As the owner of a new Multimedia Projector, you are probably eager to try out your new projector. Before you do, we suggest that you spend a little time reading this manual to familiarize yourself with the operating procedures so that you will receive maximum satisfaction from the many features included in your new projector. This owner's manual will acquaint you with your projector's features. Reading it will help us too. Through the years, we have found that many service requests were not caused by problems with our projectors. They were caused by problems that could have been prevented, if the owner had followed the instructions in the manual. You can often correct operating problems yourself. If your projector fails to work properly, see "TROUBLESHOOTING" section on pages 44 ~ 45 and try the solution marked for each problem.

SAFETY PRECAUTIONS

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

This Projector has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature.

This projector produces intense light from the projection lens. Do not stare directly into the lens as possible eye damage could result. Be especially careful that children do not stare directly into the beam.

The Remote Control Unit, supplied to this projector, emits the laser beam as the Laser Pointer function from the Laser Light Window while pressing the LASER button (for 1 minute). Do not look into the Laser Light Window or shine the laser beam on yourself or other people. Eye damage may result.

This projector should be set in the way indicated. If not, It may result in fire hazard.

If the projector will not be used for an extended time, unplug the projector from the power outlet.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.
IMPORTANT SAFETY INSTRUCTIONS

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

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

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

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or 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 follow the manufacturer’s instructions, and should use a mounting kit approved by the manufacturer.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

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.

This projector should be operated only from 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 persons walking on it.

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 on the projector.

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

Unplug this projector from 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 by following the operating instructions. Adjust only those controls that are covered by 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 operation.

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 service.

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

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

This projector is equipped with a grounding type AC line plug. Should you be unable to insert the plug into the outlet, contact your electrician. Do not defeat the safety purpose of this grounding type plug.

Follow all warnings and instructions marked on the projectors.

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

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

If the projector is to be built into a compartment or similarly enclosed, 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.
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• Each name of corporations or products in the owner’s manual is a trademark or a registered trademark of its respective corporation.
FEATURES AND DESIGN

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. The projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

◆ Compatibility
This projector is compatible with many different types of personal computers and video devices, including:
- IBM-compatible computers, including laptops, up to 1280 x 1024 resolution.
- Apple Macintosh and PowerBook computers up to 1280 x 1024 resolution.
- Various video equipment using any of the world wide video standards, including NTSC, NTSC4.43, SECAM, PAL, PAL-M and PAL-N.

◆ Image Resolution
Picture Image of the computer is projected in the resolution of 1024 x 768 and it is provided just as it appears on your computer's monitor. Screen resolutions between 1024 x 768 and 1280 x 1024 are compressed to 1024 x 768, and this projector cannot display screen resolutions above 1280 x 1024. If your computer's screen resolution is higher than 1280 x 1024, reset it to a lower resolution before you connect the projector.

◆ Portability
This projector is quite compact in size and weight. Having a sophisticated shape like an attaché case with a retractable carrying handle, the projector will help you make powerful presentations wherever you go.

◆ Automatic Multiscanning System
This projector automatically tune to the most personal computers currently distributed by simply connecting. It is free from complicated adjustments to project picture images from most personal computers.

◆ Multilanguage Menu Display
Operation menu is displayed in; English, Deutsch, Français, Italiano, Español, or Japanese

◆ Turbo Bright System
Brightness of 1500 ANSI lumens, the highest available in ultra portable models, is achieved. (1200 ANSI lumens in the standard mode.)

◆ PC CARD SLOT
This projector has a PC CARD SLOT for easier presentations. Pictures can be projected just by inserting a memory card including image data. Presentation data can be edited by “Media Card Imager” software (supplied). Refer to the pages 32 ~ 39 of this manual and the Owner's Manual for Media Card imager for operations.

◆ Laser Pointer Function
The Remote Control Unit of this projector includes the Laser Pointer function providing the ability to point and highlight during presentations.

◆ Other Features
This projector has Motor Zoom/Focus, No Show, Picture Freeze, Keystone, Mute functions.

◆ Accessories
This projector comes with the parts listed below. Check to make sure all are included. If any parts are missing, contact to a sales dealer.
- AC Power Cord.
- Wireless Remote Control Unit.
- Batteries for Remote Control Unit.
- VGA Cable.
- Control Cable for PS/2 Port.
- Media Card Imager for Windows 95 (CD-ROM) and Owner’s Manual for this software.
- Lens Cover and Strap for Lens Cover.
- Dust Cover.
NAME OF EACH PART OF THE PROJECTOR

FRONT OF THE CABINET

- PROJECTION LENS
- PC CARD SLOT
- LENS COVER
- INFRARED REMOTE RECEIVER
- SPEAKER (Monaural)
- CARRY HANDLE

BACK OF THE CABINET

- EXHAUST VENT
  - HOT AIR EXHAUSTED!
  - Air blown from the exhaust vent is hot. When using or installing the projector, following attention should be taken.
  - Do not put a flammable object near this vent.
  - Keep heat-sensitive objects away from the exhaust vent.
  - Do not touch this area especially screws and metallic parts. This area will become hot while the projector is used.

- POWER CORD CONNECTOR
- BRIGHT SWITCH
- INFRARED REMOTE RECEIVER

BOTTOM OF THE CABINET

- AIR INTAKE VENTS
  - These Air Intake Vents should not be blocked.

- LAMP COVER
- ADJUSTABLE FEET AND FEET LOCK LATCHES
SETTING-UP THE PROJECTOR

POSITIONING THE PROJECTOR

- This projector is designed to project on a flat projection surface.
- The projector can be focused from 4.6'(1.4m) ~ 35.4'(10.8m).
- Refer to the figure below to adjust the screen size.

![Screen Size Chart]

<table>
<thead>
<tr>
<th>Screen Size (W x H) mm</th>
<th>30&quot;</th>
<th>60&quot;</th>
<th>100&quot;</th>
<th>150&quot;</th>
<th>200&quot;</th>
<th>300&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (H1)</td>
<td>17.1&quot;</td>
<td>34.3&quot;</td>
<td>57.1&quot;</td>
<td>85.7&quot;</td>
<td>114.3&quot;</td>
<td>171.4&quot;</td>
</tr>
<tr>
<td>Height (H2)</td>
<td>0.9&quot;</td>
<td>1.7&quot;</td>
<td>2.9&quot;</td>
<td>4.3&quot;</td>
<td>5.7&quot;</td>
<td>8.6&quot;</td>
</tr>
</tbody>
</table>

ROOM LIGHT

The level of brightness in a room has a great influence on picture quality. It is recommended to limit ambient lighting in order to provide the best image.

ADJUSTABLE FEET

Picture tilt and projection angle can be adjusted by rotating the ADJUSTABLE FEET. Projection angle can be adjusted to 10 degrees.

1. Lift the front of the projector and pull the FEET LOCK LATCHES on both sides of the projector.
2. Release the FEET LOCK LATCHES to lock the ADJUSTABLE FEET and rotate the ADJUSTABLE FEET to fine tune the position and the tilt.
3. To shorten the ADJUSTABLE FEET, lift the front of the projector and pull and undo the FEET LOCK LATCHES.

The position and the keystone distortion of the image can also be adjusted using the Menu Operation. (Refer to pages 21, 29, 30 and 37.)
CONNECTING THE AC POWER CORD

This projector uses nominal input voltages of 100-120 V AC. The projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure of the type of power supply in use. Connect the projector with the peripheral equipment before turning the projector on. (Refer to pages 10 ~ 13 for connection.)

CAUTION
For safety, unplug the AC Power Cord when the appliance is not in use. When this projector is connected to the outlet with the AC Power Cord, the appliance is in Stand-by Mode and consumes some electric power.

VENTILATION

This projector is equipped with cooling fans for protection from overheating. Pay attention to the following to ensure proper ventilation and avoid a possible risk of fire and malfunction.

- Do not cover the vent slot.
- Keep the rear grill at least 3 feet (1m) away from any object.
- Keep sides clear of any obstructions. Obstructions may block cooling air.
PREPARATION

MOUNTING LENS COVER

When moving this projector, or when it is not used for an extended period, replace the lens cover.

1. Secure the Strap for Lens Cover through the hole of the Lens Cover.
2. Turn the power off, and disconnect the AC power cord from the AC outlet.
3. Turn the projector upside down. Secure the Strap for Lens Cover to the hole on the bottom of the projector with the screw.

MOVING THE PROJECTOR

Use the Carry Handle when moving the Projector.
When moving the projector, replace the lens cover and retract the feet to prevent damage to the lens and the cabinet.

When this projector is not in use for an extended period, replace the Lens Cover, retract the Adjustable Feet and cover the unit with the Dust Cover supplied with this projector.

CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When transporting the projector, use a carrying case recommended by Canon.
- Do not transport the projector by using a courier or transport service in an unsuitable transport case. This may cause damage to the projector. To transport the projector through a courier or transport service, use a case recommended by Canon.
- For carrying or transportation cases, contact a Canon authorized dealer.
**TERMINALS OF THE PROJECTOR**

**S-VIDEO INPUT JACK**
Connect the S-VIDEO output from the video equipment to this terminal. 
(Refer to P11.)

**VIDEO INPUT JACK**
Connect the video output from the video equipment to this terminal. 
(Refer to P11.)

**AUDIO INPUT JACKS**
Connect the audio outputs from the video equipment to these terminals. 
(Refer to P11.)
- When the audio output is monaural, connect it to the L (mono) jack.

**COMPUTER AUDIO INPUT JACK**
Connect the audio output from the computer to this terminal. 
(Refer to P12, 13.)

**AUDIO OUTPUT JACK (STEREO)**
Connect the audio amplifier to this terminal. 
(Refer to P12, 13.)

**CONTROL PORT CONNECTOR**
When controlling the computer with the Remote Control of this projector, connect the mouse port of your personal computer to this terminal. It is also used for write on or read from the data of the PC CARD SLOT in MCI mode. 
(Refer to P12, 13, 35.)

**CONTROL PORT CONNECTOR**
When controlling the computer with the Remote Control of this projector, connect the mouse port of your personal computer to this terminal. It is also used for write on or read from the data of the PC CARD SLOT in MCI mode. 
(Refer to P12, 13, 35.)

**COMPUTER INPUT / MONITOR OUTPUT TERMINAL**
Terminal : HDB15-PIN
Connect the display output terminal of the computer to COMPUTER INPUT with the VGA Cable (supplied). And connect the monitor to MONITOR OUTPUT with the monitor cable (not supplied). When connecting the Macintosh computer, the MAC Adapter (not supplied) is required.

Pin Configuration

**CONTROL PORT CONNECTOR**
Terminal : Mini DIN 8-PIN
Connect control port (PS/2, Serial or ADB port) on your computer to this terminal with the Control Cable (the Control Cable for PS/2 port is supplied).
CONNECTING TO THE VIDEO EQUIPMENT

Video Source (example)

- Video Cassette Recorder
- Video Disc Player

Cables used for connection
- VIDEO CABLE *
- S-VIDEO CABLE *
- AUDIO CABLE (stereo) *

* These cables are not supplied with this projector.

Video / Audio Output
- S-VIDEO Output

Use either the VIDEO jack or the S-VIDEO jack. When the both jacks are connected, the S-VIDEO jack has priority over the VIDEO jack.

Terminals of the Projector

Video Audio Cable *
S-VIDEO Cable *

Audio Cable (Stereo) *

External Audio Equipment
- Audio Speaker (stereo)
- Audio Amplifier

NOTE:
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet. Turn the projector and peripheral equipment on before the computer is switched on.
CONNECTING THE PROJECTOR

CONNECTING TO THE COMPUTER

To connect to the computer, refer to the figure below.

**Cables used for connection**

- VGA CABLE
- CONTROL CABLE FOR PS/2 PORT
- CONTROL CABLE FOR SERIAL PORT, or ADB PORT *
- MAC ADAPTER *
- MONITOR CABLE *
- PC AUDIO CABLE (stereo) *

* These cables are not supplied with this projector.

IBM-compatible computers or Macintosh computers (VGA / SVGA / XGA / SXGA)

![Diagram showing connection setup]

**NOTE:**
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet. Turn the projector and peripheral equipment on before the computer is switched on.
Use one of these Control Cables corresponding with the terminal of your computer.

Set the switches as shown in the table below depending on the RESOLUTION MODE that you want to use before your turn on the projector and computer.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Switch 1</th>
<th>Switch 2</th>
<th>Switch 3</th>
<th>Switch 4</th>
<th>Switch 5</th>
<th>Switch 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>13&quot; MODE (640 x 480)</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>16&quot; MODE (832 x 624)</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>19&quot; MODE (1024 x 768)</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>21&quot; MODE (1152 x 870)</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

MAC ADAPTER (Not supplied)
**Before Operation**

**Operation of the Remote Control**

**Left Side**

- **ALL-OFF SWITCH**
  When using the Remote Control Unit, turn this switch to “ON” and turn it “ALL OFF” when it is not used.

- **VIDEO BUTTON**
  Used to select VIDEO source. (P30)

- **COMPUTER / MCI BUTTON**
  Used to select source either COMPUTER or MCI mode. (P23)

- **MENU BUTTON**
  Used to select MENU operation. (P17-19)

- **SELECT BUTTON**
  Used to execute the item selected or to expand the image in DIGITAL ZOOM mode. (P29, 37)

- **LASER BUTTON**
  Used to operate laser pointer function. The laser beam is emitted while pressing this button within 1 minute. When using the laser pointer for more than 1 minute, release the button and press it again.

**Right Side**

- **POWER ON-OFF BUTTON**
  Used to turn the projector on or off. (P20)

- **POINT BUTTON**
  Used to move the pointer on the MENU, to adjust the item, or to pan the image in DIGITAL ZOOM mode. (P29, 37)
  It is also used as a PC mouse in Wireless Mouse Operation. (P41)
  *When pressing the center of this button, it works as the SELECT button.*

- **RIGHT CLICK BUTTON**
  Used to compress the image in DIGITAL ZOOM mode. (P29, 30, 37)
  It is also used as a PC mouse in Wireless Mouse Operation. (P41)

**LASER POINTER FUNCTION**

This remote control emits a laser beam as the Laser Pointer from the Laser Light Window. When the LASER button is pressed, the laser light goes on. And when the button is pressed more than 1 minute or the button is released, light goes off. Laser light is emitted with the RED light which tells the laser beam being emitted.

The laser emitted is a class II laser; therefore, do not look into the Laser Light Window or shine the laser beam on yourself or other people. The three marks below are the caution labels for the laser beam.

**CAUTION**: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

These caution labels are put on the remote control.
To insure safe operation, please observe the following precautions:

- Use (2) AA type alkaline batteries.
- Replace two batteries at the same time.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid.
- Do not expose the Remote Control Unit to moisture, or heat.
- Do not drop the remote control unit.
- If batteries have leaked on the remote control, carefully wipe the case clean and install new batteries.
**TOP CONTROLS AND INDICATORS**

**MENU BUTTON**
- Used to open or close the MENU operation. (P17, 19)

**NORMAL BUTTON**
- Used to reset to normal picture adjustment preset by factory. (P27, 31, 36)

**SELECT BUTTON**
- Used to execute the item selected. It is also used to expand the image in DIGITAL ZOOM mode. (P29, 37)

**ZOOM BUTTONS**
- Used to select zoom adjust. (P21)

**VOLUME BUTTON**
- Used to adjust volume. (P22)

**BRIGHT SWITCH INDICATOR**
- This indicator lights when the BRIGHT SWITCH is set to BRIGHTER. (P22)

**LAMP REPLACE INDICATOR**
- This indicator turns yellow when the life of the projection lamp draws to an end. (P43)

**WARNING TEMP. INDICATOR**
- This indicator flashes red when internal projector temperature is too high. (P42)

**READY INDICATOR**
- This indicator is lit in green when the projector is ready to be turned on.

**POWER ON-OFF BUTTON**
- Used to turn the projector on or off. (P20)

**MODE BUTTON**
- Used to select input source among Computer, Video or MCI. (P23, 30)

**AUTO IMAGE BUTTON**
- Used to operate AUTO IMAGE function. (P28)

**POINT BUTTONS**
- Used to select an item and adjust the value on the MENU. It is also used to pan the image in DIGITAL ZOOM mode. (P29, 37)

**FOCUS BUTTONS**
- Used to select focus adjust. (P21)

**PAGE BUTTON**
- Used to move to the next / previous page of the data in the memory card plugged into PC CARD SLOT. Page buttons are activated in MCI mode (P34).

**LAMP INDICATOR**
- This indicator is dim when the projector is turned on. And bright when the projector is in stand-by mode.
OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

You can control and adjust this projector through the ON-SCREEN MENU. Refer to the following pages to operate each adjustment on the ON-SCREEN MENU.

1 MOVING THE POINTER
Move the pointer (see the NOTE below) by pressing POINT button(s) on the TOP CONTROL or the REMOTE CONTROL.

2 SELECT THE ITEM
Select the item by pressing SELECT button.

NOTE: Pointer is the icon on the ON-SCREEN Menu to select the item. See the figures on the section “FLOW OF ON-SCREEN MENU” below.

FLOW OF ON-SCREEN MENU

Display ON-SCREEN MENU
1 Press MENU button to display the ON-SCREEN MENU (MENU BAR). The red frame is the POINTER.

Select the Item
2 Move the POINTER (red frame) to the ITEM ICON that you want to select by pressing POINT RIGHT/LEFT buttons.
3 Select the ITEM by pressing SELECT button. The dialog box of the ITEM appears.

Control and adjust through ON-SCREEN MENU
4 Move the POINTER downward by pressing POINT DOWN button. (The shape of the POINTER becomes an arrow.)
5 Move the POINTER to the ITEM that you want to adjust and adjust the ITEM by pressing SELECT button. Refer to the following pages for details of respective adjustments.
BEFORE OPERATION

MENU BAR

MENU BAR IN COMPUTER MODE
Press MENU BUTTON while in Computer mode.

- **MODE MENU**
  Used to select the Computer input mode.
  (Refer to P23)

- **SYSTEM MENU**
  Used to select a computer system.
  (Refer to P23)

- **POSITION MENU**
  Used to adjust the position of the image.
  (Refer to P28)

- **PC ADJUST MENU**
  Used to adjust the parameters to match with the input signal format.
  (Refer to P24, 25)

- **SETTING MENU**
  Used to set the Display Menu and to reset Lamp Replacement Monitor Timer.
  (Refer to P40)

- **IMAGE MENU**
  Used to adjust the computer image.
  [Fine sync. / Total dots / White Balance / Contrast / Brightness]
  (Refer to P27)

- **SCREEN MENU**
  Used to adjust the size of the image or to correct the Keystone distortion.
  (Refer to P29)

- **AUTO IMAGE MENU**
  Used to adjust Fine sync., Total dots, and Picture Position automatically.
  (Refer to P28)

- **LANGUAGE MENU**
  Used to select the language used in the Menu.
  (Refer to P40)

- **AUTO IMAGE MENU**
  Used to adjust Fine sync., Total dots, and Picture Position automatically.
  (Refer to P28)

- **SYSTEM MENU**
  Used to select a color system among [PAL, SECAM, NTSC, NTSC 4.43, PAL-M and PAL-N].
  (Refer to P30)

- **IMAGE MENU**
  Used to adjust the picture image.
  [Color / Tint / White Balance / Contrast / Brightness / Sharpness]
  (Refer to P31)

- **SCREEN MENU**
  Used to set the size of the image either Regular or Wide, or to correct the Keystone distortion.
  (Refer to P30)

MENU BAR IN VIDEO MODE
Press MENU BUTTON while in Video mode.

- **MODE MENU**
  Used to select the Video input.
  (Refer to P30)

- **IMAGE MENU**
  Used to adjust the picture image.
  [Color / Tint / White Balance / Contrast / Brightness / Sharpness]
  (Refer to P31)

These icons have the same function as the Computer Mode.
Press MENU BUTTON while in MCI mode.

- **MODE MENU**
  - Used to select the MCI input mode.
  - (Refer to P33)

- **POSITION MENU**
  - Used to adjust the position of the image.
  - (Refer to P36)

- **VIEW MENU**
  - Used to display, read or write the image data in a memory card through the PC CARD SLOT.
  - (Refer to P34, 35)

- **IMAGE MENU**
  - Used to adjust the computer image. [White Balance / Contrast / Brightness]
  - (Refer to P36)

- **SCREEN MENU**
  - Used to adjust the size of the image or to correct the Keystone distortion.
  - (Refer to P37)

These icons have the same function as the Computer Mode.
BASIC OPERATIONS

TURNING ON / OFF THE PROJECTOR

TURNING ON THE PROJECTOR

1. Complete the peripheral connections (with Computer, VCR, etc.) before turning on the projector. (Refer to "CONNECTING TO THE PROJECTOR" on Pages 10~13 for connecting that equipment.)

2. Connect the projector's AC power cord into a wall outlet. The LAMP indicator lights RED, and the READY indicator lights GREEN.

3. Press the power ON-OFF button on the Remote Control Unit or on the Top Control to ON. The LAMP POWER indicator dims, and the Cooling Fans start to operate. The Preparation Display appears on the screen and the count-down starts. The signal from the source appears after 30 seconds.

TURNING OFF THE PROJECTOR

1. Press the power ON-OFF button on the Remote Control Unit or on the Top Control, and the message "Power off?" appears on the screen.

2. Press the power ON-OFF button again to turn off the projector. The LAMP indicator lights bright and the READY indicator turns off. The Cooling Fans operate for 90 seconds after the projector is turned off. (During this "Cooling Down" period, this appliance cannot be turned on.)

3. When cooling the projector has finished, the READY indicator turns to green again and you can turn the projector on. After cooling down completely, disconnect the AC power cord.

TO MAINTAIN THE LIFE OF THE LAMP, ONCE YOU TURN IT ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

When the TEMPERATURE WARNING indicator flashes red, the projector is automatically turned off. Wait at least 5 minutes before turning the projector on again.

If the TEMPERATURE WARNING indicator continues to flash, follow procedures below:
1. Disconnect the AC power cord from the AC outlet.
2. Check the air filters for dust accumulation.
3. Clean the Air Filter. (See "AIR FILTER CARE AND CLEANING" section on page 42.)
4. Press the power ON-OFF button to ON.

If the TEMPERATURE WARNING indicator still continues to flash, call your authorized dealer or service station.

NOTE: The Cooling Fan may work for cooling while the projector is turned off. When the Cooling Fan is working, TEMPERATURE WARNING INDICATOR flashes red.
ADJUSTING THE IMAGE

ZOOM ADJUSTMENT

1. Press the ZOOM WIDE/TELE buttons on the Top Control or the ZOOM ▲▼ button on the Remote Control Unit to turn into the ZOOM mode.

2. Press the ZOOM WIDE button or the ZOOM ▲ button to make the image larger, and press the ZOOM TELE button or the ZOOM ▼ button to make the image smaller.

In the Computer mode, the image can be expanded, compressed, and panned with the Digital Zoom function. Refer to page 29 and 37 for the Digital Zoom operation.

FOCUS ADJUSTMENT

1. Press the FOCUS ▲▼ button(s) on the Top Control or on the Remote Control Unit to turn into the FOCUS mode.

2. Adjust the focus of the image by pressing the FOCUS ▲▼ button(s).

KEYSTONE ADJUSTMENT

If the picture has keystone distortion, correct image with KEYSTONE adjustment.

1. Press the KEYSTONE ▲▼ button on the Remote Control Unit or select the Keystone on the SCREEN menu. (Refer to page 29, 30, 37.) The message “Keystone” is displayed.

2. Correct the Keystone distortion by pressing the KEYSTONE ▲▼ button or the POINT UP/DOWN button(s). Press the KEYSTONE ▲ button or the POINT UP button to reduce the upper part or the image, and press the KEYSTONE ▼ button or the POINT DOWN button to reduce the lower part.

Reduce the upper width with the KEY STONE ▲ button or the POINT UP button.

Reduce the lower width with the KEY STONE ▼ button or the POINT DOWN button.
BASIC OPERATION

BRIGHT SWITCH

Slide the BRIGHT SWITCH to the BRIGHTER position to enhance the picture brightness. When the BRIGHT SWITCH is set to the BRIGHTER position, the BRIGHT SWITCH INDICATOR lights on. (P16) To return the original image, slide the switch to the STANDARD position.

* When the BRIGHT SWITCH is set to the BRIGHTER position, the color of image may change slightly.

NO SHOW FUNCTION

Press the NO SHOW button on the Remote Control Unit to black out the image. This function is cancelled when the NO SHOW button is pressed again or any other function button is pressed.

PICTURE FREEZE FUNCTION

Press the FREEZE button on the Remote Control Unit to freeze the picture on screen. This function is cancelled when the FREEZE button is pressed again or any other function button is pressed.

SOUND ADJUSTMENT

SOUND VOLUME ADJUSTMENT

Press the VOLUME button on the Top Control or the VOLUME (+/−) button on the Remote Control Unit to adjust the volume. The Volume dialog box appears on the screen for a few seconds. The POINT UP or VOLUME (+) button increase the volume, and the POINT DOWN or the VOLUME (−) button decrease the volume.

SOUND MUTE ADJUSTMENT

Press the MUTE button on the Remote Control Unit to mute the sound. To restore the sound to its previous level, press the MUTE button again or press Volume button(s).
SELECTING COMPUTER MODE

DIRECT OPERATION
Select COMPUTER mode by pressing the MODE button on the Top Control or the COMPUTER / MCI button on the Remote Control Unit.

MENU OPERATION
Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select Computer and press the SELECT button.

CURRENT MODE DISPLAY
When selecting the Computer Mode, the Current Mode display appears. It shows the information of the computer of the mode selected.

SELECTING COMPUTER SYSTEM

AUTOMATIC MULTISCANNING SYSTEM
This projector automatically tunes to most different types of computer based on VGA, SVGA, XGA or SXGA (refer to “COMPATIBLE COMPUTER SPECIFICATION” on page 26). When selecting Computer, this projector automatically tunes to the incoming signal and projects the proper image without any special setting. (Setting of the Computer System may be required when connecting some computers.)

Note: The projector may provide the messages below.

Go to PC adj. The projector cannot discriminate or detect the input signal from the computer. Adjust and set the computer system manually. (Refer to page 24.)

No signal There is no signal input from the computer. Make sure the connection of the computer and the projector is set correctly. (Refer to TROUBLESHOOTING on page 44.)

SELECT COMPUTER SYSTEM MANUALLY
To set the Computer system manually, select the mode on the ON-SCREEN MENU.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SYSTEM and press the SELECT button. Another dialog box COMPUTER MODE Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the system that you want to set, and then press SELECT button.
COMPUTER MODE

PC ADJUSTMENT

This Projector can automatically tune to the display signals from most personal computers currently distributed. However, some computers employ the special signal formats which are different from the standard ones and may not be tuned by Multiscanning of this projector. If this happens, the projector cannot reproduce a proper image and the image is recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.

This projector has PC ADJUSTMENT function, to enable you to precisely adjust several parameters to match with those exceptional signal formats and the projector has five independent memory areas to memorize those parameters manually adjusted. This enables you to recall the setting for a specific computer whenever you use it.

Note: This PC ADJUSTMENT function cannot be operated when “RGB,” “HDTV1035i” or “HDTV1080i” is selected on the SYSTEM MENU (P23 and 26).

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT RIGHT/LEFT buttons to select PC ADJUST and press the SELECT button. Another dialog box “Where to reserve” Menu will appear.

2 In this dialog box, you can store the parameter into the area from “Mode 1” to “Mode 5.” When memorizing the new computer parameter, select the Mode with the message of “Free” by pressing the POINT UP/DOWN buttons and the SELECT button. To change the parameters of the Mode previously set, select the Mode with “Stored.”

3 When the Mode is selected, Parameter adjustment dialog box appears. Move the arrow to the item that you want to change by pressing the POINT UP/DOWN buttons, and adjust each item to match your computer. To change the value, press either the POINT RIGHT button or the POINT LEFT button. Refer to the next page for adjusting each item.

4 Move the arrow to “Stored” and press the SELECT button. The parameter is memorized in the selected Mode.

5 To activate the Mode manually adjusted in this PC ADJUSTMENT Menu, select the Mode at the SYSTEM SELECT Menu. (Refer to page 23.)
**Total lines**
The number of the total vertical lines. Adjust the number to match the image of your personal computer.

**Total dots**
The number of the total dots in one horizontal period. Adjust the number to match the image of your personal computer.

**Horizontal / Vertical**
Adjustment of the horizontal or vertical picture position. When the image is not centered on the screen, adjust each of those items.

**Clamp**
Adjustment of the clamp level. When the image has a dark bar(s), try this adjustment.

**Display area**
Adjustment of the area displayed with this projector. Select the resolution at the Display area dialog box, or adjust the number at the column of “H” or “V” to match the resolution of the image.

**Full Screen**
Set “On” to resize the image with 4 x 3 aspect ratio to fit the screen.

Each of the keys operates as follow.

- **Reset**  
  Recalls the parameter data that was previously adjusted.

- **Mode free**  
  Clears the parameter data previously set.

- **Stored**  
  Stores the parameters in the memory.

- **Quit**  
  Closes the PC ADJUST Menu.
Basically this projector can accept the signal from all computers with the V, H-Frequency mentioned below and less than 140 MHz of Dot Clock.

<table>
<thead>
<tr>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (kHz)</th>
<th>V-Freq. (Hz)</th>
<th>ON-SCREEN DISPLAY</th>
<th>RESOLUTION</th>
<th>H-Freq. (kHz)</th>
<th>V-Freq. (Hz)</th>
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NOTE: Specifications are subject to change without notice.
PICTURE IMAGE ADJUSTMENT

ADJUST PICTURE IMAGE MANUALLY

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select IMAGE and press the SELECT button. Another dialog box PICTURE IMAGE ADJUSTMENT Menu will appear.

2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item that you want to change by pressing the POINT UP/DOWN buttons. To change the value, press either the POINT RIGHT button or the POINT LEFT button.

   **Fine sync.**
   Adjust the picture as necessary to eliminate flicker from the display. (From 0 to 255.)

   **Total dots**
   The number of the total dots in one horizontal period. Adjust the number to match your PC image.

   **White balance (Red / Green / Blue)**
   Move the arrow to the color that you want to adjust. Press POINT LEFT button to lighten the color and press POINT RIGHT button to deepen the color. (From 0 to 63.)

   **Contrast**
   Press POINT LEFT button to decrease contrast, and press POINT RIGHT button to increase contrast. (From 0 to 63.)

   **Brightness**
   Press POINT LEFT button to darken the image, and press POINT RIGHT button to brighten the image. (From 0 to 63.)

Each of the keys operates as follow.

- **Reset**  .... Recalls the data previously adjusted.
- **Stored**  .... Stores the adjusted data in the memory.
- **Quit**  .... Closes the PICTURE IMAGE ADJUSTMENT Menu.

**NOTE:** The Fine sync. and the Total dots cannot be fully adjusted when “RGB,” “HDTV1035i” or “HDTV1080i” is selected on the SYSTEM MENU (P23 and 26).

NORMAL FUNCTION

The normal picture level is preset on this projector at the factory and can be restored anytime you press the NORMAL button (located on the Top Control or on the Remote Control Unit). The “Normal” display will be displayed on the screen for a few seconds.
The Auto Image function is provided to automatically adjust Fine sync., Total dots, and Picture Position for most computers.

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select AUTO IMAGE and press the SELECT button. Another dialog box AUTO IMAGE Menu will appear.

2. Move the arrow to an item that you want to adjust by pressing the POINT UP/DOWN button. Change the setting On or Off by pressing the SELECT button.

- **Fine sync.**
  Adjust the picture as necessary to eliminate flicker from the display. This item can be adjusted manually. (Refer to page 27.)

- **Total dots**
  The number of the total dots in one horizontal period. This item can be adjusted manually. (Refer to page 27.)

- **Position**
  Adjustment of the position of the image. This item can be adjusted manually. (Refer to page 28.)

3. Move the arrow to "Go!" and press the SELECT button to start the Auto Image function. This adjustment can be executed by pressing AUTO IMAGE button on the Top Control and the Remote Control Unit.

- **Stored**
  Stores the On/Off setting of each item.

- **Go!**
  Starts the Auto Image Adjustment.

- **Quit**
  Closes the AUTO IMAGE ADJUSTMENT Menu.

**NOTE:** The Fine sync. and the Total dots cannot be fully adjusted when "RGB," "HDTV1035i" or "HDTV1080i" is selected on the SYSTEM MENU (P23 and 26). The Fine sync., Total dots, and Picture Position of some computers may not be fully adjusted with the Auto Image Function. In that case, manual adjustment is required to make fine image. (Refer to page 27 to adjust "Fine sync." or "Total dots" and page 28 to adjust Picture Position.)

**PICTURE POSITION ADJUSTMENT**

The position of the image can be adjusted vertically and horizontally through PICTURE POSITION ADJUSTMENT.

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select POSITION and press the SELECT button. The PICTURE POSITION dialog box will appear.

2. Move the image by pressing the POINT UP / DOWN / RIGHT / LEFT buttons.

To cancel POSITION mode, press any button except SELECT, RIGHT CLICK, POINT, PAGE ▲▼ or LASER button. To recall the position previously adjusted, press NORMAL button.
This projector has a picture screen resize function, which enables you to display the image in desirable size.

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SCREEN and press the SELECT button. Another dialog box PICTURE SCREEN Menu will appear.

2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the function that you want to select and then press SELECT button.

**True**

To make the image into its original size select True in the dialog box. When the original image size is larger than the screen size (1024 x 768), this projector enters Digital Zoom mode automatically.

**Keystone**

When the image is distorted vertically, select Keystone in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “Keystone” is displayed. Correct the Keystone distortion by pressing the KEYSTONE ▲/▼ button or the POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 21.

**Digital Zoom**

To adjust the image size or pan the image, select Digital zoom in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “D. Zoom” is displayed. This projector also enters Digital Zoom mode by pressing the D.ZOOM ▲/▼ button on the Remote Control Unit. Refer to the following for operation.

**Expand function**

To expand the image size, press the D.ZOOM ▲ button or the SELECT button. The image is magnified by degrees.

**Compress function**

To compress the image size, press the D.ZOOM ▼ button or the RIGHT CLICK button. The size of image is reduced by degrees.

**Panning function**

To pan the image, press the POINT UP/DOWN/LEFT/RIGHT buttons. Panning function can work only when the image is larger than the screen size.

To cancel Digital Zoom mode, press any button except D.ZOOM ▲/▼, SELECT, RIGHT CLICK, POINT, PAGE ▲/▼ or LASER button. To adjust the image to the screen size (1024 x 768), press NORMAL button.

- This projector cannot display in any resolution higher than 1280 X 1024. If your computer’s screen resolution is higher than 1280 X 1024, reset the resolution lower before connecting the projector.
- The image data in other than XGA (1024 x 768) is modified to fit the screen size in the initial mode.
- The normal “Panning Operation” may not function properly if the computer system prepared with the “PC Adjust” is used.

**NOTE** : The True and the Digital Zoom cannot be operated when “RGB,” “HDTV1035i” or “HDTV1080i” is selected on the SYSTEM MENU (P23 and 26).
VIDEO MODE

SELECTING VIDEO MODE

DIRECT OPERATION
Select VIDEO mode by pressing the MODE button on the Top Control or the VIDEO button on the Remote Control Unit.

MENU OPERATION
Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select Video and press the SELECT button.

SELECTING COLOR SYSTEM

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SYSTEM and press the SELECT button. Another dialog box VIDEO SYSTEM Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to "Auto", and then press the SELECT button.

Auto
The projector automatically detects the incoming Video system, and adjusts itself to optimize its performance. When the Video System is PAL-M or PAL-N, select the system manually.

PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N
If the projector cannot reproduce the proper video image, it is required to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, or PAL-N.

PICTURE SCREEN ADJUSTMENT
This projector has a picture screen resize function, which enables you to display the image in desirable size.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SCREEN and press the SELECT button. Another dialog box PICTURE SCREEN ADJUSTMENT DISPLAY will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the screen size that you want to set, and then press the SELECT button.

Regular
Normal Video Image size with 4 x 3 aspect ratio.

Wide
Resizes the image for wide screen size with 16 x 9 aspect ratio.

Keystone
When the image is distorted vertically, select Keystone in the dialog box. Correct the Keystone distortion by pressing KEYSTONE ▲/▼ button or POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 21.
Each of the keys operates as follow.

- **Reset** ..... Recalls the data previously adjusted.
- **Stored** ..... Stores the data in the memory.
- **Quit** ..... Closes the PICTURE IMAGE ADJUSTMENT Menu.

### NORMAL FUNCTION

The normal picture level is preset on this projector at the factory and can be restored anytime you press the NORMAL button (located on the Top Control or on the Remote Control Unit). The “Normal” display will be displayed on the screen for a few seconds.
OPERATING THE PC CARD SLOT

This projector has a PC CARD SLOT and the data in a memory card (Compact Flash™ Card with PCMCIA Adapter or PC card) can be displayed just by inserting the card into it. It is unnecessary to connect with other input equipment. Media Card Imager (supplied with CD-ROM) can edit the image data and record it into a memory card for projecting with the projector.

HOW TO LOAD THE MEMORY CARD INTO THE PROJECTOR

**LOAD**
Insert PCMCIA Adapter (with Compact Flash™ Card) or PC card into PC CARD SLOT. Make sure EJECT button pops out.
NOTE: Be sure to insert the memory card with the front side facing left of the projector. Do not insert the card in the reverse. The card may be damaged.

**UNLOAD**
Press EJECT button, and the memory card pops out.
NOTE: Do not take the card out of the PC CARD SLOT while the data is loading. Data and the card can be damaged.
AVAILABLE DATA

This projector can project the image data through the PC CARD SLOT, as follows;
- The data edited by “Media Card Imager.”
- The data of the resolution between VGA (640 X 480) and SXGA (1280 X 1024) in Bit Map type (BMP) or JPEG type (JPG), such as Digital Camera data, can be also displayed.
   (Some image data in SXGA size may not be displayed properly. In that case, reset the resolution lower.)

Refer to “SHOW THE DATA IN THE MEMORY CARD” on page 34 to display the image data.

AVAILABLE CARD

Compact Flash™ Card (with PCMCIA Adapter) or Type || PCMCIA-ATA Card can be used with this projector. (Those memory cards are not supplied with this projector.)

Refer to CF CARD AND PCMCIA ADAPTER on pages 38 and 39 for operation.
NOTE: Some PCMCIA Adapter or PC Card is not available for this projector and cannot provide the image data. In that case, use the optional Canon Compact Flash Card and PCMCIA Adapter.

SELECTING MCI MODE

When the memory card is inserted into PC CARD SLOT, the MCI mode is automatically selected and the first Page of the latest Index is projected onto the screen. To switch to the MCI mode manually, operate as follows.

DIRECT OPERATION

Select MCI mode by pressing the MODE button on the Top Control or the COMPUTER / MCI button on the Remote Control Unit.

MENU OPERATION

Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select MCI and press the SELECT button.

Media Card Imager

Media Card Imager (CD-ROM) is supplied with this projector to edit the image data for projecting. Installation of Media Card Imager is recommended. Refer to Owner’s Manual of Media Card Imager for installation and operation.
**SHOW THE DATA IN THE MEMORY CARD**

**BASIC OPERATION**

1. Insert the memory card and select the MCI mode. The data in the memory card is displayed.

2. To change pages, press the PAGE button on the Top Control and then press the POINT UP/DOWN buttons. (The pages can also be changed with the PAGE ▲▼ button on the Remote Control.) When the “Display Timer” is set in the image with the Media Card Imager, the image is changed to another automatically.

   To select Index or Page in the table, follow the instructions of INDEX SELECTION and PAGE SELECTION below.

**Index and Page**

The data edited with Media Card Imager is the **Index** format consisting of several **Pages**. To project the desirable image, select the Index and then select the Page in the Index.

- This projector can project only image data in Bit Map or in JPEG format or the data edited by Media Card Imager (supplied) through the PC CARD SLOT. Other data is not compatible and should be edited and written to a memory card with Media Card Imager before loading into PC CARD SLOT.

- (The data in Bit Map or in JPEG format, such as the data captured with a digital camera, can be projected directly through PC CARD SLOT.)

- If there is the data edited by Media Card Imager and other data (such as in Bit Map type or JPEG type) together in one memory card, the data edited by Media Card Imager has a priority to be projected with the LCD projector. The other image data in Bit Map type or JPEG type is not projected. In that case, edit that data and write it to the memory card with the Media Card Imager.

**INDEX SELECTION**

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select VIEW and press the SELECT button. Another dialog box VIEW SETTING menu will appear.

2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to “Index”, and then press the SELECT button. The table of Indexes in the memory card will appear.

3. Press the POINT UP/DOWN/LEFT/RIGHT buttons to move to the Index that you want to project and press the SELECT button. The first Page of the Index selected is displayed. (Press SELECT button again to display the table of Pages.)

**PAGE SELECTION**

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select VIEW and press the SELECT button. Another dialog box VIEW SETTING menu will appear.

2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to “Page”, and then press the SELECT button. The table of pages of the index card will appear.

3. Press the POINT UP/DOWN/LEFT/RIGHT buttons to move to the Page that you want to project and press the SELECT button. The page selected is displayed on the screen. The table of Pages can be displayed by pressing the SELECT button when the page is displayed on full screen.
WRITE DATA INTO THE MEMORY CARD

The data edited by Media Card Imager in the computer can be written to or read from the memory card with the PC Card drive of your Personal Computer or the PC CARD Slot of this projector.

The data edited by Media Card Imager is written in Bit Map type (BMP) or JPEG type (JPG).

ACCESS TO THE MEMORY CARD THROUGH THE PROJECTOR

If your computer doesn’t have the PC card writing equipment, the data can be written or read by connecting with this projector.

NOTE : This operation can be made only by Media Card Imager in the Personal Computer.

1. Connect the projector to your computer with the Control Cable for Serial Port (optionally supplied). (Refer to “CONNECTING COMPUTER” on Page 12, 13.) Insert the memory card into PC CARD SLOT of the projector. And then, turn on the projector first and then the computer.

2. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select VIEW and press the SELECT button. Another dialog box VIEW SETTING menu will appear.

3. Press POINT DOWN button and a red arrow will appear. Move the arrow to Card access by pressing POINT UP/DOWN button. And then press SELECT button. “Ready to access” is displayed.

Operate Media Card Imager of your computer to write/read the data in the PC card. (Refer to Owner’s Manual of Media Card Imager for operation.)

NOTE : Connect the projector to the computer with Control Cable before turning those appliances on.

Do not press any button while read/write operations are in progress. Those operations are canceled and the data in the memory card may be damaged.
PICTURE IMAGE ADJUSTMENT

ADJUST THE PICTURE IMAGE MANUALLY

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select IMAGE and press the SELECT button. Another dialog box PICTURE IMAGE ADJUSTMENT Menu will appear.

2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item by pressing the POINT UP/DOWN buttons. To change the value press either the POINT RIGHT button or the POINT LEFT button.

White balance (Red / Green / Blue)
Move the arrow to the color that you want to adjust. Press POINT LEFT button to lighten the color, and press POINT RIGHT button to deepen the color. (From 0 to 63.)

Contrast
Press POINT LEFT button to decrease contrast, and press POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness
Press POINT LEFT button to darken the image, and press POINT RIGHT button to brighten the image. (From 0 to 63.)

Each of the keys operates as follow.

- Reset: Recalls the data previously adjusted.
- Stored: Stores the adjusted data in the memory.
- Quit: Closes the PICTURE IMAGE ADJUSTMENT Menu.

NORMAL FUNCTION

The normal picture level is preset on this projector at the factory and can be restored anytime you press the NORMAL button (located on the Top Control or on the Remote Control Unit). The “Normal” display will be displayed on the screen for a few seconds.

PICTURE POSITION ADJUSTMENT

The position of the image can be adjusted vertically and horizontally through PICTURE POSITION ADJUSTMENT.

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select POSITION and press the SELECT button. The PICTURE POSITION dialog box will appear.

2. Move the image by pressing the POINT UP / DOWN / RIGHT / LEFT buttons.

To cancel POSITION mode, press any button except SELECT, RIGHT CLICK, POINT, AUTO IMAGE, PAGE ▲▼ or LASER button.

To recall the position previously adjusted, press NORMAL button.
PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display the image in desirable size.

1. Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SCREEN and press the SELECT button. Another dialog box PICTURE SCREEN Menu will appear.

2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the function that you want to select and then press SELECT button.

True
To turn the image into its original size select True in the dialog box. When the original image size is larger than the screen size (1024 x 768), this projector enters Digital Zoom mode automatically.

Keystone
When the image is distorted vertically, select Keystone in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “Keystone” is displayed. Correct the Keystone distortion by pressing KEYSTONE ▲/▼ button or POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 21.

Digital Zoom
To adjust the image size or pan the image, select Digital zoom in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “D. Zoom” is displayed. This projector also enters Digital Zoom mode by pressing D.ZOOM ▲/▼ button on the Remote Control Unit. Refer to the following for operation.

Expand function
To expand the image size, press D.ZOOM ▲ button or SELECT button. The image is magnified by degrees.

Compress function
To compress the image size, press the D.ZOOM ▼ button or the RIGHT CLICK button. The size of image is reduced by degrees.

Panning function
To pan the image, press POINT UP/DOWN/LEFT/RIGHT buttons. Panning function can work only when the image is larger than the screen size.

To cancel Digital Zoom mode, press any button except D.ZOOM ▲/▼, SELECT, RIGHT CLICK, POINT, PAGE ▲/▼, AUTO IMAGE, or LASER button. To adjust the image to the screen size (1024 x 768), press NORMAL button.

- This projector cannot display in any resolution higher than 1280 X 1024. If your computer’s screen resolution is higher than 1280 X 1024, reset the resolution lower before connecting the projector.
- The image data in other than XGA (1024 x 768) is modified to fit the screen size in the initial mode.
You can use the optional Canon Compact Flash™ Card (CF card) and its PCMCIA adapter designed for the Canon Digital Camera PowerShot series. By inserting the CF card into the PCMCIA adapter, it can be loaded into the PC card slot (PCMCIA 2.1/Jeida 4.2 Standard slot) of a computer. Refer to page 46 for "How to load a CF card into the LCD projector."

Canon Compact Flash™ Card for Digital Camera PowerShot series
FC-4MB (capacity 4MB)
FC-8MB (capacity 8MB)
FC-15MB (capacity 15MB)
PCMCIA adapter

**Inserting / Removing the CF Card**

- Insert the CF card firmly into the PCMCIA adapter, aligning the arrows on the CF card and PCMCIA adapter.

- When remove the CF card from the PCMCIA adapter, pull it straight out.

---

**IMPORTANT NOTE**

Data stored on a CF card may be damaged or lost due to physical damage to the CF card or accidental erasure. It is recommended that any important data should be copied as a backup onto separate media, such as a floppy disk, a hard disk or a MO disk, etc. We shall not be liable for any damage or loss of profits arising from the loss of data caused by the misoperation of or the damage to a CF card or its appliances. The following may result in damaged or lost data:

- Misoperation of the CF card.
- Turning the LCD projector or the computer power off or removing the CF card / PCMCIA adapter while the CF card is in access operations (storing, reading or deleting the files).
- Exposure to a strong static electric charge.
- It has reached the end of its life.
Handling CF Card and PCMCIA Adapter

- Do not turn the LCD projector or the computer power off or remove the CF card / PCMCIA adapter while the CF card is in access operation (storing, reading or deleting files).
- CF cards / PCMCIA adapters are high-precision electronic devices. Do not bend, drop, apply strong forces or shock or place it where a strong static electrical charge may be generated.
- Do not touch the surface of the contact area with your fingers or allow it to be stained with foreign materials.
- Do not attempt to disassemble or alter CF cards.
- Moving CF card rapidly between hot and cold temperatures may cause condensation (water droplets) to form on it, leading to malfunctions. Avoid this problem by placing the CF card in a plastic bag and letting it slowly adjust to temperature changes before removing it from the bag. If condensation should occur, maintain the CF card at a constant temperature and let the moisture evaporate naturally.
- Store CF cards / PCMCIA adapters in the protective case provided.
- Do not use or store CF cards / PCMCIA adapter in places subject to the following conditions:
  - strong magnetic fields
  - abundant dirt or dust
  - high temperatures, high humidity

Specifications
- Interface: PCMCIA / ATA PCMCIA 2.1/ JEIDA 4.2
- Card Slot Type: Type II
- Dimensions: 1.4 x 1.7 x 0.1 inches / 36.1 x 42.8 x 3.3 mm (CF card only)
  3.4 x 2.1 x 0.2 inches / 86 x 54 x 5 mm (with PCMCIA Adapter)
- Weight: 0.4 oz / 10g (CF card only)
  1.2 oz / 34g (with PCMCIA Adapter)

Subject to change without notice
Weight and dimensions are approximate.
SETTING MENU

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SETTING and press the SELECT button. Another dialog box SETTING Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item that you want to set, and then press the SELECT button to set it "On" or "Off".

Blue back
When this function is in the "On" position, this projector will produce a blue image instead of the video noise on the screen when all input sources are unplugged or turned off.

Display
When this function is in the "On" position, the On-Screen Displays always appears when adjustments are made. (The following displays disappear by switching this function "Off." )
- Preparation Display (The Number-counting-down Display)
- Mode Display
- Volume/Mute Display
- Zoom Display
- Focus Display
- Normal Display
- No show Display
- Keystone Display
- D.Zoom Display

Ceiling
When this function is in the "On" position, the top / bottom and the left / right reversed picture is provided to project the image from a ceiling mounted projector.

Rear
When this function is in the "On" position, the left / right reversed picture is provided to project the image to a rear projection screen.

Split wipe
Turn this function "On" position in the SETTING menu. The picture will change into the next one by sliding black image side ways like drawing the black curtains when the input source is turned into another one.

Lamp age
The Lamp age function is designed to reset the lamp replacement monitor timer. When replacing the lamp, reset the lamp replacement monitor timer by using this function. (Refer to page 43.)

SELECTING LANGUAGE

The language used in the ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish and Japanese.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select LANGUAGE and press the SELECT button. Another dialog box LANGUAGE Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the language that you want to set, and then press the SELECT button.
OPERATING WIRELESS MOUSE

The Wireless Remote Control Unit is not only able to operate the projector but also can be used as a wireless mouse for most Personal Computers. The POINT buttons and the two CLICK buttons are used for the wireless mouse operation.

The wireless mouse is available only when PC mouse pointer is displayed on the screen. When the menu or the indicator of the projector is displayed on the screen instead of the PC mouse pointer, the wireless mouse cannot be used.

INSTALLATION

To use the Wireless Remote Control Unit as the Wireless Mouse for a Personal Computer, installation of the mouse driver (not supplied) is required. Make sure that the mouse driver is properly installed in your computer. And make sure that the mouse port of the computer connected to Control Port is activated.

1. Connect the mouse port of your computer to the Control Port of the projector with the Control Cable. (Refer to page 10 to 13 for connection.)

2. Turn the projector on first, and then turn on your computer. When the computer is switched on first, the Wireless Mouse may not work properly.

Note: When the computer has no mouse port, connect the Serial Port of the computer to Control Port of the projector with the Control Cable for Serial Port.

OPERATING WIRELESS MOUSE

When controlling the pointer of the computer, operate the Wireless Mouse with POINT button, SELECT button, and RIGHT CLICK button on the Wireless Remote Control Unit.

POINT button

Used to move the pointer. The pointer is moved corresponding with the direction you are pressing.

SELECT (LEFT CLICK) button

This button has the same function as the left button in a PC mouse.

RIGHT CLICK button

This button has the same function as the right button in a PC mouse. Pressing this button does not affect any operation when in Menu mode.
## MAINTENANCE

### TEMPERATURE WARNING INDICATOR

The TEMPERATURE WARNING Indicator flashes red when the internal temperature of the projector exceeds the normal temperature. The Indicator stops flashing when the temperature of the projector becomes normal. When the TEMPERATURE WARNING Indicator continues to flash, check the item listed below.

1. The Ventilation slots of the projector may be blocked. In such an event, reposition the appliance so that the ventilation slots are not obstructed.
2. Air filters are clogged with dust particles. Clean the air filters by following AIR FILTER CARE AND CLEANING below.
3. If the TEMPERATURE WARNING Indicator remains on after performing the above checks, the Cooling Fans or the Internal Circuits may be malfunctioning. Request service from an authorized dealer or service station.

---

### AIR FILTER CARE AND CLEANING

The Removable Air Filters prevent dust from accumulating on the surface of the Projection Lens and the Projection Mirror. Should the Air Filters become clogged with dust particles, it will reduce the Cooling Fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the Air Filters following the steps below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector upside down and remove 2 Air Filters by pulling the latches upward.
3. Clean the Air Filters with brush or wash out the dust and particles.
4. Replace the Air Filter. Make sure that the Air Filters are fully inserted.

**CAUTION**

Do not operate the projector with the Air Filter removed. Dust may become stuck on the LCD Panel and the Mirror degrading picture quality.

Do not put small parts into the Air Intake Vents. It may result in malfunctions of the projector.

The Air Filter is small. Ensure that children don’t eat or swallow it.

---

**RECOMMENDATION**

We recommend to avoid dusty/smoky place for operating the projector. Using in these environments may cause poor image quality.

When using under dusty or smoky conditions, dust may accumulate on the liquid crystal panel and lens inside, and may resultanty be projected onto the screen together with the picture.

When the above symptoms are noticed, contact your authorized dealer or service station for the cleaning.

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### CLEANING THE PROJECTION LENS

Follow these steps to clean the projection lens:

1. Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.
2. Lightly wipe the cleaning cloth over the lens.
3. When you are not using the projector, replace the lens cover.
LAMP REPLACEMENT INDICATOR

When the life of the Lamp of this projector draws to an end, the LAMP REPLACEMENT indicator lights red. When the image becomes dark or the color of the image becomes unnatural, replacement of the Lamp is required.

LAMP REPLACEMENT

CAUTION

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp assembly or touch the glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp assembly.

1. Turn off the projector and disconnect the AC plug. Allow the projector to cool for at least 45 minutes.
2. Remove a screw with a screwdriver and remove the Lamp Cover.
3. Remove 2 screws with a screwdriver and pull out the Lamp Assembly by grasping the handle.
4. Replace the Lamp Assembly with new one and tighten 2 screws. Make sure that the Lamp Assembly is set properly. And replace the Lamp Cover and tighten a screw.
5. Connect the AC Power Cord to the projector and turn the projector on.
6. Reset the Lamp Replacement Monitor Timer (refer to the section “Lamp Replacement Monitor Timer” below).

NOTE: Do not reset the LAMP REPLACEMENT MONITOR TIMER, when the lamp is not replaced.

ORDER REPLACEMENT LAMP

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

- Model No. of your projector : LV-7325U
- Replacement Lamp Type No. : LV-LP05
  (Service Parts No. 610 280 6939)

LAMP REPLACEMENT MONITOR TIMER

Be sure to reset the Lamp Replacement Monitor Timer when the Lamp Assembly is replaced. When the Lamp Replacement Monitor Timer is reset, the LAMP REPLACEMENT indicator stops lighting.

1. Turn the projector on, and press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SETTING and press the SELECT button (refer to the page 40). Another dialog box SETTING MENU will appear.
2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to Lamp age, and then press the SELECT button. The message "Lamp replace monitor Reset?" is displayed.
3. Select [Yes] to reset the Timer.

Do not reset the Lamp Replacement Monitor Timer, except after the lamp is replaced.
Before calling your dealer or service station for assistance, check the items below once again.

1. Make sure you have connected the projector to your equipment as described in the section “CONNECTING THE PROJECTOR” on pages 10 ~ 13.
2. Check cable connection. Verify that all computer, video and power cord are properly connected.
3. Verify that all power is switched on.
4. If the projector still does not produce the image, re-start the computer.
5. If the image sill does not appear, unplug the projector from the computer and check the computer monitor's display. The problem may be with your graphics controller rather than with the projector. (When you reconnect the projector, remember to turn the computer and monitor off before your power up the projector. Power the equipment back in order of: Projector and computer.)
6. If the problem still exists, check the following chart.

<table>
<thead>
<tr>
<th>Problem:</th>
<th>Try these Solution</th>
</tr>
</thead>
</table>
| No power. | ● Plug the projector into the AC outlet.  
● Be sure READY Indicator light is On.  
● Wait 90 seconds after the projector is turned OFF before turning the projector back on.  

NOTE : After pressing the power ON-OFF switch to OFF, make sure the projector works as follow.  
1. The LAMP indicator will light and the READY indicator will turn off.  
2. After 90 seconds, the READY indicator will light green again and the projector may be turned on by pressing the power ON-OFF button.  
● Check the TEMPERATURE WARNING indicator. If the indicator flashes red, the projector cannot be turned on.  
(See "TURNING ON/OFF THE PROJECTOR" section on page 20.)  
● Check the Projection Lamp. (Refer to page 43.) |
| Image is out of focus. | ● Adjust the focus  
● Make sure the projection screen is at least 4.6’ (1.4m) from the projector.  
● Check the projection lens to see if it needs cleaning.  

NOTE : Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on the lens. In such an event, leave the projector OFF an d wait until condensation disappears. |
| Picture is Left/Right reversed. | ● Check Ceiling / Rear feature. (See “SETTING” section on page 40.) |
| Picture is Top/Bottom reversed. | ● Check Ceiling feature. (See “SETTING” section on page 40.) |
| Some displays are not seen during the Operation. | ● Check Display feature. (See “SETTING” section on page 40.) |
| No image. | ● Check the connection between the computer or video equipment and the projector.  
● When turning the projector on, it takes about 30 seconds to display the image.  
● Check the system that you select is corresponding with the computer or the video equipment.  
● Make sure the temperature is not out of the Operating Temperature (5°C ~ 35°C). |
| No sound. | ● Check audio cable connection from audio input source.  
● Adjust the audio source.  
● Press VOLUME (+) button.  
● Press MUTE button. |
### Problem: Remote Control Unit does not work.
- Check the batteries.
- Check the ALL-OFF switch on the Remote Control Unit is set to “ON.”.
- Make sure nothing is between the Receiver and the Remote Control Unit.
- Make sure you are not too far from the projector when using the Remote Control Unit. Maximum operating range is 16.4’ (5m).

### Problem: Wireless Mouse function does not work.
- Check the cable connection between the projector and the computer.
- Check the mouse setting on your computer.
- Turn the projector on before you turn on the computer.

### Problem: The image data in memory card isn’t displayed.
- Check the memory card is inserted properly into PC CARD SLOT.
- Check a memory card is set properly.
- Check MCI mode is selected.
- Check the image data is recorded in the memory card properly.
- Start the projector again.

### Problem: The image data can’t be written in, read from the memory card.
- Check the projector is turned on.
- Check “Card access” in VIEW menu is selected.
- Check Control Cable for Serial Port (optional) is connected properly.
- Check the memory card is inserted properly into PC CARD SLOT.
- Check Media Card Imager (supplied) is installed in your computer properly.
- Check the setting in Media Card Imager (like Serial Port Setting) is set properly.

### WARNING:
High voltages are used to operate this projector. Do not attempt to open the cabinet.
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Projector Type</th>
<th>Multi-media Projector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>9.45&quot; x 3.66&quot; x 13.23&quot; (240mm x 93mm x 336mm) (not including Adjustable Feet)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>9.48 lbs (4.3 kg)</td>
</tr>
<tr>
<td>LCD Panel System</td>
<td>0.9&quot; TFT Active Matrix type, 3 panels</td>
</tr>
<tr>
<td>Panel Resolution</td>
<td>1024 x 768 dots</td>
</tr>
<tr>
<td>Number of Pixels</td>
<td>2,359,296 (1024 x 768 x 3 panels)</td>
</tr>
<tr>
<td>Color System</td>
<td>PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N</td>
</tr>
<tr>
<td>Scanning Frequency</td>
<td>H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz</td>
</tr>
<tr>
<td>Projection Image size (Diagonal)</td>
<td>Adjustable from 30&quot; to 300&quot;</td>
</tr>
<tr>
<td>Horizontal Resolution</td>
<td>800 TV lines</td>
</tr>
<tr>
<td>Projection Lens</td>
<td>F 1.7 ~ 2.0 lens with f 33.2mm ~ 43.1mm Motor zoom and focus</td>
</tr>
<tr>
<td>Throw Distance</td>
<td>4.6' ~ 35.4' (1.4 m ~ 10.8 m)</td>
</tr>
<tr>
<td>Brightness</td>
<td>1500 ANSI lumen (Brighter mode) 1200 ANSI lumen (Standard mode)</td>
</tr>
<tr>
<td>Projection Lamp</td>
<td>150 W UHP</td>
</tr>
<tr>
<td>AV Input Jacks</td>
<td>RCA Type x 1 (Video, Audio R and L) and Mini DIN 4 pin (S-Video) x 1</td>
</tr>
<tr>
<td>Computer Input Jacks</td>
<td>(VGA) HDB 15 Terminal x 1</td>
</tr>
<tr>
<td>Control Port Jack</td>
<td>Mini DIN 8 pin x 1</td>
</tr>
<tr>
<td>Monitor Output Jack</td>
<td>(VGA) HDB 15 Terminal x 1</td>
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<tr>
<td>Computer Audio Input Jack</td>
<td>Mini Jack (stereo)</td>
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<tr>
<td>Audio Output Jack</td>
<td>Mini Jack (stereo)</td>
</tr>
<tr>
<td>Internal Audio Amp</td>
<td>1W RMS (Monaural)</td>
</tr>
<tr>
<td>Built-in Speaker</td>
<td>1 speaker, 1.57&quot; x 1.18&quot; (40mm x 30mm)</td>
</tr>
<tr>
<td>Feet Adjustment</td>
<td>0˚ to 10˚</td>
</tr>
<tr>
<td>Voltage</td>
<td>AC 100 ~ 120 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>2.5 A (Max. Ampere)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>41°F ~ 95°F (5°C ~ 35°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>14°F ~ 140°F (-10°C ~ 60°C)</td>
</tr>
<tr>
<td>Remote Control Transmitter</td>
<td>Power Source : AA Type x 2 Operating Range : 16.4’ (5m) / ±30’ Dimensions : 2.2” x 1.3” x 7.6” (55mm x 34mm x 192mm) Net Weight : 0.35 lbs (160 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)</td>
</tr>
<tr>
<td>Accessories</td>
<td>Owner’s Manual AC Power Cord Remote Control Transmitter and Batteries VGA Cable Control Cable for PS/2 port Media Card Imager for Windows 95 (CD-ROM) and Owner’s Manual for this software Dust Cover Lens Cover, Strap for Lens Cover and Screw</td>
</tr>
</tbody>
</table>

● The specifications are subject to change without notice.

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

The parts listed below are optionally supplied. When ordering those parts, give the name and the Type No. of it to the sales dealer.

- Control Cable for Serial Port  Type No.: LV - CA26
- Control Cable for ADB Port  Type No.: LV - CA27
- MAC Adapter  Type No.: LV - AD02
- Canon Digitizer  Type No.: LV - DP10