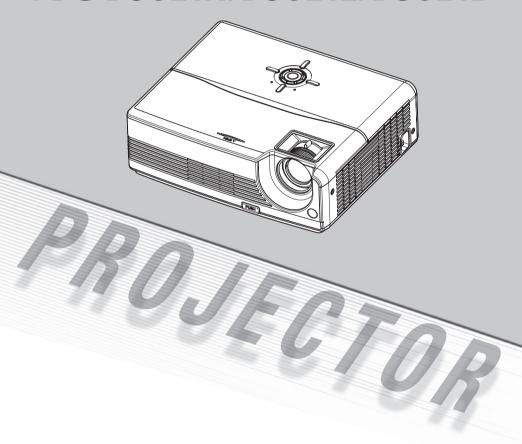
Multimedia Projector/Projecteur Multimédia Multimedia-Projektor/Proyector Multimedia Projetor Multimediale/Projetor Multimédia



OWNER'S MANUAL/MODE D'EMPLOI BEDIENUNGSANLEITUNG/MANUAL DEL USUARIO MANUALE D'USO/MANUAL DO PROPRIETÁRIO

MODEL/MODÈLE/MODELO/MODELL/MODELLO/MODELO

PDG-DSU21N/DSU21E/DSU21B





To the Owner

Before operating this projector, read this manual thoroughly and operate the projector properly. This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in better condition for a considerable time.

Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.

If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section in the end of this booklet. If the problem still persists, contact the dealer where you purchased the projector or the service center.



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



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



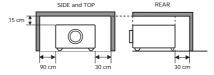
THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE

Safety Precaution

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

- This projector produces intense light from the projection lens. Do not stare directly into the lens, otherwise, eye damage could result. Be especially careful that children do not stare directly into the beam.
- Install the projector in a proper position. If not, it may result in a fire hazard.
- Provide appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum clearance must be maintained. 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.



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

CAUTION

DO NOT SET THE PROJECTOR IN GREASY, WET, OR SMOKY CONDITIONS SUCH AS IN A KITCHEN TO PREVENT A BREAKDOWN OR A DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.

NOTE: This symbol and recycle system are applied to EU countries only and not applied to the countries in the other area of the world.



Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste

Please dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!

CAUTION

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.

Ne peut être utilisé dans une salle d'ordinateurs telle que définie dans la norme ANSI/NFPA 75 Standard for Protection of Electronic Computer/ Data Processing Electronic.



Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.



SANYO FISHER Sales (Europe) GmbH

Stahlgruberring 4, D-81829 München, Germany

SANYO Electric Co., Ltd.

1-1, Sanyo-cho, Daito City, Osaka 574-8534, Japan

Notes on Lithium Battery (CARIFORNIA USA ONLY)

This product uses a Lithium Battery which contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Notas acerca de pilas de Litio (SOLO CARIFORNIA, EE.UU.)

Este producto usa una pila de litio que contiene el material perclorato - puede ser necesario una manipulatión especial.

Consulte la página

www.dtsc.ca.gov/hazardouswaste/perchlorate.

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.

Follow all warnings and instructions marked on the projector.

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

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

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

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.



Slots and openings in the back and bottom of the cabinet are provided for ventilation, to ensure 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.

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 install the projector near the ventilation duct of air-conditioning equipment.

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.

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.
- 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.

Owner's Manual

Air Circulation

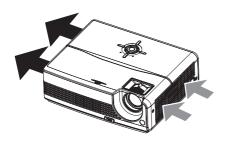
Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.

CAUTION

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

- Do not put any flammable object or spray can near the projector, hot air is exhausted from the ventilation holes
- Keep the exhaust vent at least 90 cm away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.
- Do not put anything on the cabinet.
 Objects put on the cabinet will not only get damaged but also cause fire hazard by heat.

Cooling fans are provided to cool down the projector. The fans' running speed is changed according to the temperature inside the projector.



Installing the Projector in Proper Position

Install the projector properly. Improper Installation may reduce the lamp life and cause a fire hazard.



Do not tilt the projector sideways.



Do not point the projector up to project an image.



Do not point the projector down to project an image.



Do not put the projector on either side to project an image.



Do not pitch the projector more than 6 degrees backward and forward.

Moving the Projector

When moving the projector, replace the lens cap, retract the elevator foot and tilt-adjustment foot to prevent damage to the lens and cabinet. When the projector is not in use for an extended period, put it into a suitable case with the lens side up to protect the projector.

When handling the projector, do not drop, bump, subject it to strong forces, or put other things on the cabinet.

USE CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable carrying case.
- 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, consult your dealer for their information.
- Do not put the projector in a case before the projector is cooled enough.

Compliance

Federal Communications Commission Notice

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

Model Number: PDG-DSU21N Trade Name: Sanyo

Responsible party: SANYO FISHER COMPANY

Address: 21605 Plummer Street, Chatsworth, California 91311

Telephone No.: (818)998-7322

AC Power Cord Requirement

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

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



AC Power Cord for the United Kingdom:

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

If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.

The end of the flexible cord should be suitably prepared and the correct plug fitted.

WARNING: A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:

Green-and-yellowEarth
BlueNeutral
Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \downarrow or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

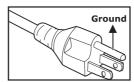
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING: THIS APPARATUS MUST BE EARTHED

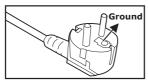
THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

Notes on the AC Power Cord

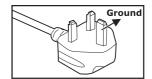
AC Power Cord must meet the requirement of countries where you use this projector. Please confirm your AC plug type with the graphics below and ensure that the proper AC Power Cord is used. If the supplied AC Power Cord does not match your AC outlet, please contact your sales dealer. This projector is equipped with a grounding type AC line plug. Please ensure that your outlet fits the plug. Do not defeat the safety purpose of this grounding type plug. We highly recommend using a video source device also equipped with a grounding type AC line plug to prevent signal interference due to voltage fluctuations.



For the U.S.A. and Canada



For Continental Europe



For the U.K.

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Introduction

Projector Features

The projector integrates high-performance optical engine projection and a user - friendly design to deliver high reliability and ease of use.

The projector offers the following features:

- Single chip 0.55" Texas Instruments DLP® technology
- SVGA (800 x 600 pixels)
- Auto image re-sizing (Auto-Sync.) to 800 x 600 full screen with scaling compression compatibility for VGA, SVGA, XGA* and SXGA*
- Compatibility with Macintosh® computers
- Compatibility with NTSC, PAL, SECAM and HDTV
- D-Sub 15-pin terminal for analog video connectivity
- User-friendly, multi-language on-screen display
- Advanced electronic keystone correction



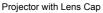
- * means compressed.
- DLP is a registered trademark of Texas Instruments.
- The On-Screen Menu and figures in this manual may differ slightly from the product.

Package Contents

When you unpack the projector, make sure you have all these components:

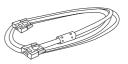
(Europe: J2552-0107-00)







AC Power Cord (USA: J2552-0109-00) (UK: J2552-0108-00)



VGA Cable (D-SUB to D-SUB) (J2552-0072-03)



Remote Control (IR)



Owner's Manual



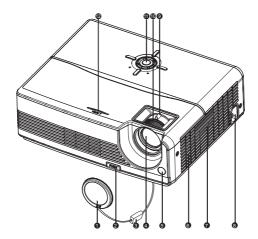
Quick Start Guide



- Save the original shipping carton and packing material; they will comein handy if you ever to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.
- Accessories and components may vary by retailer and region.

Projector Overview

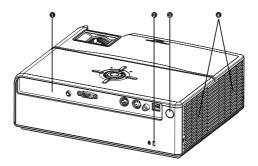
Front View



- Lens cap
- Elevator button
- 6 Lens cap strap
- Projection lens
- Front IR remote control sensor
- Speaker

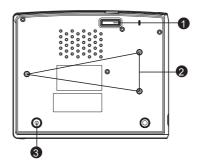
- Ventilation holes
- AC power socket
- Zoom ring
- Focus ring
- Control panel
- Lamp cover

Rear View



- Connection ports
- Kensington lock
- Rear IR remote control sensor
- Ventilation holes

Bottom View



- Elevator foot
- Ceiling mount (3-M4*6)
- Tilt-adjustment foot

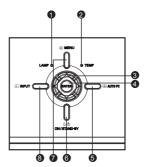


This projector can be used with a ceiling mount for support. The ceiling mount is not included in the package.

Using the Product

Control Panel

LED



- LAMP (Lamp LED indicator) Refer to "LED Indicator Messages".
- TEMP (Temperature LED indicator) Refer to "LED Indicator Messages".

Button Function

Four directional buttons

Use four directional buttons to select items or make adjustments to your selection.

ENTER

Enter to sub-menu and confirm the menu selection. Activate in Color Setting, Lamp Counter Reset and Factory Default menu operations.

AUTO PC

Resynchronize the projector to the input signal from a computer.

ON / STAND-BY

Turn the projector on or off.

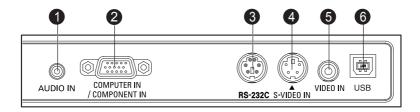
MENU

Display or exit the on-screen display menus.

INPUT

Manually select an input source.

Connection Ports



- AUDIO IN
 - Connect an audio output from video equipment to this jack.
- **COMPUTER IN / COMPONENT IN**

Connect image input signal (Analog RGB or Component) to this jack.

- @ RS-232C
 - Connect RS232C cable to RS232C port when operating the projector via a computer.
- S-VIDEO IN
 - Connect S-Video output from video equipment to this jack.
- VIDEO IN
 - Connect composite video output from video equipment to this jack.
- USB

This connector is for page up & down mouse control function and firmware update.

Remote Control

INPUT

Manually select an input source.

AUTO PC

Resynchronize the projector to the input signal from a computer.

NO SHOW

Hide the screen. Press again to cancel the NO SHOW function.

FREEZE

Press "FREEZE" to pause the screen image. Press again to cancel the FREEZE function.

O VOLUME + / -

Adjust the volume level.

PAGE ▲ / ▼(Computer mode only)

Scroll back and forth on the screen when giving a presentation. Connect the projector and your computer with a USB cable to use these buttons.

MUTE

Cut off the sound temporarily. Press again to cancel the MUTE function.

MENU

Display or exit the on-screen display menus.

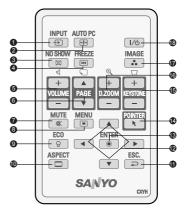
e ECO

Press this button to activate the eco mode

ASPECT

Press this button to switch the image aspect ratio from 4:3 to 16:9.

- An ESC.
 - Act as computer Esc button when keyboard function is selected.
 - Act as mouse right button when mouse function is selected
- Four directional buttons
 - Use four directional buttons to select items or make adjustments to your selection.
 - Act as computer keyboard (four directional buttons) when keyboard function is selected.
 - Act as mouse navigation when mouse function is selected.



na ENTER

- Enter to sub-menu and confirm the menu selection. Activate in Color Setting, Lamp Counter Reset and Factory Default menu operations.
- Act as computer Enter button when keyboard function is selected.
- Act as mouse left button when mouse function is selected.
- POINTER(Computer mode only)

Toggle this button to activate keyboard function or mouse function when your projector is connected with a USB cable. (Refer to section titled "POINTER function" for further details.)

KEYSTONE + / -

Correct the keystone distortion.

₽ D-ZOOM + / -

Zoom in and out the images.

na IMAGE

Select PC, Movie, sRGB or User mode.

n ON / STAND-BY

Turn the projector on or off.

Replacing the Battery

For the first time use:

Remove the transparent insulation tape by pulling it before use.

For battery change:



1. Remove the battery holder.



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



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





- Keep the battery out of the reach of children. There is a danger of death by accidentally swallowing the battery.
- Do not recharge the used battery or expose the battery to fire or water.
- Do not dispose of the used battery along with household waste. Dispose of used batteries according to local regulations.
- Danger of explosion may happen if batteries are incorrectly replaced. Replace only with the same type recommended by the manufacturer.

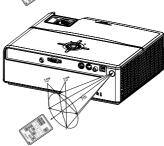
Remote Control Operation

Point the remote control at the infrared remote sensor and press a button.

Operating the projector from the front



Operating the projector from the rear





- The remote control may not operate when there is sunlight or other strong light such as a fluorescent lamp shining on the remote sensor.
- Operate the remote control from a position where the remote sensor is visible.
- Do not drop the remote control or jolt it.
- Keep the remote control out of locations with excessively high temperature or humidity.
- Do not get water on the remote control or place wet objects on it.
- Do not disassemble the remote control.

Installation

Connecting the Projector

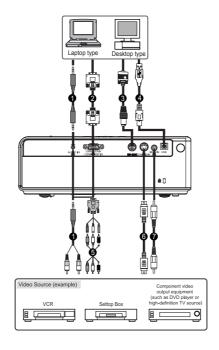
Audio Cable

6 VGA (D-SUB) to HDTV (RCA) Cable

- VGA Cable (D-Sub to D-Sub) (supplied) 6 S-Video Cable
- RS-232C Cable

Composite Video Cable

USB Cable





- When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet.
- The figure above is a sample connection. This does not mean that all of these devices can or must be connected simultaneously.
- The cables that come with the projector may differ from the above illustration. The included cables are based on actual shipment delivery.

Powering On/Off the Projector

Powering On the Projector:

- 1. Remove the projector lens cap.
- 2. Complete the AC power cord and peripheral signal cable(s) connections.
- 3. Press I/ button to turn on the projector.
 - The projector takes a minute or so to warm up.
- 4. Turn on your source (computer, notebook, DVD, etc.). The projector automatically detects your source.
 - If you are connecting multiple sources to the projector simultaneously, press the INPUT button.

Warning:

- Remove the lens cap first before powering on.
- Never look into the lens when the lamp is on. This can damage your eyes. It is especially important that children are not allowed to look into the lens.

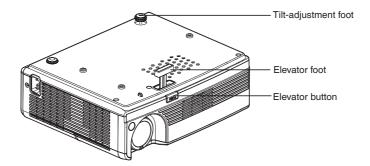
Powering Off the Projector:

- Press I/♥ button to turn off the projector lamp. You will see a message "Power off? Press Power again" appear on the screen.
- 2. Press I/ button again to confirm.
 - The cooling fans continue to operate for cooling cycle.
 - When the LAMP LED begins flashing, the projector has entered stand-by mode.
 - If you want to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered stand-by mode. Once in stand-by mode, simply press I/O button to restart the projector.
- 3. Disconnect the AC power cord from the electrical outlet and the projector.



- Faster on-off-cycles will damage the lamp and reduce lamp life. Wait at least for 5 minutes to turn off the projector after powering on.
- When the projector is in standby mode, LAMP LED and TEMP LED will flash once then go out, and the fan will also turn for one second. This is normal, and not a malfunction.

Adjusting the Projector Adjusting the Projector Height



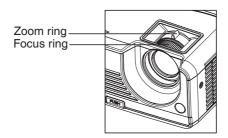
The projector is equipped with an elevator foot to adjust the image height. To raise or lower the image:

- To raise or lower the image, press the elevator button and raise or lower the front of the projector. Release the button to lock the adjustment.
- 2. To level the image on the screen, turn the tilt-adjustment foot to fine-tune the height.



- To avoid damaging the projector, make sure that the elevator foot and tilt-adjustment foot are fully retracted before placing the projector in its carrying case.
 - The tilt-adjustment foot in the bottom of the projector will fall from the projector when you loosen the foot to the maximum. In this case, turn it back into position. Do not let the tilt-adjustment foot fall from the projector when making the adjustment.

Adjusting the Projector Zoom and Focus

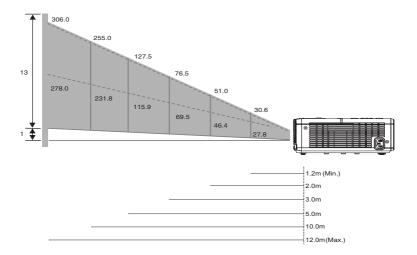


- 1. Focus the image by rotating the focus ring. A still image is recommended for focusing.
- 2. Adjust the image by sliding the zoom ring.



Adjusting Projection Image Size

Refer to the graphic and table below to determine the screen size and projection distance.



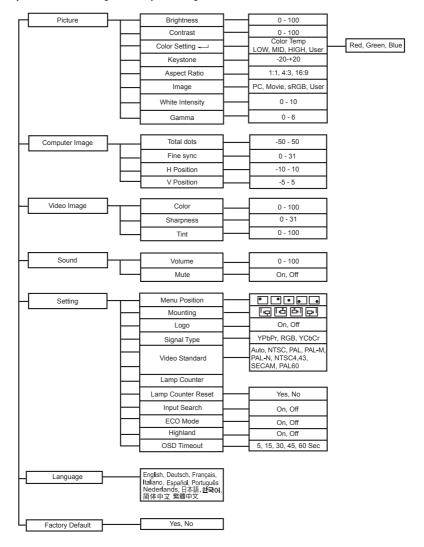
Projection Distance	Screen Size (for 4:3 aspect ratio diagonal length)					
(meters)	Wide (inches)	Tele (inches)				
1.2	30.6	27.8				
2	51.0	46.4				
3	76.5	69.5				
5	127.5	115.9				
10	255.0	231.8				
12	306.0	278.0				



- Position the projector in a horizontal position; other positions can cause heat build-up and damage to the projector.
- Make sure the heat ventilation holes are not blocked.
- Do not use the projector in a smoky environment. Smoke residue may cause build-up on critical parts (i.e. DMD, lens assembly, etc.)

Menu Operation

The projector has multilingual on-screen display menus that allow you to make image adjustments and change a variety of settings.



How to operate

- Press the Menu button on the control panel or the MENU button on the remote control to open the OSD menu.
- 2. When OSD is displayed, use ▲ / ▼ to select any feature in the main menu.
- 3. After selecting the desired main menu feature, press ▶ to enter sub-menu for feature setting.
- Adjust the settings with ◀ / ▶.
- Press the Menu button on the control panel or the MENU button on the remote control, the screen will return to the main menu.
- To exit OSD, Press the Menu button on the control panel or the MENU button on the remote control again. The OSD menu will close and the projector will automatically save the new settings.

Picture (Computer / Video Mode)

Brightness

Brighten or darken the image.

Contrast

Set the difference between light and dark areas.

Color Setting

Adjust the color temperature. At higher temperature the screen looks colder; at lower temperature, the screen looks warmer. If you select "User", "Red", "Green" and "Blue" can be adjusted.

Keystone

Correct the keystone distortion.



Computer Mode



Video Mode

Aspect Ratio (Computer Mode)

Select how the picture fits on the screen:

1:1 : If input source is bigger than DMD output resolution, it will full all the whole screen and ignore the aspect ratio.



4:3 : The input source will be scaled to fit the projection screen.



■ 16:9: The input source will be scaled to fit the width of the screen



Aspect Ratio (Video Mode)

Select how the picture fits on the screen:

4:3 : The input source will be scaled to fit the projection screen.
 16:9 : The input source will be scaled to fit the width of the screen.

Image

There are many factory presets optimized for various types of images.

■ PC : For computer or notebook.

Movie : For home theater.
 sRGB : For PC standard color.
 User : Memorize user's settings.

White Intensity

Increase the brightness of white areas.

Gamma

Effect the represent of dark scenery. With greater gamma value, dark scenery will look brighter.

Computer Image (Computer Mode)

Total dots

Adjust the timing of the projector relative to the computer.

Fine sync

Adjust the phase of the projector relative to the computer.

H Position (Horizontal Position)

Adjust the image left or right within the projection area.

V Position (Vertical Position)

Adjust the image up or down within the projection area.

Video Image (Video Mode)

Color

Adjust the intensity of colors.

Sharpness

Sharpen or soften the image.

Tint

Shift colors toward red or green.

Sound (Computer / Video Mode)

Volume

Adjust the volume level.

Mute

Mute the sound

Setting (Computer / Video Mode)

Menu Position

Choose the menu location on the display screen.

Mounting

Adjust the picture to match the orientation of the projector: upright or upside-down, in front of or behind the screen. Invert or reverse the image accordingly.

Logo

Choose to display the logo or not.

Signal Type

Specify the source to the COMPUTER IN/COMPONENT IN terminal that you wish to project.

■ YPbPr: For component 480p,576p,720p,1080i signals

RGB : For VGA signal

■ YCbCr: For component 480i,576i signals









Video Standard

Auto

The projector automatically detects an incoming video system, and adjusts itself to optimize its performance.

■ NTSC/PAL-M/PAL-N/NTSC4.43/SECAM/PAL60
If the projector cannot reproduce proper video image, select a specific broadcast signal format from among NTSC, PAL, PAL-M, PAL-N, NTSC4.43, SECAM, and PAL60.

Lamp Counter

Display the lamp's elapsed operating time (in hours).

Lamp Counter Reset

Reset the lamp counter to 0 hours.

Input Search

Automatically scan the input source.

ECO Mode

Use this function to dim the projector lamp light output which will lower power consumption and increase lamp life.

Highland

Turning on Highland mode operates the fans at full speed continuously to allow for proper high altitude cooling of the projector.

OSD Timeout

Duration OSD menu stays active (at idle state by second).

Language (Computer / Video Mode)

Select the language used by the on-screen menu.





Factory Default (Computer / Video Mode)

Restore menu settings to factory default settings. Mounting, Lamp Counter and Highland menus will not be reset.

Maintenance

The projector needs proper maintenance. You should keep the lens clean as dust, dirt or spots will project on the screen and diminish image quality. If any other parts need replacing, contact your dealer or qualified service personnel. When cleaning any part of the projector, always switch off and unplug the projector first.

Warning:

Never open any of the covers on the projector. Dangerous electrical voltages inside the projector can cause severe injury. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

Cleaning the Lens

Gently wipe the lens with lens cleaning paper. Do not touch the lens with your hands.

Cleaning the Projector Housing

Gently wipe with a soft cloth. If dirt and stains are not easily removed, use a soft cloth damped with water, or water and neutral detergent, and wipe dry with a soft, dry cloth.



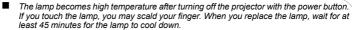
- Turn off the projector and remove the AC power cord from the power outlet before beginning maintenance work.
- Make sure the lens is cool before cleaning.
- Do not use detergents or chemicals other than those noted above. Do not use benzene or thinners.
- Do not use chemical sprays.
- Use a soft cloth or lens paper only.

Replacing the Lamp

As the projector operates over time, the brightness of the projector lamp gradually decreases and the lamp becomes more susceptible to breakage. We recommend replacing the lamp if a warning message is displayed. Do not attempt to replace the lamp yourself. Contact the qualified service personnel for replacement.

Replace the lamp when:

- A warning message "The lamp is approaching the end of its useful life. Replacement suggested!" appears on the screen.
- The projector lamp LED indicator turns into red. Refer to section titled "LED Indicator Messages" for further details.

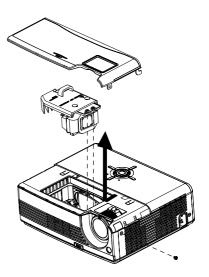


- Do not touch the lamp glass at any time. The lamp may explode due to improper handling, including the touching of the lamp glass.
- Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.
- A lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.
- Wear protective gloves and eyeglasses when fixing or detaching the lamp.
- Faster on-off-cycles will damage the lamp and reduce lamp life. Wait at least for 5 minutes to turn off the projector after powering on.
- Do not operate the lamp in proximity to paper, cloth, or other combustible material nor cover it with such materials. Otherwise it could cause a fire.
- Do not operate the lamp in an atmosphere containing an inflammable substance, such as thinner. Otherwise it could cause a fire or explosion.
- Thoroughly ventilate the area or the room when operating the lamp in an oxygen atmosphere (in the air). If ozone is inhaled, it could cause headaches, nausea, dizziness, etc.
- The inorganic mercury is involved in the lamp. If the lamp bursts, the mercury inside the lamp will go out of the projector. Leave the area immediately if the lamp shatters while being operated and ventilate the area for at least 30 minutes in order to avoid the inhalation of mercury furnes. Otherwise it could be harmful to user's health.



Owner's Manual

- 1. Turn off the projector.
- If the projector is installed in a ceiling mount, remove it from the mount.
- 3. Unplug the power cord.
- Loosen the screw in the side of the lamp cover and slide forward and remove the cover.
- 5. Remove the screws from the lamp module, raise the handle, and lift out the module.
- Insert the new lamp module into the projector and tighten the screws.
- 7. Replace the lamp cover and tighten the screw.
- Turn on the projector. If the lamp does not turn on after the warm-up period, try reinstalling the lamp.
- 9. Reset the lamp hour. Refer to the "Setting (Computer/Video)" menu.





- Dispose of the used lamp according to local regulations.
- Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.
- Since the lamp is made of glass, do not drop the unit and do not scratch the glass.
- Do not reuse the old lamp. This could cause the lamp to explode.
- Be sure to turn off the projector and unplug the AC power cord before replacing the lamp.
- Do not use the projector with the lamp cover removed.

ORDER REPLACEMENT LAMP

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

Model No. of your projector : PDG-DSU21N/ DSU21E/ DSU21B

Replacement Lamp Type No.: POA-LMP118

(Service Parts No. 610 337 1764)

Specifications

Display Type	Single 0.55" DLP® chip, 5-segment color wheel			
Resolution (Pixels)	SVGA (800 × 600)			
Lens	Manual Zoom (1.1x)			
Screen Size	30" – 300"			
Lamp	180W			
Input Source	D-Sub 15 pin, S-video, composite video, USB AUDIO IN (stereo phone jack), RS-232C			
Video Compatibility	NTSC3.58, NTSC4.43 PAL-60, M, N SECAM HDTV (480i/p, 576i/p, 720p, 1080i)			
Scanning Frequency Horizontal Freq. Vertical Freq.	31 - 79 KHz 50 - 85 Hz			
Integrated Speaker	2W x 1			
Environment	Operating: Temperature: 5°C to 35°C Humidity: 30%-85% Storage: Temperature: -20°C to 60°C Humidity: 30%-85%			
Power Requirement	AC 100 - 240 V, 50 - 60 Hz			
Power Consumption	230 W			
Dimension	271 x 218 x 85 mm			
Weight	2.5 kg (5.5lb)			

Note: Design and Specifications are subject to change without prior notice.

Remote Control

Battery	Lithium battery (CR2025)
Operating Range	±15°/7m
Dimensions	86.5 x 54 x 8.3mm
Net Weight	26.2g (without batteries)

Appendix

LED Indicator Messages

LED Type	Color	Status	Meaning
LAMP LED	Green	Flash	The projector is in standby mode.
TEMP LED	Off	-	
LAMP LED	Green	Solid	The projector system has some problems with its fan, so the projector cannot start up.
TEMP LED	Green	Flash	
LAMP LED	Green	Solid	The lamp is in good condition and is projecting at maximum brightness.
TEMP LED	Green	Solid	
LAMP LED	Amber	Solid	The lamp has reached its end of life and must be changed soon. The lamp will continue to operate until it fails. Change the lamp. If the lamp is off, then the ballast will become malfunction.
TEMP LED	Green	Solid	
LAMP LED	Amber	Solid	The projector is shutting and the fan motor is cooling the lamp for shutdown. Do not unplug the power cord or turn the power off before the Lamp LED changes to flashing. The fan motor will turn off when the lamp has been cooled.
TEMP LED	Amber	Solid	
LAMP LED	Green	Solid	Temperature is too high. The lamp will turn off. The fan motor is cooling the lamp.
TEMP LED	Red	Flash	
LAMP LED	Amber	Solid	The lamp ignition failed. If temperature is too high, the fans will cool the lamp.
TEMP LED	Off	-	

Optional Parts

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

COMPONENT-VGA Cable
 Soft Carrying Case
 RS232C cable
 POA-CAC-VCL2
 POA-MCSRL02

Compatibility Modes

Computer:

Compatibility	Resolution	H-Sync [KHz]	V-Sync [Hz]
VGA	640 x 480	31.5	59.9
		37.9	72.8
		37.5	75.0
		43.3	85.0
SVGA	800 x 600	35.2	56.3
		37.9	60.3
		48.1	72.2
		46.9	75.0
		53.7	85.1
XGA	1024 x 768	48.4	60.0
		56.5	70.1
		60.0	75.0
		68.7	85.0
SXGA	1152 x 864	64.0	70.0
		67.5	75.0
	1280 x 960	60.0	60.0
		75.0	75.0
	1280 x 1024	64.0	60.0
WXGA	1280 x 768	47.8	60.0
		60.3	74.9
		68.6	84.8
	1280 x 800	49.7	59.8
		62.8	74.9

Vid∈o:

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480i	15.8 kHz	60 Hz
480p	31.5 kHz	60 Hz
576i	15.6 kHz	50 Hz
576p	31.3 kHz	50 Hz
720p	45.0 kHz	60 Hz
720p	37.5 kHz	50 Hz
1080i	33.8 kHz	60 Hz
1080i	28.1 kHz	50 Hz

Troubleshooting

Refer to the symptoms and measures listed below before sending the projector forrepairs. If the problem persists, contact your local reseller or service center. Please refer to "LED Indicator Messages" as well.

Start-up problems

If no lights turn on:

- Be sure that the power cord is securely connected to the projector and the other end is plugged into an outlet with power.
- Press the ON / STAND-BY button again.
- Unplug the power cord and wait for a short while, then plug it in and press the power button again.

Image problems

If the searching source is displayed:

- Press the INPUT button one or more times to select another active input source.
- Be sure the external source is turned on and connected.
- For a computer connection, ensure your notebook computer's external video port is turned on. Refer to the computer manual.

If the image is out of focus:

- Be sure the lens cap is open.
- While displaying the on-screen menu, adjust the focus ring. (The image size should not change; if it does, you are adjusting the zoom, not the focus.)
- Check the projection lens to see if it needs cleaning.

If the image is flickering or unstable for a computer connection:

- Press the AUTO PC button
- Press the MENU button, go to Computer Image and adjust Total dots or Fine sync.

If no image appears on screen:

- Turn the projector on.
- Check that all connections are setup correctly.
- Check that all connected devices are functioning properly.
- Remove the lens cap and turn the projector on.

Remote control problems

If the remote control does not operate:

- Be sure nothing is blocking the remote control receiver on the front or back of the projector. Use the remote control within the effective range.
- Aim the remote control at the screen or at the front or back of the projector.
- Move the remote control so it is more directly in front of or behind the projector and not as far to the side.
- The battery could be weak. Replace with a new battery.

Serial Control Interface

This projector provides a function to control the projector's operations by using the RS-232C serial port.

Connection and Operation

- Connect a RS-232C serial cross cable to RS-232C PORT on the projector and serial port on the PC.
- Launch a communication software provided with PC and setup the communication condition as follows:
- Send the command strings by the HEX key (HEX is in the range of 0-9 and a-f) for controlling the projector.

Baud rate : 19200 bps
Parity check : none
Stop bit : 1
Flow control : none
Data bit : 8

Command Format

The command is sent from PC to the projector with the format as below table. The projector decodes the command and returns the confirmation 'ACK' = '06'.

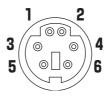
The below table shows the typical command lists for controlling the projector. Please consult your local dealer for further information of another commands.

Command					Com	man	d Str	ings	(HE	X)			
Power ON	BE	EF	10	05	00	C6	FF	11	11	01	00	01	00
Power OFF	BE	EF	03	06	00	DC	DB	69	00	00	00	00	00
Menu	BE	EF	02	06	00	E9	D3	30	00	00	00	00	00
▲ UP	ВЕ	EF	02	06	00	6D	D2	34	00	00	00	00	00
▼ DOWN	ВЕ	EF	02	06	00	0B	D2	32	00	00	00	00	00
◀ Left	ВЕ	EF	02	06	00	DA	D3	33	00	00	00	00	00
▶ Right	ВЕ	EF	02	06	00	38	D2	31	00	00	00	00	00
Input	BE	EF	02	06	00	57	D0	2E	00	00	00	00	00
Auto PC Adj.	ВЕ	EF	02	06	00	86	D1	2F	00	00	00	00	00
Mute	BE	EF	02	06	00	0E	DE	67	00	00	00	00	00
Keystone UP	ВЕ	EF	03	06	00	10	D8	65	00	00	00	00	00
Keystone DOWN	BE	EF	03	06	00	23	DB	66	00	00	00	00	00
Volume UP	ВЕ	EF	02	06	00	F1	DE	68	00	00	00	00	00
Volume DOWN	ВЕ	EF	02	06	00	20	DF	69	00	00	00	00	00
NO Show	ВЕ	EF	02	06	00	DF	DF	66	00	00	00	00	00
Freeze	ВЕ	EF	02	06	00	СВ	DC	72	00	00	00	00	00
Aspect	ВЕ	EF	03	06	00	0 D	DA	68	00	00	00	00	00
Select Computer (Analog)	BE	EF	03	19	00	19	29	01	47	02	СС	СС	00
Select Component	ВЕ	EF	03	19	00	89	E8	01	47	02	СС	СС	00
Select S-Video	BE	EF	03	19	00	E8	69	01	47	02	СС	СС	00
Select Video	BE	EF	03	19	00	78	A8	01	47	02	СС	СС	00

Configuration of RS-232C Terminal

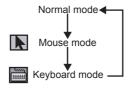
Mini DIN 6 pin

	- 1
1	GND
2	GND
3	RX1
4	CTS
5	TX1
6	RTS



POINTER function

- 1. Connect the projector and PC with USB cable.
- 2. Press POINTER button on the remote control, and its flow follows as below:



Icon	Available button on the remote control	Functions		
	PAGE UP/DOWN	Scroll pages		
	ENTER	Left click button		
	Directional buttons	Move cursor		
	ESC	Right click button		
	PAGE UP/DOWN	Scroll pages		
	ENTER	Enter button		
	Directional buttons	the same as Keyboard directional buttons		
	ESC	Esc button		





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