



PDI-DVD-SH

Healthcare Grade DVD Player

Important Safety Instructions



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 literature accompanying this unit.



RISK OF ELECTRIC SHOCK, DO NOT OPEN!



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES. READ AND FOLLOW THE SAFETY INSTRUCTIONS BEFORE ATTEMPTING THIS INSTALLATION.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from

the apparatus.

- Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

CLASS 1 LASER PRODUCT

CAUTION: This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference Please refer servicing to qualified service personnel. Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure. prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation present when DO NOT STARE INTO opened. BEAM.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE TIS PRODUCT TO RAIN OR MOISTURE

WARNING: Do not install this product in a confined space such as a bookcase or similar unit.

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CLEANING AND DISINFECTING: Do not immerse this product. Clean the exterior of this product with a dry lint free cloth. Do not use abrasive or chemical cleaning agents.

Note to CATV installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry into the room as practical.

FCC Compliance

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

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for 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 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 on the affected receiver.
- Increase the separation between this device and the receiver.
 Connect this device 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.

This Class B digital apparatus complies with Canadian ICES-003.

Mounting Options

The model PDI-DVD-SH Healthcare Grade DVD is a specialized DVD player. This DVD player is intended for entertainment and educational purposes for use in a hospital, nursing home, medical-care center, or a similar healthcare facility in which installation is limited to a non-hazardous area in accordance with the National Electrical Code, ANSI/NFPA 70. This unit should be wall, shelf, or table mounted only and should not be taken into the bed or operated directly from the bed. The player is designed for mounting to PDi manufactured mounts (ordered separately and not supplied with player). Alternately, the player can be placed on a table or shelf near the TV.

The following mounting options are available from PDi:

- PD168-028, thin mounting bracket, bracket version, wall or table mount
- PD181-682, thin mounting bracket, plate version, wall mount
- PD168-043, 100mm TV mount
- PD168-044, 200mm TV mount

Accessories

The images in this manual are only for reference and they may be different from the actual ones.



A/V Cable



User Manual



Remote Control

NOTE:

Accessories and their parts numbers are subject to change without prior notice.

^{*}For additional assistance, contact PDi Communication Systems 800-628-9870

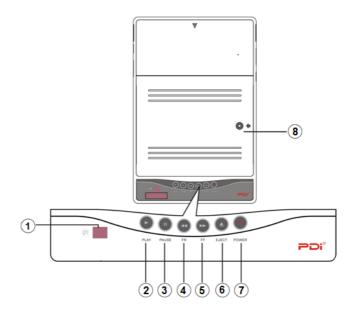
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Overview

Front View



1. Remote Sensor

Receive the signal from the remote control for operation.

2. ▶ (PLAY) Button

Press to confirm selection or start playback.

3. | (Pause) Button

II: Press to pause the playback. Press ▶ (PLAY) button to resume normal playback.

4. **∢** FR

Press it to play backward.

5. **→** FF

Press it to play forward.

6. ≜ EJECT button

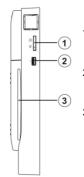
Press to eject the disc.

7. Power Button

Press to turn the unit On or Off

8. Disc Tray Door

Right Side View



1. SD/MS/MMC Card Slot

Used to insert the SD/MS/MMC card.

2. USB Port

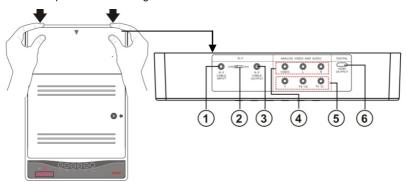
USB port for connection of USB Flash Drives/Sticks.

. Disc Tray Slot

Used to load disc.

Top View

Remove the top cover towards the direction to show the connected ports of external signal cables.



- 1. R/F Cable Output RF cable TV signal input.
- CH4/CH3
 Modulate RF channel 3 or 4 selector switch.
- 3. R/F Cable Output Modulated RF cable TV singal.
- **4.** L/R AV Output Jacks Connect L/R AV signal source.

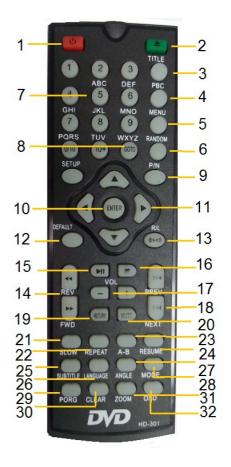
- 5. Y/Pb/Pr (Y/Cb/Cr) Jacks
 Connecting for the Y/Pb/Pr output.
- 6. HDMI Output Jack
 Connecting for HDMI sig

Remote Control

The remote control operates using two AAA batteries (not included)

Note: Button functions are detailed in "Playback Operation" section in this manual.

- 1. Power button
- EJECT button
- 3. TITLE button
- 4. PBC, Menu/Play
- 5. Menu
- 6. Random
- 7. 0-9 Number buttons
- 8. GOTO button
- 9. P/N, TV type
- 10. Enter buttons
- 11. Cursor buttons ▲ ▼ ◀ ▶
- 12. Default
- 13. R/L
- 14. **ዺ/**▶ Rev/Fwd buttons
- 15. ▶, II Play/sPause
- 16. **■**, Stop
- 17. Vol- / Vol+
- 18. ⋈/≯ PREV/NEXT
- 19. Return
- 20. Mute
- 21. Slow
- 22. Repeat
- 23. A-B button
- 24. Resume
- 25. Subtitle
- 26. Language
- 27. Angle
- 28. Mode
- 29. Prog
- 30. Clear
- 31. Zoom
- 32. OSD



Use of Remote Control

Point the remote control unit to the remote sensor within the range of 5 meters and angles of 60 degree, and without obstacles between remote control and remote sensor.

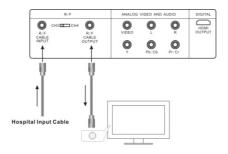


System Connections

- Do not connect the power supply until all connections have been made.
- Observe color code when connecting audio and video cables.

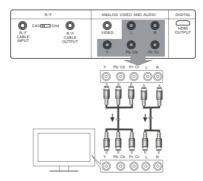
Connecting to a TV using an RF Coax Cable

Follow the drawing below to connect the DVD player to TV's Audio/Video input with RF coax cable.



Connecting to a TV using the Component (YPbPr)

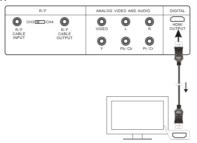
Use the audio and video cables to connect the Y/Pb(Cb)/Pr(Cr) input jacks on the rear panel of the unit to the external AV signal source. Ensure that the corresponding input (e.g. Component 1 or Component 2) is enabled in the "Source Setup" menu of external AV source.



NOTE: The Y/Pb/Pr jacks on your DVD player are sometimes labeled Y/Cb/Cr or Y/B-Y/R-Y. If so, connect the cables to like colors.

Connecting to a TV using the HDMI Input

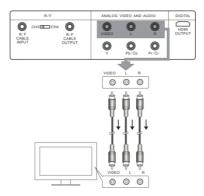
Follow the figure below to connect an HDMI cable (not supplied) to the HDMI jack on the rear panel of the TV.



Verify that the corresponding mode (e.g: HDMI 1 or HDMI 2) is enabled in the TV's Setup menu.

Connecting to a TV using the AV Output

Follow the figure below to connect a TV to the AV output jacks on the rear panel of the DVD player. Connection is color-coded.



After connection, ensure that the corresponding (e.g. COMPOSITE VIDEO) mode is enabled in the Source Setup menu of the television.

Notes on Discs

Compatible Disc Formats

	DISC LOGO	DIAMETER	PLAYBACK TIME/ PLAYABLE SIDES
		12cm	133 min (SS-SL)
			242 min (SS-DL)
			266 min (DS-SL)
DVD			484 min (DS-DL)
	DVD	8cm	41 min (SS-SL)
	VIDEO		75 min (SS-DL)
			82 min (DS-SL)
			150 min (DS-DL)
95	COMPACT	12cm	74 min
CD	DIGITAL AUDIO	8cm 20 min	20 min
JPEG		12cm	

Please follow Disc's instructions

Care of Discs

Holding Discs

Hold the Disc by the edges as shown, when loading or removing from the player.



Cleaning

Fingerprints or stains on the disc may affect the quality of sound and picture. To clean your discs, use a soft, clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.



Do not wipe in a circular direction as shown in the figure. Gently wipe from the center of the disc to the outer edge as shown.



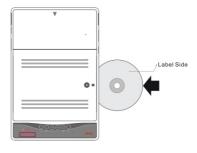
Playback Operation



PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE USING YOUR DVD PLAYER FOR THE FIRST TIME. WARNING: Do not play poor quality discs to avoid damaging the lens.

Pre-operation

- 1. Plug power cord into wall outlet
- 2. Press Power button once on the unit.
- Press Eject to remove a loaded disc. Insert desired disc into the slot with the disc Label Side up (showing).
- 4. The player will search disc and enter the disc searching status.
- Adjust the volume with VOL+/VOLbutton on remote control.
- To turn the player off, press Power button again.



AV Output

Playback in the AV mode is the same for Composite, HDMI, or Component YPbPr. Please refer to the following instructions for these modes.

Note: the corresponding input must first be selected on the TV for proper display of the signal.

Video - DVD Playback

Region code

DVD units and discs are coded by region. If the region number described on the DVD disc does not correspond to the region number of this product, this product cannot play the disc.

Play

After loading a DVD disc, the screen will display a menu and press ▲ ▼ buttons to select the item and press OK button to play.

Pause

During playback, press **II** button on the remote control to pause playback and press it repeatedly to start step-by-step playback. Press ▶ (Play) to resume normal playback.

Stop

During playback, press ■ button once to stop playback and press ► (Play) to resume normal playback. Press ■ button twice repeatedly to stop playback completely.

Previous and Next

During playback, press \bowtie button once to go to the beginng of the current chapter and press it again to go to the previous chapter; press \bowtie to go to next chapter.

Fast Playback

During playback, press button to start fast backward playback; press button to start fast forward playback. Press (Play) to return to normal playback during fast playback.

ZOOM

During playback, press ZOOM button repeatedly to shift among 2x - 3x - 4x - 1/2 - 1/3 - 1/4 - normal size in sequence.

A-B

During playback, press A-B button to select the segment to repeat. Press once to select the starting point A, press again to select the end point B and the unit will play the segment between A-B continuously. Press A-B button the third time to cancel the repeat.

MENU

During playback, press MENU button to display the root menu on the screen. On the menu, Press the • • • button to select item and press the OK button to confirm. Or press the 0-9 and +10 buttons to select the item directly.

TITLE

In general, the content of a DVD disc can be divided into several titles, and also there are several menus in a title.

During playback, press the TITLE button to display the title menu on the screen. On the menu, press the + + + button to select title and press the OK button to confirm. Or press the 0-9 then press OK to select the item directly.

REPEAT

Press it repeatedly to repeat a Chapter, Title, All or cancel repeat in sequence.

Note: Some discs do not support the repeat function.

AUDIO

Press to select the program's audio language, if the disc supports multi-lingual languages.

SUBTITLE

Press to select the subtitle language, or to turn off subtitles if active.

Note: the disc must contain multi-subtitle languages.

INFO

Press to open or close display of the detailed information of current playback.

GOTO

During playback, press the GOTO button to enter the menu to select desired title, chapter or playback time, etc. On the menu, use the ▲ ▼ button to select the item and press the OK button to enter. Use the number button or ▲ ▼ button to set and press the OK button to confirm. Press the GOTO button again to exit.

◆ Some DVD discs do not support the search function.

CD Playback

The player will play all tracks on a CD disc by default. You can use the ⋈ and ⋈ buttons, or number buttons to select a track.

Pause

During playback, press **II** button on the remote control to pause playback and press **I** (PLAY) to resume normal playback.

Stop

During playback, press ■ once to stop playback and press ▶ (PLAY) to resume the normal playback. Press ■ button twice repeatedly to stop playback completely.

Previous and Next

During playback, press ⋈ button to go to the previous track; press ⋈ button to go to next track.

Fast Playback

During playback, press button to start fast backward playback; press button to start fast forward playback. During fast playback, press ▶ (Play) button button to return to normal playback.

REPEAT

Press it repeatedly to repeat a Track, All or cancel repeat in sequence.

INFO

Press INFO button to open or close display of the detailed information of current playback.

AUDIO

Press AUDIO button repeatedly to select sound track as follows:

Mono Left → Mono Right → Mix-Mono → Stereo

GOTO

During playback, press GOTO button repeatedly to enter desired disc playback time, track time or track. On each menu, use the 0-9 buttons and OK button to input number and the unit will jump there.

JPEG Playback

After loading a JPEG disc, the screen displays the root folder. Press ▲ ▼ to select a folder and press OK button to enter. On the folder, press ▲ ▼ to select files and press ▶ (Play) button to play; press ◀ to return to the previous folder.

Pause

During playback, press II button on the remote control to pause playback and press II button again or > (Play) to resume normal playback.

Stop

During playback, press ■ button to enter picture preview mode. Press ◆ ▶ ▲ ▼ button to select a picture and press OK button to play.

Previous and Next

During playback, press ₩ button to go to the previous picture; press ▶ button to go to next picture.

ZOOM

During playback, press ZOOM button first and then press → button to zoom in the picture as follows: 50%-200%; press ← button to zoom out the picture as follows: 200%-50%.

MENU

During playback, press MENU button to return to folder mode. Press OK button to resume normal playback.

REPEAT

Press it repeatedly and repeat mode will shift as follows:

Single → Repeat One → Repeat Folder

GOTO

During playback, press the GOTO button and press 0-9 buttons to select and show the desired picture.

In folder mode, press it to highlight folder number, press 0-9 buttons to input number to enter the desired one.

Picture Rotate

While viewing a picture, press the ▲ ▼ ◀ ▶ button to rotate the picture.

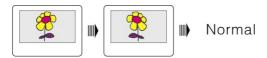
During playback, press the ▶ button to rotate the current picture clockwise:



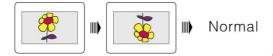
During playback, press the \(\) button to rotate the current picture counterclockwise:



During playback, press the ▼ button to flip the current picture horizontally :



During playback, press the **a** button to flip the current picture vertically:



Note: Some picture CD discs are restricted and picture zooming, rotation, and flipping may not function.

USB and SD/MS/MMC Card Function

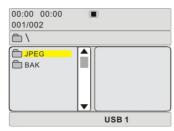
- 1. Plug power cord into wall outlet.
- 2. Turn the player on.
- Insert the USB memory stick into the USB port or insert the SD/MMC/MS into the SD card slot (see the figure on the right).



Note: Prior to connecting the device, make sure that the USB memory stick or the SD card contains files.

- Press the Mode button on the remote to pop up the media selection menu as shown:
- Press the ▲ ▼ button to select USB memory playback or MCR for the SD/MS/MMC playback and press Enter button to start. Please see the figure below:





- 6. Press the ▲ ▼ button to select the folder, and press OK button to enter.
- Press the ▲ ▼ button to select the desired track. Then press ► PLAY button to start playback.
- 8. Press ■STOP button to stop playback. Press ▶PLAY button to start playing from the beginning of the current track. Press the ◀ button to return to the folder menu.

Notes:

- The screen display varies according to the content of the USB stick and the SD/MMC/MS card.
- Pull out the USB memory or SD/MS/MMC card directly after the files have been played.

Setup

You can change the default settings of this unit to customize its performance to your own preference.

Note: Set up the system while playing is stopped or there is no disk in the player.

To set up your system:

- 1. Press the SETUP button on the remote control.
- 2.The setup menu will appear on the screen. It includes General Setup, Language, Audio, Picture, Speaker, and Dolby. You can exit from the setup menu by pressing SETUP button again at any time during setting.
- 3. Press the direction buttons ◆ or ▶ to select a sub-menu to set up.
- Press the direction buttons ▲ or ▼ to select the item that you want to set up in the sub-menu.

General Setup Page



The items included on this menu are shown at left.

Press ▲ ▼ to highlight this item.

Press > to enter.

Press • button to choose the proper selection.

Press ENT to confirm and press to exit.

1. TV Display

- NTSC
- PAI
- AUTO

2. SCREEN SAVER

- On: The screen will display angle symbols when a multi-angle DVD is running.
- Off: The angle symbol will not be displayed.

3. RESOLUTION

- 480i/576p
- 480p/576p
- 720p
- 1080i
- 1080p

4. VIDEO

- TV-RGB
- S-VIDEO
- COMPONENT
- PC-VGA

5. TV TYPE

Select the TV type between PAL and NTSC; NTSC is used for North America.

- 4:3PS
- 4:3LB
- 16.9.

6. PASSWORD

Use for changing the password. 0000 is the super password.

7. RATING

*You must enter the password before setting the rating on the DVD player.

Allows parental control of movies according to rating.

8. DEFAULT

This item is used to reset the unit to factory presets.

- Press ▲ ▼ button to highlight this item.
- Press > to select the "Restore".
- Press OK to restore all settings to default status.

Note: Some discs may not support these functions.

Language



The items included on this menu are shown at left.

Press ▲ ▼ to highlight this item.

Press > to enter.

Press ▲ ▼ button to choose the proper selection.

Press OK to confirm and press to exit.

- The OSD will support 5 languages
- Audio, Subtitle, and Menu will support 6 languages

Audio



The items included on this menu are shown at left.

Press ▲ ▼ to highlight this item.

Press > to enter.

Press ▲ ▼ button to choose the proper selection.

Press OK to confirm and press 4 to exit.

- Audio Out
- Key____

Picture



The items included on this menu are shown at left.

Press ▲ ▼ to highlight this item.

Press > to enter.

Press ▲ ▼ button to choose the proper selection.

Press OK to confirm and press to exit.

- Brightness
- Contrast
- Hue
- Saturation

Speaker



The items included on this menu are shown at left.

Press ▲ ▼ to highlight this item.

Press > to enter.

Press ▲ ▼ button to choose the proper selection.

Press OK to confirm and press to exit.

Speaker Setup (Downmix)

• LT/RT: Output mixed audio in the format provided by Dolby.

• Stereo: Output stereo signal.

VSS: Surround sound

Dolby Digital Setup



The items included on this menu are shown at left.

Press ▲ ▼ to highlight this item.

Press > to enter.

Press ▲ ▼ button to choose the proper selection.

Press OK to confirm and press ◀ to exit.

1. OP Mode

- Line Out
- RF Remod

2. Dynamic Range

Used to adjust the linear dynamic compression rates for different compression effects. Only active during Dolby digital sound.

3. Dual Mono

- Stereo: Outputs the stereo sound.
- L-Mono: Outputs Left channel sound only.
- R-Mono: Outputs Right channel sound only.
- Mix-Mono: Outputs Mono sound.

Definitions

Letterbox screen

This refers to a screen on which the playback picture of wide-screen DVDs appears with black bands running along the top and bottom.

Pan & Scan screen

This refers to a screen on which the playback picture of wide-screen DVDs is cut off at the left and right sides.

Title, Chapter (DVD)

DVDs are divided into some large sections (titles) or some small sections (chapters). Each section is numbered: these numbers are called Title number or Chapter number.

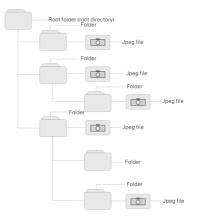
Track (CD)

CDs are divided into some sections (tracks). Each section is numbered; these numbers are called Track number.

Track 1 Track 2 Track 3

JPEG

JPEG is a common picture format that has small file size and low quality loss rate of picture. Hundreds of pictures can be stored in a disc in this format. In order to utilize real digital album, use film to make a Picture CD in JPEG format.



Troubleshooting

If you suspect there is something wrong with the DVD player, immediately turn the power off. Disconnect the power connector and check that there is no smoke or excessive heat coming from the unit.



Never open or try to repair the unit yourself. There are no user serviceable parts inside.

PROBLEIVI	
The player cannot play.	

PROBLEM

POSSIBLE CAUSE	POSSIBLE SOLUTION
The disc cover may not be closed.	Close the disc cover.
There may be no discs in the DVD drive.	Put a disc in to the DVD drive.
The disc may not be put in in the right way.	Put the disc in with the label side up.
The disc may be dirty or warped.	Clean or change the disc.
The player's region code may not as the same as the region code of DVD disc.	Make sure the player's region code is the same as the region code of DVD disc.
There may be water on the lens.	Remove the disc and keep the player being powered off for at least two hours.

There is no sound

The system connection may be not correct.	Connect the system correctly.
The speakers may be turned down.	Turn on the speaker.
The sound setup of the DVD disc may be not correct.	Setup the sound of the DVD correctly.
The disc may be dirty or warped.	Clean or change the disc.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
	The LCD may be not in correct video mode.	Choose the correct video mode.
There is no picture.	The system connection may be not correct.	Connect the system correctly.
	The unit may be not in AV out mode.	Switch AV IN/OUT on the right panel to OUT.
Poor AV performance.	The disc may be dirty or warped.	Clean or change the disc.
	There may be some obstructions between the remote control and the player.	Remove the obstruction between the remote control and the player.
The remote control	The remote control may not be pointed at the player.	Point the remote control at the player directly.
does not work	The batteries of remote control may not be inserted correctly.	Make sure the polarity of each battery is correct.
	The batteries of remote control may be out of power or weak.	Replace the batteries.

Other Possibilities:

Static or other external interference may have caused the player to malfunction. To restore proper operation, please disconnect the AC power cord from the wall outlet and then re-connect the power cord to the wall outlet. If the problem still exists, please disconnect the AC power cord and consult your service center or a qualified technician.

Specifications

Laser Wavelength	780/650nm
Video System	PAL/NTSC
Frequency Response	20Hz-20kHz ±2.5dB
Audio Signal-to-noise Rate	≥90dB
Audio distortion + noise	≤ -70dB (1kHz)
Channel Separation	≥70dB (1kHz)
Dynamic Range	≥80dB (1kHz)
Audio Out	Out Level $2V_{1,0}^{0.2}$, Load $10k\Omega$
Video Out	Out Level 1V _{P-P} ±0.2, Load 75Ω Unbalanced Negative
Power	120V AC, 60 Hz, 8Watts
Dimensions	11.5" (292mm) x 7.6" (192mm) x 2.0" (51mm)
Weight	Approximate 2.5 lbs. (1.12 Kg)

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