

FCC Notice

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 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, detectable by turning the equipment in question 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 distance between the equipment and the receiver
- Connect the equipment to an outlet on a different circuit than that which the receiver is connected to.
- Or consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference that may cause undesired operation.

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Important safeguards

Please read all these instructions regarding your projector and retain them for future reference. Follow all warnings and instructions marked on the projector.

1. Read instructions
All the safety and operating instructions should be read before the appliance is operated.
2. Retain instructions
The safety and operating instructions should be retained for future reference.
3. Warnings
All warnings on the appliance and in the operating instructions should be adhered to.
4. Instructions
All operating instructions must be followed.
5. Cleaning
Unplug this projector both from the wall outlet and battery before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.
6. Attachments and equipment
Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.
7. Water and moisture
Do not use this projector near water or in contact with water.
8. Accessories
Do not place this projector on an unstable cart, stand, tripod, bracket or table. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer or sold with the projector. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

9. Ventilation

Slots and openings in the cabinet are provided for ventilation, ensuring reliable operation of the projector and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the projector on a bed, sofa, rug, or bookcase.

Ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. Power sources

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, please consult your appliance dealer or local power company.

11. Power-cord protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and points where they exit from the appliance. Do not put the power cord under a carpet.

12. Overloading

Do not overload wall outlets and extension cords as this can result in a fire or electric shock.

13. Objects and liquids

Never push objects of any kind through openings of this projector 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, adaptor or battery.

14. Servicing

Do not attempt to service this projector yourself. Refer all servicing to qualified service personnel.

15. Damage requiring service

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

- (a) If the power-supply cord or plug is damaged.
- (b) If the adaptor or the battery is damaged.
- (c) If liquid has been spilled, or objects have fallen into the projector, adaptor or battery.
- (d) If the projector does not operate normally after you follow the operating instructions.
Adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and may often require extensive work by a qualified technician to restore the projector to its normal operation.
- (e) If the projector has been exposed to rain or water.
- (f) If the projector has been dropped or the cabinet has been damaged.
- (g) If the projector exhibits a distinct change in performance- this indicates a need for service.

16. Replacement parts

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

17. Safety check

Upon completion of any service or repair to this projector, ask the service technician to perform safety checks determining that the projector is in a safe operating condition.

18. Keep appropriate method when recharge the battery.

19. The projector is a precision instrument. Please pay attention on static electricity.

WARNING:

Unplug the power cord or remove the battery immediately if there is something wrong with your projector.

Do not operate if smoke, strange noise or odor comes out of your projector, adaptor or battery. It may cause fire or electric shock. In this case, unplug immediately and contact your dealer.

Never remove the cabinet.

This projector contains high voltage circuitry. An inadvertent contact may result in an electric shock. Except as specifically explained in User Manual, do not attempt to service this product by yourself. Please contact your dealer when you want to fix, adjust, or inspect the projector.

Do not modify the projector.

It can lead to fire or electric shock.

Do not keep using the damaged projector.

If the projector is dropped and the cabinet is damaged, unplug the projector and contact your dealer for inspection.

It may lead to fire if you keep using the damaged projector.

Do not face the projection lens to the sun.

It can lead to fire.

Use correct voltage.

If you use incorrect voltage, it can lead to fire.

Only use the provided AC adaptor.

Do not place the projector on uneven surface.

Place the projector on a level and stable surface only.

Do not look into the lens when the projector is operating.

It may hurt your eyes. Never let children look into the lens when the projector is on.

Do not unplug the power cord or remove the battery during operation.

It can lead to lamp breakage, fire, electric shock or other trouble. Wait for the fan to stop before unplugging the power cord or remove the battery.

Do not touch the air outlet grilles and bottom plate.

Do not touch them or put other equipment close to the air outlet grilles because they become hot during operation.

The heated air outlet grilles and bottom plate may cause injury or damage to other equipment. Also, do not put the projector on a desk that is easily affected by heat.

Do not look into the air outlet grilles when projector is operating.

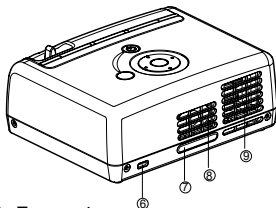
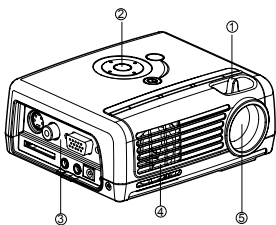
Heat, dust, etc. may blow out of them and hurt your eyes.

Do not block the air inlet and outlet grilles.

If they are blocked, heat may be generated inside the projector, causing deterioration in the projector quality and fire.

- Don't put upwards. It may block the exhausted holes.
- Don't drop.
- Don't project to person's eyes.

Overview

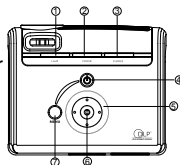


- ① Focus ring
- ② Control panel
- ③ Terminal board
- ④ Air outlet grille
- ⑤ Lens
- ⑥ Kensington lock
- ⑦ Remote control sensor (Rear side only)
- ⑧ Speaker
- ⑨ Air inlet grille

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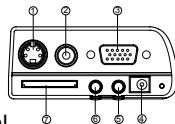
Control panel

- ① LAMP indicator
- ② POWER indicator
- ③ CHARGE indicator
- ④ POWER button
- ⑤ Four directional buttons
- ⑥ OK button
- ⑦ MENU button



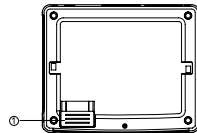
Terminal board

- ① S-VIDEO terminal
- ② VIDEO terminal
- ③ VGA IN terminal
- ④ Power jack
- ⑤ AUDIO IN terminal
- ⑥ AUDIO OUT(Earphone)terminal
- ⑦ SD Card slot



Bottom side

- ① Battery latch



Power

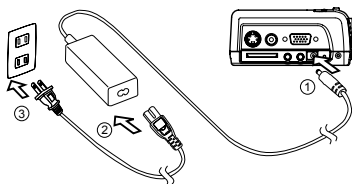
Using the provided AC adapter or an optional Lithium-ion rechargeable battery.

Warning:

The projector must be used with the provided AC adapter. Damage caused by the use of an incorrect adapter is not covered under the warranty.

Using the AC adapter

1. Insert the plug from the AC adapter into the DC IN terminal.
2. Insert the appropriate end of the power cord into the AC adapter.
3. Insert the plug on the power cord into a wall outlet.
 - The POWER indicator lights red when using the AC adapter.



Using the battery

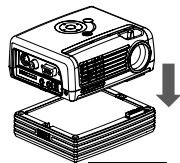
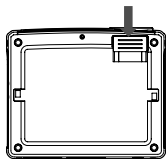
The projector must be used with specified Lithium-ion rechargeable battery. Charge the battery before using the projector for the first time use. Using the projector for charging the battery. You may also use the projector when charging the battery.

For battery charging

Warning:

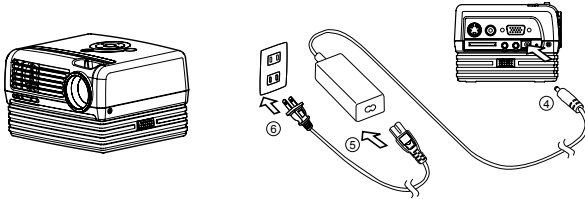
When you use the battery, please observe the safety precautions.

1. Move the battery latch to the open side.
2. Position the projector on the battery.



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3. Match the battery carefully until it fits in place.

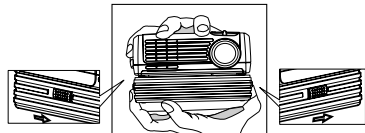


4. Insert the plug from the AC adapter into the DC IN terminal.
5. Insert the appropriate end of the power cord into the AC adapter.
6. Insert the plug on the power cord into a wall outlet.
- The CHARGE indicator lights red when charging is started and turns off when charging is completed.
 - We recommended that you full charge the battery all the time.
 - When the projector is off, the charger works as a fast charging mode. It takes approximately 5 hours to complete charging.
 - When the projector is on, the charger works as a slow charging mode. It takes approximately 7 hours to complete charging.

For battery removal

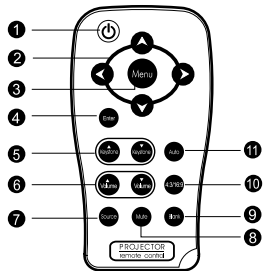
Slide the battery lock switches on the two sides to remove the battery from the projector.

CHARGE (Red)	CONDITION
On	Charging battery
Off	Battery full



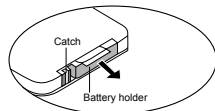
Remote control

- ❶ POWER button
- ❷ Four directional buttons
- ❸ Menu button
- ❹ Enter button
- ❺ Keystone ▲/▼ buttons
- ❻ Volume ▲/▼ buttons
- ❼ Source button
- ❽ Mute button
- ❾ Blank button
- ❿ 4:3/16:9 button
- ⓫ Auto button



For the first time use:

Remove the transparent insulation tape by pulling it before use.



For battery change:

1. Push the catch to the right and remove the battery holder.

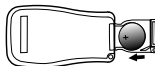


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2. Remove the old Lithium coin cell and install new one (CR2025).
Ensure that the side with the mark “+” is up.

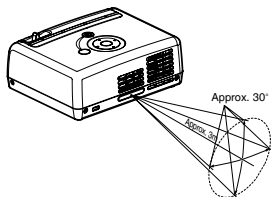


3. Push the battery holder back into the remote control until you feel a click.



Operating Range

The infrared signal operates by line-of-sight up to a distance of approximately 9.8 (3 m) and within a 30-degree angle of the remote sensor. The projector will not function if there are objects between the remote control and the remote sensor on the projector or if strong light falls on the remote sensor. A weak battery will also prevent the projector from operating.



This sample may be slightly different from actual range.

Remote Control Precautions

- Handle the remote control carefully.
- Do not use the remote control if it got wet. Remove the battery immediately. Make sure the remote control and battery are dry before use.
- Avoid excessive heat and humidity.
- Do not place the battery upside down.
- Keep the coin cell battery out of reach of children so as not to allow them to swallow the cell battery.

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CAUTION:

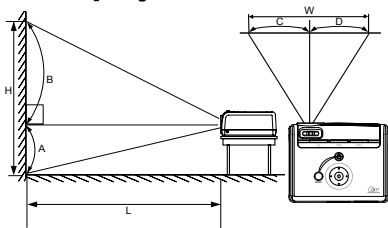
- Danger of explosion if battery is incorrectly replaced.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to your local regulations.
- Do not recharge, disassemble or dispose of the battery in fire.

Installation

Layout of the projector

Image size varies depending on the distance between the screen and the projector.

Front projection



L : Between the screen and the front edge of the projector

A : Height of the projected image under the horizontal line

Optical offset:

B:A \approx 27:13

C:D \approx 41:59

Screen diagonal size		Distance (L)	
inch	cm	inch	cm
12	30.5	15.4	40
20	50.8	26.0	66
30	76.2	39.0	99
40	101.6	53.0	135
50	127.0	66.1	167
60	152.4	78.9	200

- The above figures are approximate and may be slightly different from the actual measurements.

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Caution:

- Do not place the projector on a carpet or any flammable materials. It may cause damage or fire.
- Place the projector at least 10 cm (or 4 inches) away from the wall to prevent the air inlet grille and the air outlet grilles that emit hot air from being blocked.
- Do not use the projector in the following locations and manners, which may cause fire or electric shock.
 - a. In a dusty or humid place.
 - b. In a sideways or upside-down position.
 - c. Near a heater.
 - d. In an oily, smoky, or damp place such as a kitchen.
 - e. In direct sunlight.
 - f. Where the temperature rises high, such as in a closed car.
 - g. Where the temperature is lower than +41°F (or +5°C) or higher than +95°F (or +35°C).

Important:

- Do not apply force to the lens, because the lens may be damaged.

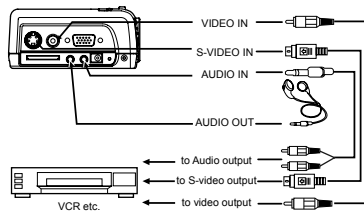
Basic connections

This projector can be connected with various devices such as a VCR, video camera, videodisc player, or personal computer that have analog RGB output connectors.

Important:

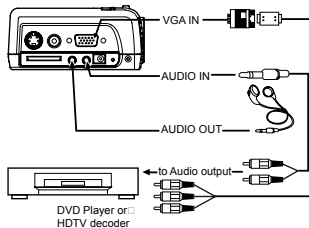
- Make sure that the connected device is turned off before starting connection.
- Plug in the AC adapter of the projector and the connected devices firmly. When unplugging, hold and pull the plug. Do not pull the cord.
- When the projector and the connected devices are located too close to each other, the projected image may be affected by their interference.
- See the owner's guide of each device for details about its connections.

Projector + AV device



Projector + DVD player or HDTV

Some DVD players have an output connector for 3-line fitting (Y, C_B, C_R). When connecting such DVD player with this projector, use the VGA IN terminal.

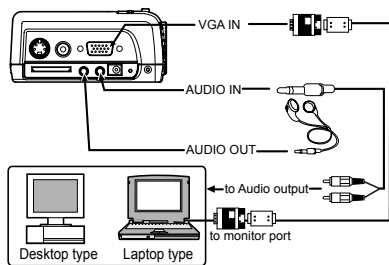


Important:

- The terminal's names Y, P_B, and P_R are given as examples of when a HDTV decoder is connected.
- The terminal's names vary depending on the connected devices.
- Image may not be projected correctly with some DVD players.

Projector + Computer

For computer with D-SUB



Important:

- When you use a longer RGB cable instead of the common length cable, the image may not be projected correctly.
- Some computers require additional connectors or analog RGB output adapters to be connected with this projector.

For Macintosh

- If your Macintosh has no video port, a monitor output adapter is required. Contact your dealer for further information.
- Some Macintoshes require a MAC adapter for the RGB cable for connection with this projector.

Preparation

Preparation for projection

1. Attach the provided AC adapter to the projector.
2. Plug the AC adapter in the wall outlet.
 - The POWER indicator lights red when using the AC adapter.

Warning:

- Do not look into the lens directly when the projector is on.
- Use 100-240 V AC 50/60 Hz to prevent fire or electric shock.
- Do not place any objects on the AC adapter and power cord or do not place the projector near heat sources to prevent damage to the power cord. If either the AC adapter or power cord should be damaged, contact your dealer for replacement because it may cause fire or electric shock.
- Do not modify or alter the AC adapter. If the AC adapter is modified or altered, it may cause fire or electric shock.

Caution:

- Plug in the power cord firmly. When unplugging, hold and pull the power plug, not the power cord.
- Do not plug in or out the power cord with your hand wet. It may cause electric shock.

Important:

- Install the screen on a flat wall at 90 degrees to the floor.
- Images may not be projected in a shape of a regular rectangle or with its aspect ratio 4:3, depending on the installation conditions of the projector and the screen.
- To correct vertical keystone distortion:
 - On the optional remote control: press the Keystone ▲/▼ buttons.
 - On the control panel: adjust Keystone in the Image menu.

In the following cases:



Press the Keystone ▲.



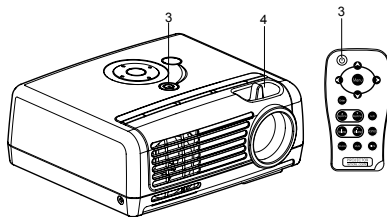
Press the Keystone ▼.

Important:

- When the keystone adjustment is carried out, the adjustment value is indicated. Note that this value doesn't mean a projection angle.
- The allowable range of the adjustment value in the keystone adjustment varies depending on the installation conditions.
- When the keystone adjustment takes effect, the resolution decreases. In addition, stripes may appear or straight lines may bend in images with complicated patterns. They are not due to product malfunctions.
- Noise may appear on the screen during the keystone adjustment because of the type of the video signal being projected and the setting values of the keystone adjustment. In such cases, set the keystone adjustment values in the range where the image is displayed without noise.
- When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal.

Basic operation

On the control panel



Power-on

1. Turn on the device connected to the projector first.
2. Plug the AC adapter in both the projector and the wall outlet.
 - The POWER indicator lights up.
 - The CHARGE indicator lights up when the projector connects with a not fully charged battery.
 - The projector charges a not fully charged battery all the time.
 - The projector stops charging battery when battery is full.
3. Press the POWER button either on the control panel or the remote control.
 - The LAMP indicator lights up and the POWER indicator goes off.
 - The message "Searching for source" appears on the screen.
 - The lamp occasionally fails to light up. Turn off the projector, wait for one minute and then turn on it again.
 - After the POWER button is pressed, the image may flicker before the lamp becomes stable. This is not a product malfunction.

Indicator Condition	LAMP(Green)	POWER(Red)
Stand-by.	Off	On
When the lamp is on.	On	Off

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Important:

- Images may not be projected with good quality in an extremely hot or cold environment. (This is not a product malfunction.)
- 4. Adjust the focus by turning the focus ring.
- 5. Choose your desired external input source using the COMPUTER / VIDEO buttons.
 - The projector automatically selects the appropriate signal format. The selected signal format is displayed on the screen.
- 6. Adjust the image size by changing the distance between the projector and the screen.
 - If necessary, adjust the focus ring again.

Caution:

- The air outlet fan rotates faster as the temperature around the projector rises.

Power-off

Use the following procedure to turn off the projector. Do not turn off the projector by unplugging the power cord while the lamp is on. Unplugging while the lamp is on degrades the lamp's performance and causes failure in the projector.

1. Press the POWER button either on the control panel or on the remote control.
 - The message "POWER OFF? PRESS POWER AGAIN" appears on the screen.
 - To cancel, press any button except the POWER button.
2. Press the POWER button either on the control panel or on the remote control within 10 seconds again.
 - Both the lamp and the LAMP indicator will go out.
 - The POWER indicator lights up.
3. Unplug the power cord.
 - The CHARGE indicator will go out if a not fully charged battery is connected with the projector.
 - The POWER indicator goes out.

Important:

- In case the system has frozen or hung up for whatever reason and the system has stopped responding, you may shut off the system by holding down the POWER button either on the control panel or on the remote control for 5 seconds.

On the remote control

Keystone ▲/▼ button

Press the Keystone ▲ or Keystone ▼ to adjust image distortion caused by tilting the projector.

Important:

- Keystone adjustment will not change the shape of the menus, the start-up screen, and the background (with no signal input).

Volume ▲/▼ button

Press the Volume ▲ to increase the volume, press the Volume ▼ to reduce the volume.

Source button

If multiple sources are connected withto the projector simultaneously, press the Source buttonThe projector will detect your source.

Important:

- The image may not be projected or auto adjustmentsetting may not be performed correctly for input signals other than those supported by the projector.

Mute button

The sound is temporarily cut off when the Mute button is pressed. To cancel mute, press it again.

Blank button

The screen is temporarily cut off when the Blank button is pressed. To cancel blanking, press the Blank button again.

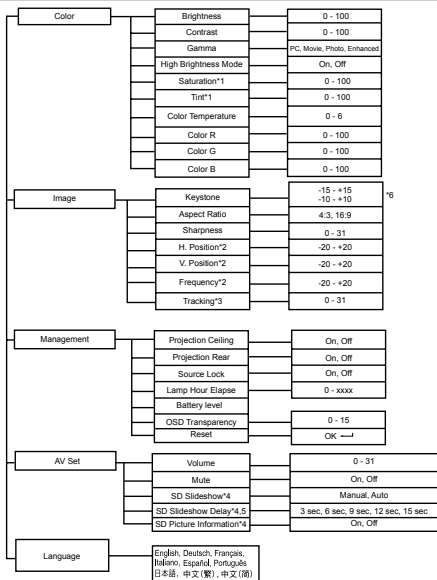
4:3/16:9 button

Toggle the 4:3/16:9 button to change the aspect ratio.

Auto button

If source is a computer, press the Auto button to adjust frequency and phase.

Menu operation



- *1: Not active when connecting with VGA signal and SD card mode.
 *2: Active when connecting with VGA, Component_P and HD source.
 *3: Active when connecting with VGA source only.
 *4: Only available for SD card mode.
 *5: SD Slideshow Delay will be active when SD Slideshow sets to Auto.
 *6: Range -15 - +15 for 4:3 aspect ratio; -10 - +10 for 16:9 aspect ratio.

1 Color

- Brightness.....Use to adjust the image brightness. The image becomes brighter as the value increases.
- Contrast.....Use to adjust the image contrast. The contrast becomes higher as the value increases.
- Gamma.....Use to select Gamma mode.
- PC: For computer or notebook.
 - Movie: Common video mode.
 - Photo: Computer photo mode.
 - Enhanced: For enhanced Gamma mode.
- High Brightness Mode Select On for high brightness mode.
- Saturation.....Use to adjust a video image from black and white to fully saturated color.
- Tint.....Use to adjust the color balance of the image.
- Color Temperature..Use to adjust the color temperature.
- Color R.....Use to adjust the red color.
- Color G.....Use to adjust the green color.
- Color B.....Use to adjust the blue color.

2. Image

- Keystone.....Use to adjust the image distortion caused by tilting projection.
- Aspect Ratio.....Use to choose aspect ratio.
- Sharpness.....Use to adjust the image sharpness. The image becomes sharp as the value increases.
- H. Position.....Use to adjust the horizontal position of the image.
- V. Position.....Use to adjust the vertical position of the image.
- Frequency.....Use to change the display data frequency to match the frequency of your computer's graphic card.
- Tracking.....Use to eliminate image noise such as wide stripes.

3. Management

- Projection Ceiling..... Use to reverse the image horizontally.
- Project Rear..... Use to reverse the image vertically.
- Source Lock..... Use to lock the current source.
- Lamp Hour Elapse..... Displays the LED lamp's elapsed operating time (in hour).
- Battery level..... Displays the remaining battery level.
- OSD Transparency..... Use to adjust OSD's transparency.
- Reset..... Press control panel's **OK** button or remote control's **Enter** button and then choose "Yes" to turn the display parameters to the factory default settings.

4. AV Set

- Volume..... Use to adjust the volume.
- Mute..... Use to mute the sound.
- SD Slideshow..... Use to select slideshow display mode.
 - Manual: for playback once.
 - Auto: for continuous playback.
- SD Slideshow Delay..... Use to adjust the slideshow display interval.
- SD Picture Information.... Use to display picture information.

5. Language..... Use to select the language used in the menu. [English, Deutsch, Français, Italiano Español, Português, 日本語, 中文(繁), 中文(简)]

Using an SD Card

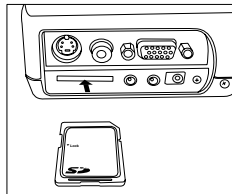
You can playback image and video files stored in an SD card.

Video	MPEG1 (I-Frame only)	Supported file type: *.mpg				
		Supported audio format: MPEG1 AUDIO LAYER I and MPEG1 AUDIO LAYER II (8Bit OUT)				
		Supported audio sampling rate: 8k,11.025k,12k,16k,22k,24k,32k,48k Hz (Note: 44.1KHz is not supported)				
		Supported brand name		Supported model name		
	Premier	DC-4381	DC-5381	DC-5384	DC-4365	
	AVI (MJPEG only)	Supported file type: *.avi				
		Supported audio format: PCM mono (8Bit OUT)				
		Supported audio sampling rate: 8k,11.025k,12k,16k,22k,24k,32k,48k Hz (Note: 44.1KHz is not supported)				
		Supported brand name	Supported model name			
		Canon	PowerShot S45	PowerShot S50	PowerShot A40	PowerShot G3
		Casio	Exilim EXS2	QVR4		
		Fuji Film	FinePixA303	FinePixF601	FinePixF602Zom	
		Konica	Digital Revio KD-400Z			
		Kyocera	Finecam S4			
		Minolta	DiIMAGE 7Hi			
		Pentax	Optio 330GS			
		Ricoh	Caplio RR1	RDC-7		
	Samsung	Digimax 350SE				
QuickTime (MJPEG only)	Supported file type: *.mov					
	Supported audio format: UnCompressed (8Bit OUT)					
	Supported audio sampling rate: 8k,11.025k,12k,16k,22k,24k,32k,48kHz (Note: 44.1KHz is not supported)					
	Supported brand name	Supported model name				
	Epson	PhotoPC 3000Z				
	Nikon	Coolpix4500	CoolPix5000	CoolPix5700		
	Olympus	C4040	C5050	C-730 Ultra Zoom	D-520	
	PanasonicLecia	Lumix DMC-LC5				

Still Image	JPEG	Supported file type: *.jpg (up to 16M pixels)			
		Supported brand name	Supported model name		
		Canon	PowerShot G1	PowerShot A40	
		Casio	QV-2800UX		
		Fuji Film	FinePix F401		
		Kodak	DC210	DC240	DC4800
		Minolta	DiMAGE 5	S304	
		Nikon	950		
		Olympus	C700	C920Z	5050
		PanoasonicLeica	Digilux 1	Lumix DMC-LC5	
		Pentax	330 RS	Optio 330	
		Sanyo	AZ1		
		Sony	CD Mavica	CyberShot	
Note:					
1. The accessing time varies depending on the file size.					
Memory Card	SD	Supported brand name	Supported capacity		
		Hagiwara	32M ~ 1G		
		ATP	64M ~ 1G		
		SanDisk	64M ~ 1G		
		Toshiba	64M ~ 1G		
		Panasonic	32M ~ 1G		
		Note:			
1. NTFS format is not supported when formatting the SD Card.					
2. Do not remove the SD Card while accessing or playing back the files because it may damage the data.					

Inserting/Removing an SD Card

1. Insert the SD card in the correct orientation shown.
2. To removing an SD card, press lightly on the edge of the SD card and it will eject.



Playing Back Files in SD Card

1. Insert an SD card stored image and video files into the SD card slot.
2. Select SD Card as input source.
 - Thumbnail display will appear on the screen.
3. You may press remote control's **Source** button to change thumbnail display mode if still images and video clips saved in an SD card.
 - The still image thumbnail will display first and then automatically followed by video clip thumbnail.
4. Use four directional buttons to select the desired image/video clip, and press remote control's **Enter** button or control panel's **OK** button to playback.
 - Pressing remote control's **Enter** button or control panel's **OK** button again will stop, pause or exit from playback.
5. Press remote control's **Source** button again to exit SD Card mode.

Troubleshooting

The following offers solutions to some of the common problems you may encounter. We suggest that you consult this chart before contacting your dealer.

Images aren't projected on the screen.

Problem	Cause and solution								
Power isn't turned on.	<ul style="list-style-type: none"> Check the states of the indicators. <table border="1"> <thead> <tr> <th>LAMP(Red)</th> <th>POWER(Red)</th> <th>Charge(Red)</th> <th>Solution</th> </tr> </thead> <tbody> <tr> <td>Off</td> <td>Off</td> <td>Off</td> <td> <ul style="list-style-type: none"> Connect the power cord to the projector. Plug the power cord into a wall outlet. </td> </tr> </tbody> </table>	LAMP(Red)	POWER(Red)	Charge(Red)	Solution	Off	Off	Off	<ul style="list-style-type: none"> Connect the power cord to the projector. Plug the power cord into a wall outlet.
LAMP(Red)	POWER(Red)	Charge(Red)	Solution						
Off	Off	Off	<ul style="list-style-type: none"> Connect the power cord to the projector. Plug the power cord into a wall outlet. 						
Images aren't projected on the screen.	<ul style="list-style-type: none"> Cancel blanking by pressing the Blank button. On rare occasion, the lamp fails to light up. In such cases, try to light the lamp again. Check that the cable connected to the external device isn't broken. When an extension cord is being used, replace it with the supplied cable and check whether images are projected correctly. 								
Images suddenly disappear.	<ul style="list-style-type: none"> The air inlet or outlet grille may be blocked. <ul style="list-style-type: none"> Remove the objects blocking the air inlet or outlet grille and carry out the following. <ol style="list-style-type: none"> Wait for the air inlet or outlet fan to stop (or wait for the LAMP indicator to go out.) Unplug the power cord from the wall outlet. Wait about 1 minute. Plug the power cord into the wall outlet. Press the POWER button. Check that the battery or power cord connected with the projector correctly. 								



Problem	Cause and solution
<p>"Searching for source" is displayed.</p>	<ul style="list-style-type: none"> ● Turn on the power of the connected device, or check whether there is something wrong with the connected device. ● Check the external device outputs signals. (Check this especially when the external device is a notebook computer.) ● Check that the cable connected to the external device isn't defective. ● Check that the projector is connected to the external device using the correct terminals. ● Check that the connected device is correctly selected as the input source. ● When an extension cord is being used, replace it with the supplied cable and check whether images are projected correctly.

Images aren't projected correctly.

Problem	Cause and solution
<p>Projected images are shaking. Projected images are displaced.</p>	<ul style="list-style-type: none"> ● Check that the cable connected to the external device isn't intermittent. ● Connect the cable's plug with the external device's connector firmly. ● Some computers output out-of-spec signals on rare occasion. Adjust the Image menu.
<p>Projected images are distorted.</p>	<ul style="list-style-type: none"> ● Adjust the projector and the screen so that they are perpendicular to each other.
<p>Projected images are dark.</p>	<ul style="list-style-type: none"> ● Adjust Brightness in the Color menu.
<p>Projected images are blurred.</p>	<ul style="list-style-type: none"> ● Adjust the focus. ● Clean the lens. ● Adjust Brightness and Contrast in the Color menu. ● Adjust the projector and the screen so that they are perpendicular to each other.

Problem	Cause and solution
White dots are seen on projected images. Black dots are seen on projected images.	<ul style="list-style-type: none"> ● This symptom is normal for a DLP projector and is not a malfunction. (A very small number of pixels may stay lit or out, but such symptom is not a malfunction. Pixels of 99.99% or more are effective.)
Rainbow blur projected images.	<ul style="list-style-type: none"> ● This is due to color breaking noise that occurs in a DLP system and is not a malfunction.
Fine streak pattern appears in projected images.	<ul style="list-style-type: none"> ● It occurs because of interference with the screen and isn't a product malfunction. Change the screen or readjust the focus of the projector.
Projected images appear wavy and distorted.	<ul style="list-style-type: none"> ● Connect the cable's plug with the external device's connector firmly. ● Keep the projector away from equipment generating interfering radio waves. ● When the keystone adjustment is carried out, the image may not be displayed correctly because of the type of input signal. This isn't a product malfunction. In this case, readjust the keystone so that the amount of keystone correction is as small as possible.
Tint in projected images is incorrect.	<ul style="list-style-type: none"> ● Check that the cable connected to the external device isn't broken.
Only the motion areas in the images supplied from the computer aren't displayed.	<ul style="list-style-type: none"> ● This is caused by the computer being used. Contact the manufacturer of your computer.
Projected images are obscured.	<ul style="list-style-type: none"> ● Match the output resolution of your computer with the resolution of the projector. For the method to change the output resolution of the computer, contact the manufacturer of your computer. ● Some images and texts appear obscured during the keystone adjustment. In such cases, use the projector without applying the keystone adjustment.

Others

Problem	Cause and solution
Hot air is emitted from the air outlet grilles.	<ul style="list-style-type: none">● This air comes out as a result of cooling the inside of the projector. This isn't a product malfunction.
The menu can't be used.	<ul style="list-style-type: none">● The microcomputers inside the projector may be wrongly operating because of noise.● Press the POWER button twice to turn off the lamp and unplug the power cord from the wall outlet. Wait about 1 minute, plug the power cord in, and try again
The remote control doesn't function easily at all.	<ul style="list-style-type: none">● Check that the battery is loaded in the remote control or the battery isn't weak.● Check that the remote control sensor isn't exposed to direct sunlight or fluorescent light.● Use the remote control within its operation range.
 displays on the upper-right of the screen.	<ul style="list-style-type: none">● Low battery power. Charge the battery. You may press the MENU button to cancel the icon display.
 displays on the center of the screen.	<ul style="list-style-type: none">● No battery power. Charge the battery. You may press the MENU button to cancel the icon display.

Maintenance

Caution:

Be sure to turn off the lamp and unplug the power cord from the wall outlet before you perform any maintenance on the projector.

Cleaning of the projector and the ventilation slots

Use a soft cloth to clean the projector and the ventilation grilles. When the grilles become dirty, wipe them with a soft cloth dampened with diluted mild detergent, and then wipe them with a dry cloth.

To protect the surface of the projector from fading or deteriorating:

- Do not spray insecticide on or inside the projector.
- Do not use benzine or thinner to clean it.
- Do not let rubber or plastic materials contact with projector.

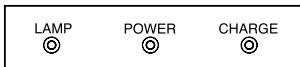
Cleaning of the lens

Use a standard lens-cleaning brush or a piece of lens tissue dampened with lens cleaning fluid. The lens surface is fragile. Use only recommended, nonabrasive lens-cleaning materials. Do not touch the lens with your fingers.

Indicators

This projector has three indicators, each of which shows the operation condition of the projector.

The following offer solutions to possible problems. If these problem persist, turn the projector off and consult your appliance dealer.



Normal condition (AC Adaptor only)

LAMP(Green)	POWER (Red)	CHARGE (Red)	CONDITION
ON	OFF	OFF	System ON
OFF	ON	OFF	System standby

Normal condition (AC Adaptor + Battery)

LAMP(Green)	POWER (Red)	CHARGE (Red)	CONDITION
ON	OFF	ON	System ON+Battery charging
ON	OFF	OFF	System ON + Battery full
OFF	ON	ON	System standby+Battery charging
OFF	ON	OFF	System standby+Battery full

Normal condition (Battery only)

LAMP (Green)	POWER (Red)	CHARGE (Red)	CONDITION
ON	OFF	OFF	System ON
OFF	ON	OFF	System standby
OFF	Flashing x 10	OFF	Low Battery (System turned off)

Abnormal condition

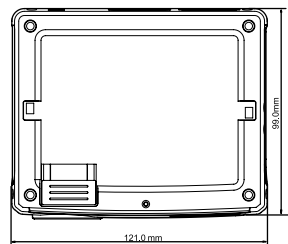
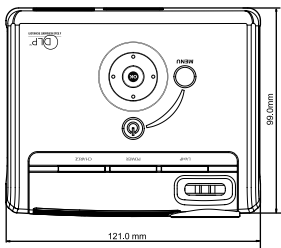
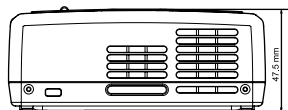
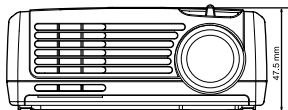
LAMP (Red)	POWER (Red)	CHARGE (Red)	CONDITION
OFF	Off x 1 (Flashing)	-	System Failure
OFF	Off x 3 (Flashing)	-	Fan abnormal
OFF	Off x 4 (Flashing)	-	Over temperature
Flashing x 1	OFF	-	System Failure
Flashing x 2	OFF	-	System Failure
Flashing x3	OFF	-	System Failure
ON	OFF	-	System Failure

Specifications

Type	DLP™ projector	
Rated input	15V, 2.0A	
Display technology	Single 0.55" DLP panel	
Native resolution	800 x 600 pixels	
Colors	16.7 million	
Projection lens	Fixed zoom with focus adjustment; F2.0	
Light source	RGB LED lamps	
Projection range	Typical image size: 12" - 60" Typical distance: 40cm - 200cm	
Performance range	Typical image size: 15" - 50" Typical distance: 48cm - 167cm	
PC compatibility	VGA (Expand)	640 x 480
	SVGA (Real)	800 x 600
	XGA (Compress)	1024 x 768
	SXGA (Compress)	1280 x 960
Video compatibility	NTSC-M, 4.43; PAL60; PAL- M, N; SECAM; HDTV 480p, 720p, 1080i from analog RGB connector	
I/O Connectors	DC IN jack; Yellow RCA jack for composite video input; S-Video; D-SUB 15 female for analog VGA input; AUDIO IN ; AUDIO OUT; SD CARD slot	
Outside dimensions	121 x 99 x 47.5mm (W x D x H)	
Weight	Approx. 1 lb (0.45kg)	
AC adapter input	100-240V AC 50/60 Hz	
Length of power cord	72.8 inch + 72.8 inch (1.85m + 1.85m)	

- The specifications and outside appearance of the projector are subject to change without prior notice.

Dimensional drawings (unit : mm)



What's included in the box

- 1 Soft Carrying Bag (for projector only)
 - 1 User's Manual
 - 1 Quick Start Guide
 - 1 Composite Video Cable
 - 1 AC Adaptor
 - 1 Power Cord
 - 1 Remote Control
 - 1 Lithium-ion Rechargeable Battery
- * Output: Normal DC 11.1V 4300 mAh

Specification of RGB signals in each computer mode of the projector

Signal mode	Resolution (H x V)	Horizontal frequency (kHz)	Vertical frequency (Hz)
VGA 60	640 x 350	31.47	59.94
VGA 85	640 x 350	37.86	85.08
VGA mode3	640 x 480	31.47	59.94
MAC	640 x 480	37.86	72.00
VGA VESA 72	640 x 480	37.86	72.80
VGA VESA 75	640 x 480	37.50	75.00
VGA VESA 85	640 x 480	43.27	85.01
VGA VESA 85	720 x 400	37.93	85.04
SVGA VESA 56	800 x 600	35.16	56.00
SVGA VESA 60	800 x 600	37.88	60.00
SVGA VESA 72	800 x 600	48.08	72.00
SVGA VESA 75	800 x 600	46.88	75.00
SVGA VESA 85	800 x 600	53.67	85.06
MAC 16	832 x 624	49.72	74.55
MAC 19	1024 x 768	60.24	75.02
XGA VESA 60	1024 x 768	48.36	60.00
XGA VESA 70	1024 x 768	56.48	70.00
XGA VESA 75	1024 x 768	60.02	75.03
XGA VESA 85	1024 x 768	68.68	85.00
HP 75	1024 x 768	62.94	74.92
SXGA VESA 70	1152 X 864	64.00	70.02

Specification of HDTV signals

Signal mode	Resolution (H x V)	Horizontal frequency (kHz)	Vertical frequency (Hz)
480i	720 x480	15.80	60.00
480p	720 x480	31.50	60.00
576i	720 x576	15.60	50.00
576p	720 x576	31.30	50.00
720p 60	1280 x720	45.00	60.00
720p 50	1280 x720	37.50	50.00
1080i 60	1920 x1080	33.80	60.00
1080i 50	1920 x1080	28.10	50.00

Important:

- Some computers aren't compatible with the projector.
- The projector's maximum resolution is 800 x 600 pixels. It may not display images of higher resolutions than 800 x 600 correctly.
- Images with SYNC on G (Green) signal may jitter.
- Images with SYNC on G (Green) signal may be tinged with green.
- If the resolution and frequency of your computer aren't shown on the table, find the compatible resolution and frequency by changing the resolution of your computer.

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