picture becomes suitable for moving images in general.

**Cinema**
For watching movies with multiple gray scale levels.

**Blackboard (Green)**
For viewing the image projected on a blackboard (green) by enhancing the image quality. This is mainly effective on a green colored board instead of a black colored board.

**Colorboard**
For images projected onto a red, blue, yellow, or green wallpaper.

**User Image**
Image quality preset by the user in the Image adjustment menu.
Color adjust

Color adjust (Video, S-video, Component)

1. Press MENU button on the remote control or top control to display screen menu. Press ▲▼ button to select "Color adjust", then press the OK button.
2. Press ▲▼ button to select the item you want to set, press the OK button.
3. Press ▲▼ button to adjust the data.

Contrast
Press ▼ to decrease the contrast and ▲ to increase it.

Brightness
Press ▼ to decrease the brightness and ▲ to increase it.

Color
Press ▼ to decrease the chroma and ▲ to increase it.

Tint
Press ▲▼ to select the appropriate tone for the image.

Red (White balance)
Press ▼ to lighten the red tone and ▲ to deepen it.

Green (White balance)
Press ▼ to lighten the green tone and ▲ to deepen it.

Blue (White balance)
Press ▼ to lighten the blue tone and ▲ to deepen it.

Sharpness
Press ▼ to decrease the sharpness of an image and ▲ to increase it.

√ Note:
- Signal input "Video", "S-video" or "Component", "Tint" is in grey, it is disable.
- If you only adjust projector to "Video", "S-video" or "Component", "Sharpness" is disable.

Setting

The projector has "Setting" menu that allows you to set the other various functions described as follows.

1. Press MENU button on the remote control or top control to display screen menu. Press ▲▼ button to select "Setting", then press the OK button.
2. Press ▲▼ button to select the item you want to set, press the OK button.
3. Press ▲▼ button to adjust the item, then press the OK button.

On start
Enable the projector to be turned on automatically just by connecting the AC power cord to an outlet when this function is set to On.

On
Start the projection immediately, enter countdown display.

Off
Start up in the standby mode.

Standby mode
This function is available when operating the projector via network.

Press ▲▼ button to select the item below:

Eco
Restrict some functions in the standby mode to reduce power consumption. In this case, you cannot use network functions and some RS-232C commands.

Normal
Do not restrict network function and serial communication function even in the standby mode.
**Setting**

**High land**
Enable to control the fan through the Setting menu. You can select the running speed of the fan according to the altitude of the location where the projector is installed.

**Off**
Normal speed. Set it so if the projector is operated at a lower altitude.

**On**
Faster than Off. Set it so if the projector is operated at a higher altitude as fans will produce weaker effects.

✓ **Note:** Please set High land “On” when operating the projector higher than 1400 meters.

**Lamp control**
Change the brightness of the screen.

**Normal**
Normal brightness.

**Eco**
Lower brightness, reducing power consumption and extending the lamp life.

**Cooling fast**
This function provides the following options in the cooling fans’ operation after turning off the projector.

**Normal**
Normal cooling speed.

**60 sec**
Faster and louder than Normal, cooling time is shorter.

**0 sec**
Enable you directly unplug the AC power cord after turning off the projector, no need waiting for cooling.

✓ **Note:** When it is set to “0 sec”, you cannot restart the projector immediately after the power-off. The lamp remains high temperature and needs to be cooled, so it takes longer time than usual for the lamp to light up again.

**Closed Caption**
Allows the subtitle to be displayed for the audio contents or other information. If the input source contains closed caption, you can enable this function and change the channel. Press ▲▼ to select Off, CC1, CC2, CC3 or CC4.

✓ **Note:**
- The icon of Closed Caption is displayed in grey when it is disable.
- Closed caption is disable when screen menu or Timer displayed on screen.

**Key lock**
This function allows you to use the Key lock to set the security for the projector operation. Select “Key lock” and press the OK button, then press ▼ button to select the item you want.

**Off**
Unlock.

**Projector**
Lock the operation of the top control. To unlock, use the remote control.

**Remote Control**
Lock the operation of the remote control. To unlock, use the top control.

If the top control accidentally becomes locked and you do not have the remote control nearby or there is something wrong with the remote control, contact the dealer where you purchased the projector or the service center.
Iris
This function is used to increase the contrast of the image.
On .... Enable Iris function, increase the contrast of the image.
Off .... Disable Iris function.

Terminal
The VGA IN 2/VGA OUT terminal can be used as computer input or monitor output. Press ▲▼ to select input or output.
VGA 2 ......VGA 2 input.
Monitor out ...... Monitor out.

Sound
This item is used to adjust the volume.
Sound
Press ▲ button to increase the volume, press ▼ button to decrease the volume. (0~25)
Mute
Press ▲▼ button to switch mute function. (On/Off)

Iris

Terminal

Sound

HDMI setup
When the external equipment is connected to "HDMI" terminal, if the image is not projected properly, please switch the settings of "Image" or "Sound" in "HDMI setup" menu.

1 Press the MENU button to display the screen menu. Press ▲▼ button to select the "Setting" menu icon. Press the OK to enter the submenu entry.
2 Press ▲▼ button to select "HDMI setup" and then press the OK button.
3 Press ▲▼ button to select "Image" or "Sound" to adjust.
4 Press ▲▼ button to switch the item.

Image
64-940 ...... Select when the HDMI terminal of an external device (such as a Blu-ray player) is connected to the "HDMI" terminal.
0-1023 ...... Select when the DVI-D terminal output of an external device (such as a computer) is connected to the "HDMI" terminal via a conversion cable or similar cable. Select also when the HDMI terminal output of a computer or other device is connected to the "HDMI" terminal.

Note:
The optimal setting varies depending on the output setting of the connected external device. Refer to the operation instruction of the external device regarding the output of the external device.

Sound
HDMI ........ Select when the HDMI cable is connected, the image and audio are transmitted, and you do not need to connect the audio signal separately.
Computer .... Select when the DVI-D terminal output of an external device (such as a computer) is connected to the "HDMI" terminal via a conversion cable or similar cable. The sound will not be transmitted, the audio signal is input to "AUDIO IN" terminal.
The projector has Expand menu that allows you to set the other various expand functions described as follows.

1. Press MENU button on the remote control to display screen menu. Press ▲▼ button to select “Expand”, then press the OK button.
2. Press ▲▼ button to select the item you want to set, press the OK button.
3. Press ▲▼ button to adjust the item, then press the OK button.

**Language**

This projector provides multi-language menu. You can press ▲▼ button to select the language you want: English, German, French, Italian, Spanish, Polish, Swedish, Dutch, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Arabic, Turkey, Finnish, Norwegian, Danish, Indonesian, Hungarian, Czech Republic, Kazakhstan, Vietnamese, Thai, Farsi.

**Auto setup**

Press AUTO button on the remote control to execute "Input search", "Auto PC adj.,” and “Auto keystone” functions.

**Input search**

Allows you to automatically detect input signals. It stops when a signal is found. Press ▲▼ button to select an option below:

- **On** ....... Enabled. This function is used to detect input signals automatically and stops when finding a signal.
- **Off** ......... Disabled.

**Auto PC adj.**

- **On** ....... Press the AUTO button on the remote control or top control to enable Auto PC adj. function automatically.
- **Off** ......... Cancel Auto PC adj. function.

**Auto keystone**

- **Auto** ...... When detecting the projector is tilted, correct the vertical keystone in real time.
- **Manual** ...... When pressing AUTO button on the remote control or top control, perform a vertical keystone.
- **Off** ......... Disabled.

**Keystone**

This function is used to store or reset the keystone correction when the AC power cord is unplugged.

1. Press MENU button on the remote control to display screen menu. Press ▲▼ button to select “Expand”, then press the OK button.
2. Press ▲▼ button to select “Keystone”, press the OK button.
3. Press ▲▼ button to select the item you want to set, press the OK button.

**Keystone menu**

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<td>Corner correction</td>
</tr>
<tr>
<td>Curved correction</td>
<td>Reset value</td>
<td></td>
</tr>
</tbody>
</table>

**Keystone**

Sets whether or not to keep the keystone correction after turn off the projector or plug out the power cord.

- **Store** ...... The keystone correction will be kept when plug out the power cord or turn off the projector.
- **Reset** ...... When “Standby mode” is set to "Eco", plug out the power cord or turn off the projector, the keystone correction will be canceled. When “Standby mode” is set to "Normal", plug out the power cord, the keystone correction will be canceled; turn off the projector, the keystone correction will be kept.

**HV Keystone**

Adjust when the horizontal or vertical trapezoid of the projected image is distorted.

- Reduce the upper width with ▲ button.
- Reduce the lower width with ▼ button.
- Reduce the left width with ◄ button.
- Reduce the right width with ► button.

**Corner correction**

Adjust when the four corners of the projected image are distorted. Press ▲▼ ◄► to adjust the item.

- **Upper left**
- **Upper right**
- **Lower left**
- **Lower right**

**Note:**

- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
Curved correction (For WXGA model only)
Adjust when the linearity is not uniform or the vertical and horizontal lines are distorted.
Press ▲ ◄ ▼ ► to adjust the item.

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<td>Press the ► button</td>
<td>Adjust the right of the distortion</td>
<td>0 ~ +1365</td>
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<td></td>
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<td>Press the ▲ button</td>
<td>Adjust the top of the distortion</td>
<td>0 ~ +799</td>
</tr>
<tr>
<td></td>
<td>Press the ▼ button</td>
<td>Adjust the bottom of the distortion</td>
<td></td>
</tr>
</tbody>
</table>

✓ Note:
- Either “H/V Keystone”, “Corner correction” or “Curved correction” setting value is valid. When the “H/V Keystone”, “Corner correction” or “Curved correction” adjustment is finished, the adjusted value will be reset when you adjust the other one.
- The “Curved Correction X Offset” and the “Curved Correction Y Offset” can not be adjusted independently. After adjusting the “Curved Correction X/Y Gain” at the beginning, please adjust the “Curved Correction X Offset” and “Curved Correction Y Offset”.
- Press the KEYSTONE button on the remote control when the keystone screen is displaying (it includes: H/V Keystone, Corner correction, Curved correction and Reset value), press ▲ ◄ button switch to the other adjustment screen.
- Correcting up to ±30° for the tilt in the vertical direction and ±15° for the tilt in the horizontal direction are available for adjustments with “Keystone”. However, the image quality will degrade and it will get harder to focus with more correction. Install the projector so that the correction will be as small as possible.
- Screen size will also change when “H/V Keystone” is used to perform various adjustments.
- Aspect ratio of the image size may shift depending on the correction.

Reset value
Return the corrected values to the factory default values.
Press ▲ ◄ to select “Reset value”, then press the OK button, the state of the keystone correction is released.

Logo
This function allows you to customize the screen logo with Logo select, Capture, Logo PIN code lock and Logo PIN code change functions.

Logo Select
This function decides on the starting-up display from following options.
Default .... Show the factory-set logo.
User...........Show the image captured by user.
Off ............ Show the countdown display only.
* * User* is not available for EK-306U.

Capture
You can capture a projected image as start logo. Select “Capture” and press the OK button on remote control or control panel.
Confirmation dialog box appears, select “Yes” to start capturing.
* * Capture * is not available for EK-306U.

Logo PIN code Lock
This function prevents an unauthorized person from changing the screen logo.
Off ............The screen logo can be changed freely from the Logo menu.
On ............The screen logo cannot be changed without a Logo PIN code.
If you want to change the Logo PIN code lock setting, press the OK button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below.
Press OK button to enter the PIN code. Press ◄ ► button to select a number, and then press the OK button to enter this number, the cursor automatically move to next box. If you fixed an incorrect number, press MENU button to reset it again.
Repeat this step to complete entering a three-digit number.
After entering the three-digit number, the cursor automatically move to "Set", and press the OK button, then you can start to operate the projector.
If you entered an incorrect PIN code, the number (***) turn red, it will be reset automatically within one second. Enter the correct PIN code all over again.

Logo PIN code change
You can change the Logo PIN code (three number). Press the OK button to select Logo PIN code change. Logo PIN code dialog box appears. Press ◄ ► button to enter the correct PIN code.
The New Logo PIN code input dialog box appears. Set a new Logo PIN code, confirmation box appears, select Yes to set the new Logo PIN code.
Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting.

CAUTION:
WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 82, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.
Security
This function allows you to use the PIN code lock and PIN code change functions to set the security for the projector operation.

PIN code lock
This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.
Off ... Unlocked.
On ... Enter the PIN code every time turning on the projector. If you want to change PIN code lock setting or PIN code, you must enter the PIN code. The default PIN code is "111".

If you want to change the PIN code lock setting, press the OK button, then PIN code dialog box appears.
Press◄► button to select a number, and then press the OK button to enter this number, the cursor automatically moves to next box. If you fixed an incorrect number, press MENU button to reset it again.
Repeat this step to complete entering a three-digit number.
If you entered an incorrect PIN code, the number (*** turn red, it will be reset automatically within one second. Enter the correct PIN code all over again.

PIN code change
The PIN code can be changed to three-digit number. Press ▲▼ button to select PIN code change. Pin code dialog box appears, Press◄► button to enter the correct code. The New PIN code input dialog box appears. Set a new PIN code.

CAUTION: WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 82, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

Power management
For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the projector is not operated for a certain period. Select one of the following options:

Ready When the lamp has been fully cooled down, the POWER indicator changes to green blinking. In this condition, the projection lamp will be turned on if the input signal is reconnected or any button on the remote control or top control is pressed.

Shut down When the lamp has been fully cooled down, the power will be turned off.

Off Power management function is off.

Timer
If the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with No signal appears. It starts the countdown until the lamp is turned off. Press▲▼ button to set the Timer(1~30min.)

Ready countdown
Set the time that ready status transfers to standby status automatically.(0-30min. 0 Min: not transfer automatically)

In ready status, press POWER button to switch to standby status, and press any other button to turn on the projector.

Filter counter
This function is used to set a frequency for filter cleaning.

When the projector reached a specified time between cleanings, a Filter warning icon appears on the screen, notifying the cleaning is necessary. After cleaning the filter, be sure to select RESET and set the timer. The Filter warning icon will not turn off until the filter counter is reset.

Filter counter
Display the using time of the filter.

Timer
Set the time to display the warning icon.

Filter counter reset
Reset the filter counter.
Test Pattern

This function is used to set the internal test signal: Gray scale 1, Gray scale 2, Gray scale 3, Gray scale 4, Color bar, Red, Green, Blue, Cross hatch, White, Black and Raster gray.

Network

Function: PC controls projector via LAN.
Preparation:
1. Equipments: PC, projector, cables
2. Connection procedures:
   - Connect the projector to routers or switches of the LAN by direct or cross cable. If it fails to connect PC and projector by parallel cable, please switch to cross cable as suggested.
   - After the computer is booted and the projector is plugged in, indicator lights of LAN interface on will flash continuously.
Operation procedures:
1. Turn on the projector.
2. Obtain network address. DHCP set is displayed as On and obtain network address automatically. (If familiar with network, you can set DHCP as Off and obtain network address manually.)
3. Enter network settings menu.
   (1) Press MENU button on the remote control to display screen menu. Press ▲▼ button to select Expand, then press the OK button.
   (2) Press ▲▼ button to select Network, and then press the OK button to enter the network menu.
   MAC address ........ Displays the MAC address of wired network of this projector.
   IP address .........Displays the IP address of wired network of this projector.

Factory Default

This function returns all setting values except for the User logo, PIN code lock, Logo PIN code lock, Lamp counter and Filter counter to the factory default settings.

Lamp Counter Reset

This function resets the counter of Lamp usage hours. Please be sure to reset the lamp counter after replacing the lamp. WARNING indicator turns Off and the lamp replacement icon disappears after reset the lamp counter.
Press <MENU> button on the remote controller or on the top control panel to display the OSD menu. Press ▲▼ button to select the Expand menu, then press <OK> or ▼ button.
1) Press ▲▼ button to select [Lamp counter] menu.
2) Press <OK> button.
3) Press ▲▼ button to select [Lamp counter reset], then press <OK> button.
4) "Lamp replacement counter reset ?" confirmation box appear.
5) Select "Yes" and Press <OK> button.
Memory viewer

The Memory Viewer function makes it possible to project the pictures which are stored in the USB memory when the USB memory is inserted into the projector.

1 Press MEMORY VIEWER button on the remote control.
2 Press MENU button on the remote control to display screen menu. Press ▲▼ button to select “Memory Viewer”, then press the OK button.
3 Press ▲▼ button to select the item you want to set, then press the OK button.
4 Press ▲▼ button to adjust the item, then press the OK button.

Memory Viewer menu

Set Slide
Start the slide show.

Slide transition effect
Set the slide transition effect when the slide show image is switching.

■ Slide down ... Switch the image from the top to the bottom.
■ Slide right .... Switch the image from the left to the right.

Sort Order
Set the sort order of the slide show.

■ Extend Order ...... Sort files or folders in extended order.
■ Size Order ......... Sort files or folders in amount of data order.
■ Time Order .......... Sort files or folders in stored time order.
■ Name Order ....... Sort files or folders in name order.

Rotate
Set the rotate direction of image.

■ No Rotate .......... Rotate is disabled.
■ 270 Degrees ...... Rotate 270 degrees in anti-clockwise direction.
■ 180 Degrees ...... Rotate 180 degrees.
■ 90 Degrees ......... Rotate 90 degrees in anti-clockwise direction.

Best Fit
Set the image whether or not to fit with the projected screen.

■ On ...... Display the image to fit with the aspect of the projected screen.
■ Off ...... Display in the normal pixels of the image.

✓ Note:
- The “Memory Viewer” menu is available when select the input source as “Memory Viewer”.
- All the setting except “Set Slide” will effective after execute “Apply”.
- See page 62 for Memory viewer function.

Apply
Execute the setting in slide show.

Press ▲▼ to select “Apply”, then press the OK button, the setting of the items except the “Set Slide” will be effective.

Information

The information menu is used to detect signal of projected image and running state.

Menu operation
Press MENU button on the remote control or top control to display the screen menu. Press ▲▼ to select Info., the information menu will appear as the right picture.

The information below will display in information menu.

Input
The selected input source is displayed.

H-sync freq.
The horizontal frequency of the input signal is displayed in KHz or - - - - KHz when no signal is detected.

V-sync freq.
The vertical frequency of the input signal is displayed in Hz or - - - - Hz when no signal is detected.

Lamp status
The setting status of “Lamp control” is displayed.

Lamp counter
The usage time of the lamp is displayed.

Power management
The setting status of “Power management” is displayed.

Image mode
The setting status of “Image mode” is displayed.
LAN control

Function: PC controls projector via LAN.

Preparation:
1. Equipments: PC, projector, cables
2. Connection procedures:
   - Connect the projector to routers or switches of the LAN by direct or cross cable. If it fails to connect PC and projector by parallel cable, please switch to cross cable as suggested.
   - After the computer is booted and the projector is plugged in, indicator lights of LAN interface and computer interface will flash continuously.

Operation procedures:
1. Turn on the projector.
2. Obtain network address. DHCP set is displayed as on and obtain network address automatically. If familiar with network, you can set DHCP as close and obtain network address manually.
3. Enter network settings menu.
   1. Press MENU button on top control or remote control to display screen menu. Press ▲▼ button to select “Expand” icon, then press the OK button.
   2. Press ▲▼ button to select “Network” setting and press the OK button enter the network setting.
   3. Press ▲▼ button to set DHCP as on.
   4. Press ▲▼ button to “Set” and press the OK button. “Please wait...” appears.

4. Activate the Web browser in the personal computer.
5. Enter the IP address set by the projector into the URL input field of the Web browser.
6. Select “Login” to login the Network Display System page. (Both the initial name and passwords are “admin”.)


   ① System Status
   The “System Status” page is displayed by clicking this item.

   ② General Setup
   The “General Setup” page is displayed by clicking this item.

   ③ Picture Setup
   The “Picture Setup” page is displayed by clicking this item.

   ④ Image Setup
   The “Image Setup” page is displayed by clicking this item.

   ⑤ Network Setup
   The “Network Setup” page is displayed by clicking this item.

Note:
- You can click the upper right corner of the web browser screen to select the display language.
- Do not perform setting or control simultaneously by starting up multiple web browsers. Do not set or control the projector from multiple computers.
- Change the password first. (8 half-width characters).
- If the screen for the web control is not displayed, consult the network administrator.

- You can click the upper right corner of the web browser screen to select the display language.
- Do not perform setting or control simultaneously by starting up multiple web browsers. Do not set or control the projector from multiple computers.
Network Control Instructions

"System Status" page
Display the status of the projector for the following items.

- Model Name
  Displays the model No. of the projector.
- Versions
  Displays the version of the firmware of the projector.
- LAN Status
  Displays the connection status of the LAN.

"General Setup" page
Change Password for Webpage is displayed.

- Enter Old password
  Enters the configured password.
- Enter New password
  Enters the new password.
- Confirm New password
  Enters the wanted new password again for confirmation.
- Apply
  Updates the settings.
- Power
  Switches on/off the power of the projector.
- Source Select
  Switches the input source of the projector.

"Picture Setup" page
Adjusts the brightness of the projected image.
- Brightness
- Contrast
- Sharpness
- Color
- Tint
- Color Temperature

Adjusts the contrast of the projected image.
Adjusts the sharpness of the projected image.
Adjusts the color saturation of the projected image.
Adjusts the skin tone of the projected image.
Adjusts the color temperature of the projected image.
**Image Setup** page

1. **Aspect**
   - Switches the aspect of the projected image.

2. **Fine sync**
   - Adjusts the fine sync of the projected image.

3. **H Position**
   - Adjusts the horizontal position of the projected image.

4. **V Position**
   - Adjusts the vertical position of the projected image.

5. **H.Size**
   - Adjusts the total number of dots of the projected image.

6. **Freeze**
   - Switches the freeze function between on and off.

7. **Auto PC adj.**
   - Executes the Auto PC adj. function.

8. **V Keystone**
   - Corrects the keystone in vertical direction.

9. **H Keystone**
   - Corrects the keystone in horizontal direction.

10. **Curved Correction**
    - Corrects the pincushion or barrel of the projected image.

11. **Corner correction**
    - Corrects the four corners of the projected image.

**Network Control Instructions**

"Network Setup" page

8. **PwPresenter software:** when "Network" is selected in Source Select, you can project the current computer images via network.

Input the IP address of the projector in webpage to enter the Network Display System, click "Download" to download the PwPresenter software according to the operation system.

9. Click icon to access the PwPresenter software.
Network Control Instructions

① Search for projector display
Click to enter Search, select the projector and connect it. Please setting the same IP address of the projector in pwPresenter software, (such as: 192.168.1.100). Both the initial name and passwords are "admin".

✓ Note:
● Before use PwPresenter software to search, you need change Source Select to "Network".

② Play/Pause
Play or pause the selected image.

③ Choose capture mode
Choose a capture mode from "FullScreen", "FixedSize" or "Alterable."

④ Parameters Setting
Basic Setting: setting language, region of capture image etc..
Advanced Setting: setting image quality, network port etc..

⑤ Network Display Management
Setting device and password management.

⑥ Disconnect the projector.

Global Setting: setting remote control, capture by audio or screen etc.
Multicast Setting: setting Sound volume, Bandwidth and Capture rate etc.
Using useful functions

Memory Viewer function

The Memory Viewer function is used to project the pictures which are stored in the USB memory when the USB memory is inserted into USB A(VIEWER) terminal of the projector.

Memory Viewer function supports the following image files.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Extension</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>jpg/jpeg</td>
<td>Baseline encoder 24 bit</td>
<td>Max. resolution : 10000 x 10000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Progressive RGB 24 bit</td>
<td>Max. resolution : Panel Resolution</td>
</tr>
<tr>
<td></td>
<td>bmp</td>
<td>1, 4, 8 bit Palette-based RGB 24, 32 bit</td>
<td>Max. resolution : 1280 x 800</td>
</tr>
<tr>
<td></td>
<td>png</td>
<td>24, 48 bit True color</td>
<td>24 bit color palette space</td>
</tr>
<tr>
<td></td>
<td>gif</td>
<td>1, 4, 8 bit Palette-based</td>
<td>Max. resolution : 800 x 600</td>
</tr>
<tr>
<td></td>
<td>tiff</td>
<td>—</td>
<td>Max. resolution : 800 x 600</td>
</tr>
</tbody>
</table>

Display the Memory Viewer screen

1. Press the INPUT button on the remote control or on the top control to select the input source as Memory Viewer.
2. Insert the USB memory into the USB-A terminal of the projector directly, the standby screen of Please Press “OK” appears when the USB memory icon is displayed on the screen.
3. Press the OK button on the remote control, the root directory of the USB memory will appear in thumbnail on the screen.

Play the pictures

It will display a picture when play the picture manually every time.
1. Press ▲▼◄► to select a file.
2. Press the OK button, the picture will display on the full screen.
3. Press ► to switch to the next picture, press◄ to return to the previous picture.
4. Press the OK button on the remote control.

Executing the slide

All pictures in the same folder will play automatically when "Slide Transition Effect" of "Memory Viewer" menu is set to the special setting.
1. Press ▲▼◄► to select a file.
2. Press the "MENU" button to select the "Memory Viewer" → "Set Slide".
3. Press the OK button.
   • The picture will display on the full screen.
   • Press the OK button to return to the thumbnail screen.

Termination of the Memory Viewer

1. Press ▲▼◄► to the thumbnail which is displayed on the upper left corner.
2. Press the OK button on the remote control to return to the standby screen of Press "OK”.
3. Remove the USB memory directly.

Play the PDF

Playing the PDF file.
press ▲▼◄► to select a PDF file and press the OK button, playing the PDF on the full screen.

GO

5

GO

1

Displays the previous or next page.

The page number increases or decreases by 5 pages.

The page number increases or decreases by 1 page.

Jumps to page number directly.

Switches PDF file between full screen display or whole page display.

Switches the display size on 3 levels of magnification. Press ▲▼ on the remote control to move the display screen up and down.

Remove the display screen up, down, left and right by ▲▼◄► button on the remote control.

Exit the PDF file, and return to the thumbnail screen.

* This function is not available for EK-306U.
Using useful functions

USB Display function

The USB Display function is used to project the image from the computer which is connected to USB-B(DISPLAY) terminal of the projector by a USB converting cable.

When using Windows

Windows operation environment

<table>
<thead>
<tr>
<th>OS</th>
<th>Windows Vista 32 bit, Windows 7 32/64 bit, Windows 8 32/64 bit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel Core 2 Duo 2.0 GHz or faster, the compatible processor</td>
</tr>
<tr>
<td>Amount of memory</td>
<td>256 MB or more (Recommended : 512 MB or more)</td>
</tr>
<tr>
<td>Hard-disk free space</td>
<td>20 MB or more</td>
</tr>
<tr>
<td>Display</td>
<td>Resolution 640 x 480 or more, 1,600 x 1,200 or less</td>
</tr>
</tbody>
</table>

- There is no guarantee for all computers that meet the above conditions will operate properly.

Projecting the USB Display

1. Connect the USB-B terminal of the projector to a computer with a USB converting cable.
2. Press the USB DISPLAY button on the remote control or switch the input source to USB Display.

   - Press the INPUT button on the top control and select the input source in the Input menu.
   - The startup screen will be displayed automatically due to the driver which is built-in the projector, and executes the installation according to the instructions of the screen. The displaying of the auto installation screen depends on the setting of computer. At this time, please select "Run autorun.exe". Please double-click "autorun.exe" in the folder of the USB Display when the automatically startup is disabled.
   - The image on the computer screen is projected.
3. Click the driver icon in the task bar of computer and select one item in Pop-up menu.
   - Pop-up menu is only displayed in English.
   - The item which is displayed in gray is unavailable.

   - Active audio/Disable audio: Set whether to output the audio from the computer.
   - Play video/Pause video: Switch between play and pause the image.
   - Start/Stop: Set whether to display the image from the computer.
   - Exit: Exit USB Display.

Note:
- The driver is not installed in the computer, and it will be removed from the computer when disconnecting the USB cable.
- It will take a while when you want to project the computer screen.
- Connect a USB cable directly to the USB connector of a computer. It will not work when connecting through a USB hub.

Termination of the USB Display

When terminate the USB display, remove the USB cable directly. There is no need to follow "Remove hardware safely" when a USB cable is disconnected.

When using Mac OS

Mac OS operating environment

<table>
<thead>
<tr>
<th>OS</th>
<th>Mac OS X 10.5, 10.6, 10.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Power PC G4 1 GHz or faster</td>
</tr>
<tr>
<td>Amount of memory</td>
<td>512 MB or more</td>
</tr>
<tr>
<td>Hard-disk free space</td>
<td>20 MB or more</td>
</tr>
<tr>
<td>Display</td>
<td>Resolution 640 x 480 or more, 1,600 x 1,200 or less</td>
</tr>
</tbody>
</table>

- There is no guarantee for all computers that meet the above conditions will operate properly.

Projecting the USB Display

1. Connect the USB-B terminal of the projector to a computer with a USB converting cable.
2. Press the USB DISPLAY button on the remote control or switch the input source to USB Display.

   - Press the INPUT button on the top control and select the input source in the Input menu.
   - The image on the computer screen is projected.
3. Double-click "Monitor.app" in the virtual disk that has been mounted.
4. Right-click the driver icon in the dock of computer and select one item in Pop-up menu.

   - Pop-up menu is only displayed in English.
   - The item which is displayed in gray is unavailable.

   - Active audio/Disable audio: Set whether to output the audio from the computer.
   - Play video/Pause video: Switch between playing and pausing the image.
   - Start/Stop: Set whether to display the image from the computer.
   - Quit: Terminate the USB Display.

Note:
- It will take a while when you want to project the computer screen.
- Connect a USB cable directly to the USB connector of a computer. It will not work when connecting through a USB hub.

Termination of the USB display

When terminate the USB display, remove the USB cable directly.
Maintenance and cleaning

**WARNING indicator**
The WARNING indicator shows the state of the function which protects the projector. Check the state of the WARNING indicator to take proper maintenance.

The projector is shut down and the WARNING indicator is flashing red.
When the temperature inside the projector exceeds the normal temperature, the projector is automatically shut down to protect internal components. The WARNING indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the POWER button.

✓ Note:
The WARNING indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING indicator stops blinking.

Check the items below:
- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if ventilation slots are not blocked.
- Has the projector been installed near the duct or vent of an airconditioning? Move the installation of the projector away from the duct or vent.
- Are the air filters clean? Clean the air filters periodically.

The projector is shut down and the WARNING indicator lights red.
When the projector detects an abnormal condition, it is automatically shut down to protect the internal components and the WARNING indicator lights red. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and the WARNING indicator lights red, unplug the AC power cord and contact the service station for servicing and maintenance.

Caution
Do not leave the projector with the AC power cord connected under an abnormal condition. It may result in fire or electric shock.

**Cleaning the filter**
The air filter prevents dust from accumulating on the surface of the optical elements inside the projector. Should the air filter become clogged with dust particles, it will reduce cooling fans’ effectiveness and may result in a buildup of internal heat and adversely affects the life of the projector. If the Filter warning icon appears on the screen, the air filter should be cleaned immediately. Clean the air filter following the steps below.

1. Turn off the projector, and unplug the AC power cord from the AC outlet.
2. Remove the air filter.
3. Gently clean the filter with a brush.
4. Reinstall the filter into the projector properly.

Caution
Do not operate the projector with the air filter removed. Dust may accumulate on the optical elements, degrading picture quality. Do not put any small objects into the air intake vents. Otherwise, it may result in malfunction of the projector.

Recommendation
We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality. When you use the projector under dusty or smoky conditions, dust may accumulate on the lens, LCD panels, or optical elements inside the projector. When the symptoms above are noticed, contact the authorized dealer or service station for proper cleaning.

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

1. Press Menu on the remote control to display the screen menu. Press ▲▼ to select "Expand", then press the OK button.
2. Press ▲▼ to select "Filter counter", and then press the OK button. Press ▲▼ to select "Filter counter reset" and press the OK button. "Filter counter Reset?" appears on screen, select "Yes" to continue.
3. When another dialog box pops up, select "Yes" to reset the filter.
Maintenance and cleaning

**Clean the projector lens**

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of lens.

**Clean the cabinet**

Unplug the AC power cord before cleaning.

Gently wipe the projector surface with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in a pouch to protect it from dust and scratches.

**Replace the lamp**

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen. Replace the lamp with a new one of the same type promptly. The timing when the lamp replacement icon appears is depending on the lamp mode.

**CAUTION**

As temperature inside the projector is high, you should cool the projector for at least 45 minutes before you open the lamp cover.

**CAUTION**

When the lamp isn’t illuminated, it may indicate that the lamp has been damaged. When you replace the lamp in a projector installed on the ceiling, you should stand beside the lamp cover other than under it; for the broken glass may fall down to hurt you. To do that, remove the lamp cover gently to avoid being hurt by falling debris. If debris drops into the eyes or mouth, you should see the doctor immediately.

**To replace the lamp, follow the steps below:**

1. Power off the projector and unplug the power cord. Then let the projector cool for at least 45 minutes.
2. Loosen the screw on the lamp cover to remove the cover.
3. Make sure the lamp is well protected and remove three screws. Hold the handle to take out the lamp.
4. Install a new lamp with the same model and tighten the four screws. Make sure the installation is correct. Put lamp cover in place and then tighten the screw.
5. Plug the AC power cord and power on the projector.
Replacement lamp can be ordered through the dealer. When ordering a projection lamp, give the following information to the dealer.

Replacement Lamp Model No.: 23040049

### LAMP HANDLING PRECAUTIONS
This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the WARNING indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the WARNING indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

**IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.**

If a lamp explodes, disconnect the projector’s AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

### Troubleshooting
Before calling the dealer or service center for assistance, check the items below once again.
- Make sure you have properly connected the projector to peripheral equipment.
- Make sure all equipment is connected to the AC outlet and the power is turned on.
- If the projector does not project an image when it is connected to a PC, restart the PC.

<table>
<thead>
<tr>
<th>Problems</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power</td>
<td>- Plug the power cord of the projector into the AC power outlet.</td>
</tr>
<tr>
<td></td>
<td>- Check whether the POWER indicator lights red.</td>
</tr>
<tr>
<td></td>
<td>- Only when the POWER indicator lights red you can power on the projector again.</td>
</tr>
<tr>
<td></td>
<td>- Check the WARNING indicator. If it is blinking red, the projector can not be powered on. (Page 66)</td>
</tr>
<tr>
<td></td>
<td>- Check the projection lamp. (Page 69)</td>
</tr>
<tr>
<td></td>
<td>- Unlock the “Key lock” function. (Page 41)</td>
</tr>
<tr>
<td>No initial displaying</td>
<td>- Make sure that Logo function is not set to “Off”. (Page 47)</td>
</tr>
<tr>
<td>Initial displaying is inconsistent with factory defaults</td>
<td>- Make sure that Logo function is not set to “Off” or “User”. (Page 47)</td>
</tr>
<tr>
<td>Input signals are automatically switched (can’t be switched)</td>
<td>- Properly adjust the Input search function.</td>
</tr>
<tr>
<td>Ambiguous images</td>
<td>- Adjust the focus.</td>
</tr>
<tr>
<td></td>
<td>- Set a more proper projection distance.</td>
</tr>
<tr>
<td></td>
<td>- Check whether the lens needs to be cleaned.</td>
</tr>
<tr>
<td></td>
<td>- When moved from an environment with low temperature to the one with higher temperature, water will be condensed on the lens. If so, you have to wait till the condensed water disappears.</td>
</tr>
<tr>
<td>Image turns over leftward/ rightward</td>
<td>- Check the function of “Ceiling/rear”. (Page 33)</td>
</tr>
<tr>
<td>Image turns over upward/ downward</td>
<td>- Check the function of “Ceiling”. (Page 33)</td>
</tr>
<tr>
<td>Image not bright enough</td>
<td>- Check whether the contrast or brightness is adjusted correctly. (Page 37)</td>
</tr>
<tr>
<td></td>
<td>- Check whether the Image mode is properly selected. (Page 38)</td>
</tr>
<tr>
<td></td>
<td>- Check the function of lamp brightness adjusting. (Page 37)</td>
</tr>
<tr>
<td>No image</td>
<td>- Check the connection between Computer or video equipment and the projector.</td>
</tr>
<tr>
<td></td>
<td>- Check whether the signal from Computer is correct. If connected to certain laptops, the settings of their video adapters need to be changed. You can refer to the operating instructions of the Computer for such modification.</td>
</tr>
<tr>
<td></td>
<td>- Images can show up only about 20 seconds after the projector is powered on.</td>
</tr>
<tr>
<td></td>
<td>- Check the input signal, color system, video system or Computer system mode.</td>
</tr>
<tr>
<td></td>
<td>- Make sure that the temperature doesn’t exceed the permitted operating temperature((41°F - 104°F [5°C - 40°C])).</td>
</tr>
<tr>
<td></td>
<td>- If BLANK function is enabled, no image will appear on the screen. You can then press the BLANK button or other button on the remote control.</td>
</tr>
</tbody>
</table>
Appendix

<table>
<thead>
<tr>
<th>No Sound</th>
<th>Check the audio cable connection from audio input source.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adjust the audio source.</td>
</tr>
<tr>
<td></td>
<td>Press the VOLUME + button.</td>
</tr>
<tr>
<td></td>
<td>Press the Mute button.</td>
</tr>
<tr>
<td></td>
<td>When the AUDIO OUT is plugged in, the projector’s built-in speaker is not available.</td>
</tr>
<tr>
<td></td>
<td>Is the image projected? The sound can only be heard when the image is projected.</td>
</tr>
<tr>
<td>The color is abnormal</td>
<td>Check the input signal, color system, video system or computer system mode.</td>
</tr>
<tr>
<td></td>
<td>Make sure that Blackboard is not selected in Image Mode menu.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto PC adj. function does not work</th>
<th>Check the input signal. Auto PC adj. function can not work when 480p, 576p, 720p, 480i, 576i, 1080i or 1080p is selected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Settings cannot be saved after turning off the projector</td>
<td>Make sure you have selected “store” after you changed the settings. Some settings can’t be saved if “store” is not selected.</td>
</tr>
<tr>
<td>Power management function does not work</td>
<td>Power management function can not work while Freeze or Blank function is running.</td>
</tr>
<tr>
<td>Logo function does not work</td>
<td>Check connections and input source.</td>
</tr>
<tr>
<td>Auto setup function does not work</td>
<td>Make sure no function in the Auto setup menu is set to “Off”.</td>
</tr>
<tr>
<td>Make sure “On” is not chosen in the Ceiling function.</td>
<td></td>
</tr>
</tbody>
</table>

| The image is distorted or disappears | Check and adjust “Screen” menu. |
| PIN code dialog box appears at start-up | PIN code lock is being set. |
| The remote control does not work | Check the batteries. |
| Make sure no obstruction is between the projector and the remote control. |
| Make sure you are not too far from the projector when using the remote control. Maximum operating range is 5 m. |
| Make sure the code of the remote control is conformed to that of the projector. |
| Unlock the Key lock function in the Setting menu for the remote control. |

| Indicators light or flash | Refer to Indicators and projector condition to check the status of the projector. |
| Exclamation mark appears on the screen | The operation is invalid. Operate correctly. |
| Top control cannot be operated | Unlock the Key lock in Setting -> Key lock. |
| Unable to unlock the Logo PIN code, Key lock or PIN code lock | Contact the dealer or the service center. |

**Warning:**

High voltages are used to operate this projector. Do not attempt to open the cabinet.

If problems still persist after following all operating instructions, contact the dealer where you purchased the projector or the service center. Specify the model number and explain about the problem. We will advise you how to obtain service.

---

**Menu Tree**

<table>
<thead>
<tr>
<th>Main menu</th>
<th>Sub menu</th>
<th>Setting</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto PC adj.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine sync</td>
<td></td>
<td>0 to 31</td>
<td></td>
</tr>
<tr>
<td>H Position</td>
<td></td>
<td>-5 to +5</td>
<td></td>
</tr>
<tr>
<td>V Position</td>
<td></td>
<td>-5 to +5</td>
<td></td>
</tr>
<tr>
<td>H.Size</td>
<td></td>
<td>-15 to +15</td>
<td>In different signal, H.Size range will different</td>
</tr>
<tr>
<td>Aspect</td>
<td></td>
<td>Normal Wide Full Advanced (PC input only)</td>
<td></td>
</tr>
<tr>
<td>Project way</td>
<td></td>
<td>Front Rear Ceiling/Front Ceiling/Rear Auto ceiling/Front Auto ceiling/Rear</td>
<td></td>
</tr>
<tr>
<td>Menu position</td>
<td></td>
<td>Upper left Upper right Center Lower left Lower right</td>
<td></td>
</tr>
<tr>
<td>Background display</td>
<td></td>
<td>Black Blue</td>
<td></td>
</tr>
<tr>
<td>System</td>
<td></td>
<td>Component input Auto PAL SECAM NTSC NTSC4.3 PAL-M PAL-N PAL60</td>
<td></td>
</tr>
<tr>
<td>Color adjust</td>
<td></td>
<td>Dynamic Standard Cinema Blackboard(Green) Colorboard User Image</td>
<td></td>
</tr>
</tbody>
</table>
## Appendix

<table>
<thead>
<tr>
<th>Main menu</th>
<th>Sub menu</th>
<th>Setting</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color adjust</strong></td>
<td>Contrast</td>
<td>0-63</td>
<td>Computer input</td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Color temp.</td>
<td>High/Mid/Low</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sharpness</td>
<td>0-15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contrast</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brightness</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Color</td>
<td>0-63</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tint</td>
<td>0-63</td>
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</tr>
<tr>
<td></td>
<td>Red</td>
<td>0-63</td>
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<td></td>
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<td>Blue</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Sharpness</td>
<td>0-15</td>
<td></td>
</tr>
<tr>
<td><strong>Setting</strong></td>
<td>On start</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Standby mode</td>
<td>Normal/Eco</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High land</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lamp control</td>
<td>Normal/60 sec/0 sec</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cooling fast</td>
<td>Normal/60 sec/0 sec</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Closed caption</td>
<td>Off, CC1, CC2, CC3, CC4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Key lock</td>
<td>Off, Projector, Remote control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Iris</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terminal</td>
<td>Computer2/Monitor out</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sound</td>
<td>Sound 0-25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mute On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HDMI setup</td>
<td>Image 64-940</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0-1023</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sound HDMI Computer</td>
<td></td>
</tr>
<tr>
<td><strong>Expand</strong></td>
<td>Language</td>
<td>English, German, French, Italian, Spanish, Polish, Swedish, Dutch, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korea, Russian, Arabic, Turkish, Finnish, Norwegian, Danish, Indonesian, Hungarian, Czech, Kazak, Vietnamese, Thai, Farsi</td>
<td></td>
</tr>
</tbody>
</table>

## Appendix

<table>
<thead>
<tr>
<th>Main menu</th>
<th>Sub menu</th>
<th>Setting</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auto setup</strong></td>
<td>Input search</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto PC adj.</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto keystone</td>
<td>Auto</td>
<td></td>
</tr>
<tr>
<td><strong>Keystone</strong></td>
<td>Keystone</td>
<td>Store/Reset</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H/V Keystone</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Logo</strong></td>
<td>Logo select</td>
<td>Default/User/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Logo PIN code lock</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Logo PIN code change</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>PIN code lock</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PIN code change</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>Ready</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shut down</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Timer</td>
<td>Ready countdown</td>
<td></td>
</tr>
<tr>
<td><strong>Filter counter</strong></td>
<td>Filter counter</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Timer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Test Pattern</strong></td>
<td>Off, Gray scale1(1-4), Colorbar, Red, Green, Blue, Cross hatch, White, Black, Raster gray</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>Network setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LAN(On/Off)</td>
<td>DHCP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP address</td>
<td>Subnet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gateway</td>
<td>DNS</td>
<td></td>
</tr>
<tr>
<td><strong>Network information</strong></td>
<td>Network information</td>
<td>MAC address</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP address</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Factory default</strong></td>
<td>Lamp counter</td>
<td></td>
<td></td>
</tr>
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<td>Lamp counter reset</td>
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<td><strong>Color adjust</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S-video Input</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Video Input</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Setting</strong></td>
<td>On start</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
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<td>Normal/Eco</td>
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<tr>
<td></td>
<td>HDMI setup</td>
<td>Image 64-940</td>
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</tr>
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<td>Logo PIN code lock</td>
<td>On/Off</td>
<td></td>
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<tr>
<td></td>
<td>Logo PIN code change</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Security</strong></td>
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<td></td>
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<tr>
<td></td>
<td>PIN code change</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>Ready</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shut down</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Timer</td>
<td>Ready countdown</td>
<td></td>
</tr>
<tr>
<td><strong>Filter counter</strong></td>
<td>Filter counter</td>
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<td></td>
</tr>
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<td>DHCP</td>
<td></td>
</tr>
<tr>
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<td>IP address</td>
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<td></td>
</tr>
<tr>
<td><strong>Factory default</strong></td>
<td>Lamp counter</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lamp counter reset</td>
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<td></td>
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</tbody>
</table>
## Appendix

<table>
<thead>
<tr>
<th>Main menu</th>
<th>Sub menu</th>
<th>Setting</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Set Slide</td>
<td>Slide down Slide right</td>
<td></td>
</tr>
<tr>
<td>Memory Viewer</td>
<td>Slide transition effect</td>
<td>Slide down Slide right</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sort Order</td>
<td>Extend order Size order Timer order Name order</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rotate</td>
<td>No Rotate 270 Degrees 180 Degrees 90 Degrees</td>
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</tr>
<tr>
<td></td>
<td>Best Fit</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Repeat</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apply</td>
<td></td>
</tr>
</tbody>
</table>

### Indicator and projector state

Check the indicator to know about the state of projector.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>State of projector</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING (Red)</td>
<td>POWER (Green/Red/ Yellow)</td>
</tr>
<tr>
<td></td>
<td>The projector is in Off status (without AC power supply).</td>
</tr>
<tr>
<td></td>
<td>The projector is in standby status. Press Standby button to turn it on.</td>
</tr>
<tr>
<td></td>
<td>The projector is in normal status.</td>
</tr>
<tr>
<td></td>
<td>It is ready for standby or the lamp is cooling. You may power on the projector only after the lamp is fully cooled and the POWER light indicator stops flashing.</td>
</tr>
<tr>
<td></td>
<td>The projector is in Ready mode.</td>
</tr>
<tr>
<td></td>
<td>The projector cannot power on, as its internal temperature is too high. You may power it on after it is fully cooled, temperature backs to normal, and the POWER light indicator turns red.</td>
</tr>
<tr>
<td></td>
<td>The projector detects lamp abnormality and switches into standby mode.</td>
</tr>
<tr>
<td></td>
<td>The projector detects the temperature abnormality and switches into standby mode.</td>
</tr>
<tr>
<td></td>
<td>The projector detects power abnormality.</td>
</tr>
<tr>
<td></td>
<td>The projector detects fan abnormality.</td>
</tr>
<tr>
<td></td>
<td>The projector detects IRIS abnormality.</td>
</tr>
<tr>
<td></td>
<td>The projector detects its usage time ≥ the life of the projector -300H when the projector usage time &lt;1.1 times the life of the projector.</td>
</tr>
<tr>
<td></td>
<td>The projector detects its usage time ≥ 1.1times the life of the projector.</td>
</tr>
</tbody>
</table>

- Green
- Red
- Yellow
- Off
- Flash green
- Flash red
- Flash Yellow

* Computer 2 can't be selected when using the VGA IN 2/VGA OUT terminal as VGA OUT.
## Appendix

### Compatible computer specifications

The projector is designed to accept every analog computer signal below Dot Clock 160MHz and digital computer signal below Dot Clock 150MHz. See table below for details on resolution and relevant frequency.

<table>
<thead>
<tr>
<th>Input</th>
<th>Signal format</th>
<th>Resolution</th>
<th>Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>640x480</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>640x480</td>
<td>68</td>
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<tr>
<td></td>
<td>640x480</td>
<td>72</td>
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<tr>
<td></td>
<td>640x480</td>
<td>75</td>
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<tr>
<td></td>
<td>800x600</td>
<td>56</td>
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</tr>
<tr>
<td></td>
<td>800x600</td>
<td>60</td>
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<tr>
<td></td>
<td>800x600</td>
<td>72</td>
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<tr>
<td></td>
<td>800x600</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>800x600</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>MAC 16</td>
<td>832x624</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>XGA</td>
<td>1024x768</td>
<td>60</td>
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</tr>
<tr>
<td></td>
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<td>75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1024x768</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>MXGA</td>
<td>1152x864</td>
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</tr>
<tr>
<td>PC</td>
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<td>68</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1280x768</td>
<td>72</td>
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<td>1280x768</td>
<td>75</td>
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<td>1280x768</td>
<td>85</td>
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<tr>
<td>SXGA</td>
<td>1400x1050</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1400x1050</td>
<td>75</td>
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<td>SXGA+</td>
<td>1400x1050</td>
<td>75</td>
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<td>QVGA</td>
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<td>1366x768</td>
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<tr>
<td>UXGA</td>
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<td>1600x1200</td>
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<td>WSXGA+</td>
<td>1680x1050</td>
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<tr>
<td>WUXGA</td>
<td>1920x1200</td>
<td>60</td>
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### Technical Specifications

<table>
<thead>
<tr>
<th>LCD system</th>
<th>WXGA: 0.59&quot; PLED, active matrix, 3-panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD resolution</td>
<td>WXGA: 0.64&quot; PLED, active matrix, 3-panel</td>
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<tr>
<td>Compatible signals</td>
<td>PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N and PAL60</td>
</tr>
<tr>
<td>HD TV signal</td>
<td>480i, 480p, 576i, 576p, 720p, 1035i, 1080i and 1080p</td>
</tr>
<tr>
<td>Scanning frequency</td>
<td>Horizontal: 15 kHz – 100 kHz; Vertical: 48 – 85 Hz</td>
</tr>
</tbody>
</table>
| Optical elements      | Image size (diagonal lines): WXGA: 0.736m-7.619m(W) 1.211m-12.371m(T).
|                       | Projection distance: WUXGA: 0.676m-7.047m(W) 1.210m-11.434m(T) |
|                       | Lens: F=1.6-1.9, f=15.31-24.64 mm; Manual zooming and focusing; |
|                       | Zoom Ratio: 1.6 x optics |
| Lamp Consumption(W)   | 280W |
| Terminal              | Mini D-sub 15 pin x1 |
|                       | Mini D-sub 15 pin x1 |
|                       | HDMI x2 (one is compatible with MHL) |
|                       | LAN terminal 100 Base-TX (100Mbps)/10 Base-T (10Mbps) RJ45 |
|                       | USB-B x1 (display firmware upgrade) |
|                       | USB-A x1 (picture viewer) |
|                       | RS-232 terminal D-sub 9 pin x1 |
|                       | AUDI0 OUT 3.5mm Mini Type Stereo x1 |
|                       | AUDIO IN 3.5mm Mini Type Stereo x1 |
|                       | MONO(R/L) RCA x2 |
|                       | VIDEO IN terminal RCA x1 |
| Power                 | AC 100-240 V, 50/60 Hz |
| Voltage and power consumption | 250V/10A |
| Fuse                  | 10W RMS 80Ohm, x1 |
| Operating Environment | Operating temperature 41˚F-104˚F (5˚C - 40˚C) |
|                       | Storage Temperature 14˚F-140˚F (-10˚C - 60˚C) |
|                       | High land 1400 m |
| Remote control        | AAA or LR3 1.5V Alkaline Type x 2 |
| Battery               | Operating Range 16.4” (5 m) / ±30˚ |
| Dimensions            | Dimensions 110mm (W) x 18mm (H) x 50mm (D) |
| Net Weight            | Net Weight 55g (including batteries) |
| Mechanical properties | Dimensions (W x H x D) 395.0mm x 318mm x 128mm |
|                        | Net Weight 4.5Kg |
| Adjustments           | Adjustable foot 40mm |

Note: Changes to this manual may be made without notice.
Appendix

Configurations of terminals

VGA IN 1 terminal pin assignments and signal names

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>VGA YPbPr</td>
</tr>
<tr>
<td>G</td>
<td>S-Video</td>
</tr>
<tr>
<td>B</td>
<td>GND</td>
</tr>
<tr>
<td>9</td>
<td>+5V</td>
</tr>
<tr>
<td>10</td>
<td>GND</td>
</tr>
<tr>
<td>11</td>
<td>GND</td>
</tr>
<tr>
<td>12</td>
<td>DDC data</td>
</tr>
<tr>
<td>13</td>
<td>HD/SYNC</td>
</tr>
<tr>
<td>14</td>
<td>VD</td>
</tr>
<tr>
<td>15</td>
<td>DDC clock</td>
</tr>
</tbody>
</table>

VGA IN 2/VGA OUT terminal pin assignments and signal names

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>9 NC</td>
</tr>
<tr>
<td>G</td>
<td>10 GND</td>
</tr>
<tr>
<td>B</td>
<td>11</td>
</tr>
<tr>
<td>4</td>
<td>12 DDC data</td>
</tr>
<tr>
<td>5</td>
<td>13 HD/SYNC</td>
</tr>
<tr>
<td>6</td>
<td>14 VD</td>
</tr>
<tr>
<td>7</td>
<td>15 DDC clock</td>
</tr>
<tr>
<td>8</td>
<td>GND</td>
</tr>
</tbody>
</table>

RS232 terminal (D-SUB-9 pin)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>RXD</td>
</tr>
<tr>
<td>3</td>
<td>TXD</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

LAN terminal

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TX +</td>
</tr>
<tr>
<td>2</td>
<td>TX -</td>
</tr>
<tr>
<td>3</td>
<td>TX -</td>
</tr>
<tr>
<td>4</td>
<td>TX -</td>
</tr>
</tbody>
</table>

HDMI terminal pin assignments and signal names

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T.M.D.S data2+</td>
</tr>
<tr>
<td>2</td>
<td>T.M.D.S data2 shield</td>
</tr>
<tr>
<td>3</td>
<td>T.M.D.S data2-</td>
</tr>
<tr>
<td>4</td>
<td>T.M.D.S data1+</td>
</tr>
<tr>
<td>5</td>
<td>T.M.D.S data1 shield</td>
</tr>
<tr>
<td>6</td>
<td>T.M.D.S data</td>
</tr>
<tr>
<td>7</td>
<td>T.M.D.S data0+</td>
</tr>
<tr>
<td>8</td>
<td>T.M.D.S data0 shield</td>
</tr>
<tr>
<td>9</td>
<td>T.M.D.S data0-</td>
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<tr>
<td>10</td>
<td>T.M.D.S clock</td>
</tr>
</tbody>
</table>

USB-B terminal

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>V Bus</td>
</tr>
<tr>
<td>2</td>
<td>Data -</td>
</tr>
<tr>
<td>3</td>
<td>Data +</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
</tr>
</tbody>
</table>

Appendix

Content of hazardous substances and elements

<table>
<thead>
<tr>
<th>Name of parts</th>
<th>Hazardous substances and elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical parts</td>
<td>Pb</td>
</tr>
<tr>
<td>Electric parts</td>
<td>X</td>
</tr>
<tr>
<td>Cabinet, mechanical parts</td>
<td>X</td>
</tr>
<tr>
<td>Lamp unit</td>
<td>X</td>
</tr>
<tr>
<td>Batteries</td>
<td>○</td>
</tr>
<tr>
<td>Others (Remote control, cable and other parts)</td>
<td>X</td>
</tr>
<tr>
<td>Package</td>
<td>○</td>
</tr>
</tbody>
</table>

This table is formulated in accordance with SJ/T 11364.

○: It means that contents of hazardous substances in all homogeneous materials in this part don't exceed “Required Limitations” specified in GB/T26572.

×: It means that contents of hazardous substances in at least one homogeneous material in this part exceed “Required Limitations” specified in GB/T26572.

Note:

*: Optical parts includes optical lens, monitor, reflection lens etc.

**: Electric parts includes PCB, internal wires, fans, power supply, sensors etc.

Dimensions

Unit: mm

Screw Holes for Ceiling Mount
Screw: M4
Depth: 10.0
Appendix

PIN code memorandum

Write down the PIN code in the blank below and keep it. If you forgot or lost the number and unable to operate the projector, contact the service center.

PIN code lock

Factory default PIN code 111*

Logo PIN code Lock No.

Factory default PIN code 111*

*If this 3-digit number is changed, the factory default number will be ineffective.
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    +1 949-457-7878
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