Security (Key lock and PIN code lock)

This function allows you to use the Key lock and PIN code lock function to set the security for the projector operation.

Key lock

Key lock

This function locks the top control and remote control buttons to prevent operation by unauthorized persons.

..... Unlocked.

..... Lock the operation of the top control. To unlock, use the 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 your remote control, contact the dealer where you purchased the projector or the service center.

PIN code lock

This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

Off .... Unlocked.
On1 .... Enter the PIN code every time turning on the projector.
On2 .... Enter the PIN code to operate the projector once the power cord is disconnected; as long as the AC power cord is connected, the projector can be operated without a PIN code.
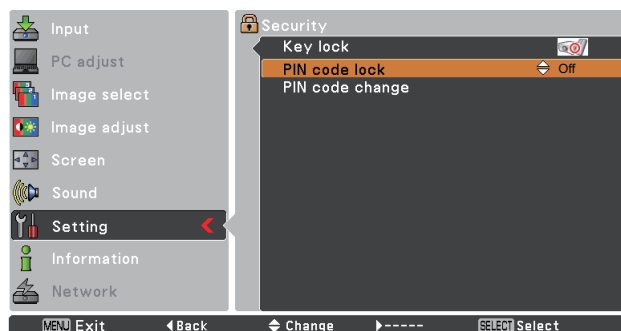
Whenever you change the PIN code lock setting or the PIN code (the four-digit number), you are required to enter the PIN code. The "1234" is set as the initial PIN code at the factory.

If you want to change the PIN code lock setting, Press the SELECT button and the PIN code dialog box appears.
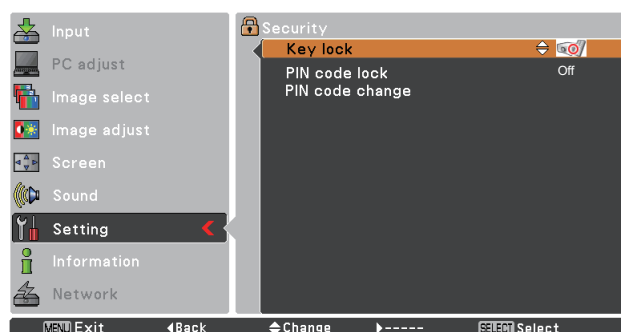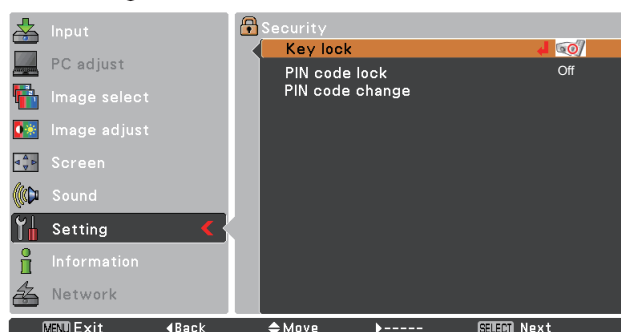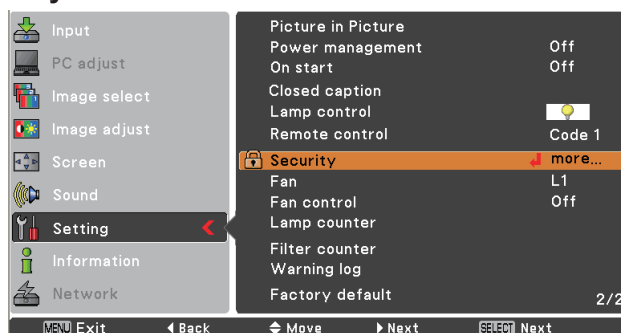
PIN code lock

Enter a PIN code

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to ✴. If you fixed an incorrect number, use the Point ◄ button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to **Set**. Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect PIN code, **PIN code** and the number (✴✴✴✴) will turn red for a moment. Enter the correct PIN code all over again.

**Change the PIN code lock setting**

Use the Point ▲▼ buttons to select **Off**, **On1** or **On2**. Press the SELECT button to close the dialog box.

PIN code change

The PIN code can be changed to your desired four-digit number. Press the Point ▼ button to select **PIN code change** and press the SELECT button. The New PIN code input dialog box appears. Set a new PIN code.

CAUTION:
WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 83, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

Enter a PIN code
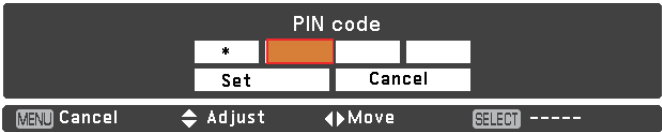
Change the PIN code
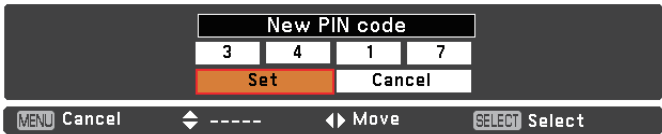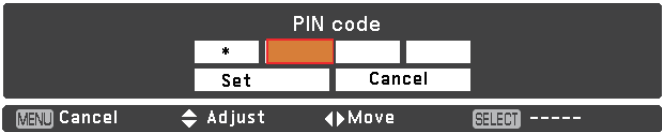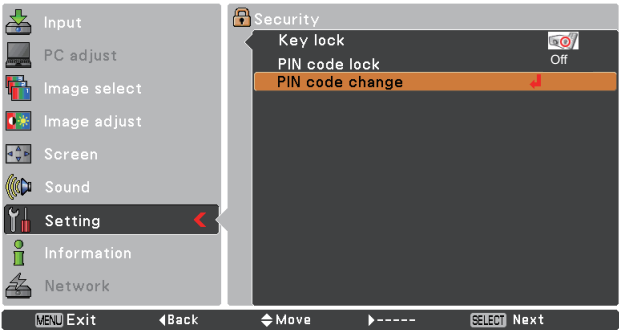
Fan

This function provides the following options in the cooling fans' operation when the projector is turned off (p.23).

L1 ...... Normal operation

L2 ...... Slower and lower-sound than the normal operation (**L1**), but it takes more time to cool the projector down.

Fan control

Choose the running speed of cooling fans from the following options according to the ground elevation under which you use the projector.

Off.......Normal speed. Set this function to **Off** when using the projector in non-high altitude environment.

On 1... Faster than Off mode. Select this mode when using the projector in high altitudes (about 1,200 meters or more above the sea level) where the fans have less cooling effect.

On 2....Faster than On 1 mode. Select this mode when using the projector in higher altitudes than above where the fans have lesser cooling effect.

On 3....Be sure to set the Lamp control in High and the Fan control in **On 3** when using the projector inclined at between +40 degrees to +140 degrees to the horizontal plane at altitudes between 0 and approximately 1,600 meters above sea level.

✓**Note:**
• The fan noise becomes louder in **On1**, **On2** and **On3**.
• Setting Fan control to **On1**, **On2** or **On3** affects **L2** operation in Fan.

Lamp counter

This function is used to display the cumulative lamp operating time and reset the lamp counter.
When the lamp life is left 0 hour, the Lamp replacement icon (Fig.1) will appear on the screen, indicating that the end of lamp life is reached.
When replacing the projection lamp, reset lamp counter.
See "Resetting the Lamp Counter" on page 68.

Fan Control Setting
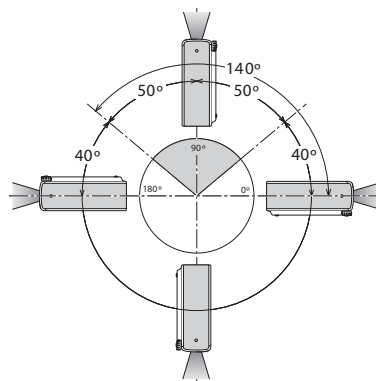
Fig.1 Lamp replacement icon

Lamp replacement

This icon appears on the screen when the end of lamp life is reached.
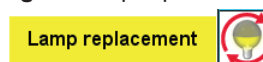
✓**Note:**
At turning on, the icon (Fig.1) will appear.

✓**Note:**
The Lamp replacement icon (Fig.1) will not appear when the Display function is set to **Off** (p.49), during "Freeze" (p.28) or "No show" (p.29).

Filter counter

This function is used to set a frequency for the 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.

For details about resetting the timer, refer to "Resetting the Filter Counter" on page 65.

Fig.1 Filter warning icon
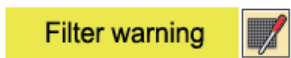
Filter warning icon appears on the screen at a set time.

✓**Note:**

This icon also appears at turning on.

✓**Note:**

The Filter warning icon (Fig.1) will not appear when the Display function is set to **Off** (p.49), during "Freeze"(p.28), or "No show" (p.29).

Warning log

This function records anomalous operations while the projector is in operation and use it when diagnosing faults. Up to 10 warning logs are displayed with the latest warning message at the top of the list, followed by previous warning messages in chronological order.

✓**Note:**

When the Factory default function is executed, all the warning log records will be deleted.

Factory default

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

Filter counter
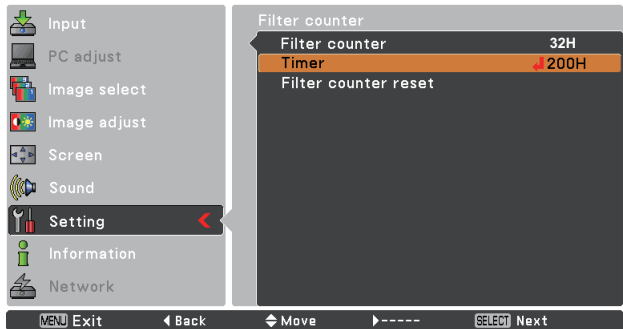
Press the SELECT button to select **Timer** and then use the Point ▲▼ buttons to set the timer. Select from (**Off/100H/ 200H/ 300H**) depending on the use environment.

Factory default

Information

Input Source Information Display

The Information Menu is used for checking the status of the image signal being projected and the operation of the projector.

Direct Operation

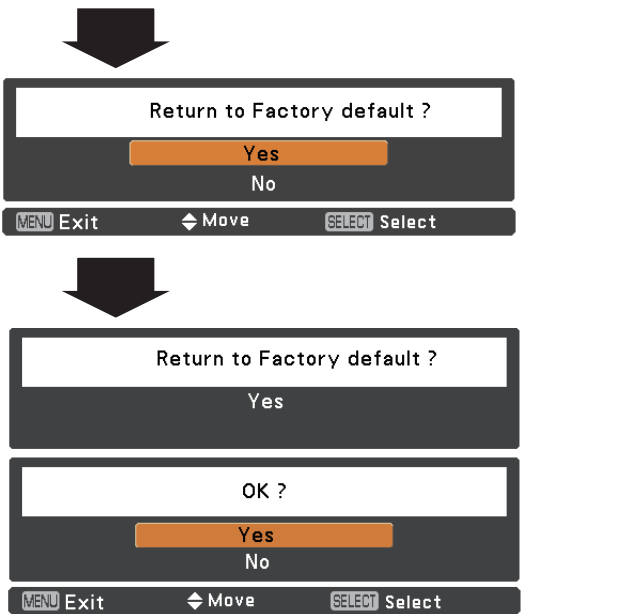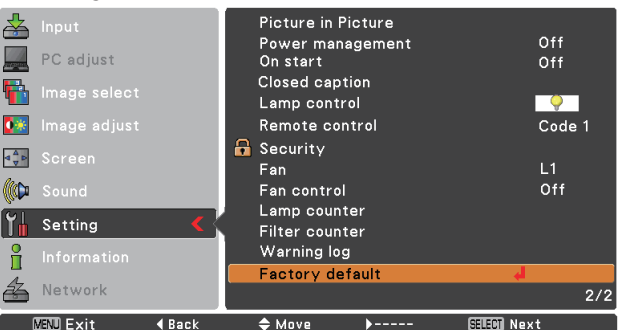Press the INFO. button on the remote control to display the Information Menu.

Remote Control

INFO. button
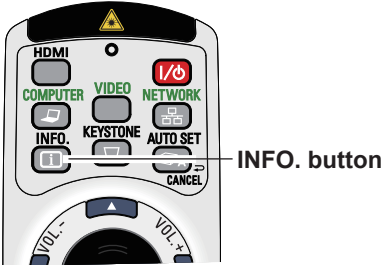
Menu Operation

Press the Point ▲▼ buttons to select **Information**. The Information Menu is displayed.

See below for displayed information.

Input
The selected input source is displayed.

Information Menu

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

V-sync freq.
The vertical frequency of the input signal is displayed in **Hz** or **- - - - -** when no signal. Numbers of Hz doubles when during Interlace.

Screen
The selected screen size is displayed.

Language
The selected language is displayed.

Lamp status
The selected lamp mode is displayed.

Lamp counter
The cumulative lamp operating time is displayed.

Power management
Off , **Ready** , **Shut down** or **Timer** is displayed.

Key lock
The selected Key lock icon is displayed.

PIN code lock
Off , **On 1** or **On 2** is displayed.

Remote control
The selected remote code is displayed.

Maintenance and Cleaning

WARNING indicator

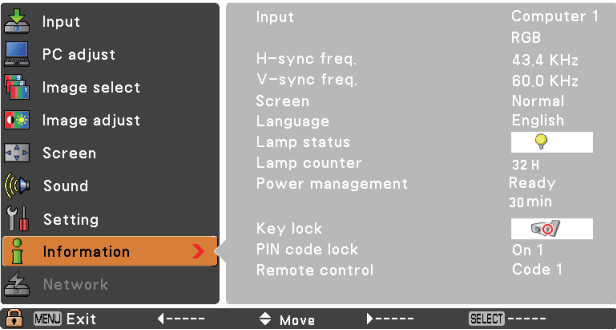The WARNING indicator shows the state of the function which protects the projector. Check the state of the WARNING indicator and the POWER indicator to take proper maintenance.

The projector is shut down and the WARNING indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector. The POWER 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 ON/STAND-BY 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.

Then check the matters below:
– Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked.
– Has the projector been installed near an Air-Conditioning/Heating Duct or Vent? Move the installation of the projector away from the duct or vent.
– Are the filters clean? Clean the filters periodically.

Top Control

LAMP REPLACE WARNING

I/⏻
ON/STAND-BY POWER

WARNING blinking red

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 inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, unplug the AC power cord and contact the service station.

Top Control

LAMP REPLACE WARNING

I/⏻
ON/STAND-BY POWER

WARNING emit a red light

⚠ **CAUTION**
DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.
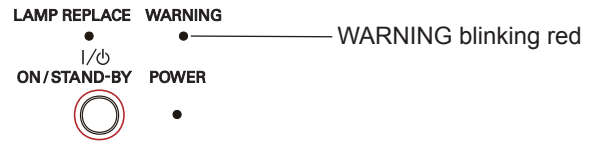
Cleaning the Filters

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a Filter warning icon appears on the screen, clean the filters immediately. Clean the filters by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 Turn the projector over and remove the filters by pulling the latches upward.
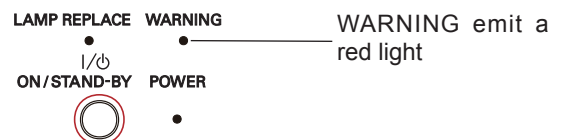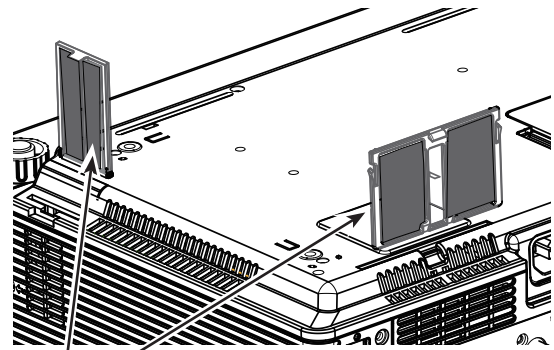
3 Gently clean the filters by using a brush or rinse it softly.

4 When rinsing the filters, dry they well. Replace the filters properly. Make sure that the filters are fully inserted to the projector.

⚠️ **CAUTION**
Do not operate the projector with the filters removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so 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 using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter
Be sure to reset the Filter counter after cleaning or replacing the filters.

1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Setting** and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons to select **Filter counter** and then press the SELECT button. Use the Point ▲▼ buttons to select **Filter counter reset** and then press the SELECT button. **Filter counter Reset?** appears. Select **Yes** to continue.

3 Another confirmation dialog box appears, select **Yes** to reset the Filter counter.

Filters
Pull up and remove.
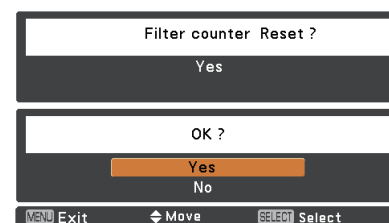
Filter counter

Filter counter Reset? appears.

Select **Yes**, then another confirmation box appears.

Select **Yes** again to reset the Filter counter.

Attaching the Lens Cap

When moving the projector or while it is not in use, replace the lens cap.

1 Thread the string through the hole on the lens cap and then tie a knot in the string to secure it in place.

2 To pass the other end of the string into the hole on the top of the projector and pull at it.

Lens Cap

String for the lens cap
Secure it to the hole with a screw.

Hole
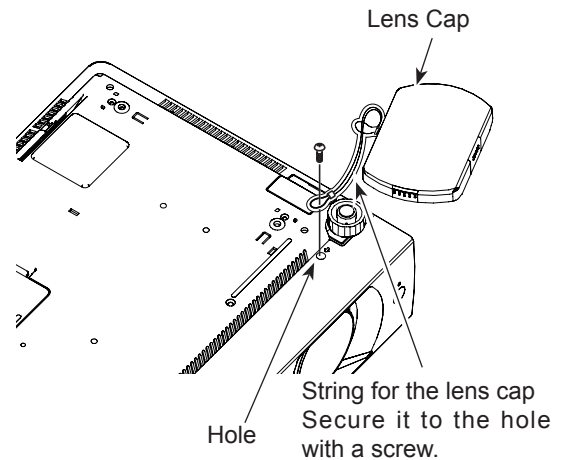
Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of 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 the lens.
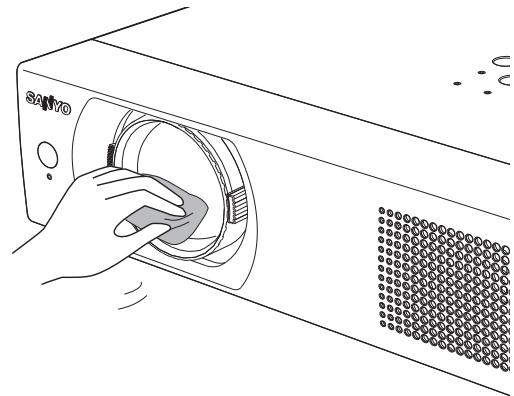
Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body 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 an appropriate carrying case to protect it from dust and scratches.

Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

Top Control

LAMP REPLACE indicator

Lamp replacement icon

> ⚠ **WARNING:**
> TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

✓**Note:**

The Lamp replacement icon will not appear when the Display function is set to **Off** (p.49), during "Freeze" (p.28), or "No show" (p.29).
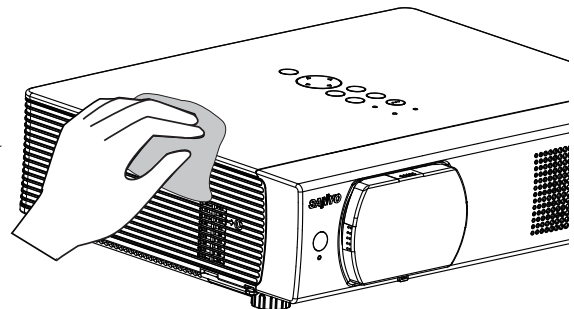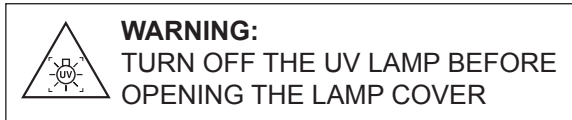

⚠ **CAUTION**

Allow a projector to cool for at least 45 minutes before you open the Lamp Cover. The inside of the projector can become very hot.

⚠ **CAUTION**

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

1 Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.

2 Remove the screw and open the lamp cover.

3 Loosen the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.

4 Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover and secure the screw.

5 Connect the AC power cord to the projector and turn on the projector.

6 **Reset the lamp counter.**
See "Resetting the Lamp Counter" on the next page.

Press here and pull upward.
Lamp Cover
Screw
Screw
Handle
Screw
Lamp
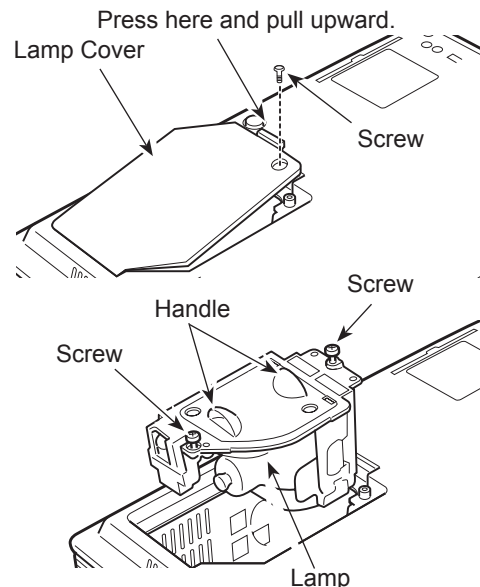
ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- **Model No. of your projector** : PLC-WXU700A
- **Replacement Lamp Type No.** : POA-LMP111
  (Service Parts No. 610 333 9740)

Resetting the Lamp Counter

Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

1 Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select **Setting** and then press the Point ► or the SELECT button.

2 Use the Point ▲▼ buttons to select **Lamp counter** and then press the SELECT button. Use the Point ▲▼ buttons to select **Lamp counter reset** and then press SELECT button. **Lamp counter Reset?** appears. Select **Yes** to continue.
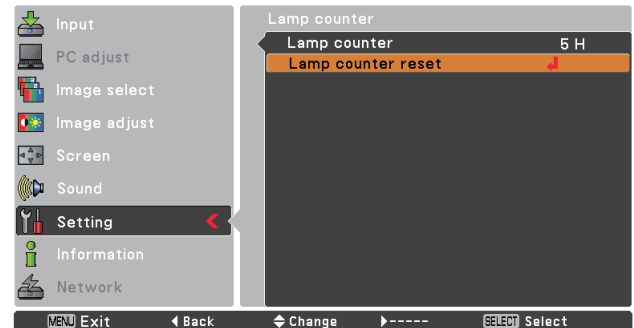
3 Another confirmation dialog box appears, select **Yes** to reset the Filter counter.

✓**Note:**

Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

Lamp counter Reset? appears.

Select **Yes**, then another confirmation box appears.

Select **Yes** again to reset the Filter counter.

⚠ **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 LAMP REPLACE 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 LAMP REPLACE indicator lighted may increase the risk of lamp explosion.

● A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use 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.

Appendix

Troubleshooting

Before calling your dealer or service center for assistance, check the items below once again.

–Make sure you have properly connected the projector to peripheral equipment as described on pages 17-19.
–Make sure all equipment is connected to AC outlet and the power is turned on.
–When the projector does not project an image from the connected computer, restart the computer.

Problem:	– Solutions
No power	– Plug the power cord of the projector into the AC outlet. – See if the POWER indicator lights red. – Wait until the POWER indicator stops blinking to turn on the projector again. The projector can be turned on after the POWER indicator turns red. See page 21. – Check the WARNING indicator. If the WARNING indicator lights red, projector cannot be turned on. See page 64. – Check the projection lamp. See page 67. – Unlock the Key lock function for the projector. See page 59.
The initial display is not shown.	– Make sure **Off** or **Countdown off** is not chosen at display function. See page 49.
The initial display is not same as the default set.	– Make sure **User** or **Off** is not chosen at Logo (select) function. See page 50.
Input signal switches automatically. (or does not switch automatically)	– Make sure Input search function is adjusted properly. See page 48.
When the projector is on and you press the input button, an icon other than the Lamp mode icon appears.	– That is the Filter warning icon. See page 62.
An icon other than Input mode or Lamp mode icon appears.	– That is the Lamp replacement icon or the Filter warning icon. See pages 61, 62.
Image is out of focus.	– Adjust focus of the projector. See page 26. – Provide proper distance between the projector and the projection screen. See page 16. – Check the projection lens to see if it needs cleaning. See page 66. – Moving the projector from a cool to warm place may result in moisture condensation on the projection lens. In such cases, leave the projector off and wait until condensation evaporates.
Image is Left/Right reversed. **Image is Top/Bottom reversed.**	– Check the Ceiling/Rear function. See page 53. – Check the Ceiling function. See page 53.
Picture is not bright enough.	– Check if the **Contrast** or **Brightness** are adjusted properly. See pages 37, 44. – Check if **Image mode** is selected properly. See pages 36, 43. – Check the lamp control function. See pages 28, 58. – Check the LAMP REPLACE indicator. If it lights, the end of lamp life is approaching. Replace the lamp with a new one promptly. See page 67.

No image

– Check the connection between your computer or video equipment and the projector. See pages 17-19.
– See if the input signal is correctly output from your computer. Some laptop computers may need to change the setting for monitor output when connecting to a projector. See your computer's instruction manual for the setting.
– It takes about 30 seconds to display an image after turning on the projector. See page 21.
– Check the Input signal, color system, video system or computer system mode.
– Make sure the temperature is not out of the specified Operating Temperature (41˚F–95˚F [5˚C–35˚C]).
– When No Show function is operating, the image cannot be displayed. Press the NO SHOW button or any other button on the remote control.

No sound

– Check the audio cable connection from audio input source.
– Adjust the audio source.
– Press the Volume + button. See page 27.
– Press the Mute button. See page 27.
– When the AUDIO OUT is plugged-in, the projector's built-in speaker is not available.
– Is the image projected? You will hear the sound only when the image is projected.

The color is strange.

– Check the Input signal, color system, video system or computer system mode.
– Make sure **Blackboard** is not selected on Image select menu. See pages 36, 43.

Some displays are not seen during the operation.

– Check the Display function. See page 49.

Auto PC adjustment function does not work.

– Check the Input signal. Auto PC adj.function can not work when **480p, 575p, 720p, 480i, 575i, 1035i** or **1080i** is selected . See page 33.
– The icon is not available in grayout when the digital signal is input.

The setting does not remain after turning off power.

– Make sure you selected **Store** after adjusting setting. Some settings can not be stored if not registered with Store. See page 38, 45.

Power management does not work.

– Power management function can not work while Freeze or No Show function is running. See page 56.

Capture function does not work.

– Check the connection and the input signal to see if there is signal.

Auto setup does not work properly.

– Make sure **Off** is not selected at any function of "Auto setup". See page 48.
– Make sure **On** is not selected at the Ceiling function. See page 53.

Auto keystone function does not work even when the projector is tipped.

– Make sure the Auto keystone function is not set to **Manual**. Press the AUTO SETUP/CANCEL button on the top control. See pages 26,48.

The image is distorted or runs off.	– Check PC adjustment or Screen and adjust them. See pages 34-35, 38-39 .
PIN code dialog box appears at start-up.	– PIN code lock is being set. Enter a PIN code ("**1234"** or numbers you have set). See pages 22, 59-60.
Page Up/Down function does not work.	– Make sure your computer is connected to the projector with USB cable. See page 17. – Check cable connection between the projector and your computer. See page 17.
The Remote Control does not work.	– Check the batteries. – Make sure no obstruction is between the projector and remote control. – Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4'(5 m). – Make sure the code of the remote control is conformed to the projector's code. See page 58. – Unlock the Key lock function for the remote control function. See page 59. – Check RESET/ON/ALL-OFF switch on the remote control is set to **ON**. See page 12.
Indicator blinks or lights.	– Check the status of the projector with referring to "Indicators and projector Condition". See page 75.
Wireless Mouse function does not work.	– Check the connection between the projector and your computer. – Check the mouse setting on you computer. – Make sure the mouse driver is installed on your computer, otherwise, the remote control can not be used as a wireless mouse. – Make sure the signal is from the computer, otherwise, the remote control can not be used as a wireless mouse. – Turn on the projector before turning on the computer.
The exclamation mark appears on the screen.	– Your operation is invalid. Operate correctly.
Top control does not work.	– The top control is not available if the top control is locked at **Key lock** under **Security** of Setting section. See page 59.
Unable to unlock the Logo PIN code lock, Security key lock or Security PIN code lock.	– Contact the dealer where you purchased the projector 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.

The CE Mark is a Directive conformity mark of the European Community (EC).
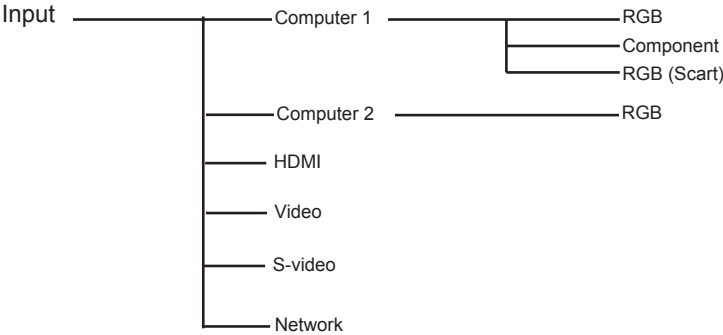
Pixelworks ICs used.

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.
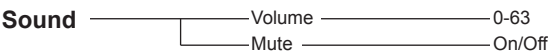
Menu Tree

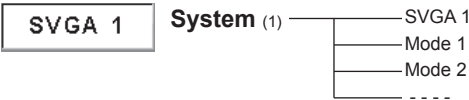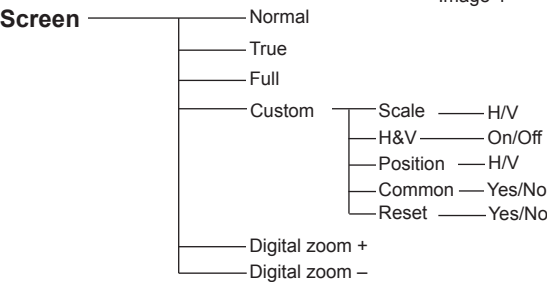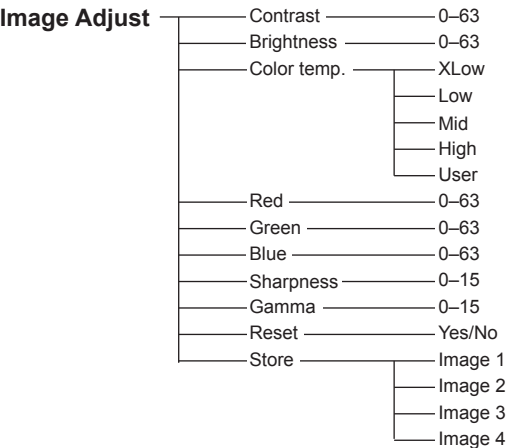### Computer Input/HDMI Input/Video Input

Input

```
Input ──────────┬── Computer 1 ──────────┬── RGB
                │                         ├── Component
                │                         └── RGB (Scart)
                ├── Computer 2 ────────────── RGB
                ├── HDMI
                ├── Video
                ├── S-video
                └── Network
```

Sound

```
Sound ──────────┬── Volume ────────── 0-63
                └── Mute ──────────── On/Off
```

Computer Input

```
SVGA 1     System (1) ──┬── SVGA 1
                        ├── Mode 1
                        ├── Mode 2
                        └── - - - -
```

* Systems displayed in the System Menu vary
depending on an input signal.

```
PC adjust ──────┬── Auto PC adj.
                ├── Fine sync ────────── 0–31
                ├── Total dots
                ├── Horizontal
                ├── Vertical
                ├── Clamp
                ├── Display area H
                ├── Display area V
                ├── Reset ──────────── Yes/No
                ├── Mode free ──────┬── Mode 1
                │                   ├── Mode 2
                │                   ├── Mode 3
                │                   ├── Mode 4
                │                   └── Mode 5
                └── Store ──────────┬── Mode 1
                                    ├── Mode 2
                                    ├── Mode 3
                                    ├── Mode 4
                                    └── Mode 5
```

```
Image Select ───┬── Dynamic
                ├── Standard
                ├── Real
                ├── Blackboard (Green)
                ├── Colorboard ────── Red/Blue/Yellow/Green
                ├── Image 1
                ├── Image 2
                ├── Image 3
                └── Image 4
```

```
Image Adjust ───┬── Contrast ────────── 0–63
                ├── Brightness ──────── 0–63
                ├── Color temp. ────┬── XLow
                │                   ├── Low
                │                   ├── Mid
                │                   ├── High
                │                   └── User
                ├── Red ────────────── 0–63
                ├── Green ──────────── 0–63
                ├── Blue ───────────── 0–63
                ├── Sharpness ───────── 0–15
                ├── Gamma ──────────── 0–15
                ├── Reset ──────────── Yes/No
                └── Store ──────────┬── Image 1
                                    ├── Image 2
                                    ├── Image 3
                                    └── Image 4
```

```
Screen ─────────┬── Normal
                ├── True
                ├── Full
                ├── Custom ─────────┬── Scale ─── H/V
                │                   ├── H&V ──── On/Off
                │                   ├── Position ── H/V
                │                   ├── Common ── Yes/No
                │                   └── Reset ─── Yes/No
                ├── Digital zoom +
                └── Digital zoom –
```

Appendix

HDMI Input / Video Input

Auto — **System** (2)
- Auto
- 1080i
- 1035i
- 720p
- 575p
- 480p
- 575i
- 480i

Auto — **System** (3)
- Auto
- PAL
- SECAM
- NTSC
- NTSC 4.43
- PAL-M
- PAL-N

Image Select
- Dynamic
- Standard
- Cinema
- Blackboard (Green)
- Colorboard — Red/Blue/Yellow/Green
- Image 1
- Image 2
- Image 3
- Image 4

Image Adjust
- Contrast — 0–63
- Brightness — 0–63
- Color — 0–63
- Tint — 0–63
- Color temp.
  - XLow
  - Low
  - Mid
  - High
  - User
- Red — 0–63
- Green — 0–63
- Blue — 0–63
- Sharpness — 0–15
- Gamma — 0–15
- Noise reduction
  - Off
  - L1
  - L2
- Progressive
  - Off
  - L1
  - L2
  - Film
- Reset — Yes/No
- Store
  - Image 1
  - Image 2
  - Image 3
  - Image 4

Screen
- Normal
- Full
- Zoom
- Wide
- Natural wide
- Custom
  - Scale — H/V
  - H&V — On/Off
  - Position — H/V
  - Common — Yes/No
  - Reset — Yes/No

Setting

Setting
- Language — 17 languages provided.
- Menu position
- Auto setup
  - Input search — Off/On1/On2
  - Auto PC adj. — On/Off
  - Auto Keystone
    - Auto
    - Manual
    - Off
- Keystone — Store/Reset
- Background — Blue/User/Black
- Display — On/Countdown off/Off
- Logo
  - Logo select
    - User
    - Default
    - Off
  - Capture — Yes/No
  - Logo PIN code lock — Off/On
  - Logo PIN code change
- Ceiling — On/Off
- Rear — On/Off
- HDMI setup
  - Image
    - Normal
    - Enhanced
  - Sound
    - HDMI
    - Computer 2
- Terminal — Computer 2/Monitor out
- Pointer — Spotlight L / Spotlight M / Spotlight S / Arrow / Finger / Dot
- Standby mode — Normal / Eco
- Picture in Picture
  - Mode — Off/P in P/P by P
  - Subpicture size — Small/Middle/Large
  - Subpicture position
- Power management
  - Ready
  - Shut down
  - Off
  - Timer (1–30 Min)
- On start — On/Off
- Closed Caption
  - Closed Caption — Off/CC1/CC2/CC3/CC4
  - Color — Color/White
- Lamp control — Auto/High/Normal/Eco
- Remote control — Code 1–Code 8
- Security
  - Key lock
    - Off
    - Projector
    - Remote control
  - PIN code lock — Off/On1/On2
  - PIN code change
- Fan — L1/L2
- Fan control — Offl/On1/On2/On3
- Lamp counter
  - Lamp counter
  - Lamp counter reset
- Filter counter
  - Filter counter — H
  - Timer — Off/100H/200H/300H
  - Filter counter reset — Yes/No
- Warning log
- Factory default — Yes/No

Information — Input Source Information Display

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER **red/green**	WARNING **red**	LAMP REPLACE **yellow**	
●	●	●	The projector is off. (The AC power cord is unplugged.)
⊘	●	✳	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
○	●	✳	The projector is operating normally.
⊘ (blinks)	●	✳	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
○ (blinks)	●	✳	The projector is in the Power management mode.
⊘ (blinks)	⊘ (blinks)	✳	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING indicator keeps blinking.)
⊘	⊘ (blinks)	✳	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the filters.
●	⊘	✳	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

○ • • • green   ⊘ • • • red   ● • • • off

○ • • • blinks green   ⊘ • • • blinks red

When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly.

Compatible Computer Specifications

Basically this projector can accept the signal from all computers with the V-, H-Frequency mentioned below and less than 140 MHz of Dot Clock for analog signal and 110 MHz of Dot Clock for digital signal. When selecting these modes, PC adjustment can be limited.

When the input signal is Analog , refer to the chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88	SXGA 1	1152 x 864	64.20	70.40
VGA 2	720 x 400	31.47	70.09	SXGA 2	1280 x 1024	62.50	58.60
VGA 3	640 x 400	31.47	70.09	SXGA 3	1280 x 1024	63.90	60.00
VGA 4	640 x 480	37.86	74.38	SXGA 4	1280 x 1024	63.34	59.98
VGA 5	640 x 480	37.86	72.81	SXGA 5	1280 x 1024	63.74	60.01
VGA 6	640 x 480	37.50	75.00	SXGA 6	1280 x 1024	71.69	67.19
VGA 7	640 x 480	43.269	85.00	SXGA 7	1280 x 1024	81.13	76.107
MAC LC13	640 x 480	34.97	66.60	SXGA 8	1280 x 1024	63.98	60.02
MAC 13	640 x 480	35.00	66.67	SXGA 9	1280 x 1024	79.976	75.025
480p	640 x 480	31.47	59.88	SXGA 10	1280 x 960	60.00	60.00
575p	768 x 575	31.25	50.00	SXGA 11	1152 x 900	61.20	65.20
480i	640 x 480	15.734	60.00 (Interlace)	SXGA 12	1152 x 900	71.40	75.60
575i	768 x 576	15.625	50.00 (Interlace)	SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
720p	1280 x 720	37.50	50.00	SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
720p	1280 x 720	45.00	60.00	SXGA 15	1280 x 1024	63.37	60.01
SVGA 1	800 x 600	35.156	56.25	SXGA 16	1280 x 1024	76.97	72.00
SVGA 2	800 x 600	37.88	60.32	SXGA 17	1152 x 900	61.85	66.00
SVGA 3	800 x 600	46.875	75.00	SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
SVGA 4	800 x 600	53.674	85.06	SXGA 19	1280 x 1024	63.79	60.18
SVGA 5	800 x 600	48.08	72.19	SXGA 20	1280 x 1024	91.146	85.024
SVGA 6	800 x 600	37.90	61.03	SXGA+ 1	1400 x 1050	63.97	60.19
SVGA 7	800 x 600	34.50	55.38	SXGA+ 2	1400 x 1050	65.35	60.12
SVGA 8	800 x 600	38.00	60.51	SXGA+ 3	1400 x 1050	65.12	59.90
SVGA 9	800 x 600	38.60	60.31	MAC21	1152 x 870	68.68	75.06
SVGA 10	800 x 600	32.70	51.09	MAC	1280 x 960	75.00	75.08
SVGA 11	800 x 600	38.00	60.51	MAC	1280 x 1024	80.00	75.08
MAC 16	832 x 624	49.72	74.55	WXGA 1	1366 x 768	48.36	60.00
MAC 19	1024 x 768	60.24	75.08	WXGA 2	1360 x 768	47.70	60.00
XGA 1	1024 x 768	48.36	60.00	WXGA 3	1376 x 768	48.36	60.00
XGA 2	1024 x 768	68.677	84.997	WXGA 4	1360 x 768	56.16	72.00
XGA 3	1024 x 768	60.023	75.03	WXGA 6	1280 x 768	47.776	59.87
XGA 4	1024 x 768	56.476	70.07	WXGA 7	1280 x 768	60.289	74.893
XGA 5	1024 x 768	60.31	74.92	WXGA 8	1280 x 768	68.633	84.837
XGA 6	1024 x 768	48.50	60.02	WXGA 9	1280 x 800	49.600	60.050
XGA 7	1024 x 768	44.00	54.58	WXGA 10	1280 x 800	41.200	50.000
XGA 8	1024 x 768	63.48	79.35	WXGA 11	1280 x 800	49.702	59.810
XGA 9	1024 x 768	36.00	87.17 (Interlace)	WSXGA +1	1680 x 1050	65.290	59.954
XGA 10	1024 x 768	62.04	77.07	WXGA +1	1440 x 900	55.935	59.887
XGA 11	1024 x 768	61.00	75.70	WXGA +2	1440 x 900	74.918	60.000
XGA 12	1024 x 768	35.522	86.96 (Interlace)	UXGA 1	1600 x 1200	75.00	60.00
XGA 13	1024 x 768	46.90	58.20	UXGA 2	1600 x 1200	81.25	65.00
XGA 14	1024 x 768	47.00	58.30	UXGA 3	1600 x 1200	87.5	70.00
XGA 15	1024 x 768	58.03	72.00	UXGA 4	1600 x 1200	93.75	75.00
1035i	1920 x 1035	33.75	60.00 (Interlace)	WUXGA 1	1920 x 1200	74.556	59.885
1080i	1920 x 1080	33.75	60.00 (Interlace)	WUXGA 2	1920 x 1200	74.038	59.950
1080i	1920 x 1080	28.125	50.00 (Interlace)				

When the input signal is digital from HDMI terminal, refer to the chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (KHz)	V-Freq. (Hz)
D-480p	640 x 480	31.47	59.88	D-SXGA1	1280 x 1024	63.98	60.02
D-480p	720 x 480	----	59.94	D-SXGA2	1280 x 1024	60.276	58.069
D-480p	720 x 480	----	60.00	D-SXGA3	1280 x 1024	31.65	29.80
D-575p	720 x 575	----	50.00	D-SXGA+ 1	1400 x 1050	63.97	60.19
D-575p	768 x 575	31.25	50.00	D-SXGA+ 2	1400 x 1050	65.350	60.120
D-720p	1280 x 720	37.50	50.00	D-SXGA+ 3	1400 x 1050	65.120	59.900
D-720p	1280 x 720	----	59.94	D-WSXGA +1	1680 x 1050	65.290	59.954
D-720p	1280 x 720	45.00	60.00	D-UXGA	1600 x 1200	75.000	60.000
D-VGA	640 x 480	31.47	59.94	D-WXGA +1	1440 x 900	55.935	59.887
D-VGA	640 x 480	----	60.00	D-1035i	1920 x 1035	33.75	60.00 (Interlace)
D-SVGA	800 x 600	37.879	60.32	D-1080i	1920 x 1080	33.75	60.00 (Interlace)
D-XGA	1024 x 768	43.363	60.00	D-1080i	1920 x 1080	28.125	50.00 (Interlace)
D-WXGA 1	1366 x 768	48.36	60.00	D-1080i	1920 x 1080	----	59.94 (Interlace)
D-WXGA 2	1360 x 768	47.7	60.00	D-1080p	1920 x 1080	----	59.94
D-WXGA 3	1376 x 768	48.36	60.00	D-1080p	1920 x 1080	----	60.00
D-WXGA 4	1360 x 768	56.160	72.000	D-1080p	1920 x 1080	----	50.00
D-WXGA 5	1366 x 768	46.500	50.000	D-WUXGA 2	1920 x 1200	74.038	59.95
D-WXGA 6	1280 x 768	47.776	59.870				
D-WXGA 7	1280 x 768	60.289	74.893				
D-WXGA 8	1280 x 768	68.633	84.837				
D-WXGA 9	1280 x 800	49.572	59.870				
D-WXGA 10	1280 x 800	41.200	50.000				
D-WXGA 11	1280 x 800	49.702	59.810				

✓**Note:**

• When the input signal is D-SXGA 1, D-SXGA 2 or D-SXGA 3, images may not be displayed properly depending on computers.
• The specifications are subject to change without notice.

List of Picture in Picture

Main Window \ Sub Window		Computer1			Computer2	HDMI	Video	S-video	Network
		01)	02)	03)	04)	05)	06)	07)	08)
Computer1	01) RGB (PC Analog)	-			○	○	○	○	○
	02) YCbCr (Component)				○	○	○	○	○
	03) RGB (Scart)				○	○	-	-	○
Computer 2	04) RGB (PC Analog)	○	○	○	-	○	○	○	○
HDMI	05) HDMI	○	○	○	○	-	○	○	-
Video	06) Video	○	○	-	○	○	-	-	○
S-Video	07) S-video	○	○	-	○	○	-	-	○
Network	08) Network	○	○	○	○	-	○	○	-

o : Picture in Picture combinations are enabled
 - : Picture in Picture combinations are disabled

✓**Note:**
• When the input signal(s) is/are incompatible, **X** mark will be displayed on the Main/Sub picture.
• Depending on the frequency or signal type of PC/AV input, the display resolution may be lowered or images may not be displayed on the Main/Sub picture.

<Display resolution is lowered when;>
• Inputting PC analog signals: Between 100-140 MHz

<Images are not displayed and X mark appears when;>
• Inputting PC analog signals: More than 140MHz
• Inputting PC digital signals: More than 100MHz
• Inputting AV digital signals: 1080p

<Picture in Picture is disabled when;>
• Inputting signal formats: SXGA20, WUXGA 1, WUXGA 2, WSXGA+ 1, WXGA+2, UXGA 1, UXGA 2, UXGA 3, UXGA4, D-1080p

Technical Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.16" x 3.09" x 10.14" (334.2 x 78.4 x 257.5mm) (Not including protrusions)
Net Weight	7.94 lbs (3.6 kg)
Feet Adjustment	0˚ to 8.9˚

Panel Resolution

LCD Panel System	0.74" TFT Active Matrix type, 3 panels
Panel Resolution	1,280 x 800 dots
Number of Pixels	3,072,000 (1,280 x 800 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Throw Distance	3.3' (1.0m) - 39.7' (12.1m)
Projection Lens	F1.7–2.5 lens with f=19.2 mm–30.2 mm with manual zoom and focus
Projection Lamp	275 W

Interface

Video Input Jack	RCA Type x 1
S-video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer 1 /Computer2 Audio Input Jacks	Mini Jack x 2
Computer In 1/ Component Input Terminal	Mini D-sub 15 pin x 1
Computer In 2/MONITOR OUT Terminal	Mini D-sub 15 pin x 1
Control port	D-sub 9 pin x 1
USB Connectors	USB connector (Series A x1, Series B x 1)
Audio Output Jack	Mini Jack (stereo) x 1 (variable)
LAN Connection Terminal	100 Base-TX (100Mbps)/10 Base-T (10Mbps), RJ45
HDMI	x 1

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.10" (28 mm)

Power

Voltage and Power Consumption	AC 100–120 V (4.0A Max. Ampere), 50/60 Hz (The U.S.A and Canada)
	AC 200–240 V (2.0A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41˚F–95˚F (5 ˚C–35 ˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60 ˚C)

Remote Control

Battery	AAA or LR03 Type x 2
Operating Range	5 m/±30˚
Dimensions	45 mm (W) x 23 mm (H) x 145 mm (D)
Net Weight	3.5 oz 99 g (including batteries)
Laser Pointer	Class II Laser (Max. Output: 1 mW/Wave length: 640–660 nm)

Accessories
  Owner's Manual (CD-ROM)
  Quick Reference Guide
  Safety Manual
  AC Power Cord
  Remote Control and Batteries
  VGA Cable
  Lens Cap with String
  PIN Code Label
  Network Application (CD-ROM)
  Soft Carrying Case
  USB thumb drive for Auto Capture
  Case (for USB thumb drive)
  Hook and Loop Fastener

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

Optional Parts

The parts listed below are optionally available. When ordering those parts, specify the item name and Model No. to the sales dealer.

Model No.

COMPONENT~VGA Cable	**:** POA-CA-COMPVGA
SCART~VGA Cable	**:** POA-CA-SCART
VGA-Cable (10 m)	**:** KA-MC-DB10

PJ Link Notice

This projector is compliant with PJLink Standard Class 1 of JBMIA (Japan Business Machine and Information System Industries Association). This projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

For PJ Link password, see page 51 on the owner's manual of "Network Set-up and Operation."

| Projector Input		PJLink Input	Parameter
Computer 2 (Analog)		RGB 1	11
HDMI(Digital)		DIGITAL 1	31
Computer 1	RGB	RGB 2	12
	Component	RGB 3	13
	RGB (Scart)	RGB 4	14
Video	Video	VIDEO 2	22
	S-video	VIDEO 3	23
NETWORK		NETWORK 1	51

PJLink is a registered trademark of JBMIA and pending trademark in some countries.

Configurations of Terminals

COMPUTER IN 1 /COMPONENT IN /MONITOR OUT (ANALOG)
### Terminal: Analog RGB (Mini D-sub 15 pin)
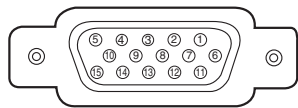
1	Red (R/Cr) Input/Output	9	+5V Power/-----
2	Green (G/Y) Input/Output	10	Ground (Vert.sync.)
3	Blue (B/Cb) Input/Output	11	Ground/-----
4	-----	12	DDC Data/-----
5	Ground (Horiz.sync.)	13	Horiz. sync. Input/Output (Composite H/V sync.)
6	Ground (Red)	14	Vert. sync.
7	Ground (Green)	15	DDC Clock/-----
8	Ground (Blue)		

HDMI (19 Pin Type A)
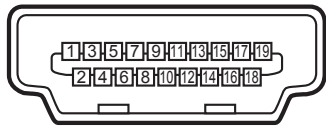
1	TMDS Data 2+ Input	11	Ground (TMDS Clock)
2	Ground (TMDS Data 2)	12	TMDS Clock- Input
3	TMDS Data 2- Input	13	-----
4	TMDS Data 1+ Input	14	-----
5	Ground (TMDS Data 1)	15	SCL
6	TMDS Data 1- Input	16	SDA
7	TMDS Data 0+ Input	17	Ground (DDC/CEC)
8	Ground (TMDS Data 0)	18	+5V Power
9	TMDS Data 0- Input	19	Plug insert detection
10	TMDS Clock+ Input		

USB CONNECTOR (Series B)
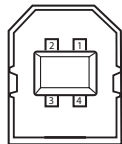
1	Vcc
2	- Data
3	+ Data
4	Ground

LAN TERMINAL
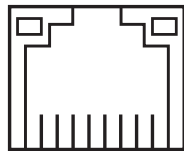
1	TX +	5	-----
2	TX –	6	RX –
3	RX +	7	-----
4	-----	8	-----

87654321

PIN Code Number Memo

Write down the PIN code number in the column below and keep it with this manual securely. If you forgot or lost the number and unable to operate the projector, contact the service station.

PIN Code Lock No.
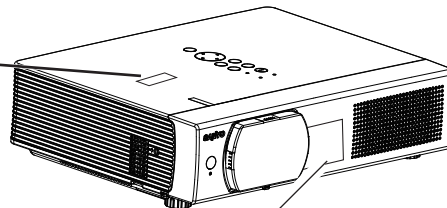
Factory default set No: 1 2 3 4*

Logo PIN Code Lock No.

Factory default set No: 4 3 2 1*

*Should the four-digit number be changed, the factory set number will be invalid.

While the projector is locked with the PIN code.

Put the label below (supplied) on in a prominent place of the projector's body while it is locked with a PIN code.

WARNING
PIN CODE PROTECTED

USB Thumb Drive Case

While the USB thumb drive is not in use, put it in the USB Thumb Drive Case to prevent lose USB theumb drive.
Use hook and loop fastener, the USB Thumb Drive Case will be a fixed place on the projector.
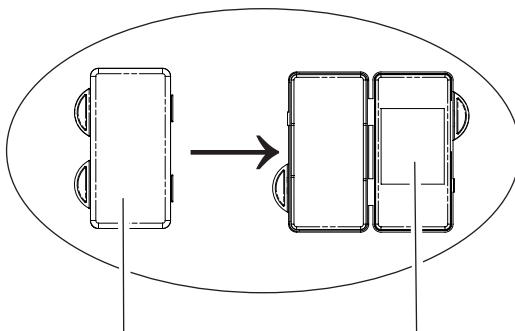
USB thumb drive case
(supplied)

Hook and loop fastener
(supplied)

Dimensions

Unit: inch (mm)

Screw Holes for Ceiling Mount
Screw: M4
Depth: 12.0(0.472)

13.16(334.2)

3.17(80.5)

2.14(53.8)

3.09(78.4)

3.66(93.0)

8.9° MAX

10.14 (257.5)

5.08(129.0)

5.20(132.0)

2.78(70.5)

5.51(140.0)

5.08(129.0)

4.43(112.5)