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Safety Instructions

Before operating this projector, read this manual thoroughly in order to operate the projector properly.
This projector offers many convenient features and functions. Operating the projector properly enables you to manage those features and maintain it in good condition for a long period.
Improper operation may result in not only reducing the product-life, but also malfunctions, fire hazards, or other accidents.
If your projector is not operating correctly, read this manual again, check operations and cable connections, and try the solutions shown in the "Troubleshooting" section at the end of this booklet. If the problem still persists, contact the service center or the dealer where you purchased the projector.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMPS. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS FOR THIS UNIT IN THE OWNER'S MANUAL.

CAUTION
SAFETY INSTRUCTIONS

**Safety Precautions**

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- This projector projects intense light from the projection lens. Do not stare directly into the lens if possible, as doing so may result in eye damage. Be especially careful that children do not stare directly into the beam.
- Install the projector in an appropriate position. Installing the projector in an inappropriate position may result in a fire hazard.
- Allow for appropriate space above beside and behind of the projector cabinet for allowing air circulation and cooling of the projector. Minimum clearances must be maintained. If the projector is to be built into a compartment or similarly space, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.

- Do not put any flammable objects or spray cans near the projector, as the hot air exhausted from the ventilation holes may result in an explosion.
- If the projector is not to be used for an extended period of time, unplug it from the power outlet.
READ AND KEEP THIS OWNER’S MANUAL FOR LATER USE.

All the safety and operating instructions should be read before beginning to operate the product.

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

Follow all warnings and instructions marked on the projector.

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

Do not expose this unit to rain or use 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 result in hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should be carried out in accordance with the manufacturer’s directions, and should use a mounting kit approved by the manufacturers. An appliance and cart combination should be moved with care. Sudden stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.
SAFETY INSTRUCTIONS

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the projector.

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

This projector should be operated using only the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by people walking on it.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power cord or plug is damaged or frayed.

b. If liquid has been spilled into the projector.

c. If the projector has been exposed to rain or water.

d. If the projector does not operate normally after following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operating condition.

e. If the projector has been dropped or the cabinet has been damaged.

f. When the projector exhibits a distinct change in performance-this indicates a need for servicing.

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

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.
AC Power Cord Requirement

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

AC Power Cord for the United States and Canada:
The 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).
The AC Power Cord has a grounding-type AC line plug. This is a safety feature to ensure the plug fits into the power outlet. Do not try to tamper with this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.

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

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.

European Union (and EEA) only.
These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC), the Battery Directive (2006/66/EC) and/or your national laws implementing those Directives. If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit www.canon-europe.com/environment.

(EEA: Norway, Iceland and Liechtenstein)
Federal Communication Commission Notice

Multimedia Projector, Model: SX7 MarkII/SX60

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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.

The cable with a ferrite core provided with the projector must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules. Use of a 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.

Canon U.S.A. Inc.
One Canon Plaza, Lake Success, NY 11042-1198, U.S.A.
Tel No. (516) 328-5600

Canadian Radio Interference Regulations

This Class B digital apparatus complies with Canadian ICES-003.
Precautions on Handling the Batteries in the Remote Controller

Observe the following precautions when handling the batteries. Failure to do so may cause explosion, heat generation, fire, or leakage of the battery fluid.

- Do not heat or disassemble the batteries, or throw them into fire.
- Do not attempt to recharge the batteries.

Lamp Handling Precautions

This projector uses a high-pressure mercury lamp which must be handled carefully and correctly as mentioned below.

The mercury lamp has the following characteristics.

- A lamp may explode with a loud sound or burn out due to a shock, scratch, or use beyond its expiry date.
- The lamp life may differ from lamp to lamp and according to the usage environment. There is no guarantee that all lamps will last for the same period of time. Some lamps may fail in a shorter period of time than other similar lamps.
- A lamp gradually becomes darker over time.

If a Lamp Explodes

- If a lamp explodes, gas or dust may come out of the exhaust vent. Open windows and doors for ventilation.
- The gas contains toxic mercury. Always keep your face away from the exhaust vent when the projector is operating to avoid inhaling mercury vapors or to prevent it from getting in your eyes or mouth.
- If you inhale the gas or the shards of the broken lamp contact your eyes or mouth, consult a doctor immediately.
- If a lamp explodes, its shards may scatter inside the projector. Ask the Canon service representative to clean and check the inside of the projector and replace the lamp.

If the projector indicates that the lamp should be replaced (i.e., the LAMP REPLACE indicator lights up twice),

- The chances of an explosion increase. Replace the lamp with a new one immediately if such is the case.
**Disposal of Waste Lamp**

- Dispose of the projector’s mercury lamp according to local regulations just like the fluorescent lamps.

---

**Carrying/Transporting the Projector**

- This projector is a precision machine. Do not subject the projector to strong shocks or vibrations or turn it down.
- Install the lens cap to protect the lens and put the projector in the carrying bag to protect it from dust and scratches on the surface of it when you carry the projector. For details, see P21.
- Wait until the cooling fan stops before putting the projector in the carrying bag. Do not put the projector in the carrying bag until the cooling fan stops rotating. The projector may be damaged due to the heat.
- Replace the adjustable foot before putting the projector in the carrying bag. The projector may be damaged if you put it in the bag without replacing the adjustable foot.
- The carrying bag is not designed to protect the projector from external shocks. When carrying the projector with it put in the carrying bag, do not give a shock to it, drop it, or place anything on it. The projector may be damaged or malfunctioned.
- Do not transport the projector through a courier or transport service with the carrying bag. Put the projector in an impact-resistant transport case if such is the case.

---

**Installation Precautions**

The area around the exhaust vent and the cabinet above the exhaust vent become hot when the projector is operating.

- Do not touch these areas, or you may get burnt. In particular, keep children away from these areas. Do not put anything that may deform or discolor due to heat on the projector.

Hot air is exhausted from the exhaust vent. Observe the following:

- Do not put any metallic object on the projector. It may become hot, resulting in accident or injury.
- Do not seat anyone near the exhaust vent. Otherwise, you may get burned.
When placing the projector on a castered stand or table, be sure to lock the casters.
  - Failure to do so may cause the projector to move or topple, resulting in an injury.

Position the projector in a horizontal position. Incorrect installation may cause troubles and accidents.
  - Do not tilt the projector more than 20 degrees above and below the horizontal.
  - When you want to use your projector pointing up or down, make sure to place the projector straight up or down.

Do Not Use in the Following Environments
  - Do not place the projector on an unstable or slanted surface. The projector may fall causing a personal injury.
  - Do not place it in an oily, smoky, or damp location (e.g., near a cooking table or a humidifier). It may cause a fire or an electric shock.
  - Place the projector with a minimum distance of 1 m (3.3') from its left, right, rear, and top panels to the neighboring object such as a wall. Otherwise, it may damage the projector due to bad exhaust ventilation.
  - Do not put anything near the exhaust vent that may deform or deteriorate due to heat.
  - Do not install the projector in a humid or dusty location or a position where there is a lot of oily or cigarette smoke. Optical parts such as a lens and mirror may be stained, resulting in poor picture quality.
  - Do not place it near an exhaust outlet of air-conditioning equipment. Otherwise, it may be damaged.

If the projector is carried from a cold place to a warm place or the room temperature is raised rapidly, condensation may form on the lens and mirror due to the moisture in the atmosphere, resulting in a blurred picture. Wait until condensation evaporates and normal picture is shown.

Do not use the projector in a place subject to either very high or very low temperatures. Doing so may cause malfunction. The ranges of the operating and storage temperatures are as shown below:
Operating temperature: +5°C to +35°C (Humidity: 85% or below)
Storage temperature: -10°C to +60°C

Using the Projector at 2300 Meters or More Above Sea Level
  - If you use the projector at 2300 meters or more above sea level, the special configuration is required to cool down the projector properly. Contact your dealer.
Features of the Multimedia Projector
SX7 MarkII/SX60

Thank you for purchasing a Canon projector. The MULTIMEDIA PROJECTOR SX7 MarkII/SX60 are high-performance projectors which project the data from the computer and the moving picture from the DVD player to the big screen.

Major Features

Smooth and Beautiful Imaging Capability
Incorporation of AISYS, Canon’s unique optical engine, and LCOS (Liquid Crystal On Silicon) achieves high brightness, high contrast ratio, and smooth and beautiful lattice-free images.

Super-Silent Operation of 27dB* (SX60)
This projector achieves super-silence operation as low as 27dB which creates a comfortable atmosphere where you can concentrate on watching a movie.
* At the [Quiet] lamp mode.

Native SXGA+ Resolution
Native SXGA+ resolution (1400 by 1050 dots) ensures projection of a high-quality image in a wider projection area with a high degree of resolution.

High-powered 1.7X Zoom Lens
1.7X zoom aspheric lens can project a 100-inch image when placed 3 m (9.8') to 4.9 m (16.0') away.

"Auto Setup Function" for Easy Installation
The "Auto Setup Function" allows you to install the projector easily by automatically adjusting focus and keystone distortion.

Adobe®RGB Color Space Compatibility (SX7 II)
AdobeRGB color space compatibility achieves faithful color reproduction.

"Home Cinema" Mode Reproducing the Atmosphere of a Movie Theater (SX60)
You can reproduce the atmosphere of a full-scale movie theater in your home by selecting "Home Cinema" from the image mode.

"Off and Go" Function Allowing the Carriage Immediately After the Use
You can carry the projector immediately after the use because the cooling fan keeps rotating even if the power cord is removed from the electrical outlet.
* Never put the projector in the bag when the cooling fan is rotated.

Various Image Modes for a Particular Use of Your Projector (SX7 II)
When projecting a digital still photo image or an image that has been processed on an sRGB-compatible monitor, you can project the image with higher tone on the screen by incorporating the appropriate image correction function for the particular lighting environment.
It is useful when projecting the image in a photo studio, portrait studio, wedding reception hall, art museum, gallery, etc.
Supplied Manuals and Symbols Used in This Manual

Supplied Manuals

User’s Manual (This Document)
This is a universal manual for the projector, SX7 MarkII/SX60. This manual provides detailed information on how to use the projectors. Read this manual thoroughly to make the most of your projector and ensure safety.

Important Information and Quick Start Guide
First read document. It provides information about projector safety, cautions, quick start guide*, cleaning and replacing the air filter and lamp replacement.
* This guide shows an outline flowchart of the steps to start and stop the projector, as well as the functions available for projecting images.

Symbols of Button Operations
This projector can be operated using buttons on the remote control or the top control on the main unit. The remote control allows you to operate all functions of the projector. In this manual, the button operation is shown as below.

Symbols Used in This Manual
Meanings of the following symbols used in this manual are as follows:

(SX7 II) Function or description only applicable to SX7 MarkII.

! A precaution about operation or restriction is given here.

Remarks An important matter that you should be aware of before operation or a useful tip is provided here.

---

Adjusting the Focus

You can adjust the focus.
Follow the steps below to adjust the focus manually if the Auto setup function (Auto focus) does not adjust the focus appropriately.

1. Press the [FOCUS] button. The Focus adjustment window appears.

---

Indicates the button operation on the top control.
Indicates the button operation on the remote control.
Indicates the button to be pressed.
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Supplied Accessories

Check whether the following accessories are supplied with the projector.

- Remote control
- Batteries (type AAA, two) for remote control
- Computer connection cable (DVI/Mini D-sub, 15-pin) (1.8m/5.9') YH7-2052
- Power cord (1.8m/5.9')
- USB cable (1.8m/5.9') YH7-2054
- Component cable (RCA/Mini D-sub, 15-pin) (0.4m/1.3') YH7-2084
- Carrying bag
- Lens cap
- Lens cap strap

For Continental Europe

For the U.S.A and Canada

- User's Manual (CD-ROM)
- Warranty card
- Important Information and Quick Start Guide
Installing the Lens Cap
As shown in the illustration on the right, let the lens cap strap through the hole on the lens cap, and then the lens cap strap insertion hole.

- When the projector is not in use, attach the lens cap to protect the lens from dust and other foreign objects.

Putting the Projector in the Carrying Bag
Store the projector and the accessories in the carrying bag as shown in the illustration below.
The carrying bag is intended to protect the surfaces of the projector from dust or scratches, and is not designed to protect the projector from external shocks.

- User's Manual (CD-ROM)
- Important Information and Quick Start Guide
- Cables
- Remote control

- Align the lens with the dimple on the cushioning material.

- Wait until the cooling fan stops before putting the projector in the carrying bag. Do not put the projector in the carrying bag until the cooling fan stops rotating. The projector may be damaged due to the heat.
- Attach the lens cap to the lens to protect it and put the projector in the carrying bag. Replace the adjustable foot to prevent the damage on the projector.
- When carrying the projector with it put in the carrying bag, do not give a shock to it, drop it, or place anything on it. The projector may be damaged or malfunctioned.
Part Names

Main Unit of Projector  (SX7 MarkII is used in the following illustrations)

Front Side

- Infrared Remote Receiver (P29)
- Ranging Window
- Lens
- Adjustable Foot Lock Button (P43)
- Power Cord Connector (P40)
- Lens Cap (P21)

**Caution**
- Do not place any obstacle between the projector and the screen, as the auto focusing function may fail to operate correctly.
- Be sure to remove the lens cap during projection. Failure to do so will result in cap deformation or fire hazards.

Anti-theft Lock Hole
An anti-theft wire cable on the market can be connected.

Rear Side

- Top Control (P24, 25, 28)
- Speaker
- Exhaust Vent
- Infrared Remote Receiver (P29)

**Caution**
- Do not block the air exhaust. Failure to do so will result in malfunctions or fire hazards.
### Bottom Side

- **Lens Cap Strap Insertion Hole**
- **Adjustable Foot (P43)**
- **Air Intake Vent**
- **Lamp Cover (P123)**
- **Rear Adjustable Foot (for fine adjustment)**
- **Air Filter (P121)**
- **Screw Holes for installation of ceiling mounting bracket (M4 x 6) (P139)**

#### Mounting the Projector on the Ceiling

You can mount the projector on the ceiling. You need an optional ceiling-mount hanger (part number: RS-CL07) and an optional ceiling-mount pipe (part number: RS-CL08 or RS-CL09) when appropriate. Contact the dealer where you purchased the projector for more detailed information.

- Make sure to use the optional ceiling mounting bracket.
- You should never install the ceiling mounting bracket by yourself.
- If you mount the projector on the ceiling, you have to invert the projected image by selecting [Image flip H/V] from the menu (P97).
This projector can be operated using buttons on the remote control or the top control on the main unit. The remote control allows you to operate all functions of the projector.

(1) Infrared Remote Emitter
   Sends a signal to the infrared remote receiver on the main unit.
(2) POWER button (P40, 60)
   Turns the projector on or off.
(3) AUTO SET button (P46, 70)
   Performs auto adjustment on focusing, keystone distortion, screen color correction, and so on (Auto Setup Function).
(4) IMAGE button (P55)
   Switches among image modes (image qualities).
(5) INPUT button (P48, 50, 70)
   Switches among input signals.
(6) AUTO PC button (P54)
   Adjusts tracking and so on automatically in accordance with signal from a computer when ANALOG PC-1 or ANALOG PC-2 is selected.
(7) FOCUS button (P51)
   Adjusts focusing.
(8) ZOOM button (P42)
   Adjusts the image size.
(9) OK button (P89)
   Determines the item selected from the menu. Also works as the left button of a mouse under the USB connection (P82).
(10) POINTER button (P87)
Selects the upper, lower, left, or right item in the menu. Also moves the mouse cursor under the USB connection.
On the top control, the [<] and [>] buttons also turn the volume up and down, respectively (P79).

(11) KEYSTONE button (P52, 59)
Corrects keystone distortion. The [D. image shift adjustment] screen will be displayed if you select [16:9 D. image shift] for [Screen aspect].

(12) MENU button (P87)
Displays a menu on the screen.

(13) PAGE button (P80)
Acts as the Page Up and Page Down keys on the computer keyboard under the USB connection.
Pressing \(\uparrow\) scrolls to the previous page and pressing \(\downarrow\) scrolls to the next page.

(14) D.ZOOM button (P81)
Zooms the image in or out digitally.
Pressing \(\uparrow\) enlarges the image and pressing \(\downarrow\) reduces the image.

(15) SPOT button (P83)
Performs the spot light function.

(16) R-CLICK button (P82)
Acts as the right button of a mouse under the USB connection.

(17) NO SHOW button (P78)
Switch display/non-display of image.

(18) MUTE button (P79)
Mutes the sound.

(19) VOL button (P79)
Adjusts the sound volume.

(20) FREEZE button (P78)
Freezes the projected image.

(21) P-TIMER button (P80)
Displays the time elapsed since this button was pressed.

(22) LIGHT button (P29)
Turns on or off the lights of the remote control buttons.
Input Terminals on Main Unit

SX7 MarkII

SX60
(1) **Input Terminal-1 (DIGITAL IN/ANALOG IN-1) (P36, 37, 65)**
Receives a digital (DIGITAL PC) and analog PC signal (ANALOG PC-1).
Receives a digital content image signal (DIGITAL VIDEO).

(2) **Input Terminal-2 (ANALOG IN-2) (P36, 37, 64)**
Receives an analog PC signal (ANALOG PC-2).
Receives a component and SCART image signal (COMPONENT/SCART).

(3) **Monitor Output Terminal ( ) (P38)**
Outputs an analog PC signal to display an image on an external monitor.

(4) **AUDIO OUT terminal (SX7 II) (P68)**
The audio output terminal to output an audio to an external audio device.
It outputs the audio signal corresponding to the projected image signal.

(5) **AUDIO IN terminal (P38, 39)**
SX7 II: The audio input terminals corresponding to 3 image input systems.
Each terminal receives the audio signal corresponding to "DIGITAL PC/ANALOG PC-1", "ANALOG PC-2", and "S-VIDEO or VIDEO" from the left.
The internal speaker outputs the audio signal corresponding to the selected image signal.
SX60: The input terminal of an audio signal.
The internal speaker outputs the audio signal no matter what the image signal is inputted.

(6) **VIDEO IN terminal (P66)**
Receives a composite video signal from an AV equipment.

(7) **S-VIDEO IN terminal (P66)**
Receives an S-Video signal from an AV equipment.

(8) **SERVICE PORT jack**
Exclusively used by the service personnel (it is not used normally).

(9) **USB terminal (P82)**
Connected to the computer with a USB cable when the remote control is used as the mouse of the computer. (you cannot use this terminal to receive any video image)

(10) **Input Terminal Indicator (P48, 70)**
Indicates the input signal status.
Green : The input signal is confirmed and an image is projected.
Flashing green : The input signal is confirmed but no image is projected.
Off : An input signal is not confirmed (a cable is not connected).
Indicators on the Top Control

Top Control

(1) POWER indicator (P40, 60, 111)
Indicates the projector status.
- Red: The projector can be turned on.
- Flashing red: The projector is being turned off (the lamp is being cooled).
- Green: The projector is on.
- Flashing green: The projector is being turned on.
- Blink between red and green: The projector is under the power management mode.

(2) WARNING lamp (P126)
Flashes red when a problem has been detected on the projector.

(3) LED illumination lamp (P115)
Indicate the projector status with 3 blue LEDs.
- Blinking from the left: The projector is being turning on.
- Blinking from the right: The projector is being turned off.
- Middle LED flashing slowly: The image is blackened out (NO SHOW).
- Left and right LEDs flashing slowly: The image is stopped (FREEZE).
Preparing the Remote Control

Installing Remote Control Batteries

1. Open the battery compartment lid.
   Slide the lid with it pressed down.

2. Insert batteries.
   Insert new two AAA-size batteries in the compartment with the + and - poles positioned correctly.

3. Replace the compartment lid.

- You can check the batteries of the remote control by pressing the [LIGHT] button.
  If all buttons on the remote control do not light when the [LIGHT] button is pressed, or buttons are inoperative when you attempt to operate the projector, replace with new batteries.
- It is recommended to check the batteries before a presentation.

Remote Control Operating Range

Point the remote control to the infrared remote receiver on the front or rear of the projector whenever pressing any button.
- Use the remote control within a distance of approximately 5 m (16.4') from the projector.
- Use the remote control within an angle of 30° in any direction from directly in front of the infrared remote receiver.

The remote control may be inoperative if:
- There is an obstacle between the remote control and main unit.
- The infrared remote receiver on the main unit is exposed to direct sunlight or strong light of lighting equipment.

- The remote control uses infrared light.
- When you use two projectors at the same time, you can change the channel settings to prevent the two remote controls from interfering with each other (P115).
SETTING UP THE PROJECTOR
Setting Up the Projector

Determining the Distance to the Screen

The projected image size is determined by the distance between the projector lens and the screen. Select the place where the desired image size is obtained according to the illustration shown below.

![Illustration of projector setup](image)

<table>
<thead>
<tr>
<th>Screen size (W x H) cm</th>
<th>40&quot;</th>
<th>60&quot;</th>
<th>80&quot;</th>
<th>100&quot;</th>
<th>150&quot;</th>
<th>182&quot;</th>
<th>200&quot;</th>
<th>250&quot;</th>
<th>300&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>81 x 61</td>
<td>122 x 91</td>
<td>163 x 122</td>
<td>203 x 152</td>
<td>305 x 229</td>
<td>370 x 277</td>
<td>406 x 305</td>
<td>508 x 381</td>
<td>610 x 457</td>
</tr>
<tr>
<td>Projection distance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoom (max)</td>
<td>1.2 m (3.9')</td>
<td>1.8 m (5.9')</td>
<td>2.4 m (7.9')</td>
<td>3.0 m (9.8')</td>
<td>4.5 m (14.8')</td>
<td>5.4 m (17.7')</td>
<td>5.9 m (19.4')</td>
<td>7.4 m (24.2')</td>
<td>8.9 m (29.2')</td>
</tr>
<tr>
<td>Zoom (min)</td>
<td>2.0 m (6.6')</td>
<td>2.9 m (9.6')</td>
<td>3.9 m (12.9')</td>
<td>4.9 m (16.1')</td>
<td>7.4 m (24.2')</td>
<td>9.0 m (29.5')</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Optical axis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H1</td>
<td>55 cm (1.8')</td>
<td>82 cm (2.7')</td>
<td>110 cm (3.6')</td>
<td>137 cm (4.5')</td>
<td>206 cm (6.8')</td>
<td>250 cm (8.2')</td>
<td>274 cm (9.0')</td>
<td>343 cm (11.3')</td>
<td>411 cm (13.5')</td>
</tr>
<tr>
<td>H2</td>
<td>6 cm (0.2')</td>
<td>9 cm (0.3')</td>
<td>12 cm (0.4')</td>
<td>15 cm (0.5')</td>
<td>23 cm (0.8')</td>
<td>28 cm (0.9')</td>
<td>30 cm (1.0')</td>
<td>38 cm (1.2')</td>
<td>46 cm (1.5')</td>
</tr>
</tbody>
</table>

H1 and H2: The height of the screen from the intersection of optical axis and screen surface when an image is projected at right angle to the screen.

- Install the projector at the position where the projection distance is between approximately 1.2 m (3.9') to 9 m (29.5'). If the installation position is too close or too far, the image is out of focus or the screen becomes dark, respectively.
- The sizes in the above table have been obtained assuming that the aspect ratio is 4:3. They may vary from the actual sizes depending on the type of the projected image.
- Select the appropriate setting for [Screen aspect] with respect to the your screen (4:3 or 16:9).
Refer to pages 59, 74, and 101 for more detailed information on [Screen aspect].

- For the relationship between the screen size and projection distance, see the table on page 133.
- You can also adjust the image size with the zoom function (P42).
Determining the Installation Position

Placing in Front of the Screen
Place the projector perpendicular to the screen as far as possible.

- A slight error in the projection angle can be corrected using the [KEYSTONE] button (P52).

Placing on a Level Place
Place the projector on a level place as far as possible.

- A slight tilt can be corrected using the rear adjustable foot. (P43)
- Make sure that the installation position is free from any obstacle that may block the exhaust vent (fan) on the right side of the projector and the air intake vent on the bottom of the projector.
- The screen must not be exposed to direct sunlight or light from lighting equipment. In a bright room, it is recommended to limit ambient lighting in order to improve the image quality.

Ceiling Mounting or Rear Projection
You can mount the projector on the ceiling (Ceiling mounted) with it turned up side down or place it behind the screen (Rear) if you use a translucent screen. For ceiling mounting or rear projection, you have to invert the projected image. (P97).
PROJECTING AN IMAGE FROM THE COMPUTER
To ensure projection of high-resolution high-quality images, it is recommended to use high-performance cables.

An adapter may be required depending on the shape of the connector on the computer. For more detailed information, refer to your computer's instruction manual.
Before connecting cables, turn off both the projector and computer.

- It may project an image inappropriately when projecting the digital PC signal in 1280 x 1024 or 1400 x 1050 depending on the type of computer or DVI cable.
- The USB terminal is used to use the remote control as the computer mouse. An image cannot be projected simply by connecting the USB cable.

![DVI cable diagram](image1)

**DVI cable**

To monitor output terminal (DVI terminal)

Optional DVI digital cable [LV-CA29]

Input Terminal-1 (DIGITAL IN)

Input Signal: Select [DIGITAL PC] (P48)

![5-BNC cable diagram](image2)

**5-BNC cable**

To monitor output terminal (5-BNC output terminal)

Commercial 5-BNC cable (for 5-BNC/mini D-Sub 15-pin)

Input Terminal-2 (ANALOG IN-2)

Input Signal: Select [ANALOG PC-2] (P50)
### Connecting to an External Monitor

You can display an image from the projector to an external monitor.

- You can connect one external monitor. The multi-monitor display is not supported.
- The projected image is displayed on the external monitor.
- You cannot output the input signal to the external monitor if it is DIGITAL PC.

### Connecting to AUDIO IN Terminals (SX7 II)

Connect an audio cable to the AUDIO IN terminal corresponding to the input image signal if you want to use the projector’s speaker.

- The speaker outputs the audio signal corresponding to the selected image signal.
- Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.
- Connect the audio cable between the AUDIO OUT terminal and an external audio-visual equipment if you want to output the audio signal to the audio-visual equipment (P68).
- The built-in speaker is monaural.
Connecting to AUDIO IN Terminals (SX60)

Connect the audio cable to the AUDIO IN terminal if you want to use the projectors speaker.

- Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.
- The built-in speaker is monaural.
- The speaker plays the sound from the equipment which the audio cable is connected to regardless of the image input signal.
Starting Projection

Connect the power cord and turn on the projector to start the projection.

Once the projector is turned off, it cannot be turned on for a while. Wait until the lamp is cooled down and the [POWER] indicator lights in red.

Connect the Ground Terminal
Connect the ground terminal on the power plug to ground. Otherwise, the operating computer may suffer electromagnetic radiation problems and poor reception by TV and radio.

Caution

Unplug the Power Cord When the Projector is Not in Use
The projector constantly consumes approximately 7W power even when it is turned off. To ensure safety, malfunction prevention, and power saving, remove the power plug from the AC outlet when the projector is not used for an extended period of time.

1. Connect the power cord.
   Fully insert the power cord plug into the socket.
   The [POWER] indicator flashes red.

2. Remove the lens cap and press the [POWER] button.
   The [POWER] indicator flashes green, and then lights in green.

Do you know about Auto Setup?
It automatically performs the focus adjustment, keystone adjustment, input signal settings, and screen color adjustment for projecting an optimum image.

OK
The countdown window is displayed for approximately 20 seconds, and then the guiding message for the auto setup function appears. Adjust the focus by performing the auto setup or the focus adjustment if you cannot read the message due to out of focus. (P46, 51) The LED illumination lamp blinks blue until the projection is started. To project an image immediately, press the [OK] button.

- Enter a password if the Password input screen appears (P116, 117).
- You can turn on the projector by connecting the power cord without pressing the [POWER] button (direct power on) (P112).
- You can display a specified Logo on the countdown screen (P100).
- You can specify whether to enable or disable the LED illumination lamp (P115).
- You can skip the countdown window (P100).

**Selecting a Language**
A window appears when the projector is turned on for the first time. You can select a language to be used by the projector for displaying menus and so on in the window. Select your language as shown below.
Select a language with the POINTER buttons and press the [OK] button.

An item highlighted in orange will be selected.

- Adjust the focus by performing the focus adjustment if it is out of focus (P51).
- You can change the language from the menu at a later time (P113).
Adjusting the Image

Adjusting the Image Size (ZOOM)
Adjust the image size in accordance with the screen.

1. Press the [ZOOM] button.
   The Zoom adjustment window appears.

2. Adjust the image size.
   Zoom in:
   Press [\] for rough adjustment.
   Press [>] for fine adjustment.
   Zoom out:
   Press [v] for rough adjustment.
   Press [<] for fine adjustment.

3. Press the [OK] button.

   Change the projector installation position if your desired image size is too large or too small to adjust with the zoom function (P32).
Adjusting the Projection Angle
You can adjust the projection angle with the adjustable foot.

1. Lift the front side of the projector and push the adjusting foot lock button.
The adjustable foot extends.

2. Adjust the projection angle while pushing the adjustable foot lock button, and then release the lock button.
The adjustable feet is fixed.

- With the adjustable foot, the projection angle can be adjusted up to 10 degrees.
- If the projector is tilting in the lateral direction, use the rear adjustable feet on both sides to adjust its angle. You can adjust up to 10mm with one foot.

If Keystone Distortion is Too Large
Extending the adjustable foot too far causes keystone distortion. If the distortion is too large, adjust the height of the projector with a pedestal.
The keystone distortion can be corrected with the Auto keystone function or by pressing the [KEYSTONE] button. (P46, 52, 70)
Preparing the Computer

Determining the Output Resolution of the Computer
To make the most of the display performance of this projector, set output signal resolution of the computer to an optimum value.

Windows 7
1. Open the [Control Panel] from the start menu, then select [Appearance and Personalization] – [Adjust screen resolution] in the [Control Panel Home].
2. Click the [Resolution] pull-down menu and move the slider to select "1400 x 1050". If this resolution is not available, select the highest resolution under 1400 x 1050.
3. Click the [OK] button.

Windows Vista
1. Open the [Control Panel] from the start menu, then select [Appearance and Personalization] – [Adjust screen resolution] in the [Control Panel Home].
2. Select "1400 x 1050 pixels" or a resolution closest to the output signal resolution of the computer.
3. Click the [OK] button.

Windows XP
1. Right-click on the desktop background and select [Properties] to open the [Display Properties].
2. Click the [Settings] tab, and under [Screen Resolution], select "1400 x 1050 pixels" or a resolution closest to the output signal resolution of the computer.
3. Click the [OK] button.
Macintosh OSX

1. Open the Apple Menu and select [System Environment Setting].
2. In the System Environment Setting window, click the [Displays] icon to display the Display window.
3. Select the [Display] tab and select "1400 x 1050" or a resolution closest to the output signal resolution of the computer from the [Resolution] list.

Projecting the Image from the Notebook Computer

You can turn on the external monitor output via keyboard operation. To turn on the external monitor output, press an icon for an external monitor or a function key ([F1] to [F12]) while holding [Fn] key down.

For SX7 MarkII/SX60

- If the display resolution of the computer is set to SXGA (1280 by 1024 dots) or WXGA (1280 by 768 dots), it is recommended to select [True size] as the screen mode (P90).

- The function keys you use and the method used to turn on the external monitor output vary depending on the model. For details, see the instructions of your notebook computer.
Performing the Auto Setup

With the auto setup function, the following set of adjustments is performed automatically when projecting an image from a computer. You can start the projection only with this operation if the input signal has been appropriately selected.

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto focus</td>
<td>Adjusts the focusing automatically.</td>
</tr>
<tr>
<td>Auto keystone</td>
<td>Corrects the keystone distortion (in the vertical direction) automatically.</td>
</tr>
<tr>
<td>Auto input</td>
<td>Sets the image input signal automatically.</td>
</tr>
<tr>
<td>Auto screen color*</td>
<td>Performs the screen color correction (white balance adjustment) automatically.</td>
</tr>
</tbody>
</table>

*: This is not enabled at the factory.

- Among 4 functions above, the function that has been enabled in the menu is performed during the auto setup. "Auto focus", "Auto keystone", and "Auto input" are enabled in the factory.
- You can manually set or adjust each function. You can set or adjust a specific function independently if you press the [AUTO SET] button during the manual adjustment.
- Select [Greenboard] from [Screen color] when using a greenboard (dark green) as a screen (P98).
- The auto focusing and the screen color correction may not be performed properly depending on the brightness of the room or the condition of the screen. Adjust the image manually if such is the case.
- If you select [16:9] for [Screen aspect], [Auto screen color] may not correct the screen color properly. If such is the case, correct it manually.
- If you select [16:9 D. image shift] for [Screen aspect], the auto setup function will be disabled.
- If you project an image straight up or down, [Auto focus] and [Auto keystone] will be disabled.

1. Select an input signal.
   Select an appropriate input signal by following the steps in the "Selecting an Input Signal" section at the page 48 if you change the input signal due to changing the connection to the computer or so.
   Skip this step if you have not changed the input signal since the last projection.
2 Press the [AUTO SET] button.
The Auto setup window appears.

3 Press the [AUTO SET] button again.
One or more functions highlighted in black are performed automatically.

- You can perform this step by selecting [OK] with the [<] button, and then pressing the [OK] button.
SELECTING AN INPUT SIGNAL

You can select an input signal type.

Select an input signal from the followings:
ANALOG PC-1: Analog signal Connecting with a DVI/Mini D-sub 15-pin cable (supplied cable)
DIGITAL PC: Digital signal Connecting with a DVI digital cable
ANALOG PC-2: Analog signal Connecting with a VGA cable or 5-BNC cable

Select an appropriate input signal before starting the auto setup function by following the steps below if you change the input signal due to changing the connection to the computer or so.

- An LED for a terminal flashes in green if a cable is connected and an input signal is confirmed. An LED for a terminal turns on if the projected image is obtained through the terminal (P26, 27).
- Connecting a DVI cable to Input Terminal-1, select the appropriate input signal with the [INPUT] button in accordance with the setting on the computer (digital signal/analog signal).

**Selecting [ANALOG PC-1] or [DIGITAL PC]**

1. Press the [INPUT] button.
   The [INPUT] window appears.

2. Select [ANALOG PC-1] or [DIGITAL PC] in the menu with the [INPUT] button.
   The selection is toggled through available input signal types from above.

- You can select any input signal type from all options through the [v] / [^] button.
3 If the target input signal is unavailable from the list at the left, press the [>] button, and then press the [✓] / [▲] button to select the target input signal from the list at the right.

4 Press the [OK] button.
1 Press the [INPUT] button.
The [INPUT] window appears.

2 Select the second top item in the menu with the [INPUT] button.
The selection is toggled through available input signals from above.

3 If the ANALOG PC-2 is unavailable from the list at the left, press [>] and then press [\(\downarrow\)] / [\(\uparrow\)] to select the ANALOG PC-2 from the list at the right.

4 Press the [OK] button.
Adjusting the Focus

You can adjust the focus.  
Follow the steps below to adjust the focus manually if the Auto setup function (Auto focus) does not adjust the focus appropriately.

1. **Press the [FOCUS] button.**  
The Focus adjustment window appears.

2. **Press the POINTER buttons to adjust the focus.**

   - Rough adjustment: [▼] [▲]
   - Fine adjustment: [<] [>]

3. **Press the [OK] button.**

   - You can activate the Auto focus function if you press the [AUTO SET] button now. However, if you select [16:9 D. image shift] for [Screen aspect], the auto focus function will be disabled.

   - The projected image may be out of focus if the projection distance is beyond the range of 1.2 m (3.9') to 9 m (29.5'). Move the projector installation position if such is the case (P32).
Adjusting Keystone Distortion

The Auto setup function (Auto keystone) automatically adjusts the keystone distortion in a longitudinal direction. Follow the steps below if the function does not adjust the distortion appropriately or you want to adjust the keystone distortion in a horizontal direction.

1. Press the [KEYSTONE] button.
   The [Keystone adjustment] windows appears.

2. Press the POINTER buttons to adjust the focus.

   - To reduce the length of the upper edge, press [\].
   - To reduce the length of the lower edge, press [v].
   - To reduce the length of the left edge, press [<].
   - To reduce the length of the right edge, press [>].

You can activate the Auto keystone function if you press the [AUTO SET] button now.
3 Press the [OK] button.

- The result of keystone adjustment is memorized. If you place the projector at the same position, the keystone adjustment is not necessary.
- When the Keystone adjustment is selected, signals are processed digitally. The image may look different from the original one.
- The aspect ratio of the image may change after the keystone adjustment.
- Keystone can be adjusted vertically and horizontally within the range of +/-20 degrees. The amount of adjustment may be less than +/-20 degrees depending on the combination of the amount of optical zooming, input signal type, and adjustment direction (vertical or horizontal).
- If the keystone distortion is too large to adjust, move the projector installation position (P32).
- To reset the keystone adjustment to 0, press the [KEYSTONE] button again to display the [Keystone reset] window. On the window, select [OK] with the [<] button, and then press the [OK] button.
- If you select [16:9 D. image shift] for [Screen aspect], the keystone adjustment will be disabled. Project the image at right angle to the screen.
Setting Up the Computer Screen Automatically (AUTO PC)

This projector automatically makes optimum settings for the total number of dots and tracking depending on a signal type (SXGA+, XGA, etc.).
The auto PC adjustment function does not need to be performed if the projector is projecting an image properly with [Auto Setup].
You can use this function if the input signal is [ANALOG PC-1] or [ANALOG PC-2].

1. Press the [AUTO PC] button.
   The auto PC adjustment function is activated and the projected image is optimized.

   - For some computers, the auto PC adjustment function does not optimize the projected image. If such is the case, you need to make settings (input signal select, total dots, tracking, horizontal/vertical positions, horizontal/vertical pixels, etc.) for the input signal (P91, 93-95).

   - The previous signal type ([ANALOG PC-1] or [ANALOG PC-2]) is recorded. If you connect the projector to the same computer, you can project the image with the same settings as before simply by selecting the input signal.
Selecting an Image Mode (IMAGE)

You can select an image mode depending on the projecting image. You can also adjust the image quality (sharpness, gamma, color correction, etc.) as you like.

1. Press the [IMAGE] button.

The Image mode window appears. The selection is toggled among following modes by pressing the button.

- **[Standard]**
  Select this to project an image with near-original quality and a high regard for reproduction of white. It is also suited to project moving pictures such as a TV program or a DVD movie in a bright room.

- **[Presentation]**
  Select this to project an image with quality suited for the presentation. It also suited to project moving pictures with a high regard for the brightness.

- **[Movie]**
  Select this to project moving pictures of all kinds. Its brightness is suited to easily enjoy the atmosphere of a movie theater in a dim room.

- **[Photo]**
  If you select [Photo] for [Image mode], make sure to set [Ambient light] in the [Image adjustment] as well. You can correct an image according to the ambient light based on [sRGB] in [Image mode] and project the image with higher tone on the screen by setting [Ambient light]. It is suited to project an ornamental photo, etc. under an ambient light.

- **[AdobeRGB]**
  Select this if you want to project an image in the display mode conforming to Adobe RGB color space. You can project an image with more accurate color reproduction since it has wider color gamut than sRGB.

- **[sRGB]**
  Select this if you want to project an image in the display mode conforming to Windows standard color space. It is suited to project an image shot by an sRGB-compatible digital camera.

- **[Home Cinema]**
  Select this to project a movie with quality suited to seriously enjoy the atmosphere of a movie theater in a dark room.

---

*1 It is available if the input signal is [DIGITAL VIDEO], [COMPONENT], [VIDEO] or [S-VIDEO].

*2 It is available if the input signal is [ANALOG PC-1], [ANALOG PC-2], or [DIGITAL PC].
You can adjust the followings for each image mode. For detailed information on the procedures, refer to “Image Adjustment Menu” (P102 to 110).

- Brightness  Adjust this when the image is too bright or dark.
- Contrast    Adjust this to decrease or increase contrast of the entire image.
- Sharpness   Adjust this to soften or sharpen an image.
- Gamma       Adjust this when light or dark portions of an image are obscure.
- Color adjustment  Adjust this to adjust the color level and balance.
- Advanced adjustment  Adjust this when color tones are different from those of the original image.

The results of adjustments are saved for each input signal. Once you save them, you can project images with the same settings.

You can set an image mode from the menu. Refer to [Image mode] section in the menu (P102)
Selecting a Screen Mode (Aspect)

You can select one of the following screen modes depending on the aspect ratio or display resolution of your computer.

- You can specify the aspect ratio from the menu. Refer to [Aspect] in the menu (P90).
- The available screen mode will be different depending on the setting of [Screen aspect]. Refer to the section [Screen aspect] (P59).

**Full screen**

Select this to project a computer screen with aspect ratio of 4:3 (SXGA+ [1400 by 1050 dots] or XGA [1024 by 768 dots]). If you select this mode to project the computer screen with aspect ratio of 5:4 (SXGA [1280 by 1024 dots]), it is compressed vertically or horizontally.

Select this mode under normal conditions. [Full screen] will be disappeared from the menu screen if you select [16:9] or [16:9 D. image shift] for [Screen aspect].

**4:3**

Select this to display a computer screen with aspect ratio of 4:3 on the 16:9 screen if you have selected [16:9 D. image shift] for [Screen aspect].

**Auto**

Select this to project a wide screen or computer screen with aspect ratio of 5:4 (SXGA).

Since the image is projected with it fitted to either the width or length of the computer screen, it does not display the top and bottom portions or the leftmost and rightmost portions of the image.

**Wide**

Select this to project a computer screen with aspect ratio of 16:9.

Since the image is projected with it fitted to the width of the computer screen, it blackens the top and bottom portions of the screen.
■ True size

Select this if you want to project a computer screen in its original size. A clear image can be obtained because of no image processing.

- If the display resolution of the computer is higher than 1400 by 1050 dots, select a lower resolution before starting projection.
- The upper, lower, left, and/or right portions of a projected image may be missing depending on the Aspect setting.
Selecting Aspect Ratio of the Projecting Image (Screen aspect)

You can select among three aspect ratios of the projecting image according to the aspect ratio of the projected screen.

You can project an image on the whole screen by setting [Screen aspect].

- You can set [Screen aspect] from menu. Refer to the section [Screen aspect] on the menu for details. (P101)

4:3
Select this when you use a screen with aspect ratio of 4:3.

16:9
Select this when you use a screen with aspect ratio of 16:9.

- [Wide] is automatically selected for [Aspect].
- [Auto screen color] may not correct the screen color properly. If such is the case, correct it manually. (P98)

16:9 D. image shift

Perform the following steps to shift the projected image.

1. Press the [KEYSTONE] button on the top control or remote control to open the [D. image shift adjustment] screen.

2. Press [\(] / [\(] on the top control or remote control to adjust its vertical position.

3. Press the [OK] button.

Select [4:3] from the [Aspect] menu if you want to project a video image with aspect ratio of 4:3 in this mode. (P57)

- Keystone adjustment will be disabled. Project the image at right angle to the screen.
- [Auto focus], [Auto keystone], and [Auto screen color] are disabled in the [Auto setup] function.
- You cannot register the image for [Projector on], [No signal screen], or [NO SHOW].
- [SPOT] will be disabled.
## Turning Off the Projector

### Important Notes
- You may shorten the lamp life if turning off the projector while its lamp is still in an unstable state shortly after turning on the projector. Wait at least 5 minutes before turning off the projector.
- Wait at least 5 minutes before turning on the projector when you turn off the projector. It may shorten the lamp life if you turn on the projector immediately after turning it off.
- Using the projector for a long time may shorten the life of the lamp and internal optical components.

- When the projector is turned off, it starts cooling the lamp. You cannot turn it on during the process.

1. Press the [POWER] button.
   A confirmation message appears on the screen.
   
   ![Confirmation Message]

   To continue projection, wait until the confirmation message disappears (approximately 4 seconds) or press a button other than the [POWER] button.

2. Press the [POWER] button again while the confirmation message is displayed.
   The lamp goes off, the [POWER] indicator starts flashing in red, and it starts cooling the lamp.

3. Remove the power cord from the AC outlet.
   It continues to cool down the lamp even after removing the power cord.
Setting Up the Power Management Function
You can use the power management function that turns off the lamp if the projector receives no signal input for a while.
If you enable the power management mode, the projector displays a countdown timer if the projector is receiving no signal input and is not operated for 30 seconds, and approximately 5 minutes later the lamp is turned off and the projector goes into the power management mode.
You can select one of the following power management modes from the menu (P111).

Standby mode
Select this mode if you want to start projection soon.
In the standby mode, the lamp is turned off and cooled down. When the lamp has been cooled down, the [POWER] indicator starts flashing in red and green to indicate it is standby. It will start projection if the input signal is inputted or any button on the top control or remote control is pressed.

Exit mode
Select this mode to turn off the projector automatically.
In the exit mode, the lamp is turned off and cooled down. When the lamp has been cooled down, the [POWER] indicator stops flashing in red and stays on and the power is turned off.

- The projector becomes inoperative when the lamp is being cooled in a power management mode.
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<th>Section</th>
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<td>Before Use</td>
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<tr>
<td>Setting Up the Projector</td>
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<td>Projecting an Image from the Computer</td>
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<tr>
<td>Projecting an Image from AV Equipment</td>
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<td>Troubleshooting</td>
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<td>Appendix</td>
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<td>Index</td>
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</table>
Projecting an Image from AV Equipment

Connecting the Projector to an AV Equipment

Connect the projector and AV equipment.

Connecting to Video Terminals

Before connecting cables, turn off both the projector and AV equipment. The above illustrations are just examples. For more detailed information, refer to the manual for the connecting AV equipment.

About the Component Cable

The projector cannot be connected to an AV equipment only with the supplied component cable (RCA/Mini D-sub 15-pin). Please purchase either of the following cables according to the type of the terminal on the AV equipment:

- RCA terminal: RCA x 3/RCA x 3 cable
- D-terminal: D-terminal/RCA x 3 cable
Set the input signal as [COMPONENT] by referring to “Projecting an Image from the Computer” and “5-BNC cable” if you want to connect the projector to an AV equipment using a 5-BNC extension cable via an video control apparatus in a hall or so (P37).
PROJECTING AN IMAGE FROM AV EQUIPMENT

S-VIDEO cable

S-VIDEO output terminal (S-VIDEO OUT terminal)

Commercial S-VIDEO video cable

AV equipment

S-VIDEO input terminal (S-VIDEO IN)

Projector

SX7 MarkII

SX60

INPUT Signal: [S-VIDEO] is selected automatically

Video cable

Video output terminal (VIDEO OUT terminal)

Commercial Video cable

AV equipment

Video input terminal (VIDEO IN)

Projector

SX7 MarkII

SX60

INPUT Signal: [VIDEO] is selected automatically

- Connect an audio cable if you want to use the projector’s speaker.
  (SX7 II: P67, SX60: P39)
Connecting to AUDIO IN Terminals (SX7 II)

Connect an audio cable to the AUDIO IN terminal corresponding to the input image signal if you want to use the projector’s speaker.

- The speaker outputs the audio signal corresponding to the selected image signal.
- Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.
- Connect the audio cable between the AUDIO OUT terminal and an external audio-visual equipment if you want to output the audio signal to the audio-visual equipment (P68).
- The built-in speaker is monaural.
Connecting to AUDIO OUT Terminals (SX7 II)

Connect the audio cable between the AUDIO OUT terminal and an external audio-visual equipment if you want to output the audio signal to the audio-visual equipment.

- Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.
- You can adjust the volume level of the audio signal to the audio-visual equipment with the remote controller or the buttons on the top control of the projector.
- The internal speaker is disabled if you input the audio cable to the AUDIO OUT terminal.
- If you connect the projector directly to a speaker, make sure to use the amplified speaker.
Projecting a Video Image from an AV Equipment

You can project a video image with the steps similar to those for projecting an image from a computer. This section provides information specific to the projection from an AV equipment. For more detailed information for each step, refer to the corresponding page.

1. Turn on the projector.  
   • Connect the power cord and turn on the projector.  
   • Adjust the height of the projecting image.  
   • Select a display language for the first time.  
   • Adjust the focus by performing the auto setup or the focus adjustment if you cannot read the message due to out of focus.

2. Prepare the AV equipment.  
   • Turn on the AV equipment and start playing the video image.

For digital content video image:

3. Press the button to switch the input signal.  
   • Select [DIGITAL VIDEO] as the input signal.

4. Press the button twice.  
   • Adjust the input signal, focusing, keystone distortion, and so on automatically using the auto setup function.

5. Press the button.  
   • Select an appropriate image mode depending on the projecting image.  
   • Select an appropriate screen mode from the [Aspect] menu.

Stopping projection...  
   • Turn off the projector and remove the power cord from the AC outlet.

* Those steps are same as those for projecting the computer screen.
Performing the Auto Setup

With the auto setup function, a series of screen adjustment and settings, such as Auto focus and Auto keystone is performed automatically when projecting a video image from an AV equipment. You can start the projection only with this operation if the input signal has been appropriately selected. Refer to page 46 for detailed information on items adjusted by performing the auto setup.

1. Select [DIGITAL VIDEO].
   Perform the steps shown in the "Selecting DIGITAL VIDEO" section on page 71 before performing the auto setup if you want to project a digital content video image. Skip this step if [DIGITAL VIDEO] has been selected at the previous projection.

2. Press the [AUTO SET] button.
   The [Auto setup] window appears.

3. Press the [AUTO SET] button again.
   One or more functions highlighted in black are performed automatically.

   - You can perform this step by selecting [OK] with the [<] button, and then pressing the [OK] button.

Selecting an Input Signal

Select [DIGITAL VIDEO] among the following input signals by following the steps shown in the "Selecting DIGITAL VIDEO" section below if you want to project a digital content video image.

- DIGITAL VIDEO: Digital signal Connecting with an HDMI/DVI cable or DVI digital cable
- COMPONENT: Component signal Connecting with a supplied component cable
- SCART: SCART signal Connecting with a supplied SCART cable
- VIDEO: Video signal Connecting with a video cable
- S-VIDEO: S-VIDEO Connecting with an S-Video cable

The component, video, and S-VIDEO signals are automatically set if a cable is connected and the input signal is confirmed.

- A LED (green) on a terminal flashes when an input signal is confirmed. The LED turns on if the signal is selected and projected (P26, 27).
- Connecting with a HDMI/DVI cable, the image may be projected with the minimum resolution (480p or 575p) due to the specification of the AV equipment.
Selecting DIGITAL VIDEO

1. Press the [INPUT] button.
   The [INPUT] window appears.

2. Select the top item in the menu with the [INPUT] button.
   The selection is toggled through available input signal types from above.

   ● You can select any input signal type from all options through the [v] / [A] button.

3. If [DIGITAL VIDEO] is unavailable from the list at the left, press [>], and then press [v] / [A] to select it from the list at the right.

4. Press the [OK] button.
Selecting SCART


2. Select the second top item in the menu with the [INPUT] button. The selection is toggled through available input signals from above.

3. If the SCART is unavailable from the list at the left, press [>] and then press [V] / [A] to select the SCART from the list at the right.

4. Press the [OK] button.

You can select any input signal type from all options through the [V] / [A] button.
Selecting a Screen Mode (Aspect)

You can select one of the following screen modes depending on the aspect ratio of your AV equipment or content software.

- You can specify the aspect ratio from the menu. Refer to [Aspect] in the menu (P90, 91).
- The available screen mode will be different depending on the setting of [Screen aspect]. Refer to the section [Screen aspect] for details (P74).

**Full screen**
Select this to project a video image with aspect ratio of 4:3.
[Full screen] will be disappeared from the menu screen if you select [16:9] or [16:9 D. image shift] for [Screen aspect].

**4:3**
Select this to project a screen with aspect ratio of 4:3 on the 16:9 screen if you have selected [16:9] or [16:9 D. image shift] for [Screen aspect].

**Wide**
Select this to project a video image with aspect ratio of 16:9.

- Refer to the table on the page 133 for more detailed information on the screen size for the wide screen.

**Auto ([DIGITAL VIDEO]/[COMPONENT])**
Select this to switch between [Full screen] and [Wide] automatically in accordance with the video image.

- The upper, lower, left and right portions of a projected image may be missing depending on the [Aspect] setting.
Selecting Aspect Ratio of the Projecting Image (Screen aspect)

You can select among three aspect ratios of the projecting image according to the aspect ratio of the projected screen. You can project an image on the whole screen by setting [Screen aspect].

- You can set [Screen aspect] from menu. Refer to the section [Screen aspect] on the menu for details (P101).

**4:3**
Select this when you use a screen with aspect ratio of 4:3.
The following table shows the available [Aspect] mode for each input signal.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Available [Aspect] mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO, S-VIDEO, SCART</td>
<td>Full screen, Wide</td>
</tr>
<tr>
<td>COMPONENT, DIGITAL VIDEO</td>
<td>Full screen, Auto, Wide</td>
</tr>
</tbody>
</table>

**16:9**
Select this when you use a screen with aspect ratio of 16:9.
Select [4:3] from the [Aspect] menu if you want to project a video image with aspect ratio of 4:3 in this mode (P73).
The following table shows the available [Aspect] mode for each input signal.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Available [Aspect] mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO, S-VIDEO, SCART</td>
<td>4:3, Wide</td>
</tr>
<tr>
<td>COMPONENT (480i/575i/480p/575p), DIGITAL VIDEO (480p/575p)</td>
<td>4:3, Wide</td>
</tr>
<tr>
<td>COMPONENT (720p/1035i/1080i), DIGITAL VIDEO (720p/1080i)</td>
<td>Wide</td>
</tr>
</tbody>
</table>

- [Auto screen color] may not correct the screen color properly. If such is the case, correct it manually. (P98)
16:9 D. image shift
Select this when you use a screen with aspect ratio of 16:9. You can vertically shift or fine-tune the position of the undistorted image without the keystone adjustment. Refer to P59 for detailed information on shifting the image.
The following table shows the available [Aspect] mode for each input signal.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Available [Aspect] mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO</td>
<td>4:3</td>
</tr>
<tr>
<td>S-VIDEO</td>
<td>Wide</td>
</tr>
<tr>
<td>SCART</td>
<td></td>
</tr>
<tr>
<td>COMPONENT (480i/575i/480p/575p)</td>
<td>4:3</td>
</tr>
<tr>
<td>DIGITAL VIDEO (480p/575p)</td>
<td>Wide</td>
</tr>
<tr>
<td>COMPONENT (720p/1035i/1080i)</td>
<td></td>
</tr>
<tr>
<td>DIGITAL VIDEO (720p/1080i)</td>
<td>Wide</td>
</tr>
</tbody>
</table>

Select [4:3] from the [Aspect] menu if you want to project a video image with aspect ratio of 4:3 in this mode (P73).

- Keystone adjustment will be disabled. Project the image at right angle to the screen.
- [Auto focus], [Auto keystone], and [Auto screen color] are disabled in the [Auto setup] function.
- You cannot register the image for [Projector on] or [No signal screen].
- [SPOT] will be disabled.
USEFUL FUNCTIONS AVAILABLE DURING A PRESENTATION
Useful Functions Available During a Presentation

Blackened Out an Image

Useful when:
- You finished the presentation.
- You want to divert attendees’ attention from the screen.

Temporarily

Blacken out the image temporarily.

Blackening out an Image

The screen changes to black or blue.

Showing the Image Again

Press the \(^{\text{NO SHOW}}\) button to show the image again.

- You can capture a specified logo (SX60) (P98).
- You can show a logo such as a company logo while blackening out the image (SX60) (P100).
- The (middle) LED illumination lamp on the top control flash slowly while blackening out the image.
- A guiding message appears if you press an invalid button while the NO SHOW function is on.

- The lamp keeps a turn-on state while the NO SHOW function is on.

Freezing the Picture

Useful when:
- You want to perform a computer operation which is irrelevant to the proceedings of the presentation.
- You want to stop a moving image.

Freezing an Image

Freeze the moving image.

The "FREEZE" message is shown on the screen.

Canceling the FREEZE function

Press the \(^{\text{FREEZE}}\) button again to cancel the FREEZE function.

- You can expand or reduce the frozen image (P81).
- The (left and right) LED illumination lamps on the top control flashes slowly while stopping the image.
- A guiding message appears if you press an invalid button while the FREEZE function is on.
Muting the Sound

Useful when:
> You want to immediately mute the sound from the projector.

Mute the sound temporarily.

Muting the Sound

The projector shows the [MUTE] icon on the screen.

Canceling the MUTE function

Press the MUTE button again to cancel the MUTE function.

Pressing the VOL button also cancels the MUTE function.

- For SX7 MarkII, you can also mute the audio with the same operation when you output the audio to the external audio-visual equipment.

Adjusting the Volume

Useful when:
> You want to adjust the volume level of the projectors speaker.

Adjusting the Volume

Volume bar appears on the screen.

- Adjust the volume or mute setting on the computer if the volume level is too low.
- For SX7 MarkII, you can also adjust the volume level with the same operation when you output the audio to the external audio-visual equipment.
USEFUL FUNCTIONS AVAILABLE DURING A PRESENTATION

Showing the Elapsed Time

Useful when:
You want to manage the proceedings of the presentation.

The elapsed time from 00:00 to 59:59 is displayed at the lower right corner of the screen.

Starting the Countdown

Press this button once to display the timer and start counting.

Stopping the Countdown

Press the button again to stop the countdown.

Cancelling the Countdown

Press the button again to disappear the timer.

Page Up or Down through the Pages

Useful when:
You want to page up or down through the projected application pages with the remote control.

You can page up or down in the projected application with the supplied remote control.

Page Up

Page Down

• This function is available only if the projector and the computer are connected via the USB cable that came with your projector (P82).
• This function acts as the Page Up and Page Down keys on the computer keyboard. You can not use this function depending on the application.
### Zooming an Image

**Useful when:**
- Zoom in an object such as a small graph during a presentation.
- Moving unnecessary information off the screen to focus on the current subject.

Zoom the projected image.

#### Zooming In an Image

Press this button repeatedly until the image becomes the desired size.

- The magnification appears on the screen when you press the [D.ZOOM] button.
- The zoom ratio is 1x to 12x.
- You can freeze the enlarged image.
- Press the [OK] button to cancel the digital zoom function.
- The following guiding message appears if you press an invalid button during operating the digital zoom function.

#### Zooming Out an Image

Press this button repeatedly until the image becomes the desired size.

You can restore the original size of the image by pressing the [OK] button.

---

### Moving an Image to the Desired Position

If the image you want to zoom in stays out of the screen or out of the center of the screen, you can move it to the desired position.

Press this button to move the image to the desired position.
Operating a Mouse with the Remote Control

Utility when:
- You want to operate a mouse with the remote control.

You can use the supplied remote control as the wireless mouse for your computer.

Connecting a USB Cable
Make sure that both the computer and projector are turned off, and then connect the supplied USB cable between the USB terminals on the computer and the projector.

![USB cable diagram]

Moving the Cursor
You can move the mouse cursor vertically and horizontally.

Using the Left Button of the Mouse
You can click, double-click, or drag an object with this button.

Using the Right Button of the Mouse

- This function is supported on Windows 7, Windows Vista, Windows XP, or Mac OS 9.2 and later.
Pointing with a Spotlight

- **Useful when:**
  - You want to point to a portion of an image that should draw attendees' attention.

Highlight a desired portion of the projected image with a spotlight.

### Showing the Spotlight

A spotlight appears at the center of the screen and the image becomes dark except for the spotlight.

Press the SPOT button repeatedly to change the shape of the spotlight.

- ![No mark](image)

### Moving the Spotlight

Move the spotlight to a desired position.

- If you select [16:9 D. image shift] for [Screen aspect], the SPOT function will be disabled.
- Press the [OK] button to cancel the SPOT function.
SETTING UP FUNCTIONS FROM MENUS
Setting Up Functions from Menus

How to Use Menus

Some of the projector’s functions are used through the menu screen. It consists of the following three menus:

- **Display settings menu (P90)**
  This menu is used to select an input signal and make various settings related to display.

- **Image adjustment menu (P102)**
  This menu is used to make various adjustments to the projected image. You can make the adjustments according to your preference while checking the image.

- **System settings menu (P111)**
  This menu is used to set various functions of the projector. You can set them regardless of the input signal.

* The menu items may differ depending on the input signal. The projector stores the settings for each input signal (8) and image mode (up to 5).

### Symbols Indicating Item Categories
Menu items are classified into two categories, menu items used to project the image from the computer and menu items used to project the image from the AV equipment.

- **□** Menu item used when projecting an image from the computer.
  - DIGITAL PC
  - ANALOG PC

- **○** Menu item used when projecting an image from AV equipment.
  - DIGITAL VIDEO
  - COMPONENT
  - SCART
  - COMPONENT/SCART
  - VIDEO/S-VIDEO
This section provides the basic operation on the menu.

1. Press the [MENU] button.
   A menu window appears.

2. Press [<] / [>] to select the appropriate tab.
   Press [>] to move the cursor on the tab if it is not on it.

3. Press [v] / [>] to select a menu item you want to set.

- Some menu items provide more detailed menu items.

Press the [MENU] button again to close the menu window.

(Continue to the next page.)
4 Set the menu item.

There are four types of menu items that you make a setting:
- Directly
- From a list
- With a slider
- In a different screen

**Directly**
Example: Tracking

Press [<] [>] to increase/decrease the setting.

**From a list**
Example: Aspect

Press the [OK] button to display a list. Press [▼] [▲] to select a desired setting.

**With a slider**
Example: Contrast

Press [<] [>] to move the slider.

**In a different screen**
Example: Menu position

Press the [OK] button to display a different screen. Then follow the instruction on the screen.
5 Press the [OK] button.  
In some menu items, the setting is enabled just by making a selection.

6 Press the [MENU] button when you finish.  
The menu disappears.
Setting Display Status

Selecting a Screen Mode (1) [Aspect]

You can adjust the aspect ratio of the image projected on the screen.

- **DIGITAL PC**
- **ANALOG PC**

**Display settings**

- **Aspect**

<table>
<thead>
<tr>
<th>DIGITAL PC</th>
<th>ANALOG PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full screen</td>
<td>Projects a computer screen with aspect ratio of 4:3 fully on the screen with aspect ratio of 4:3.</td>
</tr>
<tr>
<td>4:3</td>
<td>Projects a computer screen with aspect ratio of 4:3 within the screen with aspect ratio of 16:9.</td>
</tr>
<tr>
<td>Auto</td>
<td>Projects an input signal image in the maximum size with the aspect ratio unchanged.</td>
</tr>
<tr>
<td>Wide</td>
<td>Projects a computer screen at 16:9 aspect ratio with its width matching to the width of the projecting area.</td>
</tr>
<tr>
<td>True size</td>
<td>Projects a computer screen in its original size (no enlargement/reduction).</td>
</tr>
</tbody>
</table>

Press the [MENU] button when you finish.

- Each item may become unavailable depending on the setting of the input signal or other menu items.

Selecting a Screen Mode (2) [Aspect]

You can adjust the aspect ratio of the image projected on the screen.

**Display settings**

- **Aspect**

<table>
<thead>
<tr>
<th>DIGITAL VIDEO</th>
<th>COMP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Switches among [Full screen], [4:3], and [Wide] automatically in accordance with the video image from the AV equipment.</td>
</tr>
<tr>
<td>Full screen</td>
<td>Projects a normal image with aspect ratio of 4:3 on the screen with aspect ratio of 4:3.</td>
</tr>
<tr>
<td>4:3</td>
<td>Projects a image with aspect ratio of 4:3 within the screen with aspect ratio of 16:9.</td>
</tr>
<tr>
<td>Wide</td>
<td>Projects a video image with aspect ratio of 16:9.</td>
</tr>
</tbody>
</table>

Press the [MENU] button when you finish.

- Each item may become unavailable depending on the setting of [Screen aspect].
Selecting a Screen Mode (3)  
[Aspect]

You can adjust the aspect ratio of the image projected on the screen.

- **Full screen** Projects a normal image with aspect ratio of 4:3 on the screen with aspect ratio of 4:3.
- **4:3** Projects an image with aspect ratio of 4:3 within the screen with aspect ratio of 16:9.
- **Wide** Projects a video image with aspect ratio of 16:9.

Press the [MENU] button when you finish.

- Each item may become unavailable depending on the setting of [Screen aspect].

Selecting an Input Signal Type (1)  
[Input signal select]

You can select a desired input signal type if the auto PC adjustment function detects more than one input signal types.

Select an input signal type suitable for the computer from the displayed signal types. Press the [MENU] button when you finish.

- See P132 for the signal types supported by this projector.
Selecting an Input Signal Type (2)
[Input signal select]

You can select an input signal type manually if a video image from an AV equipment is not projected correctly (irregular color or no image).

- **VIDEO/S-VIDEO**
  - **Auto** Selects the input signal automatically.
  - **NTSC**
  - **PAL**
  - **SECAM**
  - **NTSC4.43**
  - **PAL-M**
  - **PAL-N**

Press the [MENU] button when you finish.

- Confirm the input signal type according to the User’s Manual that came with the AV equipment connected.

Selecting an Input Signal Type (3)
[Input signal select]

You can select an input signal type manually if a video image from an AV equipment is not projected correctly.

- **R-COMP/SCART**
  - **Auto** Selects the component format automatically according to the input signal.
  - **1080i**
  - **1035i**
  - **720p**
  - **575p**
  - **480p**
  - **575i**
  - **480i**

Press the [MENU] button when you finish.

- Confirm the input signal type according to the User’s Manual that came with the AV equipment connected.
Adjusting the Total Number of Dots

[Total dots]

You can select the total number of dots in the horizontal direction. Adjust the number of dots when the image distorts or noise is displayed on the screen at both sides.

Press the [MENU] button when you finish.

- Perform this adjustment if the auto PC adjustment function cannot adjust the project image correctly.
- The setting is recorded for [ANALOG PC-1] and [ANALOG PC-2] separately.

Adjusting the Tracking

[Tracking]

You can fine-tune the timing for generating an image from the image signal. Adjust the tracking when the image flickers or distorts.

Press the [MENU] button when you finish.

- Perform this adjustment if the auto PC adjustment function cannot adjust the project image correctly.
- The setting is recorded for [ANALOG PC-1] and [ANALOG PC-2] separately.
**Adjusting the Horizontal Position**

[Horizontal position]

You can adjust the horizontal position of the screen when the projected image is shifted in the horizontal direction.

- Press the [MENU] button when you finish.

**Adjusting the Vertical Position**

[Vertical position]

You can adjust the vertical position of the screen when the projected image is shifted in the vertical direction.

- Press the [MENU] button when you finish.

- **Display settings**
- **Input signal settings**
  - Horizontal position
  - Vertical position

<table>
<thead>
<tr>
<th>Input signal settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total dots</td>
</tr>
<tr>
<td>Tracking</td>
</tr>
<tr>
<td>Horizontal position</td>
</tr>
<tr>
<td>Vertical position</td>
</tr>
<tr>
<td>Horizontal pixels</td>
</tr>
<tr>
<td>Vertical pixels</td>
</tr>
</tbody>
</table>

- > Moves the screen to the right.
- < Moves the screen to the left.

- Perform this adjustment if the auto PC adjustment function cannot adjust the project image correctly.
- The setting is recorded for [ANALOG PC-1] and [ANALOG PC-2] separately.

- > Moves the screen up.
- < Moves the screen down.

- Perform this adjustment if the auto PC adjustment function cannot adjust the project image correctly.
- The setting is recorded for [ANALOG PC-1] and [ANALOG PC-2] separately.
Adjusting the Number of Horizontal Pixels
[Horizontal pixels]

- You can adjust the number of the pixels in the horizontal direction if the length of the screen is too long or too short in the horizontal direction.

- Press the [MENU] button when you finish.

- Perform this adjustment if the auto PC adjustment function cannot adjust the project image correctly.

- The setting is recorded for [ANALOG PC-1] and [ANALOG PC-2] separately.

Adjusting the Number of Vertical Pixels
[Vertical pixels]

- You can adjust the number of the pixels in the vertical direction if the length of the screen is too long or too short in the vertical direction.

- Press the [MENU] button when you finish.

- Perform this adjustment if the auto PC adjustment function cannot adjust the project image correctly.

- The setting is recorded for [ANALOG PC-1] and [ANALOG PC-2] separately.
Performing Progressive Processing
[Progressive]

You can accumulate and composite information for a signal for a low resolution image to convert it to a high resolution image.

Press the [OK] button to confirm, and then press the [MENU] button.

- You can use this function if the input signal is VIDEO/S-VIDEO or the component signal is 575i or 480i.
  - You cannot use this function if the component signal is 1080i, 1035i, 720p, 575p, or 480p.
- This setting is saved for the currently selected input signal.
- Select [Off] when flickers and horizontal lines are noticeable on a fast-moving picture.
- See P136 for more detailed information on the progressive processing.

Selecting a Menu Position
[Menu position]

You can select the position of the menu displayed on the screen.

Move the menu to the desired position with [\(\wedge\)], [<], [\(\vee\)], and [>] and then press the [OK] button.

Press the [MENU] button when you finish.
Performing the Ceiling-mounted/Rear Projection

[Image flip H/V]

You can make this setting if you want to hang the projector from the ceiling or project an image on a transmissive screen.

Press the [MENU] button when you finish.

- None
  - Select this if you project an image normally.

- Ceiling mounted
  - Select this if you project an image with the projector hung from the ceiling. The projected image is inverted in both vertical and horizontal directions.

- Rear
  - Select this if you project an image from behind the screen. The projected image is inverted in the horizontal direction.

- Rear, Ceiling mounted
  - Select this if you project an image from behind the screen with the projector hung from the ceiling. The projected image is inverted in the vertical direction.

When hanging the projector from the ceiling, make sure to use optional brackets. Contact your Canon dealer.

*The keystone adjustment will be reset.*
Correcting the Screen Color

[Screen color]

You can adjust the white balance so that white portions of the image are displayed correctly.

Press the [OK] button to confirm, and then press the [MENU] button.

- Normal
  Projects an image in a color tone similar to that of natural light on a standard screen.

- Greenboard
  Projects an image in an almost natural color tone on a greenboard (dark green).

- Adjust
  Adjusts color tone with the level meter. To adjust the color tone automatically, press the [AUTO SET] button when the following level meter is displayed. Use this function if the [Greenboard] setting is inadequate.

If you manually adjust it, press [A] or [V] button to select red, green, or blue.
[>] Increases the color tone of each color.
[<] Decreases the color tone of each color.

Press the [OK] button to confirm, and then press the [MENU] button.

- If you select [16:9 D. image shift] for [Screen aspect], the auto screen color correction function will be disabled.

Capturing a Logo to Be Projected

(SX60)

[Logo capture]

You can project a desired image (logo) when you turn on the projector, there is no input signal, or you blacken a projecting image temporarily.

Press the [OK] button to confirm, and then press the [MENU] button.

- OK
  Projects the image to be captured on the screen. Surround the capturing area with the red frame and press [OK]. The image in the red frame is captured.

- Cancel
  Cancels the image capturing.

- You can capture only one image.
- For projecting the captured logo on a screen, select [User logo] on the [Projector on], [No signal screen], or [NO SHOW] menu item.
- You may not capture an image depending on the resolution and scan system.
- If you select [16:9] or [16:9 D. image shift] for [Screen aspect], you cannot capture an image.
Setting Display Status

Setting Display Status

Selecting a Logo Display Position (SX60)

[Logo position]

You can select a logo display position. You can place the logo at the center or a corner of the screen.

Press the [MENU] button when you finish.

- You cannot select [Logo position] if you have not captured a logo on the [Logo capture] screen.

Displaying a Logo (No signal screen)

[No signal screen]

You can display a user logo on a screen when there is no input signal. (SX60)

For SX7 MarkII, you can display either of a black or blue screen.

Press the [OK] button to confirm, and then press the [MENU] button.

- You cannot select [User logo] if you have not captured a logo on the [Logo capture] screen. (SX60)
Displaying a Logo (NO SHOW)

[NO SHOW]

You can display a user logo on a screen when the projected image is blackened out temporarily by pressing the [NO SHOW] button on the remote control. (SX60)

For SX7 MarkII, you can display either of a black or blue screen.

Press the [OK] button to confirm, and then press the [MENU] button.

- You cannot select [User logo] if you have not captured a logo on the [Logo capture] screen. (SX60)

Selecting a Logo at Startup

[Projector on]

You can display a specified logo on a screen from the moment the projector is turned on to the moment it is ready for projection.

Press the [OK] button to confirm, and then press the [MENU] button.

- You cannot select [User logo] if you have not captured a logo on the [Logo capture] screen. (SX60)
Selecting Aspect Ratio of the Screen
[Screen aspect]

You can select the aspect ratio of the projecting screen.

Press the [MENU] button when you finish.

- If you select [16:9] or [16:9 D. image shift], [Wide] will be selected for [Aspect]. If you want to project an image with aspect ratio of 4:3 when selecting [16:9 D. image shift], select [4:3] for [Aspect].
- If you select [16:9 D. image shift], the keystone adjustment will be reset.
- An item may become unavailable in this setting depending on the selecting input signal and screen aspect (P74).
**Setting the Image Quality**

**Selecting an Image Mode**

**Image mode**

You can select an image mode suitable for the projecting image.

![Image modes](image)

- **DIGITAL PC**
- **ANALOG PC**
- **DIGITAL VIDEO**
- **COMP./SCART**
- **VIDEO/S-VIDEO**

*1 It is available if the input signal is [DIGITAL VIDEO], [COMPONENT], [VIDEO] or [S-VIDEO].

*2 It is available if the input signal is [ANALOG PC-1], [ANALOG PC-2], or [DIGITAL PC].

- **Home Cinema** Select this to project a movie with quality suited to seriously enjoy the atmosphere of a movie theater in a dark room.
- **AdobeRGB** Select this if you want to project an image in the display mode conforming to Adobe RGB color space. You can project an image with more accurate color reproduction since it has wider color gamut than sRGB.
- **sRGB** Select this if you want to project an image in the display mode conforming to Windows standard color space. It is suited to project an image shot by an sRGB-compatible digital camera.

- **SX7 MarkII**
  - Standard
  - Presentation
  - Movie
  - Photo

- **SX60**
  - Standard
  - Presentation
  - Movie
  - Home Cinema
  - sRGB

*1 It is available if the input signal is [DIGITAL VIDEO], [COMPONENT], [VIDEO] or [S-VIDEO].

*2 It is available if the input signal is [ANALOG PC-1], [ANALOG PC-2], or [DIGITAL PC].

Press the [OK] button to confirm, and then press the [MENU] button.

- You can adjust the image quality (brightness, contrast, etc.) for each image mode as you wish.
- The results of adjustments are saved for each input signal. Once you save them, you can project images with the same settings.
Setting the Image Quality

Adjusting the Brightness

[Brightness]

You can adjust the brightness of an image when it is too bright or dark.

- **DIGITAL PC**
- **ANALOG PC**
- **DIGITAL VIDEO**
- **COMP./SCART**
- **VIDEO/S-VIDEO**

You can adjust the brightness of an image when it is too bright or dark.

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.

Adjusting the Contrast

[Contrast]

You can adjust the contrast of an image if you want to make it more or less vivid, adjust the difference in tone between the lightest and darkest portions of the image.

- **DIGITAL PC**
- **ANALOG PC**
- **DIGITAL VIDEO**
- **COMP./SCART**
- **VIDEO/S-VIDEO**

You can adjust the contrast of an image if you want to make it more or less vivid, adjust the difference in tone between the lightest and darkest portions of the image.

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.
Adjusting the Sharpness
[Sharpness]

You can adjust the sharpness when you want to make an image sharper or softer.

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.

Making a Gamma Correction
[Gamma]

You can make a gamma correction if light or dark portions of an image are obscure.

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.
Making Color Adjustment (1) (SX7 II)  
[Color adjustment]  
You can adjust color level and color balance and make color adjustment for each color (red, green, and blue).

Press the [MENU] button when you finish.

* You can set this if you have selected [Photo] for [Image mode].

Making Color Adjustment (2)  
[Color adjustment]  
You can make color adjustment for each color (red, green, and blue).

* is only applicable to SX60

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.
- If you change R/G/B Gain or Offset once color temperature has been specified, the "*" mark is displayed at the right side of the setting value to indicate the color temperature has been specified.
Making Color Adjustment (3)
[Color adjustment]

You can adjust color level and color balance and make color adjustment for each color (red, green, and blue).

Press the [MENU] button when you finish.

<table>
<thead>
<tr>
<th>Color level</th>
<th>Adjusts the intensity of each color.</th>
</tr>
</thead>
<tbody>
<tr>
<td>[&gt;] Increases the intensity of color.</td>
<td></td>
</tr>
<tr>
<td>[&lt;] Decreases the intensity of color.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color balance</th>
<th>Adjusts the color balance of a reddish or greenish image.</th>
</tr>
</thead>
<tbody>
<tr>
<td>[&gt;] Corrects a reddish image.</td>
<td></td>
</tr>
<tr>
<td>[&lt;] Corrects a greenish image.</td>
<td></td>
</tr>
</tbody>
</table>

R/G/B Gain
(Refer to “Making Color Adjustment (1)”)

R/G/B Offset
(Refer to “Making Color Adjustment (1)”)

Press the [MENU] button when you finish.

- You cannot make color adjustment if the video format is PAL, PAL-M, PAL-N, or SECAM.
- This setting is saved for the currently selected input signal and image mode.

Making Advanced Color Adjustment (1)
[Dynamic gamma]

You can adjust the gradation representation of light and dark portions of an image automatically.

Press the [OK] button to confirm, and then press the [MENU] button.

- Dynamic gamma automatically optimizes image quality.
- This setting is saved for the currently selected input signal and image mode.
Making Advanced Color Adjustment (2)
[Mem. color correct]

You can correct colors (e.g. blue sky) in our memory so that they can be projected more vividly.

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.

Making Advanced Color Adjustment (3)
[6-axis color adjust]

You can make fine color adjustment with the 6-axis color adjustment box (RGB (red/green/blue) and CMY (cyan/magenta/yellow)). Refer to Glossary for information on the 6-axis color adjustment.

Press the [MENU] button when you finish.

- This setting is saved for the currently selected input signal and image mode.
Correcting the Image According to the Ambient Light (SX7 II)

[Ambient light]

You can correct and project an image more appropriately according to the ambient light on the screen if you have selected [Photo] for [Image mode].

![Image adjustment](PIXEL)

**Level**

- **L**: Select this if the ambient light is dark.
- **M**: Select this if the ambient light is moderate.
- **H**: Select this if the ambient light is bright.

**An Example of the Ambient Light Setting**

<table>
<thead>
<tr>
<th>Level</th>
<th>Example Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>A projection room, bar</td>
</tr>
<tr>
<td>M</td>
<td>Photo studio, galley</td>
</tr>
<tr>
<td>H</td>
<td>Conference room, lecture room</td>
</tr>
</tbody>
</table>

Press the [OK] button to accept your setting and then press the [MENU] button.

- [Off] is the factory default.
- You can set this if you have selected [Photo] for [Image mode].
Reducing the Lamp Brightness

[Lamp mode]

You can reduce the lamp brightness if you want to make the image darker or reduce the fan noise.

- Normal: Projects an image at the normal brightness level.
- Quiet: Reduces the lamp brightness and the fan noise.

Press the [OK] button to confirm, and then press the [MENU] button.

- You can reduce the power consumption of the lamp if you select in the quiet mode.
- This setting is saved for the currently selected input signal and image mode.
Resetting the Image Settings

[Reset]

You can reset the current image settings to the default settings if you want to make all image settings all over again.

Press the [OK] button to confirm, and then press the [MENU] button.

- The projector stores the image settings for each input signal (8) and image mode (up to 5) separately. If you select [OK], the settings saved for the currently selected set of the input signal and image mode are reset.

Performing [Color adjustment] or [Advanced adjustment]:

A check mark (✓) appears on the Image Adjustment menu if you perform [Color adjustment] or [Advanced adjustment (Dynamic gamma, Mem. color correct, or 6-axis color adjust)].

(SX7 MarkII)
Setting Various Function

**Setting Auto Setup Function**

[Auto setup]

You can select an item you want to enable in the auto setup function.

- **Auto focus**: Enables/disables the auto focusing.
- **Auto keystone**: Enables/disables the auto keystone correction.
- **Auto input**: Enables/disables the auto input selection.
- **Auto screen color**: Enables/disables the auto screen color correction.

- A confirmation screen appears during the auto setup so that you can check which functions are enabled/disabled (P46, 70).
- You can manually adjust each item. [Auto focus]: [FOCUS] button (P51) [Auto keystone]: [KEYSTONE] button (P52) [Auto input]: [INPUT] button (P48, 71) [Auto screen color]: Menu function (P98)
- If you select [16:9 D. image shift] for [Screen aspect], you cannot change the setting of each item. The auto setup function will also be disabled.

**Selecting the Power Management Mode**

[Power management mode]

You can turn off the lamp or projector automatically for saving power.

- **Off**: Disables the power management mode.
- **Standby**: Enters the power management mode. The projector restarts projection when a signal is inputted or any operation button is pressed.
- **Exit**: Enters the exit mode and turns off the projector automatically.

Press the [OK] button to confirm, and then press the [MENU] button.

- You cannot enable the [Direct Power on] function if you select [Off].
- The [POWER] indicator flashes red and green when the projector is in the [Standby] power management mode.
Skip the POWER Button Operation
[Direct power on]

You can set the projector to be turned on when you connect the power cord.

Press the [OK] button to confirm, and then press the [MENU] button.

- Wait at least 5 minutes before turning on the projector when you turn off the projector with the direct power on function. It may shorten the lamp life if you turn on the projector immediately after turning it off.
- Set the previous [Power management mode] to [Standby] or [Exit] in addition to this setting if you want to enable the direct power on function.

Enabling/Disabling the Beep
[Beep]

You can enable/disable the beep when you press a button on the top control or remote control.

Press the [OK] button to confirm, and then press the [MENU] button.

- It does not beep if you mute the projector sound temporarily with the [MUTE] button.
## Selecting a Display Language

### [Language]

You can select a language to be used in the menu from 20 different languages.

Press the [OK] button and all words in the menu will be displayed in the selected language. Press the [MENU] button when you finish.

### Language Options

<table>
<thead>
<tr>
<th>Language</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Deutsch</td>
<td>Germany</td>
</tr>
<tr>
<td>Français</td>
<td>French</td>
</tr>
<tr>
<td>Italian</td>
<td>Italian</td>
</tr>
<tr>
<td>Español</td>
<td>Spanish</td>
</tr>
<tr>
<td>Portugués</td>
<td>Portuguese</td>
</tr>
<tr>
<td>Svenska</td>
<td>Swedish</td>
</tr>
<tr>
<td>Pycckwí</td>
<td>Russian</td>
</tr>
<tr>
<td>Nederlands</td>
<td>Dutch</td>
</tr>
<tr>
<td>Suomi</td>
<td>Finnish</td>
</tr>
<tr>
<td>Norsk</td>
<td>Norwegian</td>
</tr>
<tr>
<td>Türkçe</td>
<td>Turkish</td>
</tr>
<tr>
<td>Polski</td>
<td>Polish</td>
</tr>
<tr>
<td>Magyar</td>
<td>Hungarian</td>
</tr>
<tr>
<td>Čeština</td>
<td>Czech</td>
</tr>
<tr>
<td>Dansk</td>
<td>Danish</td>
</tr>
<tr>
<td>中文簡体</td>
<td>Simplified Chinese</td>
</tr>
<tr>
<td>中文繁體</td>
<td>Traditional Chinese</td>
</tr>
<tr>
<td>한국어</td>
<td>Korean</td>
</tr>
<tr>
<td>日本語</td>
<td>Japanese</td>
</tr>
</tbody>
</table>
Prohibiting the Projector Operation

[Key lock]

You can prohibit the use of the buttons on the top control or remote control to prevent them from being pressed by mistake.

Press the [OK] button to confirm, and then press the [MENU] button.

- **Off**: Disables the key lock function.
- **Main unit**: Prohibits the use of the top control.
- **Remote control**: Prohibits the use of the remote control.

Press the [OK] button to confirm, and then press the [MENU] button.

- The key lock function becomes effective from the moment when the [OK] button is pressed after selecting [Main unit] or [Remote control]. Be sure to press the [OK] button on the top control or remote control which is not locked.
- To unlock the key lock function forcibly, remove the power plug from the AC outlet after the projection, and then insert the power plug while holding down the [OK] button until the projector beeps.

Enabling/Disabling the Guide Message

[Guide]

You can enable/disable the guide message showing how to use the projector.

Press the [OK] button to confirm, and then press the [MENU] button.

- **Off**: Disables the guide message.
- **On**: Enables the guide message.

The guide message appears on the screen when:
- The projector is turned on (P40).
- The projector is turned off (the [POWER] button is pressed) (P60).
- No input signal is confirmed (P36, 64).
- The invalid button is pressed under NO SHOW, FREEZE, or D.ZOOM (P78, 81).
Setting Up Various Functions

Setting Up Functions from Menus

1. Setting Various Functions

   a. Turning On/Off the LED Illumination

      [LED illumination]

      You can turn on/off the LED illumination lamp and the LEDs on the terminals (P26, 27, 28).

      - Off
        Turns off all LEDs.
      - On
        Turns on LEDs as necessary.

      Press the [OK] button to confirm, and then press the [MENU] button.

      - This setting does not effect the POWER indicator or WARNING lamp.

2. Setting up the Remote Control

   [Remote control]

   You can change the channel settings to prevent the two remote controls from interfering with each other when you use two projectors at the same time.

   Press the [OK] button to confirm, and then press the [MENU] button.

   **Selecting a Channel on the Remote Control**

   Press the [LIGHT] button for 3 seconds while holding down the [OK] button on the remote control.

   The above operation toggles the channel between Ch1 (the button flashes once) and Ch2 (the button flashes twice).

   - Make sure to set the same channel for both remote control and projector.
   - Performing this operation with the remote control, you cannot control the projector after pressing the [OK] button. Make sure to change the channel for the remote control at the same time.
**Setting up the Digital Video Input Signal**

**[Digital video]**

You can select the standard of the digital video input signal.

- **Projects a full range digital signal.**
- **Projects a limited range digital signal.**

Press the [OK] button to confirm, and then press the [MENU] button.

- Refer to the User’s Manual that came with the AV equipment for more detailed information on settings.

**Setting a Password**

**[Password settings]**

You can set a password to the projector.

Once you set the password, you will need to enter the password each time you turn on the projector.

- **Disable the password protection.**
- **Enable the password protection.**

Press the [OK] button to confirm, and then press the [MENU] button.

- Once you set a password, the password entry screen appears at power-on. Enter a 4-digit password with [\[\], [\n], [<\], and [>] if the password is valid, projection starts. If you enter a wrong password three times, the projector will be turned off.
- To cancel the password, remove the power plug from the AC outlet after the projection, and then insert the power plug while holding down the [MENU] button until the projector beeps.
Registering a Password

[Register password]

You can register a password that you need to enter when turning on the projector.

Press the [OK] button to display the password entry screen.

Enter a 4-digit password from the left. You can enter a value 1, 2, 3, and 4 by pressing [A], [v], [<], and [>], respectively. Once you enter a value for all four digits, the password is registered automatically.

- Press the [MENU] button without entering a password if you want to cancel registering the password.

Resetting to the Default Setting

[Factory defaults]

You can reset the menu item settings and restore the system settings to the factory defaults.

Press the [OK] button to confirm, and then press the [MENU] button.

- All adjustments are reset to default if you perform [Factory defaults].
- The language selection screen appears when you turn on the projector for the next time if you perform [Factory defaults] (P41).
- The settings of [Lamp counter], [Language] and [Remote control] will not be reset even after resetting to the factory defaults.
- For the factory defaults, see P144, 145.
Resetting the Lamp Counter

[Lamp counter]

You can reset the lamp counter that indicates the timing to replace the projector when you replace it.

Display Examples of Lamp Counter

- If the time of use is:
  SX7 MarkII : 1800 hours or less
  SX60 : 2300 hours or less

- If the time of use is:
  SX7 MarkII : 1800 to 2000 hours
  SX60 : 2400 to 2500 hours

- If the time of use is:
  SX7 MarkII : 2000 hours or more
  SX60 : 2500 hours or more

- If you replace the lamp

Do not reset the lamp counter except when you have replaced the lamp. Otherwise, the lamp counter cannot indicate the correct timing for replacing the lamp.

Press the [OK] button to confirm, and then press the [MENU] button.

See P122 for more detailed information on replacing the lamp.
MAINTENANCE
Maintenance

Cleaning the Projector

Clean the projector frequently to prevent dust from settling on the surface. A dirty lens may ruin the quality of the projected image.

- The main unit is very hot immediately after turning off the projector. Wait until the projector cools down sufficiently (more than 1 hour) before cleaning the projector. Otherwise, you may get burned or injured.
- Before cleaning the projector, be sure to remove the power plug from the AC outlet. Otherwise, electric shock or fire may result.

Wipe the projector's main unit softly with a soft cloth. If the projector is heavily soiled, soak the cloth in water with a small amount of detergent in it, squeeze the cloth very well, and then wipe the projector with it. After cleaning, wipe the projector with a dry cloth.

- Never use volatile cleaning liquid or benzine, as these may damage the finish of the projector. When using a chemical dust cloth, make sure to read the instructions thoroughly.
- When cleaning the projector's lens, use a commonly available air blower or lens cleaning paper. The lens surface is easily damaged, so do not use a hard cloth or tissues.

When Not Used for an Extended Period of Time
Be sure to attach the lens cap on the lens and store in the supplied carrying bag.
Cleaning and Replacing the Air Filter

An air filter is installed in the air intake vent on the bottom of the main body to protect the internal lens and mirror from dust. Should the air filter become clogged with dust, the projector may be damaged since it will block the air flow into the projector and raises the internal temperature of the projector.

- The main unit is very hot immediately after turning off the projector. Wait until the projector cools down sufficiently (more than 1 hour) before cleaning the projector. Otherwise, you may get burned or injured.
- Before cleaning or replacing the air filter, be sure to remove the power plug from the AC outlet. Otherwise, electric shock or fire may result.
- Do not insert any object into the projector through the air filter opening. You may suffer electric shock or injury due to the high-voltage parts or rotating parts.

Cleaning the Air Filter

Turn the projector upside down, remove the cover by pushing the latch, remove the air filter, and clean it with a vacuum cleaner. When cleaning dust off the side exhaust vent and the bottom air intake vent, bring the vacuum cleaner nozzle close to them directly.

- Clean the air filter frequently.
- After cleaning the air filter, install it by following the removal steps 1 to 5 in reverse.

Replacing the Air Filter

1. Turn off the projector, remove the power plug from the AC outlet, and let the projector stand for at least 1 hour.
2. Remove the filter cover by pushing the position of the arrow.
3. Remove the air filter.
4. Install a new air filter.
5. Install the filter cover securely without any space.

- Attach the lens cap when replacing the air filter.
- Handle the air filter carefully. If damaged, the air filter will not work appropriately.
- Replace the air filter whenever you replace the lamp.
- An air filter can be ordered from your dealer.
Replacing the Lamp

When the time of use of the lamp exceeds the certain amount of time, the following message (two types) is displayed for 10 seconds every time the projector is turned on.

- If the time of use is:
  SX7 MarkII: 1800 to 2000 hours
  SX60 : 2400 to 2500 hours

  ![Lamp replacement]
  Obtain a new lamp. Do you want to display this message again?
  OK Cancel

  * [<], [>], the [OK] button, and the [POWER] button are available during this message is displayed.

- If the time of use is:
  SX7 MarkII: 2000 hours or more
  SX60 : 2500 hours or more

  ![Lamp replacement]
  Replace with the new lamp.

  * The [POWER] button is available during this message is displayed.

- This message will not be displayed again if you select [Cancel] in response to the message “Do you want to display this message again?”.
- You can check the time of use of the lamp in [Lamp counter] in the [System settings] menu (P118).

Caution

- When replacing the lamp, turn off the projector, wait until the cooling fan stops, remove the power plug from the AC outlet, and let the projector stand for at least 1 hour. Otherwise, you may get burned because the main unit is very hot immediately after the projector is turned off.
- Do not touch the inner glass surface when you replace the lamp. Otherwise, the projector’s performance may degrade.
- Make sure to handle the lamp carefully and correctly since it may explode if it is scratched or shocked.
- Do not remove screws unless specified.

Replacing Lamp

This projector uses the following lamp.
Lamp type No.  SX7 MarkII: RS-LP04  
SX60 : RS-LP03

- Be sure to use the specified lamp.
- A lamp can be ordered from your dealer or Canon home page.
Replacing the Lamp

1. Turn off the projector, disconnect the power plug from the AC outlet, and then let the projector stand for at least 1 hour.

2. Loosen a screw with a flathead screwdriver and remove the lamp cover.

3. Loosen two screws, pull up the handle, and then remove the lamp.

4. Fully insert a new lamp and secure it with two screws.
   * After the installation, be sure to push down the handle.

5. Replace the lamp cover and tighten the screw.

6. Turn on the projector.


8. Select [Reset] -> [OK] to reset the lamp counter.
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<tr>
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<td>Projecting an Image from AV Equipment</td>
</tr>
<tr>
<td>Projecting an Image from the Computer</td>
</tr>
<tr>
<td>Setting Up the Projector</td>
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<td>Before Use</td>
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<td>Table of contents/Safety Instructions</td>
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</table>
## Troubleshooting

### WARNING Lamp Flash Patterns

The WARNING lamp on the Control Panel flashes in red after the projector is turned off when there is a trouble in the projector.

- Wait until the cooling fan stops and disconnect the power plug from the AC outlet before dealing with the trouble.

<table>
<thead>
<tr>
<th>Flash Pattern</th>
<th>Meaning</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>One flash</td>
<td>Temperature abnormality</td>
<td>The temperature inside the projector is too high for some reason or the outside air temperature is higher than the specified one. If the problem is inside the projector, check whether the projector is installed and operated normally, unplug the projector from the power outlet to cool down the inside of it and retry projection. If the air intake or exhaust vent is blocked, remove the obstacle. If the same warning occurs again, the projector may be defective. Contact your dealer.</td>
</tr>
<tr>
<td>Two flashes</td>
<td>Faulty lamp</td>
<td>The lamp has burnt out. Replace the lamp with a new one. If the same warning is experienced again, the lamp drive circuit may be defective. Contact your dealer.</td>
</tr>
<tr>
<td>Three flashes</td>
<td>Faulty lamp cover</td>
<td>The lamp cover is open. Unplug the projector from the power outlet, then install the lamp cover and turn on the projector again. If the lamp cover has been installed properly, the lamp cover detection switch may be defective. Contact your dealer.</td>
</tr>
<tr>
<td>Four flashes</td>
<td>Faulty cooling fan</td>
<td>The cooling fan or another component may be defective. Unplug the projector from the power outlet, then plug it to the outlet and turn on the projector again. Contact your dealer if the same warning is given.</td>
</tr>
<tr>
<td>Five flashes</td>
<td>Faulty power supply</td>
<td>The abnormal voltage is applied to some parts in the power supply or any other failure may be occurred. Unplug the projector from the power outlet, then plug it to the outlet and turn on the projector again. Contact your dealer if the same warning is given.</td>
</tr>
<tr>
<td>Six flashes</td>
<td>System failure</td>
<td>Some of the functions may be defective. Turn off the projector and retry projection. If the same warning is experienced again, contact your dealer.</td>
</tr>
</tbody>
</table>
# Symptoms and Solutions

## You cannot turn on the projector.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power cord is not connected correctly.</td>
<td>Check whether the power cord is connected correctly (P40).</td>
</tr>
<tr>
<td>The power cord has just been connected.</td>
<td>You cannot turn on the projector until the [POWER] indicator turns red after connecting the power plug (P40).</td>
</tr>
<tr>
<td>You attempted to turn on the projector immediately after turning it off.</td>
<td>The projector cannot be turned on for a while after it is turned off. Wait for a while before pressing the [POWER] button again (P60).</td>
</tr>
<tr>
<td>The safety device has activated because you put the projector in the carrying bag during the cooling fan was rotating.</td>
<td>You cannot release the safety device. Contact your dealer.</td>
</tr>
<tr>
<td>The safety device is activated because the air intake or the exhaust vent is blocked and the internal temperature of the projector is increased.</td>
<td>You cannot release the safety device for safety reasons. Contact your dealer.</td>
</tr>
</tbody>
</table>

## You cannot project an image from the projector.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any connection cable is connected incorrectly.</td>
<td>Check whether the projector is connected to the computer or AV equipment correctly (P36, 64).</td>
</tr>
<tr>
<td>20 seconds have not passed since the projector was turned on.</td>
<td>When the projector is turned on, the Opening window is displayed for approximately 20 seconds. To project an image immediately, press the [OK] button on the remote control or top control (P40).</td>
</tr>
<tr>
<td>No image is sent from the AV equipment.</td>
<td>Check that an image is played on the connected digital camera, video camcorder, DVD, etc.</td>
</tr>
<tr>
<td>The wrong video terminal or signal type is selected.</td>
<td>Check that the correct video terminal and signal type are selected (P48, 70).</td>
</tr>
<tr>
<td>The [NO SHOW] function has been selected.</td>
<td>Press the [NO SHOW] button on the remote control (P78).</td>
</tr>
<tr>
<td>No image is sent due to the problem in the computer.</td>
<td>Turn on the projector and computer in this order again.</td>
</tr>
</tbody>
</table>
### You cannot hear sound.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The audio cable is not connected correctly.</td>
<td>Check the cable connection of the audio cable (P38).</td>
</tr>
<tr>
<td>The [MUTE] function is enabled.</td>
<td>Press the [MUTE] button on the remote control (P79).</td>
</tr>
<tr>
<td>The volume level is adjusted to the minimum.</td>
<td>Press the [VOL+] button on the remote control or top control to adjust the volume level (P79).</td>
</tr>
<tr>
<td>An audio cable with a built-in resistor is used.</td>
<td>Use an audio cable without a built-in resistor.</td>
</tr>
</tbody>
</table>

### The projected image is blur.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The image is out of focus.</td>
<td>Adjust the focus (P51).</td>
</tr>
<tr>
<td>The lens cap is not removed.</td>
<td>Remove the lens cap.</td>
</tr>
<tr>
<td>The distance to the screen is too short.</td>
<td>Check whether the distance to the screen is appropriate. If the distance is shorter than approximately 1.2 m (3.9’), the projector cannot focus on the screen (P32, 133).</td>
</tr>
<tr>
<td>The projector is not placed straight in front of the screen.</td>
<td>Check whether the projector is placed obliquely to the screen. A slight error in the projection angle can be corrected through the keystone adjustment function (P43, 52).</td>
</tr>
<tr>
<td>The projector has been moved to a place where the temperature varies a lot.</td>
<td>When the projector is moved from a low-temperature place to a high-temperature place, condensation may form on the lens. The condensation will evaporate a while later and the projector will be able to project a normal image.</td>
</tr>
<tr>
<td>The lens is stained.</td>
<td>Clean up the lens (P120).</td>
</tr>
</tbody>
</table>

### You cannot project an image appropriately.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The projected image is inverted in the vertical or horizontal direction.</td>
<td>The ceiling mounted/rear projection setting is incorrect. Check the [Image flip H/V] setting in the [Display settings] menu (P97).</td>
</tr>
</tbody>
</table>
### You cannot project an image from a notebook computer.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The connection cable is not connected correctly.</td>
<td>Check whether the connection cable is connected to the video terminal of the computer correctly (P36, 37).</td>
</tr>
<tr>
<td>The video signal type is incorrect.</td>
<td>Check whether the selected signal type is correct (P91, 92, 132).</td>
</tr>
<tr>
<td>It is not set the external monitor output setting on the notebook correctly.</td>
<td>Turn on the external monitor output on the notebook computer. To turn on the external monitor output, press the [LCD] or [VGA] function key or a key with an icon for the external monitor while holding down the [Fn] key on the keyboard of the notebook computer (P45). The combination of keys used to perform this operation varies among computer manufacturers. For more detailed information, refer to the User’s Manual that came with your computer.</td>
</tr>
<tr>
<td>The displayed image is not the same as that displayed on the notebook computer.</td>
<td>Check whether the dual screen (multi-display) mode is selected on the notebook computer. If the dual screen mode has been selected, change it to the simultaneous display mode on the notebook computer. The output setting method varies among computer manufacturers. For more detailed information, refer to the User’s Manual that came with your computer.</td>
</tr>
</tbody>
</table>

### The projector is forced to be turned off.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The air intake or exhaust vent is blocked.</td>
<td>Check whether the air intake or exhaust vent is blocked. If the air intake or exhaust vent is blocked, the temperature inside the projector rises and the power is automatically turned off to protect the projector. Wait until the internal temperature gets down, and then turn on the projector without blocking the intake and exhaust vents (P22, 23, 40).</td>
</tr>
<tr>
<td>The air filter is dirty.</td>
<td>Check whether the bottom air filter is clogged with dust. If the air filter is clogged, clean or replace the air filter (P121).</td>
</tr>
<tr>
<td>The lamp has exploded (or it is defective).</td>
<td>Check whether the lamp has exploded. If the lamp has exploded, replace it. The lamp may be defective if it has not exploded. Check the lamp by replacing it with a spare lamp if you have one (P13, 122, 123).</td>
</tr>
<tr>
<td>The operating temperature is inappropriate.</td>
<td>Check whether the operating temperature is 5 to 35°C (P15).</td>
</tr>
<tr>
<td>Other reasons</td>
<td>The projector may be damaged. Contact your dealer.</td>
</tr>
</tbody>
</table>
### You cannot operate the remote control.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batteries are not installed properly or they have run out.</td>
<td>Check whether batteries are installed correctly. If batteries are installed correctly, replace them with new batteries (P29).</td>
</tr>
<tr>
<td>You are operating the remote control from the outside of the remote control operating range.</td>
<td>Check whether you are operating the remote control within the remote control operating range. And also check whether there is any obstacle between the infrared remote receiver of the projector and the remote control (P29).</td>
</tr>
<tr>
<td>You are operating the remote control under an inappropriate operating environment.</td>
<td>Check whether the infrared remote receiver of the projector is exposed to direct sunlight or strong light of lighting apparatus (P29).</td>
</tr>
<tr>
<td>The channel setting of the remote control does not match with the setting of the projector.</td>
<td>Check whether the channel setting of the remote control has been changed. You can check the [Remote control] setting in the [System settings] menu (P115).</td>
</tr>
<tr>
<td>The key lock function is prohibiting the remote control operation.</td>
<td>Check whether [Key lock] is enabled to disable the remote control operation. In the System settings menu, set [Key lock] to [Off] (P114).</td>
</tr>
</tbody>
</table>

### You cannot use the wireless mouse function.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The USB cable is not connected correctly.</td>
<td>Check whether the USB cable is connected between the projector and computer correctly (P82).</td>
</tr>
<tr>
<td>A mouse driver is not installed.</td>
<td>Check whether the mouse is functioning on the computer. If it is not, install a mouse driver to the computer.</td>
</tr>
<tr>
<td>The mouse is not recognized due to a problem in the computer.</td>
<td>Turn on the projector and computer in this order again.</td>
</tr>
</tbody>
</table>
## APPENDIX

### Table of contents for Appendix

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- Relationship between Screen Size and Projecting Distance ......................... P133
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- Menu Configuration ............................... P144
### Supported Computer Signal Types

This projector supports following signal types. If your computer or AV equipment is compatible with any one of these signal types, the projector’s auto PC function select the input signal type to project an image appropriately.

**ANALOG PC**

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<tr>
<th>Resolution (dots)</th>
<th>Signal type</th>
<th>Horizontal frequency (KHz)</th>
<th>Vertical frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 480</td>
<td>VGA</td>
<td>31.469</td>
<td>59.94</td>
</tr>
<tr>
<td>640 x 480</td>
<td>MAC LC 13</td>
<td>34.967</td>
<td>66.60</td>
</tr>
<tr>
<td>640 x 480</td>
<td>MAC 13</td>
<td>35.00</td>
<td>66.67</td>
</tr>
<tr>
<td>832 x 624</td>
<td>MAC 16</td>
<td>49.725</td>
<td>74.55</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>MAC 19</td>
<td>60.248</td>
<td>75.08</td>
</tr>
<tr>
<td>1152 x 870</td>
<td>MAC 21</td>
<td>68.681</td>
<td>75.06</td>
</tr>
<tr>
<td>1280 x 960</td>
<td>MAC</td>
<td>75.00</td>
<td>75.08</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>MAC</td>
<td>80.00</td>
<td>75.08</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>–</td>
<td>31.469</td>
<td>70.09</td>
</tr>
<tr>
<td>800 x 600</td>
<td>SVGA</td>
<td>30.00</td>
<td>60.51</td>
</tr>
<tr>
<td>800 x 600</td>
<td>MAC 13</td>
<td>35.00</td>
<td>66.67</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>XGA</td>
<td>48.363</td>
<td>60.02</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>XGA</td>
<td>56.476</td>
<td>70.07</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>XGA</td>
<td>68.677</td>
<td>85.00</td>
</tr>
<tr>
<td>1280 x 768</td>
<td>WXGA</td>
<td>47.986</td>
<td>59.83</td>
</tr>
<tr>
<td>1280 x 800</td>
<td>WXGA</td>
<td>49.702</td>
<td>60.03</td>
</tr>
<tr>
<td>1060 x 752</td>
<td>–</td>
<td>47.712</td>
<td>60.02</td>
</tr>
<tr>
<td>1152 x 864</td>
<td>–</td>
<td>64.196</td>
<td>70.39</td>
</tr>
<tr>
<td>1152 x 900</td>
<td>–</td>
<td>61.17</td>
<td>65.28</td>
</tr>
<tr>
<td>1280 x 960</td>
<td>–</td>
<td>60.00</td>
<td>60.00</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>SXGA</td>
<td>62.50</td>
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<tr>
<td>1280 x 1024</td>
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<td>67.19</td>
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<td>72.00</td>
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<td>SXGA</td>
<td>79.976</td>
<td>75.03</td>
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<tr>
<td>1400 x 1050</td>
<td>SXGA+</td>
<td>81.135</td>
<td>76.11</td>
</tr>
<tr>
<td>1600 x 1200</td>
<td>UXGA</td>
<td>75.00</td>
<td>60.00</td>
</tr>
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<td>640 x 480</td>
<td>MAC LC 13</td>
<td>34.967</td>
<td>66.60</td>
</tr>
<tr>
<td>640 x 480</td>
<td>MAC 13</td>
<td>35.00</td>
<td>66.67</td>
</tr>
<tr>
<td>832 x 624</td>
<td>MAC 16</td>
<td>49.725</td>
<td>74.55</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>MAC 19</td>
<td>60.248</td>
<td>75.08</td>
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<tr>
<td>1152 x 870</td>
<td>MAC 21</td>
<td>68.681</td>
<td>75.06</td>
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<tr>
<td>1280 x 960</td>
<td>MAC</td>
<td>75.00</td>
<td>75.08</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>MAC</td>
<td>80.00</td>
<td>75.08</td>
</tr>
</tbody>
</table>

**DIGITAL PC**

<table>
<thead>
<tr>
<th>Resolution (dots)</th>
<th>Signal type</th>
<th>Horizontal frequency (KHz)</th>
<th>Vertical frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 480</td>
<td>D-VGA</td>
<td>31.469</td>
<td>59.94</td>
</tr>
<tr>
<td>800 x 600</td>
<td>D-SVGA</td>
<td>37.879</td>
<td>60.32</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>D-XGA</td>
<td>48.363</td>
<td>60.00</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>D-SXGA*</td>
<td>63.981</td>
<td>60.02</td>
</tr>
<tr>
<td>1400 x 1050</td>
<td>D-SXGA+*</td>
<td>63.981</td>
<td>60.02</td>
</tr>
</tbody>
</table>

* Only for SX7 MarkII/SX60

** DIGITAL VIDEO**

<table>
<thead>
<tr>
<th>Signal type</th>
<th>Horizontal frequency (KHz)</th>
<th>Vertical frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-480p</td>
<td>31.469</td>
<td>59.94</td>
</tr>
<tr>
<td>D-575p</td>
<td>31.250</td>
<td>50.00</td>
</tr>
<tr>
<td>D-720p</td>
<td>44.955</td>
<td>59.94</td>
</tr>
<tr>
<td>D-1080i**</td>
<td>28.125</td>
<td>50.00</td>
</tr>
<tr>
<td>D-1080i**</td>
<td>33.716</td>
<td>59.94</td>
</tr>
</tbody>
</table>

** Interlaced signal

** COMPONENT**

<table>
<thead>
<tr>
<th>Signal type</th>
<th>Horizontal frequency (KHz)</th>
<th>Vertical frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>480p</td>
<td>31.469</td>
<td>59.94</td>
</tr>
<tr>
<td>480i**</td>
<td>15.734</td>
<td>59.94</td>
</tr>
<tr>
<td>575p</td>
<td>31.250</td>
<td>50.00</td>
</tr>
<tr>
<td>575i**</td>
<td>15.625</td>
<td>50.00</td>
</tr>
<tr>
<td>720p</td>
<td>44.955</td>
<td>59.94</td>
</tr>
<tr>
<td>1035i**</td>
<td>33.750</td>
<td>60.00</td>
</tr>
<tr>
<td>1080i**</td>
<td>33.716</td>
<td>59.94</td>
</tr>
</tbody>
</table>

** Interlaced signal

- The specifications in the table above are subject to change without prior notice.
- This projector does not support any computer signal of which dot clock is 170MHz or higher.
- Use a full connected VGA cable in which all pins are connected; otherwise, an image may be projected improperly.
### Relationship between Screen Size and Projecting Distance

<table>
<thead>
<tr>
<th>Screen size at 4:3 aspect ratio Type – W x D (cm)</th>
<th>Projecting distance at (m)</th>
<th>H1 (cm)</th>
<th>H2 (cm)</th>
<th>Screen size at 16:9 aspect ratio Type – W x D (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. zooming</td>
<td>Min. zooming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40&quot; 81 x 61</td>
<td>1.2 (3.9')</td>
<td>2.0 (6.6')</td>
<td>55 (1.8')</td>
<td>6 (0.2')</td>
</tr>
<tr>
<td>50&quot; 102 x 76</td>
<td>1.5 (4.9')</td>
<td>2.5 (8.2')</td>
<td>69 (2.3')</td>
<td>8 (0.26')</td>
</tr>
<tr>
<td>60&quot; 122 x 91</td>
<td>1.8 (5.9')</td>
<td>2.9 (9.6')</td>
<td>82 (2.7')</td>
<td>9 (0.3')</td>
</tr>
<tr>
<td>70&quot; 142 x 107</td>
<td>2.1 (6.9')</td>
<td>3.4 (11.2')</td>
<td>96 (3.1')</td>
<td>11 (0.36')</td>
</tr>
<tr>
<td>80&quot; 163 x 122</td>
<td>2.4 (7.9')</td>
<td>3.9 (12.9')</td>
<td>110 (3.6')</td>
<td>12 (0.4')</td>
</tr>
<tr>
<td>90&quot; 183 x 137</td>
<td>2.7 (8.9')</td>
<td>4.4 (14.6')</td>
<td>123 (4.0')</td>
<td>14 (0.46')</td>
</tr>
<tr>
<td>100&quot; 203 x 152</td>
<td>3.0 (9.8')</td>
<td>4.9 (16.1')</td>
<td>137 (4.5')</td>
<td>15 (0.49')</td>
</tr>
<tr>
<td>110&quot; 224 x 168</td>
<td>3.3 (10.8')</td>
<td>5.4 (17.7')</td>
<td>151 (5.0')</td>
<td>17 (0.5')</td>
</tr>
<tr>
<td>120&quot; 244 x 183</td>
<td>3.6 (11.8')</td>
<td>5.9 (19.4')</td>
<td>165 (5.4')</td>
<td>18 (0.59')</td>
</tr>
<tr>
<td>130&quot; 264 x 198</td>
<td>3.9 (12.8')</td>
<td>6.4 (21')</td>
<td>178 (5.8')</td>
<td>20 (0.66')</td>
</tr>
<tr>
<td>140&quot; 284 x 213</td>
<td>4.2 (13.8')</td>
<td>6.9 (22.6')</td>
<td>192 (6.3')</td>
<td>21 (0.69')</td>
</tr>
<tr>
<td>150&quot; 305 x 229</td>
<td>4.5 (14.8')</td>
<td>7.4 (24.2')</td>
<td>206 (6.8')</td>
<td>23 (0.75')</td>
</tr>
<tr>
<td>160&quot; 325 x 244</td>
<td>4.8 (15.5')</td>
<td>7.9 (25.9')</td>
<td>219 (7.2')</td>
<td>24 (0.79')</td>
</tr>
<tr>
<td>170&quot; 345 x 259</td>
<td>5.1 (16.8')</td>
<td>8.4 (27.4')</td>
<td>233 (7.6')</td>
<td>26 (0.85')</td>
</tr>
<tr>
<td>180&quot; 366 x 274</td>
<td>5.4 (17.7')</td>
<td>8.9 (29.2')</td>
<td>247 (8.1')</td>
<td>27 (0.86')</td>
</tr>
<tr>
<td>190&quot; 386 x 290</td>
<td>5.6 (18.4')</td>
<td>–</td>
<td>250 (8.2')</td>
<td>28 (0.9')</td>
</tr>
<tr>
<td>200&quot; 406 x 305</td>
<td>5.9 (19.4')</td>
<td>–</td>
<td>261 (8.6')</td>
<td>29 (0.95')</td>
</tr>
<tr>
<td>210&quot; 427 x 320</td>
<td>6.2 (20.3')</td>
<td>–</td>
<td>274 (9.0')</td>
<td>30 (0.98')</td>
</tr>
<tr>
<td>220&quot; 447 x 335</td>
<td>6.5 (21.3')</td>
<td>–</td>
<td>288 (9.4')</td>
<td>32 (1.05')</td>
</tr>
<tr>
<td>230&quot; 467 x 351</td>
<td>6.8 (22.3')</td>
<td>–</td>
<td>302 (9.9')</td>
<td>34 (1.12')</td>
</tr>
<tr>
<td>240&quot; 488 x 366</td>
<td>7.1 (23.3')</td>
<td>–</td>
<td>315 (10.3')</td>
<td>35 (1.15')</td>
</tr>
<tr>
<td>250&quot; 508 x 381</td>
<td>7.4 (24.3')</td>
<td>–</td>
<td>329 (10.8')</td>
<td>37 (1.21')</td>
</tr>
<tr>
<td>260&quot; 528 x 396</td>
<td>7.7 (25.3')</td>
<td>–</td>
<td>343 (11.3')</td>
<td>38 (1.25')</td>
</tr>
<tr>
<td>270&quot; 549 x 411</td>
<td>8.0 (26.3')</td>
<td>–</td>
<td>357 (11.7')</td>
<td>40 (1.31')</td>
</tr>
<tr>
<td>280&quot; 569 x 427</td>
<td>8.3 (27.2')</td>
<td>–</td>
<td>370 (12.1')</td>
<td>41 (1.35')</td>
</tr>
<tr>
<td>290&quot; 589 x 442</td>
<td>8.6 (28.2')</td>
<td>–</td>
<td>384 (12.6')</td>
<td>43 (1.41')</td>
</tr>
<tr>
<td>300&quot; 610 x 457</td>
<td>8.9 (29.2')</td>
<td>–</td>
<td>398 (13.1')</td>
<td>44 (1.44')</td>
</tr>
</tbody>
</table>

*Note: Min. zooming indicates the minimum projecting distance for optimal viewing; Max. zooming indicates the maximum distance for the screen size.*
Glossary

* is only applicable to SX7 MarkII

6-axis color adjust (P107)
The color adjustment function for an advanced user. You can adjust color balance and color level for 6 axis of RGB (red/green/blue) and CMY (cyan/magenta/yellow) of the projected image to make a fine color adjustment. You can perform the 6-axis color adjustment in the image adjustment menu.

AdobeRGB (P55, 102)
A color space specification set up by Adobe systems Incorporated which is applied to high performance digital cameras, displays and others. You can project an image with more accurate color reproduction since Its has wider color gamut than sRGB.
In SX7 MarkII, if you select [AdobeRGB] in the [Image mode] setting, the projector can project the best-quality image conforming to the AdobeRGB Standard. Please be aware that color of the projected image may vary with that of the original image if you project an AdobeRGB compatible image in sRGB mode or project an sRGB compatible image in AdobeRGB mode.

Ambient light* (P108)
Lightning environment around the projector.
You can correct and project an image more appropriately according to the ambient light on the screen via the setting of [Ambient light] if you have selected [Photo] for [Image mode].

Analog PC (P27, 36, 93)
A signal system used to send analog signal information of R (red), G (green), and B (blue). It is a typical system for connecting a color monitor to a computer. Connect the analog PC output terminal on the computer and Input Terminal-1 or Input Terminal-2 on this projector with a monitor cable. Select [ANALOG PC-1] for Input Terminal-1 and [ANALOG PC-2] for Input Terminal-2 at projection.

Aspect (P57, 73, 90)
The aspect ratio is the ratio of the horizontal (longer) dimension to the vertical (shorter) dimension of a screen. It is expressed as "longer dimension: shorter dimension." The following aspect ratio is normally used:

[4:3]
The aspect ratio widely accepted in the standard screen resolution, for example the traditional television screen and VGA (640 x 480) and XGA (1024 x 768) in PC. The aspect ratio for this projector is 4:3.

[5:4]
This aspect ratio is used if you select the resolution such as SXGA (1280X1024) in PC. The shorter dimension in [5:4] is a little longer than that in [4:3]. An image with aspect ratio of 5:4 is properly displayed if you select [Auto] for [Aspect]; however, the margins are displayed on both sides of the screen.

[16:9]
The aspect ratio for the high definition or wide-screen. WXGA (1280 x 768 and 1360 x 768) is used as the aspect ratio close to 16:9 for the wide screen monitor in PC. An image with aspect ratio of 16:9 is properly displayed if you select [Auto] for [Aspect]; however, the margins are displayed at the top and bottom of the screen.

For the aspect ratio for movie screens, "vista vision size*" and "cinema scope size", etc. are used.

"Vista vision size"
The aspect ratio close to 16:9. Select [Auto] or [Wide] for [Aspect]. The black belts are added at the top and bottom of the image.

"Cinema scope size"
The landscape-oriented aspect ratio of 8:3. Select [Auto] or [Wide] for [Aspect]. The black belts are added at the top and bottom of the image.
Color temperature* (P105)
A value that represents the related color in a light source in general. In this projector, the color temperature is used to adjust the RGB color balance for the projected image to correct the related color influence by the ambient light. If you increase and decrease the color temperature, white changes to blue and red, respectively. You can set the color temperature in the [Color adjustment] menu if [Photo] has been selected for [Image mode].

Component (P27, 64, 92)
A signal system in which an image is transmitted by being broken down the brightness signal (Y) and the color signal (C) into the B-Y color difference signal and the R-Y color difference signal. Its image quality is higher than that of the composite video. This system can project a better-quality image as compared with the composite signal system. Connect the component video terminal on the AV equipment and the ANALOG IN-2 terminal on this projector with a component cable. Select [COMPONENT] at projection.

Composite (P27, 66)
A video signal system used to send a brightness signal (Y) and a color signal (C) together. Connect the composite output (RCA) terminal on the AV equipment and the VIDEO IN terminal on this projector with a video cable. Select [VIDEO] at projection.

Digital PC (P27, 37)
A signal system used to send digital information of individual display dots. This system is free from deterioration of image quality because of no analog conversion. Connect the DVI output terminal on the computer and Input Terminal-1 on this projector with a DVI connection cable. Select [DIGITAL PC] at projection.

DVI (P37, 48, 65, 70)
A digital video signal connection interface for a computer and AV equipment. This interface allows digital data to be transmitted without converting to analog data, assuring high image quality with no signal degradation. The DVI-I (integrated) connector can be used to transmit both an analog video signal and digital video signal.

Gain (P105)
A parameter that adjusts the reproduction range of a brightness signal from black to white within the image signal to naturally reproduce it on the screen. The reproducibility of the bright tone is mainly changed. Since you can adjust the gain for each RGB color in this projector, you can also adjust colors. The gain is normally adjusted with the offset.

Gamma Correction (P104, 106)
A tone adjustment system used during projection of image data. The gamma correction function works effectively when portions of an image are obscure because they are too light or dark.

This projector supports manual gamma correction and dynamic gamma correction which performs the gamma correction automatically.

HDCP
An abbreviation of High-bandwidth Digital Content Protection which is an encryption technology for copy protection of digital image signals. In this projector, you can project digital contents copy-protected with the HDCP technology. To project the contents, connect the Input Terminal-1 on the projector and an HDMI terminal or DVI terminal on an AV equipment with a dedicated cable, and then select [DIGITAL VIDEO] from the [INPUT] menu.
HDMI (P65, 70)
A digital video signal connection interface for an AV equipment. Its terminal is more compact than the DVI terminal. It allows to transmit video and audio signals simultaneously.

Memorized Color Correction (P107)
A memorized color is a color in our memory. The memorized color such as blue for the sky is more vivid than the real color, so you may feel colors of a projected image are dull. If such is the case, enable the memorized color correction function to make the colors close to the ones in our memory. You can enable the memorized color correction function in the image adjustment menu.

Offset (P105)
A parameter that shifts the reproduction range of a brightness signal from black to white within an image signal toward the higher or lower level of brightness. The reproducibility of the dark tone is mainly changed. Since you can adjust the offset for each RGB color in this projector, you can also adjust colors. The offset is normally adjusted with the gain.

Progressive (P96)
An image display system used to display the entire screen per scan. For an interlace signal (video signal) that displays one screen by two scans (one for odd lines and one for even lines) is input, progressive processing is required. When the progressive function is turned off, one screen is displayed using image signals per interlace signal, deteriorating the vertical resolution of the image. When the progressive function is turned on, one screen is displayed using image signals per two interlace signals, improving the vertical resolution of the image. Turn off the progressive function when flickering and horizontal lines are noticeable on a fast-moving picture.

Resolution (P44, 91)
The number of dots (horizontal dots x vertical dots) that can be displayed on a computer is called “resolution of display”. Resolution indicates the size of the display area (amount of information).

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Number of dots Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>640</td>
<td>480</td>
</tr>
<tr>
<td>SVGA</td>
<td>800</td>
<td>600</td>
</tr>
<tr>
<td>XGA</td>
<td>1024</td>
<td>768</td>
</tr>
<tr>
<td>SXGA</td>
<td>1280</td>
<td>1024</td>
</tr>
<tr>
<td>SXGA+</td>
<td>1400</td>
<td>1050</td>
</tr>
<tr>
<td>UXGA</td>
<td>1600</td>
<td>1200</td>
</tr>
</tbody>
</table>

If you select SXGA+ (1400 dots x 1050 dots) as the display resolution for the connecting computer, this projector can project high-resolution images. If your computer does not have the SXGA+ option, select the maximum resolution among the selectable options.

sRGB (P55, 102)
An international standard of color representation (color space) which is applied to general digital cameras, displays and others. In this projector, if you select [sRGB] in the [Image mode] setting, the projector can project the best-quality image conforming to the sRGB Standard.
**S-video (P27, 66, 92)**

A signal system (YC separation signal) used to send a brightness signal (Y) and color signal (C) separately. Connect the S-video terminal on the AV equipment and the S-VIDEO IN terminal on this projector with an S-video cable. Select [S-VIDEO] at projection.

**Tracking (P93)**

To reproduce an image from an analog image signal, the process to accumulate image information at the appropriate timing with reference to the synchronization signal within the image signal. This process is called the tracking. This projector can display an image properly by automatically adjust the tracking with the auto PC adjustment function even if there is a small difference in the synchronization signal from an analog imaging device.

**Video (P27, 66, 92)**

An output terminal widely used in an AV equipment. It is also called as a composite output terminal (pin terminal or RCA terminal). For more details, refer to "Composite".
###Specifications

####Projector

<table>
<thead>
<tr>
<th>Model name</th>
<th>SX7 MarkII/SX60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display system</td>
<td>RGB liquid crystal system</td>
</tr>
<tr>
<td>Optical system</td>
<td>Color separation by dichroic mirror/polarizing beam splitter and color composition by prism</td>
</tr>
<tr>
<td><strong>Display device</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Reflective liquid crystal panel</td>
</tr>
<tr>
<td>Size/Aspect ratio</td>
<td>0.7&quot; x 3 panels/4 : 3</td>
</tr>
<tr>
<td>Drive system</td>
<td>active matrix system</td>
</tr>
<tr>
<td>Number of pixels/</td>
<td></td>
</tr>
<tr>
<td>Total Number of pixels</td>
<td>SX7 MarkII/SX60: 1,470,000 (1400 x 1050) x 3 panels/4,410,000</td>
</tr>
<tr>
<td><strong>Projection lens</strong></td>
<td></td>
</tr>
<tr>
<td>Zoom ratio/Focal length/F value</td>
<td>1.7x/f=21.7 to 35.8 mm/F1.85 to F2.5</td>
</tr>
<tr>
<td>Zooming and focusing system</td>
<td>Electronic operation/electronic operation (with auto focusing function)</td>
</tr>
<tr>
<td>Lens shift</td>
<td>9 : 1 (fixed)</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td></td>
</tr>
<tr>
<td>SX7 MarkII:</td>
<td>275W high-pressure lamp, SX60: 180W high-pressure lamp</td>
</tr>
<tr>
<td><strong>Screen size (projection distance)</strong></td>
<td>40&quot; to 300&quot; (1.2 to 9 m)</td>
</tr>
<tr>
<td><strong>Number of reproducible colors</strong></td>
<td>16,770,000 colors (full color)</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>SX7 MarkII: 4000 lm, SX60: 2500 lm</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1000:1 (full white : full black)/2000:1 (SX60 in Home Cinema mode)</td>
</tr>
<tr>
<td><strong>Uniformity</strong></td>
<td>88%</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>1W monaural x 1</td>
</tr>
<tr>
<td><strong>Maximum input resolution</strong></td>
<td>1600 x 1200 dots (compression)</td>
</tr>
<tr>
<td><strong>Video signals</strong></td>
<td></td>
</tr>
<tr>
<td>ANALOG PC input</td>
<td>UXGA/SXGA+/WXGA/SXGA/SXGA/SVGA/VGA (scan rate: horizontal: 15 to 100KHz, vertical 50 to 100Hz)</td>
</tr>
<tr>
<td>DIGITAL PC input</td>
<td>SX7 MarkII/SX60: SXGA+/SXGA/SXGA/SVGA/VGA</td>
</tr>
<tr>
<td>COMPONENT input</td>
<td>1080i, 1035i, 720p, 575i, 575p, 480i, 480p</td>
</tr>
<tr>
<td>RGB SCART input</td>
<td>575i</td>
</tr>
<tr>
<td>DIGITAL VIDE input</td>
<td>1080i, 720p, 575p, 480p</td>
</tr>
<tr>
<td><strong>Input terminals</strong></td>
<td></td>
</tr>
<tr>
<td>Terminal-1 Digital PC, analog PC, digital video (DVI-I connector 29-pin)</td>
<td></td>
</tr>
<tr>
<td>Terminal-2 Analog PC, component, SCART (mini D-sub 15-pin)</td>
<td></td>
</tr>
<tr>
<td>SERVICE PORT RS-232C (mini DIN 8-pin)</td>
<td></td>
</tr>
<tr>
<td><strong>Video Output terminal</strong></td>
<td>Analog PC (mini D-sub 15-pin)</td>
</tr>
<tr>
<td><strong>Audio Output terminal</strong></td>
<td>Audio signal (SX7 MarkII: stereo mini jack)</td>
</tr>
<tr>
<td><strong>Input signals</strong></td>
<td></td>
</tr>
<tr>
<td>Digital PC</td>
<td>TMDS (Transition Minimized Differential Signaling)</td>
</tr>
<tr>
<td>Analog PC</td>
<td>0.7Vp-p, positive polarity, impedance = 75Ω</td>
</tr>
<tr>
<td>Video</td>
<td>Video: 1Vp-p, negative synchronization, impedance = 75Ω</td>
</tr>
<tr>
<td>S-video</td>
<td>S-video: Separate YC signal, Y: 1Vp-p, negative synchronization, impedance = 75Ω</td>
</tr>
<tr>
<td>Component</td>
<td>Component: Separate Y Cr/Pb Cr/Pr signal</td>
</tr>
<tr>
<td>Audio</td>
<td>Y: 1Vp-p, negative synchronization, impedance = 75Ω</td>
</tr>
<tr>
<td>Noise</td>
<td>SX7 MarkII: 35/31 db, SX60: 30/27 db</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>5 °C to 35 °C</td>
</tr>
<tr>
<td>Power consumption</td>
<td>AC 100 – 240 V, 50/60 Hz</td>
</tr>
</tbody>
</table>

####Remote Control

| Power supply      | Two 3.0 V, AAA-size batteries |
| Operating range   | About 5 m (16.4') (to infrared remote receiver) |
| Weight            | 42 (W) x 22 (H) x 135 (D) mm / 1.7 (W) x 0.9 (H) x 5.3 (D) in |

* 99.99% or more of the LCD panel pixels are effective. During projection, 0.01% or less of pixels may stay lit or unlit due to the characteristics of the LCD panel.

* Using the projector continuously for an extended period of time may accelerate the deterioration of optical parts.
External View

Input terminal-2 (ANALOG IN-2) (Analog PC-2 input/component input terminal)
This terminal is used as a computer analog PC input or component input terminal. Use a D-sub computer cable for connection.

Mini D-sub 15-pin

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
<td>9</td>
<td>+5 V power</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>G</td>
<td>10</td>
<td>Ground (Vertical sync.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>11</td>
<td>Monitor ID0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Monitor ID2</td>
<td>12</td>
<td>DDC data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Ground (Horizontal sync.)</td>
<td>13</td>
<td>Horizontal sync.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Ground (R)</td>
<td>14</td>
<td>Vertical sync.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Ground (G)</td>
<td>15</td>
<td>DDC clock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Ground (B)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The terminal specifications for the analog PC-2 input and component input are the same.
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Options

- Replacement lamp
  Part No.:
  SX7 MarkII: RS-LP04
  SX60: RS-LP03

- Ceiling-mount hanger
  Part No.: RS-CL07

- Ceiling-mount pipe
  (35 cm/13.8 in to 55 cm/21.7 in)
  Part No.: RS-CL08*

- Ceiling-mount pipe
  (55 cm/21.7 in to 95 cm/37.4 in)
  Part No.: RS-CL09*

- DVI digital cable
  Part No.: LV-CA29

- SCART cable
  Part No.: LV-CA31

- Network adapter
  Part No.: RS-NA01 (SX60)

* This part is used to hang the projector from a ceiling.

For more detailed information, refer to the instruction manual that comes with the ceiling-mount hanger RS-CL07.
### Menu Configuration

#### The Display settings menu

<table>
<thead>
<tr>
<th>Aspect</th>
<th>DIGITAL PC/ANALOG PC</th>
<th>P90</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Full screen *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wide</td>
<td></td>
</tr>
<tr>
<td></td>
<td>True size</td>
<td></td>
</tr>
<tr>
<td>VIDEO/S-VIDEO/SCART</td>
<td>Full screen *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wide</td>
<td></td>
</tr>
<tr>
<td>DIGITAL VIDEO/COMPONENT</td>
<td>Auto *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full screen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wide</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input signal select</th>
<th>ANALOG PC</th>
<th>P91</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>640 x 480</td>
<td></td>
</tr>
<tr>
<td></td>
<td>...</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1280 x 1024</td>
<td></td>
</tr>
<tr>
<td>VIDEO/S-VIDEO</td>
<td>Auto *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NTSC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SECAM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NTSC4.43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PAL-M</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PAL-N</td>
<td></td>
</tr>
<tr>
<td>COMPONENT</td>
<td>Auto *</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1080i</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1035i</td>
<td></td>
</tr>
<tr>
<td></td>
<td>720p</td>
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</tr>
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<td></td>
<td>575p</td>
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</tr>
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<td></td>
<td>480p</td>
<td></td>
</tr>
<tr>
<td></td>
<td>575i</td>
<td></td>
</tr>
<tr>
<td></td>
<td>480i</td>
<td></td>
</tr>
<tr>
<td>SCART</td>
<td>575i</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input signal settings</th>
<th>ANALOG PC</th>
<th>P93</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total dots</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tracking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horizontal position</td>
<td>P94</td>
</tr>
<tr>
<td></td>
<td>Vertical position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horizontal pixels</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vertical pixels</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Progressive</th>
<th>COMPONENT/VIDEO/ S-VIDEO</th>
<th>P96</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>On</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auto *</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Menu position</th>
<th>P96</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen color</td>
<td>Normal *</td>
</tr>
<tr>
<td></td>
<td>Greenboard</td>
</tr>
<tr>
<td></td>
<td>Adjust Red/Green/Blue</td>
</tr>
<tr>
<td>Image flip H/V</td>
<td>None *</td>
</tr>
<tr>
<td></td>
<td>Ceiling mounted</td>
</tr>
<tr>
<td></td>
<td>Rear</td>
</tr>
<tr>
<td></td>
<td>Rear, Ceiling mounted</td>
</tr>
</tbody>
</table>

| User screen settings | Logo capture (SX60) | OK/Cancel | P98 |
|----------------------|---------------------|-----------|
|                      | Logo position (SX60) | Upper L | P99 |
|                      |                     | Upper R  |     |
|                      |                     | Center * |     |
|                      |                     | Lower L  |     |
|                      |                     | Lower R  |     |
| No signal screen     | Black               | Blue *   | P99 |
|                      | Blue                | User logo (SX60) |
| NO SHOW              | Black *             | Blue    | P100|
|                      | User logo (SX60)    | Skip    |     |
|                      | User logo (SX60)    |         |     |

<table>
<thead>
<tr>
<th>Screen aspect</th>
<th>P101</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:3</td>
<td></td>
</tr>
<tr>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>16:9 D. image shift</td>
<td></td>
</tr>
</tbody>
</table>

* Factory defaults (settings after reset)
** You can set this if you have selected [Photo] for [Image mode].
***SX7 II: It is available if the input signal is [DIGITAL VIDEO], [COMPONENT], [VIDEO] or [S-VIDEO].
**The Image adjustment menu**

<table>
<thead>
<tr>
<th>Image mode</th>
<th>DIGITAL PC/ANALOG PC</th>
<th>P102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo (SX7 II)</td>
<td>COMMON</td>
<td></td>
</tr>
<tr>
<td>Standard *</td>
<td>Presentation</td>
<td></td>
</tr>
<tr>
<td>Movie***</td>
<td>Home Cinema (SX60)</td>
<td></td>
</tr>
<tr>
<td>AdobeRGB (SX7 II)</td>
<td>sRGB</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>P103</td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td>P103</td>
<td></td>
</tr>
<tr>
<td>Sharpness</td>
<td>P104</td>
<td></td>
</tr>
<tr>
<td>Gamma</td>
<td>P104</td>
<td></td>
</tr>
<tr>
<td>Color adjustment</td>
<td>COMPONENT/VIDEO/ S-VIDEO</td>
<td>P106</td>
</tr>
<tr>
<td>Color level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color balance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIGITAL PC/ANALOG PC</td>
<td>P105</td>
<td></td>
</tr>
<tr>
<td>Color temperature**</td>
<td>(SX7 II)</td>
<td></td>
</tr>
<tr>
<td>COMMON</td>
<td>R Gain</td>
<td></td>
</tr>
<tr>
<td>R Offset</td>
<td>G Gain</td>
<td></td>
</tr>
<tr>
<td>G Offset</td>
<td>B Gain</td>
<td></td>
</tr>
<tr>
<td>B Offset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced adjustment</td>
<td>Dynamic gamma</td>
<td>Off *</td>
</tr>
<tr>
<td>Mem. color correct</td>
<td>Off</td>
<td>P107</td>
</tr>
<tr>
<td>6-axis color adjust</td>
<td>Off *</td>
<td>P107</td>
</tr>
<tr>
<td>Return</td>
<td>Adjust</td>
<td>Hue/Saturation</td>
</tr>
<tr>
<td>DIGITAL PC/ANALOG PC</td>
<td>Ambient light**</td>
<td>(SX7 II)</td>
</tr>
<tr>
<td>Off</td>
<td>Adjust</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Tungsten</td>
<td></td>
</tr>
<tr>
<td>Fluorescent</td>
<td>Fluorescent H</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>H</td>
<td></td>
</tr>
<tr>
<td>Lamp mode</td>
<td>Normal</td>
<td>P109</td>
</tr>
<tr>
<td>Quiet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td>OK/Cancel</td>
<td>P110</td>
</tr>
</tbody>
</table>

**The System settings menu**

| Auto setup | P111 |
| Auto focus | Off | On * |
| Auto keystone | Off | On * |
| Auto input | Off | On * |
| Auto screen color | Off * | On |
| Power management mode | Off * | P111 |
| Direct power on | Off * | On |
| Beep | Off | On * |
| Key lock | Off * | Main unit |
| Language | English | Turkish | P113 |
| German | Polish | |
| French | Hungarian | |
| Italian | Czech | |
| Spanish | Danish | |
| Portuguese | Chinese | (Simplified) | |
| Swedish | Russian | Chinese | (Traditional) | |
| Finnish | Korean | |
| Norwegian | Japanese | |
| Guide | Off | On * | P114 |
| LED illumination | Off | On * | P115 |
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| Digital Video | F * | P116 |
| Password settings | Off * | On | P116 |
| Register password | Password input | P117 |
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| Return | | |